



INSTRUCTIONS

This manual contains important warnings and information.  
**READ AND KEEP FOR REFERENCE.**

First choice when quality counts.™

## Silver Airless Spray Gun

5000 psi (345 bar) Maximum Working Pressure

### Model 237-695, Series B

2 finger trigger. Tip Guard and Spray tip not included; order separately.

### Model 235-460, Series C

Includes the Standard (non-reversing) DripLess™ Tip Guard and 2 finger trigger. Spray tip not included; order separately.

### Model 235-461, Series B

Includes the Standard (non-reversing) DripLess™ Tip Guard and 4 finger trigger. Spray tip not included; order separately.

### Model 235-462, Series C

For Fine-Finish. Includes the standard (non-reversing) DripLess™ Tip Guard and 2 finger trigger. Spray tip not included; order separately.

### Model 235-463, Series D

Includes RAC® DripLess™ Guard, 517 size SwitchTip™, and 2 finger trigger.

### Model 235-464, Series C

Includes Heavy Duty RAC® Tip Assembly, 617 size SwitchTip™, and 2 finger trigger.

### Model 238-591, Series A

Includes Heavy Duty RAC® Tip Assembly, 525 size SwitchTip™, and 4 finger trigger.

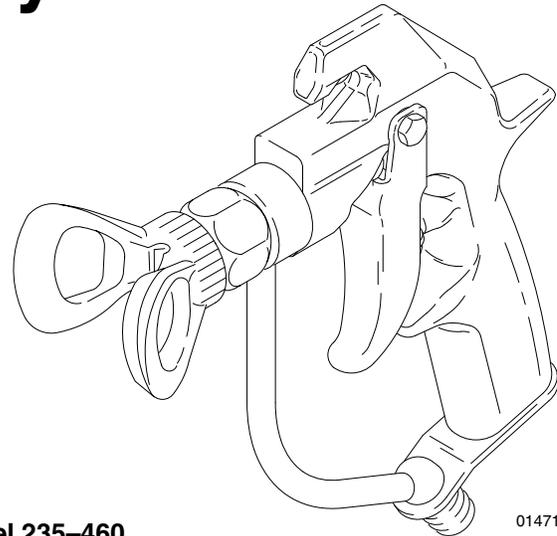
### Model 236-531, Series C

Includes Heavy Duty RAC® Tip Assembly, 415 size SwitchTip™, and 2 finger trigger.

### Model 238-966, Series A

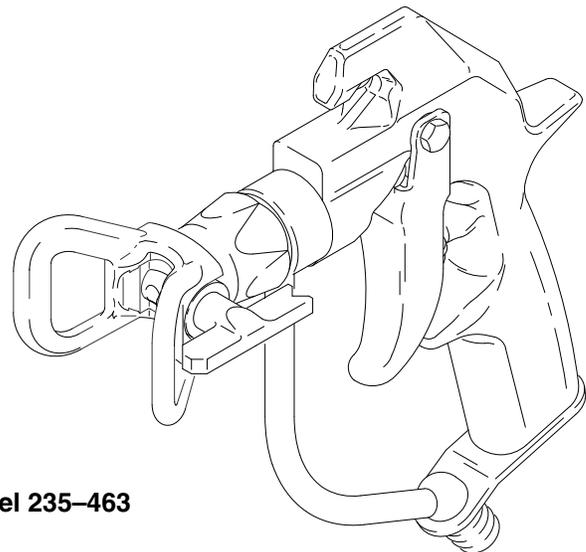
Includes Heavy Duty RAC® Tip Assembly, Customer specified tip, four finger fluid housing and 2 finger trigger.

Patents Pending



Model 235-460

01471



Model 235-463

01472A

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# Symbols

## Warning Symbol



This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions.

## Caution Symbol



This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the instructions.

# ! WARNING



INSTRUCTIONS

## EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture or malfunction and result in serious injury.

- This equipment is for professional use only.
- Read all instruction manuals, tags, and labels before operating the equipment.
- Use the equipment only for its intended purpose. If you are not sure, call your Graco distributor.
- Do not alter or modify this equipment. Use only genuine Graco parts.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- Do not exceed the maximum working pressure of the lowest rated system component. Refer to the **Technical Data** on page 14 for the maximum working pressure of this equipment.
- Use fluids and solvents which are compatible with the equipment wetted parts. Refer to the **Technical Data** section of all equipment manuals. Read the fluid and solvent manufacturer's warnings.
- Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminum equipment. Such use could result in a chemical reaction, with the possibility of explosion.
- Do not use hoses to pull equipment.
- Route hoses away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not expose Graco hoses to temperatures above 66°C (150°F) or below -40°C (-40°F).
- Wear hearing protection when operating this equipment.
- Do not lift pressurized equipment.
- Comply with all applicable local, state, and national fire, electrical, and safety regulations.

# ! WARNING



## INJECTION HAZARD

Spray from the gun, leaks or ruptured components can inject fluid into your body and cause extremely serious injury, including the need for amputation. Fluid splashed in the eyes or on the skin can also cause serious injury.



- Fluid injected into the skin might look like just a cut, but it is a serious injury. **Get immediate medical attention.**
- Do not point the gun at anyone or at any part of the body.
- Do not put your hand or fingers over the spray tip.
- Do not stop or deflect leaks with your hand, body, glove or rag.
- Do not “blow back” fluid; this is not an air spray system.
- Always have the tip guard and the trigger guard on the gun when spraying.
- Check the gun diffuser operation weekly. See page 8.
- Be sure the gun trigger safety operates before spraying.
- Lock the gun trigger safety when you stop spraying.
- Follow the **Pressure Relief Procedure** on page 5 if the spray tip clogs and before cleaning, checking or servicing the equipment.
- Tighten all fluid connections before operating the equipment.
- Check the hoses, tubes, and couplings daily. Replace worn or damaged parts immediately. Do not repair high pressure couplings; you must replace the entire hose.
- Fluid hoses must have spring guards on both ends, to help protect them from rupture caused by kinks or bends near the couplings.



## MOVING PARTS HAZARD

Moving parts can pinch or amputate your fingers.

- Keep clear of all moving parts when starting or operating the pump.
- Before servicing the equipment, follow the **Pressure Relief Procedure** on page 5 to prevent the equipment from starting unexpectedly.



## RECOIL HAZARD

Due to the high pressure fluid emitted, a strong recoil action may occur when you trigger this gun. If you are unprepared, your hand could be forced back toward your body or you could lose your balance and fall, resulting in serious injury.

# WARNING



## FIRE AND EXPLOSION HAZARD

Improper grounding, poor ventilation, open flames or sparks can cause a hazardous condition and result in a fire or explosion and serious injury.



- If there is any static sparking or you feel an electric shock while using this equipment, **stop spraying immediately**. Do not use the equipment until you identify and correct the problem.
- Provide fresh air ventilation to avoid the buildup of flammable fumes from solvents or the fluid being sprayed.
- Keep the spray area free of debris, including solvent, rags, and gasoline.
- Electrically disconnect all equipment in the spray area.
- Extinguish all open flames or pilot lights in the spray area.
- Do not smoke in the spray area.
- Do not turn on or off any light switch in the spray area while operating or if fumes are present.
- Do not operate a gasoline engine in the spray area.
- Ground the equipment and the object being sprayed. Refer to your pump instruction manual.



## TOXIC FLUID HAZARD

Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, or swallowed.

- Know the specific hazards of the fluid you are using.
- Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state and national guidelines.
- Always wear protective eyewear, gloves, clothing and respirator as recommended by the fluid and solvent manufacturer.

# Installation/Operation

## Pressure Relief Procedure

### WARNING



#### INJECTION HAZARD

The system pressure must be manually relieved to prevent the system from starting or spraying accidentally. Fluid under high pressure can be injected through the skin and cause serious injury. To reduce the risk of an injury from injection, splashing fluid, or moving parts, follow the **Pressure Relief Procedure** whenever you:

- are instructed to relieve the pressure,
- stop spraying,
- check or service any of the system equipment,
- or install or clean the spray tips.

1. Lock the gun trigger safety.
2. Shut off the power supply to the pump. Close any bleed-type master air valves.
3. Unlock the gun trigger safety.
4. Hold a metal part of the gun firmly to the side of a grounded metal pail, and trigger the gun to relieve pressure.
5. Lock the gun trigger safety.
6. Open the drain valve (required in your system), having a container ready to catch the drainage.
7. Leave the drain valve open until you are ready to spray again.

*If you suspect that the spray tip or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, very slowly loosen the tip guard retaining nut or hose end coupling and relieve pressure gradually, then loosen completely. Now clear the tip or hose.*

## System Requirements

### WARNING

Keep the wallet-sized warning card provided with this gun with the operator at all times. The card contains important treatment information should an injection injury occur. Additional cards are available at no charge from Graco Inc.

### WARNING

Be sure your system has a bleed-type master air valve (pneumatic pumps only) and a pressure drain valve. These accessories help reduce the risk of serious bodily injury, including fluid injection, splashing in the eyes or on the skin, or injury from moving parts, if you are adjusting or repairing the pump or gun.

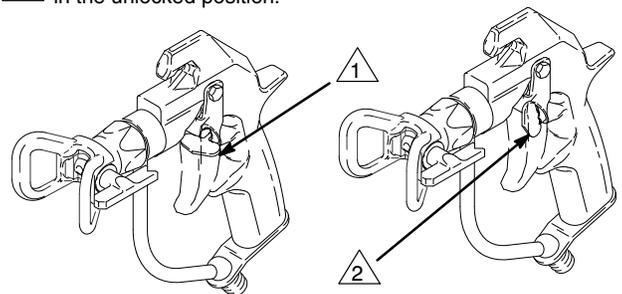
1. The bleed-type master air valve (air-powered pumps only) relieves air trapped between this valve and the pump after the air regulator is shut off. Trapped air can cause the pump to cycle unexpectedly.
2. The pressure drain valve assists in relieving fluid pressure in the displacement pump, hose and gun: triggering the gun to relieve pressure may not be sufficient.
3. Strain the fluid you are spraying if it contains particles which could clog the spray tip.

## How to Use the Gun Trigger Safety

1. To lock the gun trigger safety, turn the latch to a right angle with the gun body. See Fig. 1.
2. To unlock the gun trigger safety, push the latch out and turn it parallel with the gun body.

 1 The trigger safety is shown in the locked position.

 2 The trigger safety is shown in the unlocked position.



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Fig. 1

# Installation/Operation

## How to Use the Gun

1. Connect a grounded fluid hose to the gun inlet. See Fig. 2.
2. With no tip installed, start the pump. Flush the pump according to the instructions supplied with it. Prime the system with the fluid.

### **⚠ WARNING**

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 5.

3. **Relieve the pressure.** Be sure the gun trigger safety is locked. See Fig. 1.
  4. Models 235–460, 235–461, and 235–462: screw the tip guard (1) and install the tip (A) and the gasket (2d) in the nut of the tip guard. Screw the assembly firmly onto the gun. Tighten the assembly with a wrench. See Fig. 2.
- NOTE:** If the gasket (2d) is not installed, the gun will leak.
5. Models 235–463, 235–464, 238–591, 236–531 and 238–966: install the SwitchTip (16) and the tip guard (17). See manual 308–644 or 307–991, supplied.

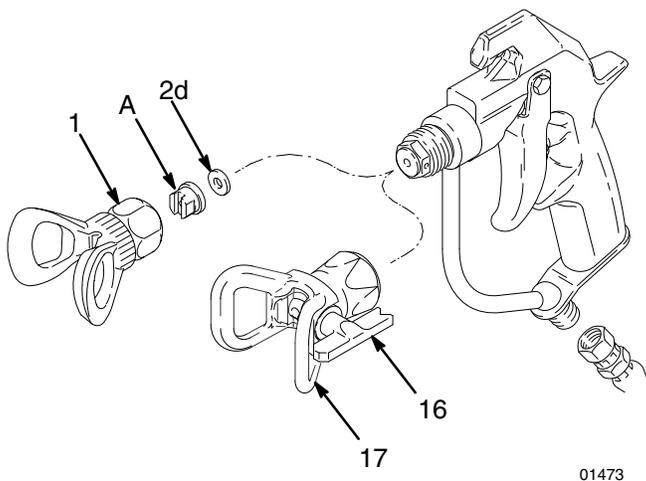


Fig. 2

6. Start the pump. Adjust the fluid pressure until the spray is completely atomized. Use the lowest pressure necessary to get the desired results. Higher pressure may not improve the spray pattern and will cause premature tip wear and pump wear.

7. If adjusting the pressure does not give a good spray pattern, follow the **Pressure Relief Procedure** on page 5 and then try another tip size.
8. Use a full-open, full-close triggering action. Hold the gun about 14 in. (350 mm) from and at right angles to the work surface. Don't swing the gun in an arc. Practice to find the best length and speed of stroke.

## How to Adjust the Spray Pattern

### **⚠ WARNING**

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 5.

1. **Relieve the pressure.** Loosen the retaining nut (B). Turn the tip guard so the groove in the tip is horizontal (C) for a horizontal pattern and vertical (A) for a vertical pattern. Tighten the retaining nut. See Fig. 3.
2. The orifice of the spray tip and the angle of the spray pattern determines the coverage and the size of the pattern. When more coverage is needed, use a larger spray tip rather than increasing the fluid pressure.

### **⚠ CAUTION**

The openings in the tip guard reduce paint buildup on the tip guard while spraying. Any damage to the sharp edges of the openings causes paint to collect at that area. Never hang the gun by the tip guard.

#### KEY

- A Tip guard shown in position for vertical spray pattern
- B Retaining nut
- C Tip guard shown in position for horizontal spray pattern

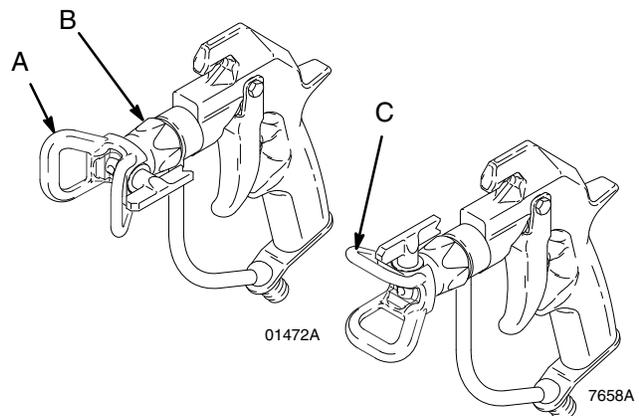


Fig. 3

# Installation/Operation

## How to Clean the Spray Tip and Clear a Spray Tip Obstruction

### **⚠ WARNING**

To reduce the risk of fluid injection or splashing in the eyes or on the skin, **do not** hold a hand, body or rag in front of the spray tip when cleaning or checking a clogged tip. Point the gun toward the ground or into a waste container when checking to see if the spray tip is cleared.

**Do not** try to “blow back” paint; this is **not** an air spray gun.

**Do not** wipe fluid buildup off the gun or spray tip until pressure is relieved.

## Cleaning During the Day

### **⚠ WARNING**

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 5.

1. **Relieve the pressure.**
2. Clean the front of the tip frequently during the day to help reduce buildup. Also clean the tip and tip guard at the end of each work day. Use a solvent-soaked brush to clean the spray tip.

## Clearing an Obstruction

If the spray tip clogs while spraying, immediately stop spraying, then:

Gun 235–460, 235–461, 235–462  
– with standard tip guard

1. Lock the gun trigger safety, open the pressure drain valve.
2. Remove the spray tip and blow out the obstruction by applying air to the front of the spray tip. Or, let the spray tip and gun nozzle soak to dissolve the obstruction. If it won't dissolve, jar it out by tapping the back of the spray tip against a flat surface.

### **⚠ CAUTION**

Never soak the entire gun in solvent. Prolonged exposure to solvent can ruin the packings.

Gun 235–463, 235–464, 238–591, 236–531 and 238–966 – with RAC guard or Heavy Duty RAC guard

1. Lock the gun trigger safety. Rotate the RAC guard handle 180°. See Fig. 4.
2. Unlock the gun trigger safety. Trigger the gun into a pail or onto the ground to remove the clog.
3. Lock the gun trigger safety. Rotate the tip handle to the spraying position.
4. If the tip is still clogged, lock the gun trigger safety, shut off the sprayer and disconnect the power source, and open the pressure drain valve to relieve pressure. Clean the spray tip as shown in manual 308–644, supplied with the RAC; or in manual 307–991, supplied with HD RAC.

#### KEY

- A Handle shown in spraying position. Turn handle 180° and trigger gun to clear clog.

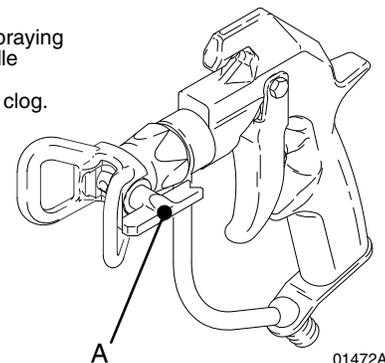


Fig. 4

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# Installation/Operation

## How to Check the Gun Diffuser Operation

### **⚠ WARNING**

The Fine-Finish Gun, Model 235-462, uses a pre-orifice in the seat to develop the type of spray pattern required for fine finishes. The pre-orifice **does not** diffuse the spray from the nozzle into an irregular pattern, as with the other guns covered in this manual. Therefore, to reduce the risk of an injection injury when the tip guard is not installed, such as during cleaning, take extra precautions to keep your hands and body away from the nozzle of the gun.

For all other guns, check the diffuser operation weekly. The gun diffuser/seat (2a) breaks up spray and reduces the risk of fluid injection when the tip is not installed. Perform the test below. If it fails, replace the entire Needle Kit, Part No. 235-474, as instructed on page 9. Diffuser/seats are not sold separately since the gun will leak if an old needle is used with a new diffuser/seat.

### **⚠ WARNING**

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 5.

1. **Relieve the pressure.**
2. Remove the tip guard and spray tip.
3. Start the sprayer and adjust it to the lowest pressure.
4. Aim the gun into a grounded metal pail while holding it firmly to the pail. Trigger the gun. If the fluid emitted **is not** diffused into an irregular stream, replace the entire needle kit immediately. See Fig. 5.

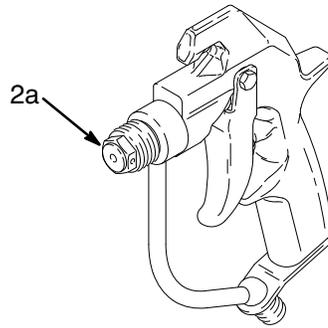


Fig. 5

## How to Flush the Gun

Always flush the pump and the gun before the fluid being sprayed can dry in it.

**NOTE:** If it is available, the flushing procedure provided in your pump or sprayer manual should be used instead of this procedure.

### **⚠ WARNING**



#### **FIRE AND EXPLOSION HAZARD**

Static sparking and splashing may cause fire, explosion and serious injury. To reduce static sparking and splashing, always remove the spray tip from the gun, and hold a metal part of the gun firmly to the side of a grounded metal pail when flushing.

### **⚠ WARNING**

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 5.

1. **Relieve the pressure.**
2. Remove the tip guard and spray tip. Soak and clean the parts.
3. Put the pump intake in a grounded pail of water or solvent.
4. Start the pump at its lowest pressure.
5. Trigger the gun into the original pail. When solvent appears, release the trigger.
6. Now trigger the gun into the solvent pail. Circulate the fluid until the system is thoroughly flushed.
7. **Relieve the pressure.**

# Service

## **⚠ CAUTION**

Do not attempt to install an old style needle in this gun. The front of the new needle is marked with a + below the Graco symbol.

### Notes:

- Use Needle Kit 235–475 for Model 235–462 and Repair Kit 235–474 for the other models.
- Use all the new parts for the best results. Parts included in the kit are shown with one asterisk, (2a\*).
- Keep parts very clean. Dried paint or other contaminants cause friction which causes parts to wear faster.

## Needle Replacement

## **⚠ WARNING**

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 5.

1. **Relieve the pressure.**
2. Remove the hose, tip guard, spray tip and gasket.
3. Remove the diffuser/seat (2a\*) and gasket (2b\*). Remove the screw (12), pivot pin (10), and trigger (8). See Fig. 6.
4. Insert a punch into the rear of the gun and tap it to push the needle (2c\*) out the front of the gun. See Fig. 7.
5. Clean the internal passages of the gun.
6. Grease the rings (A) of the new needle (2c\*). See Fig. 8.

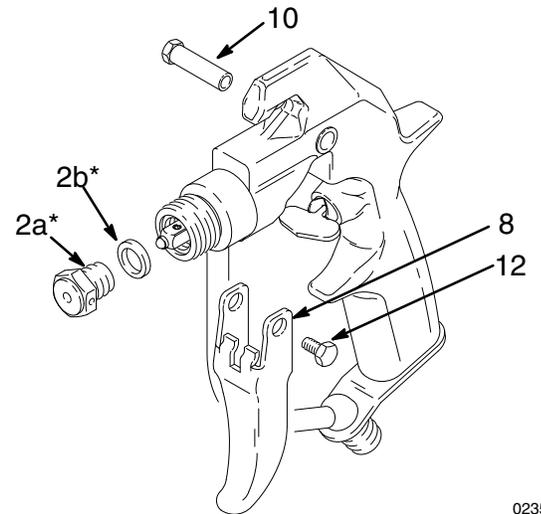


Fig. 6

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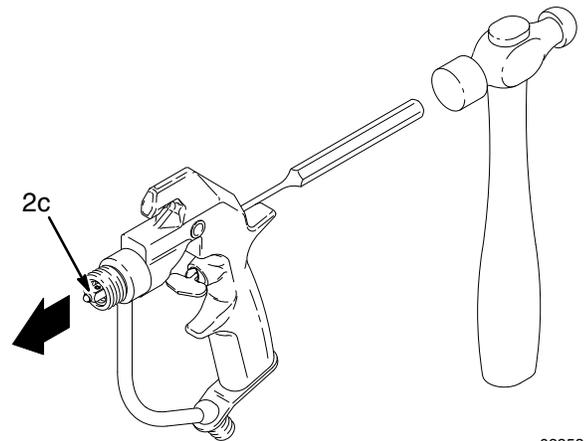


Fig. 7

02353

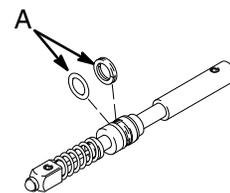


Fig. 8

# Service

- Slide the rear of the needle (2c\*) into the front of the gun. Slide the tool (B), provided with the repair kit, into the gun, around the needle. Lightly tap the tool with a hammer or lightly press the tool against a flat surface to seat the needle. See Fig. 9. Remove the tool.

## CAUTION

Tapping or pressing the tool too hard may jam the tool and damage the needle.

- Grease the end of the needle.
- Grease the diffuser/seat threads. Place the new gasket (2b\*) on the diffuser/seat (2a\*) and screw the assembly into the fluid housing (6). Torque to 20–25 ft-lb (27–34 N.m). See Fig. 10.
- Install the trigger (8), pivot pin (10) and screw (12). See Fig. 10.

**NOTE:** No needle or trigger adjustment is needed.

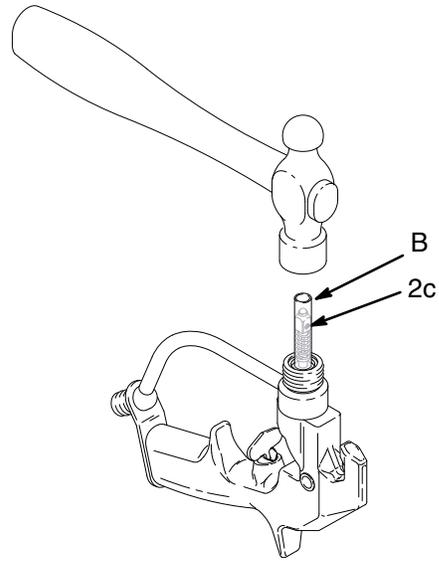


Fig. 9

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-  Lubricate, then torque to 20–25 ft-lb (27–34 N.m)

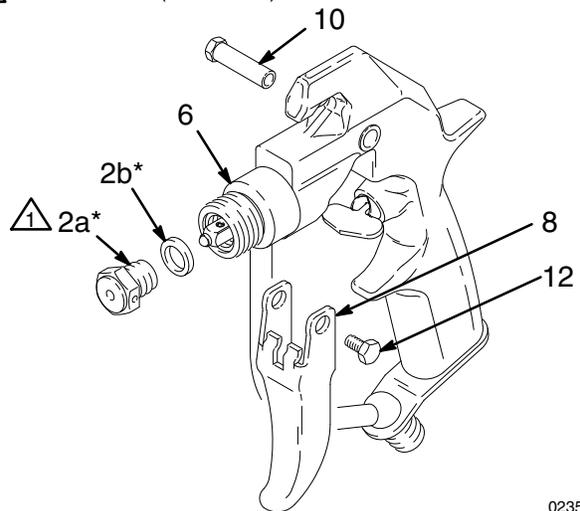
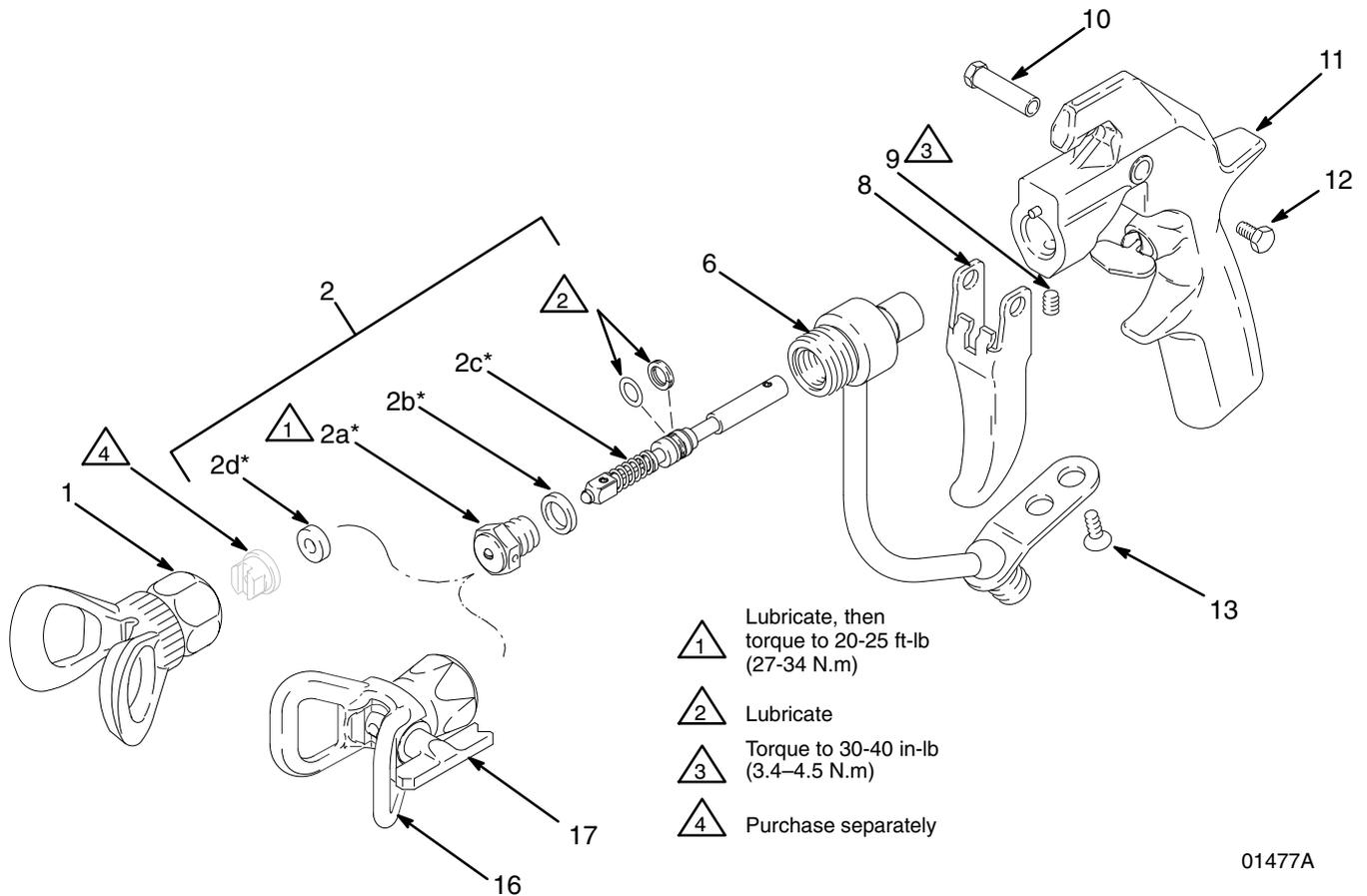


Fig. 10

02352

# Parts



-  Lubricate, then torque to 20-25 ft-lb (27-34 N.m)
-  Lubricate
-  Torque to 30-40 in-lb (3.4-4.5 N.m)
-  Purchase separately

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## Model 235-460, Series C; Model 237-695, Series B

Model 235-460 Includes the Standard (non-reversing) DripLess™ Tip Guard and 2 finger trigger.

Includes items 1 to 15.

Model 237-695 is 2 finger trigger, without Tip Guard and spray tip.

Includes items 2 to 15.

Ref No.	Part No.	Description	Qty.
1	220-251	STANDARD TIP GUARD	1
2	235-474	NEEDLE KIT <i>Includes items 2a to 2d</i>	1
2a*	◇	DIFFUSER/SEAT	1
2b*	◇	GASKET, copper	1
2c*	◇	NEEDLE	1
2d*	166-969	TIP GASKET	1
6	235-482	FLUID HOUSING, two finger	1
8	187-985	TRIGGER, two finger	1
9	102-207	SETSCREW, 1/4-20	1
10	187-965	PIVOT PIN	1
11	235-471	GUN HANDLE	1
12	203-953	SCREW, hex washer hd, 10-24	1
13	107-091	SCREW, 1/4-20	2
14▲	187-987	WARNING TAG <i>not shown</i>	1
15▲	222-385	WARNING CARD <i>not shown</i>	1

## Model 235-461, Series B

Includes the Standard (non-reversing) DripLess™ Tip Guard and 4 finger trigger.

Includes items 1 to 15.

Ref No.	Part No.	Description	Qty.
1	220-251	STANDARD TIP GUARD	1
2	235-474	NEEDLE KIT <i>Includes items 2a to 2d</i>	1
2a*	◇	DIFFUSER/SEAT	1
2b*	◇	GASKET, copper	1
2c*	◇	NEEDLE	1
2d*	166-969	TIP GASKET	1
6	235-476	FLUID HOUSING, four finger	1
8	188-127	TRIGGER, four finger	1
9	102-207	SETSCREW, 1/4-20	1
10	187-965	PIVOT PIN	1
11	235-471	GUN HANDLE	1
12	203-953	SCREW, hex washer hd, 10-24	1
13	107-091	SCREW, 1/4-20	2
14▲	187-987	WARNING TAG <i>not shown</i>	1
15▲	222-385	WARNING CARD <i>not shown</i>	1

# Parts

## Model 235–462, Series C

Includes the Fine-Finish (non-reversing) DripLess™ Tip Guard and 2 finger trigger.  
Includes items 1 to 15.

Ref	No.	Part No.	Description	Qty.
	1	220–247	FINE FINISH TIP GUARD	1
	2	235–475	NEEDLE KIT <i>Includes items 2a to 2d</i>	1
	2a†	◇	PRE-ORIFICE SEAT	1
	2b†	◇	GASKET, copper	1
	2c†	◇	NEEDLE	1
	2d†	162–863	TIP GASKET	1
	6	235–482	FLUID HOUSING, two finger	1
	8	187–985	TRIGGER, two finger	1
	9	102–207	SETSCREW, 1/4–20	1
	10	187–965	PIVOT PIN	1
	11	235–471	GUN HANDLE	1
	12	203–953	SCREW, hex washer hd, 10–24	1
	13	107–091	SCREW, 1/4–20	2
	14▲	187–987	WARNING TAG <i>not shown</i>	1
	15▲	222–385	WARNING CARD <i>not shown</i>	1

## Model 235–463, Series D

Includes RAC® guard and 2 finger trigger.  
Includes items 2 to 18.

Ref	No.	Part No.	Description	Qty.
	2	235–474	NEEDLE KIT <i>Includes items 2a to 2c</i>	1
	2a*	◇	DIFFUSER/SEAT	1
	2b*	◇	GASKET, copper	1
	2c*	◇	NEEDLE	1
	6	235–482	FLUID HOUSING, two finger	1
	8	187–985	TRIGGER, two finger	1
	9	102–207	SETSCREW, 1/4–20	1
	10	187–965	PIVOT PIN	1
	11	235–471	GUN HANDLE	1
	12	203–953	SCREW, hex washer hd, 10–24	1
	13	107–091	SCREW, 1/4–20	2
	14▲	187–987	WARNING TAG <i>not shown</i>	1
	15▲	222–385	WARNING CARD <i>not shown</i>	1
	16	237–859	RAC DripLess GUARD	1
	17	221–517	SwitchTip, Size 517	1
	18▲	187–346	WARNING SHEET <i>not shown</i>	1

### The following information applies to all parts lists:

\* *These parts are also included in Repair Kit 235–474, which may be purchased separately. Kit also includes installation tool.*

† *These parts are also included in Repair Kit 235–475, which may be purchased separately. Kit also includes installation tool.*

◇ *Part not sold separately*

▲ *Replacement Danger and Warning labels, tags and cards are available at no cost.*

## Model 235–464, Series C; Model 236–531, Series C and Model 238–966, Series A

Models 235–464 and 236–531 includes Heavy Duty RAC® tip, 2 finger fluid housing and 2 finger trigger. Model 238–966 includes Heavy Duty RAC® tip, customer specified tip, 4 finger fluid housing and 2 finger trigger.

Includes items 2 to 17.

Ref	No.	Part No.	Description	Qty.
	2	235–474	NEEDLE KIT <i>Includes items 2a to 2c</i>	1
	2a*	◇	DIFFUSER/SEAT	1
	2b*	◇	GASKET, copper	1
	2c*	◇	NEEDLE	1
	2d*	166–969	TIP GASKET	1
	6	235–482	FLUID HOUSING Two finger, Models 235–464 and 236–531	1
		235–476	Four finger, Model 238–966	1
	8	187–985	TRIGGER, two finger	1
	9	102–207	SETSCREW, 1/4–20	1
	10	187–965	PIVOT PIN	1
	11	235–471	GUN HANDLE	1
	12	203–953	SCREW, hex washer hd, 10–24	1
	13	107–091	SCREW, 1/4–20	2
	14▲	187–987	WARNING TAG <i>not shown</i>	1
	15▲	222–385	WARNING CARD <i>not shown</i>	1
	16	222–674	HEAVY DUTY RAC tip assembly	1
	17		HEAVY DUTY SwitchTip	1
		GHD–617	Size 617, Model 235–464	1
		GHD–415	Size 415, Model 236–531	1
		GHD–XXX	Customer choice, Model 238–966	1

## Model 238–591, Series A

Includes Heavy Duty RAC®, tip and 4 finger trigger.  
Includes items 2 to 17.

Ref	No.	Part No.	Description	Qty.
	2	235–474	NEEDLE KIT <i>Includes items 2a to 2c</i>	1
	2a*	◇	DIFFUSER/SEAT	1
	2b*	◇	GASKET, copper	1
	2c*	◇	NEEDLE	1
	2d*	166–969	TIP GASKET	1
	6	235–483	FLUID HOUSING, four finger	1
	8	188–127	TRIGGER, four finger	1
	9	102–207	SETSCREW, 1/4–20	1
	10	187–965	PIVOT PIN	1
	11	235–471	GUN HANDLE	1
	12	203–953	SCREW, hex washer hd, 10–24	1
	13	107–091	SCREW, 1/4–20	2
	14▲	187–987	WARNING TAG <i>not shown</i>	1
	15▲	222–385	WARNING CARD <i>not shown</i>	1
	16	237–162	HEAVY DUTY RAC tip assembly	1
	17	GHD–525	HEAVY DUTY SwitchTip, Size 525	1

# Accessories

## FILTERS

*3000 psi (210 bar) Maximum Working Pressure.*

Adequate filtering is important for a good surface finish and to minimize tip clogging. These filters provide secondary filtering. Various screen meshes are available.

### Mounts in hose

**213-068** Includes filter body, spring and one 100 mesh screen.

**213-069** Includes filter spring and one 60 mesh screen.  
Use with above filter body.

**210-742** Includes filter spring and one 100 mesh screen.  
Use with above filter body.

**210-729** Includes assembly 213-068 plus a 3 ft (0.9 m) whip hose for more flexible gun movement.

### Mounts between hose and gun

**210-500** Includes swivel, adapter and one 100 mesh screen

### Replacement screens for above filters

**210-731** Three 60 mesh (250 micron) screens  
**210-732** Three 100 mesh (149 micron) screens  
**210-733** Three 200 mesh (74 micron) screens

## SWIVELS and WHIP HOSES

Swivels and whip hoses provide more flexible gun movement for easier handling and less fatigue. Working pressures are listed in the descriptions.

**207-946** Swivel, 1/2 npsm x 3/8 npt(f)  
*5000 psi (350 bar) Max. Working Pressure*

**204-940** Swivel, 1/4 npt x 1/4 npsm  
*3000 psi (210 bar) Max. Working Pressure*

**214-701** Whip hose, nylon, coupled 1/4 npsm(f) x 3/8 npt(m), spring guards both ends.  
*3000 psi (210 bar) Max. Working Pressure*

## TOOLS

### NYLON BRUSHES

Use to thoroughly clean the gun's fluid passages.

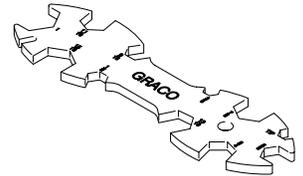
**101-891** 0.375" (9 mm) dia.

**101-892** 0.625" (16 mm) dia.



### WRENCH 171-147

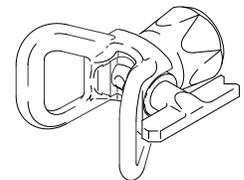
Fits all hexes on the gun.



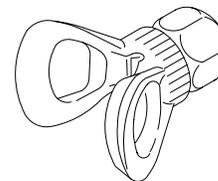
## TIP GUARDS

These tip guards fit all Graco airless spray guns. Choose the one that's right for your application. One of these tip guards is included with every Graco airless gun.

**237-859** Performance Series Reverse-A-Clean DripLess™ Guard.  
Order SwitchTip separately.  
See your distributor for available sizes.



**220-251** Standard DripLess™ Tip Guard.  
Order flat tip separately.  
See your distributor for available sizes.



**222-674** Heavy Duty RAC™ DripLess™ Tip Guard.  
Order SwitchTip separately.  
See your distributor for available sizes.

# Technical Data

Category	Data
Maximum fluid working pressure	5000 psi (345 bar)
Fluid orifice size	<i>Model 235–462:</i> 0.037 in. (0.94 mm) <i>All other models:</i> 0.090 in. (2.3 mm)
Wetted parts	Stainless steel, Polyethylene, Polyurethane, Nylon, PTFE
Weight	18 oz (510 g)
Inlet	1/4 npsm(m)
Maximum material temperature	120°F (50°C)
* Sound pressure level	78 dBa
* Sound power level	87 dBa

\* Measured while spraying waterbase paint – gravity 1.36 through a 517 tip at 3000 psi (207 bar) per ISO 3744.

TPTFE®

## Manual Change Summary

Updated manual per ECO F5413.



# Graco Warranty

Graco warrants all equipment listed in this manual which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor 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.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

**GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO.** These items sold, but not manufactured by Graco (such as electric motors, gas engines, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

## LIMITATION OF LIABILITY

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

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## ADDITIONAL WARRANTY COVERAGE

Graco does provide extended warranty and wear warranty for products described in the "Graco Contractor Equipment Warranty Program."

# Graco Phone Number

**TO PLACE AN ORDER**, contact your Graco distributor, or call this number to identify the distributor closest to you:  
**1-800-367-4023**

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Graco reserves the right to make changes at any time without notice.*

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