

Cordless HandHeld Airless Sprayers

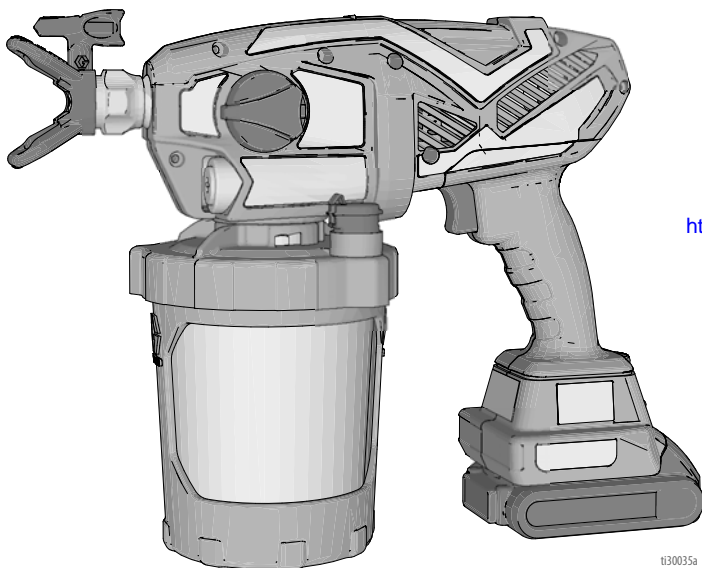
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Important Safety Instructions

Read all warnings and instructions in this manual, on the unit, and in the battery and charger manual. Be familiar with the controls and the proper usage of the equipment. Save these instructions.



Operational video.
<http://graco.com/hhsupport>

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WARNING

FIRE AND EXPLOSION HAZARD

Use only non-flammable or water-based materials, or non-flammable paint thinners. Do not use materials having flash points below 100°F (38°C). This includes, but is not limited to, acetone, xylene, toluene, and naphtha. For more information about your material, request Safety Data Sheet (SDS) from the supplier.

Use oil-based materials 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, the material likely contains a flammable solvent that can build up static and result in a fire or explosion. Switch to an alternative material.

 SERVICE <small>to every customer, every time</small>	Questions? 844-241-9499 www.graco.com/techsupport	
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POWERED BY

DEWALT[®]

For portable spray applications of water-based and oil-based non-flammable architectural paints and coatings only.

Not approved for use in explosive atmospheres or hazardous locations.

PROVEN QUALITY. LEADING TECHNOLOGY.

Models – Cordless Airless HandHelds

Models – Cordless Airless HandHelds

Model	Sprayer Name	Charger Voltage	Tip Family	Tip Size
17M363	Ultra	120V	FFLPxxx	0.008 – 0.016 in. (0.20 – 0.41 mm)
17P515				
17N164	Ultimate	120V	FFLPxxx	
17P516				
17N165	TC Pro	120V	TCPxxx	
17N166				
17N518				

Operating pressure range: 500 – 2000 psi (35 – 138 bar, 3.5 MPa – 14 MPa)

Important User Information

Important User Information

Thank You for Your Purchase!

Before using your sprayer read this Owners Manual for complete instructions on proper use and safety warnings.

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 is intended to help you understand the types of materials that can be used with your sprayer.

Please read the information on the material container label to determine if it can be used with your sprayer. Ask for a Safety Data Sheet (SDS) from your supplier. The container label and SDS 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 non-flammable paint thinner. The SDS must indicate that the flash point of the material is above 100°F (38°C). 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 this 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 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.

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 materials.



- Do not spray or clean with materials having flash points lower than 100°F (38°C).
- Use only non-flammable or water-based materials, or non-flammable paint thinners. For complete information about your material, request the Safety Data Sheet (SDS) from the material distributor or retailer.



- Keep spray area well-ventilated. Keep a good supply of fresh air moving through the area.
- When spraying oil-based material, use outdoors or in a well-ventilated indoor area with a flow of fresh air.
- Do not spray combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment.
- 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 in. (25 cm) away from objects while spraying or flushing.
- Do not use a paint or a solvent containing halogenated hydrocarbons.
- Verify that all containers and collection systems are grounded to prevent static discharge.
- Do not smoke in the spray area or spray where sparks or flame is present.
- 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 Safety Data Sheet (SDS) 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.

WARNING



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 gun 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 use the spray tip guard. Do not spray without spray tip guard in place.
- Use Graco spray tips.
- Use caution when cleaning and changing spray tips. In the case where the spray tip clogs while spraying, follow the **Pressure Relief Procedure** for turning off the unit and relieving the pressure before removing the spray tip to clean.
- Do not leave the equipment energized or under pressure while unattended. Remove battery and follow the **Pressure Relief Procedure** when the equipment is unattended or not in use, and before servicing, cleaning, or removing parts.
- Check parts for signs of damage. Replace any damaged parts.
- This system is capable of producing 2000 psi (138 bar, 14 MPa). Use Graco replacement parts or accessories that are rated a minimum of 2000 psi (138 bar, 14 MPa).
- 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.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Use only in dry locations. Do not expose to water or rain.
- Use in well-lit areas.
- Make sure all equipment is rated and approved for the environment in which you are using it.



BATTERY AND CHARGER COMPATIBILITY HAZARD

- Only use DEWALT brand 20V Max batteries and battery chargers with this tool.
- READ ALL INSTRUCTIONS included with this tool regarding the safety and usage of DEWALT batteries and battery chargers.



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.
- Do not use chlorine bleach.
- Many other fluids may contain chemicals that can react with aluminum. Contact your material supplier for compatibility.

WARNING



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 Safety Data Sheets (SDSs) 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

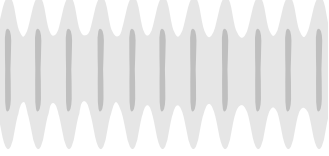



Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:

- Protective eye-wear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

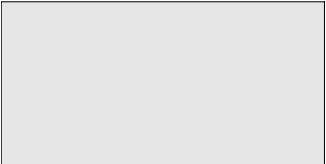
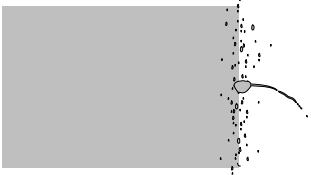
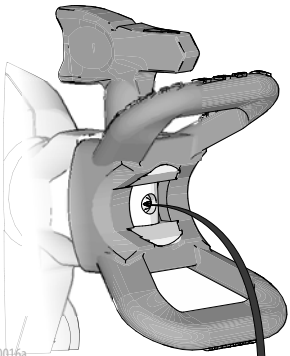
CALIFORNIA PROPOSITION 65

This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

Spray Pattern Diagnostics

Problem	Cause	Solution
Spray pattern is uneven: 	Operator is moving too fast while spraying.	Slow speed of movement.
	Spray tip is clogged.	Unclog spray tip or clean spray tip see Clear Tip Clog , page 15.
	Material difficult to atomize.	Increase speed until desired pattern is achieved.
		Hold sprayer farther away from surface.
	Outlet valves are dirty or worn.	Remove two pump plugs and front valve to gain access to the three outlet valves, see Cleaning Outlet Valves , page 27. Clean outlet valves. Replace if necessary.
		Pump has reached the end of its life.
Spray pattern has tails: 	Speed control is set too low.	Increase speed until desired pattern is achieved.
	Material may need to be thinned.	Thin material follow paint manufacturer's recommendations.
	Incorrect spray tip for application of material.	Install different size spray tip. See Tip and Pressure Selection , page 13.
	Material not compatible with sprayer.	Switch material.
	Spray tip is worn or damaged.	Replace spray tip. See Spray Tip Installation , page 22.
Spray pattern has dripping/sagging: 	Operator is moving too slowly while spraying.	Move sprayer faster while spraying.
	Sprayer is too close to target surface.	Move sprayer away from surface 10 in. (25 cm)
	Holding trigger while changing spray direction.	Release trigger when changing directions.
	Speed control switch is set too high.	Decrease speed until desired pattern is achieved.
	Spray tip is worn or damaged.	Replace spray tip. See Spray Tip Installation , page 22.
Spray pattern is too narrow: 	Sprayer is too close to target surface.	Move sprayer away from surface 10 in. (25 cm)
	Incorrect spray tip for application of material.	Install different size spray tip. See Spray Tip Installation , page 22.
	Spray tip is worn or damaged.	Replace spray tip. See Spray Tip Installation , page 22.

Troubleshooting

Problem	Cause	Solution
<p>Spray pattern is too wide:</p> 	<p>Sprayer is too far away from target surface.</p>	<p>Move sprayer closer to surface.</p>
	<p>Incorrect spray tip for application of material.</p>	<p>Install different size spray tip. See Spray Tip Installation, page 22.</p>
<p>Spray pattern “spits” at the beginning or end of pattern:</p> 	<p>Excess material has accumulated on spray tip guard assembly or spray tip is partially clogged.</p>	<p>Clean spray tip guard. See Clear Tip Clog, page 15.</p>
	<p>Spray tip not inserted completely into spray tip guard.</p>	<p>See Spray Tip Installation, page 22.</p>
	<p>Spray tip is worn.</p>	<p>Replace spray tip. See Spray Tip Installation, page 22.</p>
	<p>Sprayer is dirty</p>	<p>Flush sprayer.</p>
	<p>Front valve has reached the end of its life.</p>	<p>Replace front valve assembly.</p>
<p>Spray tip continues to drip or ooze material after trigger is released:</p> 	<p>Spray tip is worn.</p>	<p>Replace spray tip. See Spray Tip Installation, page 22.</p>
	<p>Spray tip not inserted completely into spray tip guard.</p>	<p>See Spray Tip Installation, page 22.</p>
<p>Material leaks around spray tip guard or spray tip handle</p>	<p>Spray tip seal and seat are damaged or not properly installed.</p>	<p>See Spray Tip Installation, page 22.</p>

Technical Specifications

Cordless HandHeld Sprayer		
	U.S.	Metric
Max Working Pressure	2000 psi	14 MPa, 138bar
Weight	5.25 lb	2.4 kg
Dimensions:		
Length	14.0 in.	36.1 cm
Width	5 in.	12.7 cm
Height	10.5 in.	26.7 cm
Storage Temperature Range ♦❖	32° to 113° F	0° to 45° C
Operating Temperature Range ✓	40° to 90° F	4° to 32° C
Storage Humidity Range	0% to 95% relative humidity, non-condensing	
Sound Power Level	88 dBa†	
Charger Power Source	120 Vac, 60 Hz, 15A, 1 Ø	
Battery		
Voltage (DC)	20 V MAX* 2.0 Ah Li-ion Compact Battery Pack DEWALT	
Maximum tip orifice	0.016 in.	0.41mm

♦ 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 EN60745-1/EN50580 measured at 3.3 feet (1m)

* Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.

Graco Limited Warranty

Graco Limited 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.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

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, 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.

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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Graco Information

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 1-888-541-9788 to identify the nearest distributor.

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product information available at the time of publication.*

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

Original instructions. This manual contains English. MM 3A4476

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Revision B, January 2017