ProShot™ Cordless Paint Sprayer
U.S. Patent No. D625,775 S; U.S. Patent No. 6,619,569; U.S. Patent No. D630,708 S; Community Registration #001228255; India Patent No. 230058; Taiwan Patent No. D142952 China Patent No. ZL201030238948.3; and other patents pending

- For portable spray applications of water-based and oil-based (mineral spirit-type) architectural paints and coatings only -
- Not for use in explosive atmospheres -

IMPORTANT SAFETY INSTRUCTIONS
Read all warnings and instructions in this manual. Save these instructions.

WARNING
Use only water-based or oil-based (mineral spirit-type) materials with flash point greater than 100°F (38°C). Do not use materials which state “FLAMMABLE” on the packaging. For more information about your material, request MSDS from distributor or retailer.

Use oil-based material outdoors or in a well-ventilated indoor area with a flow of fresh air.

Spraying certain materials may cause static build-up in the sprayer that can result in static shock to the user. If this occurs, first ensure the material has a flash point greater than 100°F (38°C) and does not state that it is FLAMMABLE anywhere on the package. If still feeling a static shock, the material likely contains a non-mineral spirits fluid such as, but not limited to, xylene, toluene, or naphtha, which can build up static. Switch to an alternative material.
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Important User Information

Read this before using your sprayer. See the Operation Manual provided with your sprayer for complete instructions on proper use and safety warnings.

DO NOT RETURN THIS SPRAYER TO THE STORE!

Congratulations! You have purchased a high-quality paint sprayer made by Graco Inc. This sprayer is designed to provide superior spray performance with water-based and oil-based (mineral spirit-type) architectural paints and coatings. This user information sheet is intended to help you understand the types of materials that can and cannot be used with your sprayer.

Before using this equipment, be sure to read and follow the information on your container label and ask for a Material Safety Data Sheet (MSDS). The container label and MSDS will explain the contents of the material and the specific precautions related to it.

Paints, coatings and clean-up materials generally fit into one of the following 3 basic categories:

**WATER-BASED:** The container label should indicate that the material can be cleaned up with soap and water. Your sprayer is compatible with this type of material. Your sprayer is **NOT** compatible with harsh cleaners such as chlorine bleach.

**OIL-BASED:** The container label should indicate that the material is combustible and can be cleaned up with mineral spirits or paint thinner. The MSDS must indicate that the flash point of the material is above 100° F. Your sprayer is compatible with this type of material. Use oil-based material outdoors or in a well-ventilated indoor area with a flow of fresh air. See the safety warnings in your Operation Manual.

**FLAMMABLE:** This type of material contains flammable solvents such as xylene, toluene, naphtha, MEK, lacquer thinner, acetone, denatured alcohol, and turpentine. The container label should indicate that this material is FLAMMABLE. This type of material is **NOT** compatible with your sprayer and **CANNOT** be used.
# Warnings

The following warnings are for the setup, use, 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, 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.

## Warning

**FIRE AND EXPLOSION HAZARD**

Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion:

- Sprayer generates sparks. Do not spray or flush with flammable liquids.
- Use only water-based or oil-based (mineral spirit-type) materials with a flash point greater than 100° F (38° C).
- Keep spray area well-ventilated. Keep a good supply of fresh air moving through the area.
- Use oil-based material outdoors or in a well-ventilated indoor area with a flow of fresh air.
- Do not spray or flush with combustible materials near an open flame or sources of ignition.
- Paint or solvent flowing through the equipment is able to result in static electricity. Static electricity creates a risk of fire or explosion in the presence of paint or solvent fumes. Keep sprayer at least 10 cm away from objects while spraying or flushing.
- Do not smoke in the spray area.
- Do not operate light switches, engines, or similar spark producing products in the spray area.
- Keep area clean and free of paint or solvent containers, rags, and other flammable materials.
- Know the contents of the paints and solvents being sprayed. Read all Material Safety Data Sheets (MSDS) and container labels provided with the paints and solvents. Follow the paint and solvents manufacturer’s safety instructions.
- Fire extinguisher equipment shall be present and working.

## Skin Injection Hazard

High-pressure spray is able to inject toxins into the body and cause serious bodily injury. In the event that injection occurs, get immediate surgical treatment.

- Do not aim the sprayer at, or spray any person or animal.
- Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.
- Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.
- Always use the nozzle tip guard. Do not spray without nozzle tip guard in place.
- Use caution when cleaning and changing nozzle tips. In the case where the nozzle tip clogs while spraying, follow the Pressure Relief Procedure for turning off the unit and relieving the pressure before removing the nozzle tip to clean.
- Do not leave the unit energized or under pressure while unattended. When the unit is not in use, turn off the unit and follow the Pressure Relief Procedure for turning off the unit.
- Check parts for signs of damage. Replace any damaged parts.
- This system is capable of producing 2000 psi. Use replacement parts or accessories that are rated a minimum of 2000 psi.
- Do not carry the tool with a finger on the trigger.
- Verify that all connections are secure before operating the unit.
- Know how to stop the unit and bleed pressure quickly. Be thoroughly familiar with the controls.

## Equipment Misuse Hazard

Misuse can cause death or serious injury.

- Always wear appropriate gloves, eye protection, and a respirator or mask when painting.
- Do not operate or spray near children. Keep children away from equipment at all times.
- Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.
- Stay alert and watch what you are doing.
- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Use only in dry locations. Do not expose to water or rain.
- Use in well-lit areas.
### BATTERY HAZARD
The battery may leak, explode, cause burns, or cause an explosion if mishandled. Contents of an open battery can cause severe irritation and/or chemical burns. If on skin, wash with soap and water. If in eyes, flush with water for at least 15 minutes and seek immediate medical attention.
- Do not short-circuit the terminals of the battery.
- Keep the battery away from fire.
- Charge only with Graco approved charger as listed in this manual.
- Do not expose to heat above 170°F (80°C).
- Do not expose battery to water or rain.
- Do not disassemble, crush, or penetrate the battery.
- Follow local ordinances and/or regulations for disposal.

### CHARGER ELECTRIC SHOCK, FIRE AND EXPLOSION HAZARD
Improper setup or usage can cause electric shock, fire, and explosion.
- Charge only Graco 18V Lithium Ion batteries; other batteries may burst.
- Use only in dry locations. Do not expose to water or rain.
- If the supply cord is damaged, it must obtained from the manufacturer to avoid a hazard.
- Ensure that the outside surface of the battery is clean and dry before plugging into the charger.
- Do not attempt to charge non-rechargeable batteries.
- Place charger on flat non-flammable surfaces and keep away from flammable materials or fumes when recharging battery.

### PRESSURIZED ALUMINUM PARTS HAZARD
Use of fluids that are incompatible with aluminum in pressurized equipment can cause serious chemical reaction and equipment rupture. Failure to follow this warning can result in death, serious injury, or property damage.
- Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents.
- Many other fluids may contain chemicals that can react with aluminum. Contact your material supplier for compatibility.

### MOVING PARTS HAZARD
Moving parts can pinch or amputate fingers and other body parts.
- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure in this manual. Disconnect power.

### TOXIC FLUID OR FUMES HAZARD
Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.
- 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.

### PERSONAL PROTECTIVE EQUIPMENT
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, hearing loss, inhalation of toxic fumes, and burns. This equipment includes but is not limited to:
- Protective eyewear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.
Component Identification

*NOTE: Filter assembly is reverse-threaded. Turn left (or counter-clockwise) to tighten, turn right (or clockwise) to loosen.
Common Procedures

Pressure Relief Procedure

1. Engage trigger lock.

2. Put prime/relief valve UP to release pressure.

Spray Tip Position

Always perform Pressure Relief Procedure before adjusting spray tip position.

Tip Forward (SPRAY position)  Tip Reversed (UNCLOG position)

Prime/Relief Valve Position

UP position (Releases pump pressure)  DOWN position (Ready to spray)

Do not operate or spray near children. Do not aim the sprayer at, or spray any person or animal. Keep hands and other body parts away from the front of the sprayer. For example, do not try to stop the paint flow with any part of the body.

This sprayer builds up an internal pressure of 2,000 psi during use. Follow this Pressure Relief Procedure whenever you stop spraying and before cleaning, checking, servicing, or transporting equipment to prevent serious injury.

Always engage the trigger lock when you stop spraying to prevent the sprayer from being triggered accidentally by hand, or if dropped or bumped.

Always perform Pressure Relief Procedure before adjusting spray tip position.
Charging the Battery

Batteries may leak, explode, cause burns or cause an explosion if mishandled.

Batteries are initially 50% charged to provide optimum battery life and require charging before first use. It takes approximately 45 minutes to charge a dead battery to 80%, at which point it can be used. It will take approximately 75 minutes to fully charge a dead battery.

1. Slide battery into charger as shown (light will turn on within 5 seconds).

NOTE: Batteries can remain in the charger, which automatically switches to maintenance mode. It is not recommended to store the battery in the charger for longer than one week.

Charger Status Indicator Lights

<table>
<thead>
<tr>
<th>Label</th>
<th>Appearance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Solid green light" /></td>
<td>Solid green light</td>
<td>Indicates a full charge. Use the battery or leave it in the charger. The automatic Maintenance Mode holds the batteries at full charge.</td>
</tr>
<tr>
<td><img src="image" alt="Flashing green light" /></td>
<td>Flashing green light</td>
<td>Battery is charging, indicates 80% charge. Battery can be used.</td>
</tr>
<tr>
<td><img src="image" alt="Flashing red light" /></td>
<td>Flashing red light</td>
<td>Battery is charging, indicates less than 80% charge. Do NOT use battery.</td>
</tr>
<tr>
<td><img src="image" alt="Solid red light" /></td>
<td>Solid red light</td>
<td>Battery is too hot or too cold to charge and must cool down or warm up before charging. Leave battery in charger.</td>
</tr>
</tbody>
</table>

Sprayer Status Indicator

<table>
<thead>
<tr>
<th>Light</th>
<th>Appearance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="No light" /></td>
<td>No light</td>
<td>Normal operation.</td>
</tr>
<tr>
<td><img src="image" alt="Solid red" /></td>
<td>Solid red</td>
<td>Battery is low on power and needs to be charged, or battery is too cold and must warm up before spraying.</td>
</tr>
<tr>
<td><img src="image" alt="Flashing red" /></td>
<td>Flashing red</td>
<td>Battery temperature is too high, or tip is clogged. See Troubleshooting, page 20.</td>
</tr>
</tbody>
</table>

NOTE: The indicator light is only visible when sprayer trigger is engaged. You must squeeze and hold the trigger to see the Sprayer Status Indicator.

To reduce the risk of electric shock, only use Graco batteries with the Graco charger. Do not insert any foreign objects into the adapter cup.

NOTE: The amount sprayed with each battery varies depending on material, tip size, battery charge, and battery temperature. 1 battery fully charged will spray approximately 1 gallon when using the 515 tip with latex paint. You will get less when using a smaller tip or thinner material.

NOTE: The charger supplied with model 258859 comes with a power cord adapter connected to the power cord. To switch from the AS3112 connector to the 2-pin Euro CEE7 connector, pull off the adapter.

NOTICE

Do not place a wet battery in the charger. Damage to equipment will occur.
Setup

Use only water-based or oil-based (mineral spirit-type) materials with flash point greater than 100° F (38° C). Do not use materials which state “FLAMMABLE” on the packaging. For more information about your material, request MSDS from distributor or retailer.

Spraying certain materials may cause static build-up in the sprayer that can result in static shock to the user. If this occurs, first ensure the material has a flash point greater than 100° F (38° C) and does not state that it is FLAMMABLE anywhere on the package. If still feeling a static shock, the material likely contains a non-mineral spirits fluid such as, but not limited to, xylene, toluene, or naphtha, which can build up static. Switch to an alternative material.

Use oil-based material outdoors or in a well-ventilated indoor area with a flow of fresh air.

Keep spray area well-ventilated. Keep a good supply of fresh air moving through the area.

NOTICE
Your sprayer is NOT compatible with harsh cleaners such as chlorine bleach. Using these cleaners will cause damage to the sprayer.

Suction Tube Selection

This sprayer comes with two different suction tubes.

Standard Suction Tube (sprays ceilings and walls):
When spraying walls, the inlet of the suction tube should be aimed at the front of the material cup.

Specialized Suction Tube (sprays floors):
When spraying floors, the inlet of the suction tube should be aimed at the front of the material cup (towards Spray Tip/Guard Assembly).

NOTE: If the sprayer is angled or tilted too far, the suction tube will lose contact with the material and the sprayer will stop spraying.

When spraying ceilings, the inlet of the suction tube should be aimed at the back of the material cup (towards the trigger).
Spraying Stains or Clear Coats
(Fine-Finish Optimizer)

The Fine-Finish Optimizer should be installed and used when spraying thin material such as stain or clear coats. The Fine-Finish Optimizer restricts the material flow resulting in a finer quality finish.

Installation
1. Remove material cup and suction tube.
2. Push Fine-Finish Optimizer into pump inlet until completely engaged and re-install suction tube.

Cleanup/Storage
Be sure to remove and clean the Fine-Finish Optimizer immediately after use. Store the Fine-Finish Optimizer on the Storage/cleaning Tool supplied to keep the hole clear of dried material.

Sprayer Setup
This sprayer arrives from the factory with a small amount of test material in the system. It is important that you flush this material from the sprayer before using it for the first time:
1. Fill material cup with water and thread onto sprayer.
2. Put prime/relief valve to UP position, then hold trigger in for 10 seconds.
3. Put prime/relief valve DOWN to spray position.
4. Reverse spray tip to UNCLOG position and trigger sprayer into a waste area.
5. Engage trigger lock and put prime/relief valve UP to release pressure.
6. Unscrew and remove material cup.
7. Disengage trigger lock, put prime/relief valve DOWN, hold sprayer slightly above material cup, and pull trigger to discharge fluid from pump.
8. Discard material in cup.
Materials

| Use only water-based or oil-based (mineral spirit-type) materials with flash point greater than 100°F (38°C). Do not use materials which state “FLAMMABLE” on the packaging. For more information about your material, request MSDS from distributor or retailer. |
| Spraying certain materials may cause static build-up in the sprayer that can result in static shock to the user. If this occurs, first ensure the material has a flash point greater than 100°F (38°C) and does not state that it is FLAMMABLE anywhere on the package. If still feeling a static shock, the material likely contains a non-mineral spirits fluid such as, but not limited to, xylene, toluene, or naphtha, which can build up static. Switch to an alternative material. |
| Use oil-based material outdoors or in a well-ventilated indoor area with a flow of fresh air. |

**Keep spray area well-ventilated.** Keep a good supply of fresh air moving through the area.

- When spraying water-based materials, flush the sprayer thoroughly with water.
- When spraying non-water-based materials, flush the sprayer thoroughly with compatible, oil-based flushing fluid.

**Starting a New Job (or Refilling the Cup)**

1. Engage trigger lock and put prime/relief valve UP to release pressure.

2. Use the Fine-Finish Optimizer cleaning tool to lightly push on inlet valve to make sure it moves up and down freely.

3. Install material cup liner, fill with material, and thread onto sprayer.

4. To prime pump, disengage trigger lock and trigger sprayer for 10 seconds. Then release trigger and put prime/relief valve DOWN to spray position.

5. Reverse spray tip to UNCLOG position and spray into waste area for five seconds. Then rotate tip back to SPRAY position. **NOTE:** Failure to perform this operation could result in poor spray pattern.

**NOTE:** If sprayer fails to prime, follow Alternative Priming Method (page 18) and/or Inlet Valve Cleaning (page 19).
Install Tip/Guard Assembly (if not installed)

Reversible Tip Selection Chart

<table>
<thead>
<tr>
<th>MATERIALS</th>
<th>*Thin</th>
<th>Medium</th>
<th>Heavy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thin stains, semi-transparent stains</td>
<td>211, 411</td>
<td>213, 413</td>
<td>315, 515, 517</td>
</tr>
</tbody>
</table>

*Install Fine-Finish Optimizer, see page 9.

Getting Started with Basic Techniques

Use a piece of scrap cardboard to practice these basic spraying techniques before you begin spraying the surface.

- Hold sprayer 10 in. (25 cm) from surface and aim straight at surface. Tilting sprayer to direct spray angle causes an uneven finish.

- Flex wrist to keep sprayer pointed straight. Fanning sprayer to direct spray at angle causes uneven finish.

NOTE: How fast you move the sprayer will affect spray application. If material is pulsating, you are moving too fast. If material drips, you are moving too slow. See Troubleshooting, page 20.

Triggering Sprayer

Pull trigger after starting stroke. Release trigger before end of stroke. Sprayer must be moving when trigger is pulled and released.

Aiming Sprayer

Aim tip of sprayer at bottom edge of previous stroke, overlapping each stroke by half.
Unclogging Spray Tip/Guard Assembly

1. To unclog tip obstruction, engage trigger lock and pull relief valve UP to release pressure.

2. Reverse spray tip to UNCLOG position.

3. Aim sprayer at waste area, disengage trigger lock, and put prime/relief valve DOWN to spray position. Pull trigger to clear clog.

4. Engage trigger lock. Put prime/relief valve UP to release pressure and rotate spray tip back to SPRAY position.

5. Disengage trigger lock, put prime/relief valve DOWN to spray position, and resume spraying.

6. If tip is still clogged, you may have to repeat steps 1 - 5 and rotate the tip from SPRAY to UNCLOG several times. Repeat step 1 to release pressure, remove and clean filter, or replace with new tip assembly.

7. If obstruction is cleared, engage trigger lock and rotate arrow-shaped handle back to SPRAY position.

NOTE: Filter assembly is reverse-threaded:
Turn left (or counter-clockwise) to install.
Turn right (or clockwise) to remove.

Do not operate or spray near children. Do not aim the sprayer at, or spray any person or animal. Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.
Shutdown and Cleaning

NOTICE
Failure to properly clean sprayer after each use will result in hardened materials, damage to the sprayer, and the warranty will no longer be valid.

Flushing Sprayer

Use only water-based or mineral spirit-type materials with flash point greater than 100° F (38° C). Do not use materials which state “FLAMMABLE” on the packaging. For more information about your material, request MSDS from distributor or retailer.

Spraying certain materials may cause static build-up in the sprayer that can result in static shock to the user. If this occurs, first ensure the material has a flash point greater than 100° F (38° C) and does not state that it is FLAMMABLE anywhere on the package. If still feeling a static shock, the material likely contains a non-mineral spirits fluid such as, but not limited to, xylene, toluene, or naphtha, which can build up static. Switch to an alternative material.

Use oil-based material outdoors or in a well-ventilated indoor area with a flow of fresh air.

Keep spray area well-ventilated. Keep a good supply of fresh air moving through the area.

NOTICE
Protect the internal parts of this sprayer from water. Do not submerge the sprayer in cleaning fluid. Openings in shroud allow cooling of mechanical parts and electronics inside. If water gets into these openings, the sprayer could malfunction or become permanently damaged.

1. Engage trigger lock and pull relief valve UP to release pressure.
2. Remove material cup and properly dispose cup liner or excess material.
3. Remove and clean sprayer intake tube and screen with water (or flushing fluid) and a brush every time you flush the sprayer. Reconnect intake tube.
4. Clean cup if not using a liner, and fill with water or appropriate flushing fluid.
5. Reconnect material cup and shake sprayer to move clean water around and clean all areas inside of cup.
6. Disconnect trigger lock and trigger sprayer for approximately 15 seconds. Engage trigger lock.

7. Discard contaminated fluid and refill with appropriate flushing fluid.

8. Disengage trigger lock, reverse tip to UNCLOG position, and pull trigger for 5 seconds to prime sprayer.

9. Put prime/relief valve DOWN to spray position. Trigger sprayer into waste area until no paint appears in water or flushing fluid.

10. Engage trigger lock and put prime/relief valve UP to release pressure.

11. Remove material cup and discard used fluid.

12. Use a soft brush to clean the black rubber inlet seal. If the vent holes become clogged, use the Fine Finish optimizer cleaning tool or a paper clip to clear the holes.

13. Remove Spray Tip/Guard Assembly and clean with water or flushing fluid. A soft brush can be used to loosen and remove dried material if needed.


15. If you used the Fine-Finish Optimizer, remove and clean optimizer with water (or flushing fluid) and a brush. Reconnect intake tube.

To avoid serious injury or damage to equipment, do not expose the sprayer electronics to flushing solvents. Keep sprayer at least 10 in. above the rim of the container when flushing.

Keep spray area well-ventilated. Keep a good supply of fresh air moving through the area.

NOTICE

The tip is permanently attached to the guard. Removing the tip from the guard will result in damage to the tip assembly.
Cleaning Sprayer Exterior

- Wipe paint off outside of sprayer using a soft cloth moistened with water or flushing fluid. Do NOT submerge the sprayer.

Tips

- Tips will require replacement depending on abrasiveness of paint.
- Do not spray with worn tip. See Troubleshooting, page 20.

Storage

1. Dilute 4 oz. bottle of Pump Armor Concentrate with an additional 4 oz. of water in material cup.

2. Thread cup into sprayer, put prime/relief valve to UP position and squeeze sprayer trigger for approximately 10 seconds.

3. Reverse spray tip to UNCLOG position, put prime/relief valve DOWN to spray position, and aim sprayer into waste area. Pull trigger for 1-2 seconds.

4. Properly dispose of used Pump Armor mixture from material cup and rinse cup with water.

5. Store sprayer indoors in a cool, dry place. Store in an upright position only.

NOTE: For prolonged battery life, lithium batteries should be stored at half charge in an environment below 90°F (32°C).
# Replacement Parts and Kits

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>262367</td>
<td>Sprayer, replacement (no tip, battery, suction tube, or material cup)</td>
</tr>
<tr>
<td>2</td>
<td>16D562</td>
<td>Liner, replacement (10 pack)</td>
</tr>
<tr>
<td>3</td>
<td>24F045</td>
<td>Fine Finish Optimizer (with Cleaning Tool) 2-Pack</td>
</tr>
<tr>
<td>4</td>
<td>243103</td>
<td>Pump Armor (32 oz.)</td>
</tr>
<tr>
<td>5</td>
<td>24F042</td>
<td>Storage Case</td>
</tr>
<tr>
<td>6</td>
<td>16D563</td>
<td>Repair Kit (includes inlet/outlet valve wrench)</td>
</tr>
<tr>
<td>7</td>
<td>PST211</td>
<td>ProShot Tip/Guard Assembly</td>
</tr>
<tr>
<td></td>
<td>PST213</td>
<td>211</td>
</tr>
<tr>
<td></td>
<td>PST315</td>
<td>213</td>
</tr>
<tr>
<td></td>
<td>PST411</td>
<td>315</td>
</tr>
<tr>
<td></td>
<td>PST413</td>
<td>411 (included with sprayer)</td>
</tr>
<tr>
<td></td>
<td>PST515</td>
<td>413</td>
</tr>
<tr>
<td></td>
<td>PST517</td>
<td>515 (factory-installed on sprayer)</td>
</tr>
<tr>
<td>8</td>
<td>24E376</td>
<td>Kit, 1-pack</td>
</tr>
<tr>
<td>9</td>
<td>24F039</td>
<td>Kit, 3-pack</td>
</tr>
<tr>
<td></td>
<td>24F044</td>
<td>Specialized Suction Tube with screens and o-rings (for spraying floors)</td>
</tr>
<tr>
<td></td>
<td>24F043</td>
<td>Standard Suction Tube with screens and o-rings (for walls and ceilings)</td>
</tr>
<tr>
<td>10</td>
<td>16D558</td>
<td>Lithium Ion Premium Power Battery</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>16E403</td>
<td>Sprayer Cup Seal</td>
</tr>
<tr>
<td>13</td>
<td>24D425</td>
<td>Cover with seal (included in 16 and 17)</td>
</tr>
<tr>
<td>13a</td>
<td>16C650</td>
<td>Material Cup Cover Seal (included in 16 and 17)</td>
</tr>
<tr>
<td>14</td>
<td>16D559</td>
<td>Lithium Ion Battery Charger (120 VAC)</td>
</tr>
<tr>
<td></td>
<td>16G615</td>
<td>Lithium Ion Battery Charger (240 VAC)</td>
</tr>
<tr>
<td>15</td>
<td>▲24E609</td>
<td>Warning Labels Kit (ENG/FRA/SPA)</td>
</tr>
<tr>
<td></td>
<td>▲24H616</td>
<td>Warning Labels Kit (SPA/POR/ITA)</td>
</tr>
<tr>
<td>16</td>
<td>16D560</td>
<td>Material Cup (32 oz) cover and seal</td>
</tr>
<tr>
<td>17</td>
<td>16D561</td>
<td>Material Cup (48 oz) cover and seal</td>
</tr>
<tr>
<td>18</td>
<td>24E377</td>
<td>Shoulder Strap</td>
</tr>
<tr>
<td></td>
<td>106553</td>
<td>Suction Tube o-ring (not shown)</td>
</tr>
<tr>
<td>19</td>
<td>262602</td>
<td>Inlet Valve Kit</td>
</tr>
<tr>
<td>20</td>
<td>262437</td>
<td>Needle Assembly Kit</td>
</tr>
<tr>
<td>21</td>
<td>262601</td>
<td>Prime Valve Handle</td>
</tr>
<tr>
<td>22</td>
<td>262677</td>
<td>Enclosure, replacement, kit (Includes enclosure with hook, screws, cup gasket, status indicator lens, air filter, Made-In-USA label, and access plug) product labels NOT included</td>
</tr>
<tr>
<td>23</td>
<td>16E119</td>
<td>Label, brand, ProShot</td>
</tr>
<tr>
<td>24</td>
<td>16E964</td>
<td>Label, brand, Hand Held</td>
</tr>
</tbody>
</table>

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.
Outlet Valve Fitting

NOTE: Before doing any repair to pump, perform Flushing Sprayer procedure, page 13.

Removal

1. Engage trigger lock and pull relief valve UP to release pressure.
2. Remove battery.
3. Remove pump outlet cap.
4. Use tool (supplied) to loosen and remove outlet valve fitting.

Installation

1. Screw outlet valve fitting into threads. Use tool (supplied) and tighten to 8 ft-lb.
2. Press new pump outlet cap into place.
Alternate Priming Method

1. Engage trigger lock and put prime/relief valve UP to release pressure.

2. Remove material cup and fill with flushing material.

3. With sprayer in prime mode, turn sprayer upside-down, remove strainer and slowly pour flushing material into the intake tube until full.

4. Hold sprayer above sink or waste area, disengage the trigger lock, and quickly trigger sprayer until material comes out of the drain tube.

   **NOTE:** Material can shoot out of the drain tube when performing this procedure. Be sure to wear appropriate safety equipment and point drain tube away from yourself when pulling the trigger.

5. Thread the material cup back onto sprayer.

6. Trigger the gun for 10 seconds then release the trigger and put the prime/relief valve DOWN to spray position.

7. Reverse spray tip to UNCLOG position and spray into waste area for five seconds to ensure sprayer has primed.

8. Sprayer is now ready to spray. Follow **Starting New Job** instructions on page 10.
Inlet Valve Cleaning

Removal

1. Engage trigger lock and pull relief valve UP to release pressure.

2. Remove material cup and suction tube.

3. Hold sprayer upside-down and use wrench or socket to loosen and remove inlet fitting, inlet valve, and spring.

   NOTE: Make sure the spring also comes out. Use needle-nose pliers to remove if needed. Inlet cavity should be completely empty (as shown below).

4. Clean as much excess material from pump cavity as possible. Make sure you also clean spring (a), o-ring (c), and top of inlet fitting (d).

Installation

NOTE: Before installing, make sure o-ring (c) is installed on inlet valve (b).

1. Place inlet valve (b) with spring (a) on top of inlet fitting (d). Push inlet fitting up into pump cavity.

2. Hold inlet in place and turn sprayer upside-down. Remove inlet fitting and visually check to see that inlet valve has seated correctly.

3. Replace inlet fitting and use wrench and socket to tighten to 10 ft-lb.

   NOTICE
   Do NOT over-tighten inlet fitting. Damage to the equipment will occur.

4. Use the Fine-Finish Optimizer cleaning tool to lightly push on inlet valve to make sure it moves up and down freely.
## Troubleshooting

Check everything in this Troubleshooting Table before you bring the sprayer to an authorized service center.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProShot makes no sound when trigger is pulled</td>
<td>Trigger is locked.</td>
<td>Disengage trigger lock. See page 6.</td>
</tr>
<tr>
<td></td>
<td>Status Indicator Light is solid RED when triggering, indicating that the battery charge is low or the battery is too cold.</td>
<td>Replace with charged battery and place old battery in charger or allow battery to warm up.</td>
</tr>
<tr>
<td></td>
<td>Status Indicator Light is flashing RED when triggering, indicating that the battery is too hot to operate.</td>
<td>Allow battery to cool.</td>
</tr>
<tr>
<td></td>
<td>Status Indicator Light does not light when sprayer is triggered.</td>
<td>Battery is not installed or is damaged.</td>
</tr>
<tr>
<td>ProShot makes sound but no material is sprayed when trigger is pulled</td>
<td>Sprayer is not primed.</td>
<td>Prime the pump. See <strong>Starting a new Job (or Refilling the Cup)</strong>, page 10. If sprayer fails to prime, follow the <strong>Inlet Valve Cleaning procedure</strong>, page 19 and/or <strong>Alternate Priming Method</strong>, page 18.</td>
</tr>
<tr>
<td></td>
<td>Prime/relief valve is in UP position.</td>
<td>Pull valve DOWN to spray position.</td>
</tr>
<tr>
<td></td>
<td>Suction Tube is missing or improperly installed.</td>
<td>Make sure Suction Tube is properly installed.</td>
</tr>
<tr>
<td></td>
<td>Inlet valve is stuck from material residue left in sprayer.</td>
<td>Use a pencil or thin rod to lightly push on inlet valve to make sure it moves up and down freely. See <strong>Inlet Valve Cleaning</strong>, page 19.</td>
</tr>
<tr>
<td></td>
<td>Tip is not in SPRAY position.</td>
<td>Turn tip to SPRAY position.</td>
</tr>
<tr>
<td></td>
<td>Tip is clogged.</td>
<td>See <strong>Unclogging Tip/Guard Assembly</strong>, page 12.</td>
</tr>
<tr>
<td></td>
<td>Suction Tube screen is clogged or vent holes in black rubber inlet seal are clogged.</td>
<td>See <strong>Shutdown and Cleaning</strong>, page 13.</td>
</tr>
<tr>
<td></td>
<td>Sprayer has been tilted too far and suction tube has lost contact with material.</td>
<td>Make sure cup is filled with material. Do not tilt the cup too far. Prime the pump. See <strong>Starting a new Job (or Refilling the Cup)</strong>, page 10.</td>
</tr>
<tr>
<td></td>
<td>No or low material in cup.</td>
<td>Refill cup with material.</td>
</tr>
<tr>
<td></td>
<td>Tip filter is clogged.</td>
<td>Remove and clean tip filter. See <strong>Unclogging Tip/Guard Assembly</strong>, page 12.</td>
</tr>
<tr>
<td></td>
<td>Fine Finish Optimizer is installed while using an incompatible material.</td>
<td>Make sure compatible material is being used. See <strong>Reversible Tip Selection Chart</strong>, page 11.</td>
</tr>
<tr>
<td></td>
<td>Suction Tube o-rings are damaged or missing.</td>
<td>Replace Suction Tube and o-rings.</td>
</tr>
<tr>
<td></td>
<td>Pump is clogged, frozen, or has debris inside.</td>
<td>See <strong>ProShot Repair</strong>, page 17.</td>
</tr>
<tr>
<td></td>
<td>Sprayer has reached maximum life.</td>
<td><strong>ProShot only</strong>: purchase repair kit. All other models should be replaced.</td>
</tr>
<tr>
<td></td>
<td>Material is leaking from hole in front of sprayer.</td>
<td>Replace sprayer.</td>
</tr>
</tbody>
</table>
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProShot sprays with poor results</td>
<td>Tip is partially clogged</td>
<td>See Unclogging Tip/Guard Assembly, page 12.</td>
</tr>
<tr>
<td></td>
<td>Tip is not in correct position</td>
<td>Rotate tip to SPRAY position.</td>
</tr>
<tr>
<td></td>
<td>Incorrect tip for application of material.</td>
<td>See Reversible Tip Selection Chart, page 11.</td>
</tr>
<tr>
<td></td>
<td>Tip filter is partially clogged</td>
<td>Clean or replace filter. See page 12.</td>
</tr>
<tr>
<td></td>
<td>Suction Tube screen is partially clogged.</td>
<td>Clean or replace Suction Tube. See page 13.</td>
</tr>
<tr>
<td></td>
<td>Fine Finish Optimizer is partially clogged.</td>
<td>Clean or replace Fine Finish Optimizer. See page 9.</td>
</tr>
<tr>
<td></td>
<td>Fine Finish Optimizer is installed while using an incompatible material.</td>
<td>Make sure compatible material is being used. See Reversible Tip Selection Chart, page 11.</td>
</tr>
<tr>
<td></td>
<td>Tip is worn or damaged</td>
<td>Replace tip. See Install Tip/Guard Assembly, page 11.</td>
</tr>
<tr>
<td></td>
<td>Inlet or Outlet Valves are worn.</td>
<td>See ProShot Repair, page 17.</td>
</tr>
<tr>
<td>Paint leaks from sprayer trigger area.</td>
<td>Sprayer has reached its maximum life.</td>
<td>Replace sprayer.</td>
</tr>
<tr>
<td>Battery is discharged but charger still displays green light when battery is inserted.</td>
<td>Damaged battery.</td>
<td>Replace battery.</td>
</tr>
</tbody>
</table>

### Spray Pattern Diagnostics

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spray pattern is pulsating:</td>
<td>Fine Finish Optimizer is installed while using an incompatible material.</td>
<td>Make sure material is compatible. See Reversible Tip Selection Chart, page 11.</td>
</tr>
<tr>
<td></td>
<td>Operator is moving too fast while spraying.</td>
<td>Slow speed of movement.</td>
</tr>
<tr>
<td>Spray pattern has tails:</td>
<td>Fine Finish Optimizer is installed while using an incompatible material.</td>
<td>Make sure compatible material is being used. See Reversible Tip Selection Chart, page 11.</td>
</tr>
<tr>
<td></td>
<td>Fine Finish Optimizer is partially clogged.</td>
<td>Clean or replace Fine Finish Optimizer. See page 9.</td>
</tr>
<tr>
<td></td>
<td>Material not compatible with sprayer.</td>
<td>Switch material. See ProShot Repair, page 17.</td>
</tr>
<tr>
<td></td>
<td>Inlet or Outlet Valves are worn.</td>
<td></td>
</tr>
<tr>
<td>Spray pattern has dripping:</td>
<td>Sprayer is moving too slow for material.</td>
<td>Move sprayer faster while spraying.</td>
</tr>
<tr>
<td></td>
<td>Sprayer is too close to target surface.</td>
<td>Move sprayer away from surface (10 in).</td>
</tr>
<tr>
<td></td>
<td>Holding trigger while changing spray direction.</td>
<td>Release trigger when changing directions.</td>
</tr>
<tr>
<td></td>
<td>Incorrect tip for application of material.</td>
<td>See Reversible Tip Selection Chart, page 11.</td>
</tr>
<tr>
<td></td>
<td>Tip is worn or damaged.</td>
<td>Replace tip. See Install Tip/Guard Assembly, page 11.</td>
</tr>
<tr>
<td>Problem</td>
<td>Cause</td>
<td>Solution</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Spray pattern is too narrow:</td>
<td>Sprayer is too close to target surface. Incorrect tip for application of material. Tip is worn or damaged.</td>
<td>Move sprayer away from surface (10 in). See <em>Reversible Tip Selection Chart</em>, page 11. Replace tip. See <em>Install Tip/Guard Assembly</em>, page 11.</td>
</tr>
<tr>
<td>Spray pattern is too wide:</td>
<td>Sprayer is too far away from target surface. Incorrect tip for application of material.</td>
<td>Move sprayer closer to surface. See <em>Reversible Tip Selection Chart</em>, page 11.</td>
</tr>
<tr>
<td>Spray pattern “spits” at the end:</td>
<td>Excess material has accumulated on Spray Tip/Guard Assembly. Tip filter is partially clogged. Tip/Guard Assembly not threaded completely onto sprayer. Seat is worn.</td>
<td>See <em>Shutdown and Cleaning</em>, page 13. Clean or replace filter. See page 12. See <em>Install Tip/Guard Assembly</em>, page 11. Replace Spray tip.</td>
</tr>
<tr>
<td>Tip continues to drip or ooze material after trigger is released:</td>
<td>ProShot sprayer is worn out.</td>
<td>Replace sprayer.</td>
</tr>
<tr>
<td>Spray pattern does not adequately cover target surface</td>
<td>Fine Finish Optimizer is installed while using an incompatible material. ProShot sprayer is worn out.</td>
<td>Make sure compatible material is being used. See <em>Reversible Tip Selection Chart</em>, page 11. Replace sprayer.</td>
</tr>
</tbody>
</table>
# Technical Data

<table>
<thead>
<tr>
<th>Sprayer:</th>
<th>258865</th>
<th>258859</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum working pressure</td>
<td>2000 psi (137.8 bar, 13.7 MPa)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>6.32 lb (2.87 kg)</td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>13.25 in. (33.6 cm)</td>
</tr>
<tr>
<td>Width</td>
<td>5.0 in. (12.7 cm)</td>
</tr>
<tr>
<td>Height</td>
<td>10.375 in. (26.4 cm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage temperature range</th>
<th>32° to 122°F (0° to 50°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature range</td>
<td>40° to 90° F (4° to 32°C)</td>
</tr>
</tbody>
</table>

**Storage Humidity Range**

0% to 95% relative humidity, non-condensing

**Sound Pressure Level**

79.5 dBa† (for sound power level, add 11 dBa)

**Vibration Level Acceleration**

Less than 8.2 feet/s² 2.5 m/s²††

**Charger:**

<table>
<thead>
<tr>
<th>Charging Time</th>
<th>45 - 75 minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Source</td>
<td>120 VAC</td>
</tr>
<tr>
<td></td>
<td>240 VAC</td>
</tr>
</tbody>
</table>

**Battery:**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>18 VDC, Lithium Ion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>2.4 Ah, 43.2 Wh</td>
</tr>
</tbody>
</table>

◆ Pump damage will occur if fluid freezes in pump.
❖ Damage to plastic parts may result if impact occurs in low temperature conditions.
✔ Changes in paint viscosity at very low or very high temperatures can affect sprayer performance.
† per ISO 3744 measured at 3.1 feet (1m)
†† per ISO 5349, no load condition
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.

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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.

TO PLACE AN ORDER, contact your Graco distributor or call to identify the nearest distributor.
Phone: 612-623-6926 or Toll Free: 1-800-690-2894 Fax: 612-623-6893 Toll Free Fax: 1-800-334-6955