Owners Manual

Cordless HandHeld Airless Sprayers



Project Series Paint Sprayers



Important Safety Instructions

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



Important Medical Information

Read the medical alert card provided with the gun. It contains injection injury treatment information for a doctor. Keep it with you when operating the equipment.



For portable spray applications of water-based architectural paints and coatings only. Not approved for use in explosive atmospheres or hazardous (classified) locations.

PROVEN QUALITY. LEADING TECHNOLOGY.

Before You Spray

Before You Spray

Review Warnings for Important Safety Information

Important! Read carefully and practice good safety habits.

Models

	Model	Sprayer Name	Charger Voltage	Tip Family	Tip Size
	17M363	Ultra	120V		
((T))	17P515	oniu	*	FFLPxxx	
CULTEDUS	17N164	Ultimate	120V		
Intertek	17P516	0	*		
110474 Certified to	17N165		120V		
CAN/CSA	17N166	TC Pro	-	TCPxxx	
C22.2 No. 68 Conforms to UL 1450	17P518		*	TOPXXX	0.008 – 0.016 in. (0.20 – 0.41 mm)
CE	17N167	Ultra	100V		
	17N220	Ultra	230V		
С€ ГПГ	17M366	Ultra	230V	FFLPxxx	
ΓΠL	17M364	Ultra			
	17N221	Ultra	230V		
* Tool only,	without battery	/ and charger.			

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

Compatible with the following DeWALT batteries: DCB183 and DCB203

Related Manuals

Manual in English	Description
	DeWALT charger manual

Operational video



http://graco.com/hhsupport

Important User Information

Important User Information

Thank You for Your Purchase!

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 **2 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.



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.

NOTICE

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

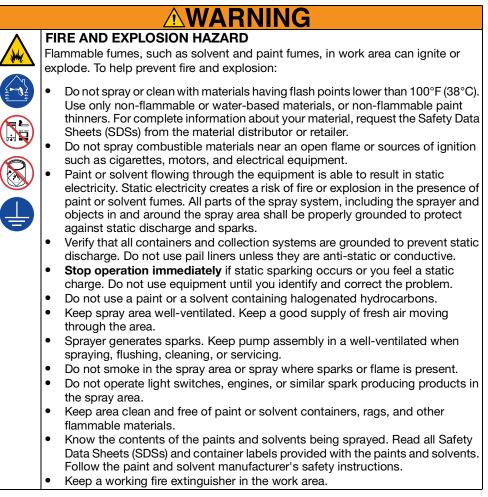
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Warnings

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



Warnings

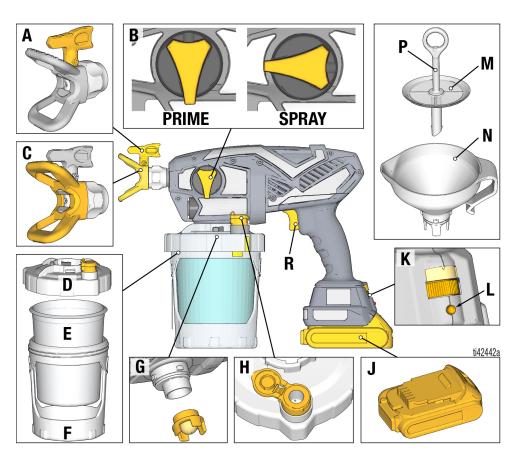
	BATTERY AND CHARGER COMPATIBILITY HAZARD
	• Only use DEWALT brand 18V Max or 20V Max batteries and battery chargers with this tool.
8	 READ ALL INSTRUCTIONS included with this tool regarding the safety and usage of DEWALT batteries and battery chargers.
	Do not wash or spray down battery.
	 Do not clean the battery with anything other than a cloth moistened with water.
	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.
MPa/los/PSt	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
	 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
MPs/bar/PS	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.

Warnings

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. 				
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. Protective 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. 				

Know Your Sprayer

Know Your Sprayer



А	Spray Tip
В	Prime Knob
С	Spray Tip Guard
D	Cup Lid
Е	FlexLiner™
F	Cup Support
G	Pump Filter

Н	VacuValve [™]
J	Battery
Κ	Speed Control
L	Diagnostic Light
М	Strainer
Ν	Funnel
Р	Strainer's Air Tube
R	Trigger

Know Your Controls

Know Your Controls

	Prime Knob The Prime Knob directs fluid to either the cup or the Spray Tip. When priming, it is used to purge air from the pump. Your sprayer will not spray with air in the pump. Turn Prime Knob down to PRIME position when priming the sprayer or to relieve system pressure. Turn Prime Knob forward to SPRAY position to spray fluid.
642305a	VacuValve The VacuValve is used to evacuate air out of the FlexLiner. This is necessary for the sprayer to prime.
SPRAY	Spray Tip The Spray Tip is the key to airless spray technology. High pressure paint pumped through the very small hole in the Spray Tip comes out as a spray. The Spray Tip has the ability to be reversed and quickly clear clogs.
	Trigger The Trigger controls the operation of the sprayer.
7 6 5 4 3 2 2308a	Speed Control The Speed Control allows you to slow down or speed up when spraying.

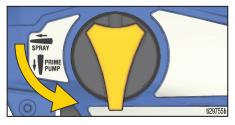
Setup Setup

Pressure Relief Procedure



This sprayer builds up an internal pressure of 2000 psi (138 bar, 13.8 MPa) during use. Follow this **Pressure Relief Procedure** whenever you stop spraying and before cleaning, checking, servicing, or transporting equipment to prevent serious injury from pressurized fluid.

1. Turn Prime Knob down to PRIME position to relieve pressure.



Sprayer Setup



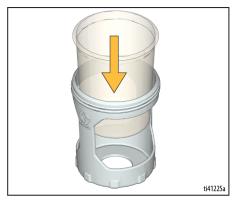
Use only water-based materials. Do not use materials which state "FLAMMABLE" on the packaging. For more information about your material, request a Safety Data Sheet (SDS) from distributor or retailer.

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

NOTE: Do NOT shake materials to be used with this sprayer. Some fine finish lacquers and enamels trap air when shaken, which can affect sprayer performance. Stir the material or check the manufacturer's recommendation for the material being sprayed.

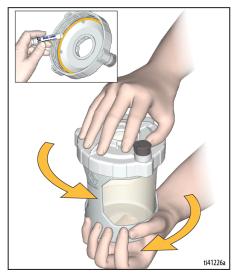
1. Insert one FlexLiner into the Cup Support.

NOTE: Verify there is no damage to the top sealing edge of the FlexLiner, such as a crease or fold. If damaged it will leak air and lose prime.

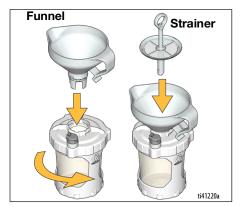


2. Firmly tighten the Cup Lid onto the Cup Support to ensure an airtight seal.

NOTE: To ensure an airtight seal, the gasket inside the Cup Lid is lubricated by the factory. If lubrication has washed away, apply Seal Lube (included) to the gasket.



3. Insert the Funnel into the Cup Lid, twist to lock. Snap the Strainer into the Funnel to strain your paint as you fill your cup.



- 4. The Strainer's Air Tube will prevent paint from overfilling the cup. Fill the cup as follows:
 - Watching the Funnel (not the cup), slowly pour paint into the Funnel. When the paint stops draining down, the cup is full.

NOTE: If the paint stops draining but you see the cup is not full, use a stir stick to scrape the captured debris on the top of the Strainer until the paint resumes draining.

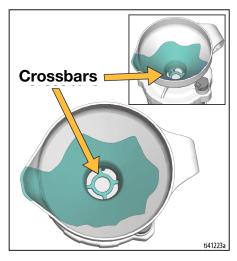


b. With the Funnel and Strainer still attached to the cup, pour excess paint from the Funnel back into the paint can.

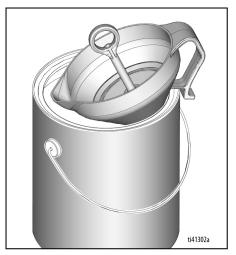


Setup

c. Lift up the Strainer and look to verify you can see *crossbars* in the bottom of the Funnel. If not, the cup is overfilled. Pour excess paint back into the paint can.



d. Remove the Funnel and Strainer from the cup and hook on edge of paint can.





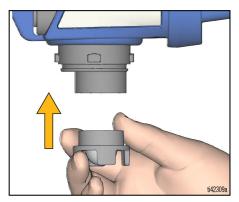
Startup

Always start with a fully charged Battery. See Battery and charger information shipped with the sprayer.

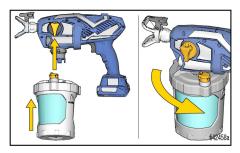


Replace and charge Battery only in a well-ventilated area and away from flammable or combustible materials, including paints and solvents.

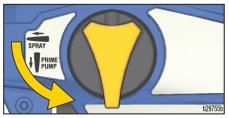
- 1. Install the cup onto the sprayer as follows:
 - a. Verify Pump Filter is installed and clean.



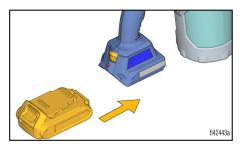
- b. Align VacuValve (on Cup Lid) with Prime Knob (on sprayer).
- c. Push cup assembly onto the sprayer, twist to lock.



- 2. Prime the pump as follows:
 - a. Verify Prime Knob is pointed down to PRIME position.

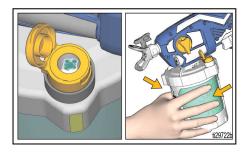


b. Install Battery onto sprayer.



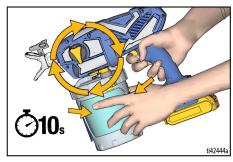
c. Open the VacuValve cap and gently squeeze the FlexLiner until no more air bubbles appear in the VacuValve.

NOTE: Tilt the sprayer such that the VacuValve is the highest point so that all air in the FlexLiner can be fully evacuated.



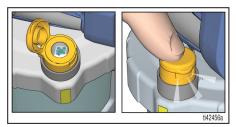
Startup

d. Continue to squeeze the FlexLiner while pulling the Trigger for 10 seconds.

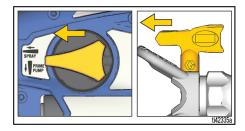


NOTE: This will purge all air from the pump and cup. Paint will not spray out, but will recirculate through the pump and back into the cup.

> e. When no more air bubbles appear in the VacuValve, release the Trigger and close the VacuValve cap.



3. Turn Prime Knob forward to SPRAY position. Verify Spray Tip is forward in the SPRAY position.



- Point the sprayer into a waste pail and pull the Trigger for 5 seconds to spray out storage fluid.
 - To avoid pump damage, if the sprayer does not spray after 5 seconds, STOP and repeat STARTUP.

You are now ready to spray!

NOTE: For best results, to evacuate all material from the FlexLiner when the material is nearly gone, gently squeeze the bottom of the FlexLiner to push the last of the material up to the Cup Lid.

IMPORTANT! The motor has a built-in feature to protect itself from overuse. If the motor stops, the thermal switch has tripped. The motor will operate normally after cooling for 20-30 minutes.





Use only water-based materials. Do not use materials which state "FLAMMABLE" on the packaging. For more information about your material, request a Safety Data Sheet (SDS) from distributor or retailer.

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

1. Set the Speed Control to lowest available setting.



- 2. Pointing at a piece of scrap cardboard, pull the Trigger to test the spray pattern.
- 3. If needed, slowly increase the Speed Control to the setting that produces a good spray pattern.

NOTE: To minimize overspray, always spray at the lowest speed setting that gives a good spray pattern.

4. Adjust the sprayer's distance from the surface and your hand speed to achieve the desired surface coverage.

NOTE: For proper sprayer operation use only a tip from the same tip family that came with your sprayer.

Sprayer Name	Tip Family	Tip Part No.	
Ultra	FFLP	FFLPxxx	
Ultimate	FFLP	FFLPxxx	
TC Pro	TCP	TCPxxx	

Tip and Pressure Selection

See table for recommended spray pressure for your material. Refer to paint (material) can for manufacturer's recommendations.

	Coatings						
	Interior Stains/ Interior & Exterior Clears	Exterior Solid Stains	Primers	Enamels	Interior Latex Paints	Exterior Latex Paints	Filter Color
Speed Control	1 – 5	6 – 10	6 – 10	6 – 10	6 – 10	6 – 10	
Tip hole Size							
0.008 in. (0.20 mm)	1						Blue
0.010 in. (0.25 mm)	1	1					Blue
0.012 in. (0.30 mm)		1		✓			Blue
0.014 in. (0.36 mm)		1	1	✓	\checkmark		Black
0.016 in. (0.41 mm)		✓	\checkmark	✓	✓	✓	Black

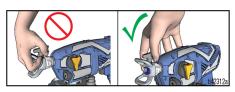
Spray Tip Orientation



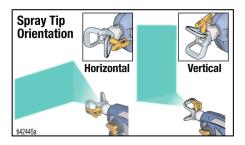
To avoid serious injury from skin injection, do not put your hand in front of the Spray Tip or Spray Tip Guard.

NO

YES



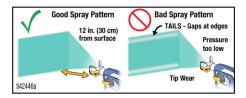
Adjust the Spray Tip Guard for the desired vertical or horizontal spraying direction.



Spray Pattern Quality

A good spray pattern is evenly distributed without voids or runs. Adjust sprayer Speed Control, hand speed, and distance from the wall to get a good spray pattern.

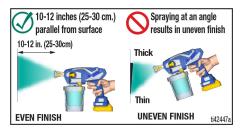
If tails persist, material may need to be thinned. If material needs to be thinned, follow manufacturers recommendations.



Spray Angle

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

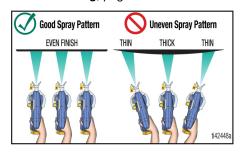
 Hold sprayer 10-12 inches (25-30 cm) from surface and aim straight at surface. Tilting the sprayer to direct the spray angle causes an uneven finish.





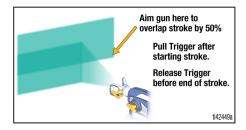
• Flex wrist to keep sprayer pointed straight. Fanning sprayer to direct spray at angle causes uneven finish.

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 27.



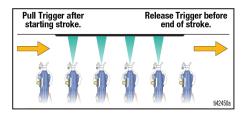
Aiming Sprayer

Aim the sprayer at the bottom edge of the previous stroke, overlapping each stroke by 50%.



Triggering Timing

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



Reversible Spray Tips

Your sprayer is compatible with wide and narrow reversible Spray Tips.

- 0.014 & Larger Spray Tips are for spraying *paint* and should be used with the black Pump Filter.
- 0.012 & Smaller Spray Tips are for spraying stain and should be used with the blue Pump Filter.

Not all tips and filters are included with all models.

Clear Tip Clogs



In the event debris clogs the Spray Tip, the sprayer is designed with a reversible Spray Tip that quickly and easily clears the particles without disassembling the sprayer.

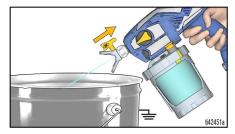
- 1. Perform **Pressure Relief Procedure**, page 10.
- 2. Reverse Spray Tip to UNCLOG position.



3. Set Speed Control to highest setting.



4. Point sprayer into waste pail, turn Prime Knob forward to SPRAY position. Pull Trigger for 5 seconds to clear clog.



NOTE: If Spray Tip is still clogged, you may have to repeat steps 1-4, or replace with replacement Spray Tip.

 Turn Prime Knob downward to PRIME position. Rotate Spray Tip back to SPRAY position. Turn Prime Knob forward to SPRAY position, and resume spraying.

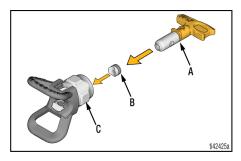
Spray Tip Installation



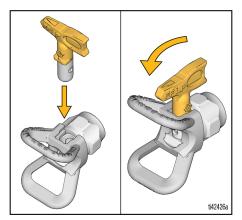
To avoid serious injury from skin injection do not put your hand in front of the Spray Tip when installing or removing the Spray Tip and Spray Tip Guard.

To prevent Spray Tip leaks make certain Spray Tip and Spray Tip Guard are installed properly.

- 1. Perform **Pressure Relief Procedure**, page 10.
- 2. Remove the Battery.
- 3. Use Spray Tip (A) to insert seal (B) into Spray Tip Guard (C).



 Insert Spray Tip. Spray Tip must be pushed all the way into the Spray Tip Guard.



- 5. Screw Spray Tip Guard assembly onto the sprayer and hand tighten.
- Spray Tips wear with use and abrasive paint and need periodic replacement.
- If the spray pattern is poor, you may have a worn Spray Tip. Replace Spray Tip. See Spray Pattern Diagnostics, page 30.

NOTICE

Spray Tips must be cleaned or stored in appropriate cleaning fluid (water or mineral spirits) immediately after use to ensure material is not allowed to dry in Spray Tip. Failure to do so will result in damage to the Spray Tip. See **Cleanup**, page 21.

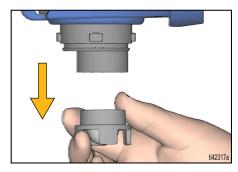
Cup Refills



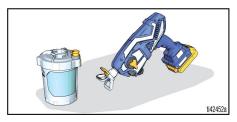
Use only water-based materials. Do not use materials which state "FLAMMABLE" on the packaging. For more information about your material, request a Safety Data Sheet (SDS) from distributor or retailer.

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

- 1. Perform **Pressure Relief Procedure**, page 10.
- 2. Remove cup assembly from sprayer. Remove the Pump Filter and clean debris from the filter screen.



3. Reinstall the Pump Filter into the pump. Set sprayer on a rag.

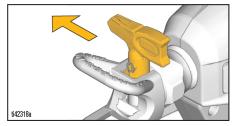


 Refill the cup following Sprayer Setup, page 10, steps 3 and 4. Then follow Startup, page 13, to proceed.

Pause in Spraying

Paint will dry quickly and cause clogs in the sprayer. Follow these steps whenever you pause spraying for 5 minutes to 2 hours.

- 1. Perform **Pressure Relief Procedure**, page 10.
- 2. Remove Battery.
- 3. Turn Spray Tip 90 degrees to seal orifice from drying out.



4. Ensure sprayer is fully sealed. Ensure VacuValve is closed and cup is attached to sprayer with all air evacuated.



Cleanup

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. Do not store solvents other than mineral spirits in sprayer. Always flush with Graco Pump Armor prior to storage.



Use only water-based materials. Do not use materials which state "FLAMMABLE" on the packaging. For more information about your material, request a Safety Data Sheet (SDS) from distributor or retailer.

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

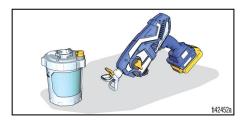
To avoid serious injury or damage to equipment, do not expose the sprayer electronics to cleaning fluids. Keep sprayer **at least 10 in. (25 cm)** above the rim of the container when cleaning.



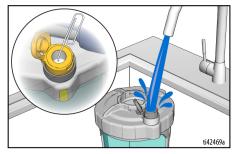
Cleaning Sprayer

Cleaning your sprayer properly and after every spray job is of the utmost importance! Proper care and maintenance will make your paint sprayer last and work for you trouble free.

- 1. Perform **Pressure Relief Procedure**, page 10.
- 2. Remove cup assembly from sprayer, and remove Pump Filter. Set sprayer on a rag.



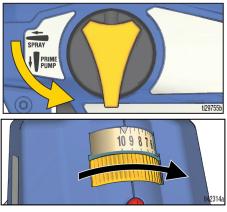
3. Remove Cup Lid and pour extra paint back into paint can. Clean all parts with warm water.



NOTE: Be sure to clean inside the VacuValve reservoir. If the VacuValve air hole becomes clogged, use a paper clip to clean hole.

Cleanup

- 4. To circulate cleaning fluid, fill clean cup assembly half-full of cleaning fluid and reattach to sprayer.
 - a. Verify the Prime Knob is pointed down to the PRIME position.
 - b. Set Speed Control to 10.

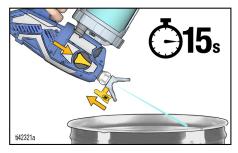


c. Turn the sprayer upside down and trigger for 15 seconds.



- To spray cleaning fluid, refill cup assembly half-full of cleaning fluid and reattach to sprayer.
 - a. Turn the Prime Knob forward to SPRAY position and Spray Tip to the UNCLOG position.

b. Turn the sprayer upside down and trigger into a waste pail for 15 seconds.



c. Turn the Spray Tip to the SPRAY position and trigger into a waste pail for 15 seconds.



- 6. Repeat Cleanup steps as needed until sprayer is clean.
- 7. Turn Prime Knob down to PRIME position.
- 8. Remove Battery.
- 9. Remove Spray Tip from Spray Tip Guard.
- 10. Clean Spray Tip, Spray Tip Guard, and Pump Filter with warm water and an old toothbrush. Reinstall Spray Tip and Pump Filter.

Storage

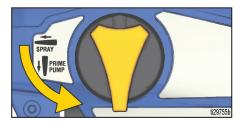
Storage

NOTICE

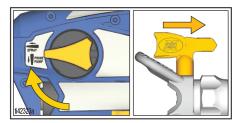
Failure to store sprayer with Pump Armor[™] will result in operational problems the next time you spray. Always fill the sprayer with Pump Armor after cleaning. Water left in the sprayer will corrode and damage the pump.

Pump Armor fluid protects the sprayer while in storage. It helps protect sprayer against startup issues on next use.

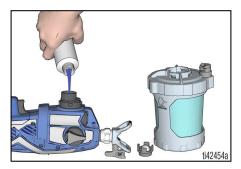
- Do not store the sprayer full of water.
- Do not allow water to freeze in sprayer.
- Do not store sprayer under pressure.
- Store sprayer indoors in a cool, dry location.
- Never store sprayer with material in the sprayer or cup.
- 1. Clean the sprayer and cup assembly. See **Cleanup**, page 21.
- 2. Turn Prime Knob downward to PRIME position.



- 3. Remove cup assembly from sprayer and remove Pump Filter from pump.
- 4. Turn Prime Knob forward to SPRAY position and Spray Tip to the UNCLOG position.

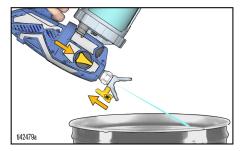


5. With the sprayer upside down, pour approximately 2 oz. (60 ml) Pump Armor (included) into pump opening.



- 6. Install clean Pump Filter into pump.
- 7. Keep sprayer upside down and attach cup assembly on to the sprayer. Install Battery.
- With the sprayer remaining upside down over a waste pail, pull the Trigger until fluid first comes out of the Spray Tip and then immediately let go of the Trigger (approx. 1 second).

NOTE: Do not spray out all fluid. Pump is now loaded with Pump Armor for storage.



- 9. Turn Prime Valve to PRIME position to relieve system pressure and immediately back to SPRAY position for storage. Remove Battery.
- 10. Replace child-resistant cap on Pump Armor bottle and tighten securely for next use.

Reference

Reference

Cleaning Fluid Compatibility



Water-Based Materials

- When spraying water-based materials, flush the system thoroughly with water.
- To spray water-based materials, flush the system thoroughly with water first. The water flowing out of tip should be clear and clean before you begin spraying the water-based material.
- To avoid fluid splashing back on your skin or into your eyes, always aim gun at inside wall of pail.

Maintenance

Maintenance

Routine maintenance is important to ensure proper operation of your sprayer.



Move sprayer to a well-ventilated area and away from flammable or combustible materials, including paints and solvents.

Activity	Interval
Inspect Pump Filter.	Daily or each time you spray
Inspect enclosure vents for blockage.	Daily or each time you spray
Inspect pump inlet holes located under Pump Filter for blockage.	Each time the sprayer is cleaned

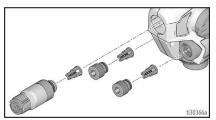
Cleaning Outlet Valves

Dirt and debris in the outlet valve assemblies may affect sprayer performance and require cleaning. Perform these steps ONLY if the sprayer is not working and other troubleshooting measures have not resolved the issue.

NOTICE

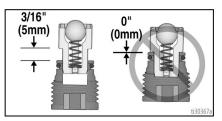
Proper tools must be used to keep the plugs/fittings from being stripped.

- 1. Perform **Pressure Relief Procedure**, page 10.
- 2. Remove the Battery.
- To clean the three outlet valves, remove two pump plugs and front valve. Remove pump plugs with 8mm or 5/16" Allen wrench.



- 4. Clean outlet valve assemblies with warm water or mineral spirits.
- 5. Check ball should move freely against the spring in the retainer.
- 6. If outlet valve assembly was removed from the valve plug, assemble as shown.

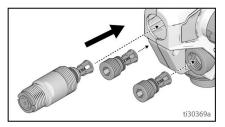
Leave a space between the end of the plug or front valve and shoulder on the outlet valve assembly.



NOTICE

Do not push outlet valves all the way into the valve plugs or front valve. If outlet valves are pushed all the way into the valve plugs or front valve the sprayer will spray with reduced performance.

- a. Make certain o-rings are on the valve plugs and front valve.
- Install two pump plugs and front valve. Install pump plugs with 8mm or 5/16" Allen wrench. Torque outlet valve and pump plugs, see page 32 for torques.



Recycling and Disposal

Recycling and Disposal

End of Product Life

At the end of the product's useful life, dismantle and recycle it in a responsible manner.

- Perform **Pressure Relief Procedure**, page 10.
- Drain and dispose of fluids according to applicable regulations. Refer to the material manufacturer's Safety Data Sheet.
- Remove motors, batteries, circuit boards, LCDs (liquid crystal displays), and other electronic components. Recycle according to applicable regulations.
- Do not dispose of electronic components with household or
 - commercial waste.
- Deliver remaining product to a recycling facility.

End of Life Disposal

If the pumping system is in a condition that it can no longer operate, the pump should be taken out of service and dismantled. Individual parts should be sorted by material and disposed of properly. Key construction materials can be found in the Materials of Construction Section.

Troubleshooting



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

Sprayer Diagnostics



Problem	Cause	Solution		
Sprayer makes no sound when Trigger is pulled	Diagnostic Light blinks two times when Trigger is pulled. Indicates	Replace Battery with a charged Battery.		
	incorrect voltage.	Battery has reached end of life. Replace the Battery.		
	Diagnostic Light blinks three times when Trigger is pulled. Indicates Battery temperature is too hot or cold.	Allow Battery to cool down or warm up to room temperature.		
	Diagnostic Light blinks four times when Trigger is pulled. Indicates locked rotor condition.	Replace pump and/or motor assembly.		
	Diagnostic Light does not blink when	Install Battery or replace Battery.		
	Trigger is pulled. Indicates Battery is not installed or is damaged.	Replace Smartcontrol.		

Problem	Cause	Solution
Sprayer makes sound but no material is sprayed	Sprayer is not primed.	Prime the pump. See Startup , page 13.
when Trigger is pulled		Make certain there is only one FlexLiner in the Cup Support.
		Make certain the cup cover is properly threaded to the Cup Support. If threads are visible below the cup cover when tight, fully remove and reinstall to the Cup Support so no threads are visible when tight.
		Make certain the cup cover is tightened to Cup Support so the arrow on cup cover is within range of indicator on Cup Support.
		Make certain the cup assembly is properly locked on the sprayer.
		Make certain all the air is out of the FlexLiner and the VacuValve is properly closed.
		Clean VacuValve reservoir and air hole. See Cleanup , page 21.
		Clean Sprayer. See Cleanup , page 21.
		Outlet valves are not installed properly. See Cleaning Outlet Valves , page 25.
	Prime Pump/Spray knob is in PRIME PUMP position.	Turn Prime Pump/Spray knob forward to SPRAY position.
	Spray Tip is not in SPRAY position.	Turn Spray Tip to SPRAY position.
	Spray Tip is clogged.	See Clear Tip Clogs, page 18.
	Debris in paint.	Strain the paint. See Sprayer Setup , page 10.
	Pump Filter plugged.	See Cleanup , page 21.
	Speed Control is set too low.	Increase speed until unit sprays.
	No or low material in material cup.	Refill FlexLiner with material and prime the pump. See Cup Refills , page 20.
	Pump has reached the end of its life.	Replace pump assembly.
	Diagnostic Light blinks four times when the Trigger is pulled. Indicates a locked rotor condition.	Replace pump and/or motor assembly.

Problem	Cause	Solution
Sprayer sprays with poor	Spray Tip is partially clogged.	See Clear Tip Clogs, page 18.
results	Spray Tip is not in correct position	Rotate Spray Tip to SPRAY position.
	Incorrect Spray Tip for application of material.	Install different size Spray Tip. See Tip and Pressure Selection , page 15.
	Spray Tip is worn or damaged	Replace Spray Tip. See Spray Tip Installation , page 19.
	Material being sprayed is aerated because it was shaken.	Do NOT shake material. Stir the material or check the manufacturer's recommendation for the material being sprayed.
	Material being sprayed is too cold to spray.	Warm material.
	Outlet valves are dirty or worn.	Remove two pump plugs and front valve to gain access to the three outlet valves. Clean outlet valves, see Cleaning Outlet Valves , page 25. Replace if necessary.
	Pump has reached the end of its life.	Replace pump assembly.
Pump will spray paint but will not spray water	Pump has reached the end of its life.	Replace pump assembly.
Paint leaks out of the cup threads.	Cup not properly seated.	Make certain that there is only one FlexLiner in Cup Support.
		Make certain the cup cover is properly threaded to the Cup Support. If threads are visible below the Cup Support when tight, fully remove the cup cover and reinstall to the Cup Support so no threads are visible when tight.
		Make certain the cup cover is tightened to the Cup Support so the arrow on the cup cover is within range of the indicator on the Cup Support.
		Avoid flexing or pushing on the Cup Support when you evacuate the air out of the FlexLiner.
		Avoid pulling down on the FlexLiner when you evacuate the air out of the FlexLiner.
		Make certain there is no damage to the FlexLiner lip or the cup cover gasket.
		Make certain that the FlexLiner lip and cup cover gasket is free of debris and dried paint.
		Replace FlexLiner.

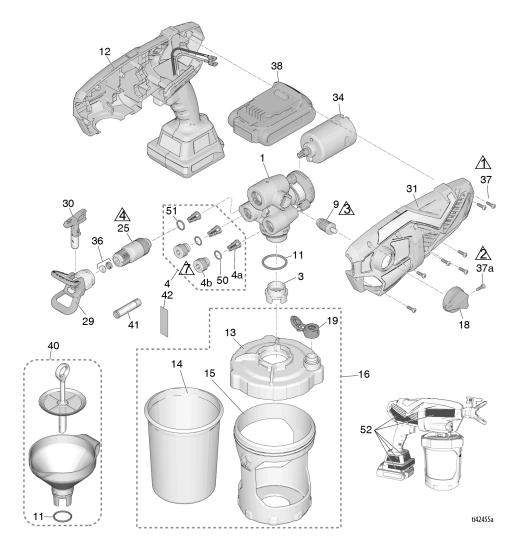
Spray Pattern Diagnostics

Problem	Cause	Solution
Spray pattern is pulsating:	Operator is moving too fast while spraying	Slow speed of movement.
	Spray Tip is clogged	See Clear Tip Clogs, page 18.
	Material is difficult to atomize	On models with Speed Control, increase speed until desired pattern is achieved. See Spraying , page 15.
	Sprayer is too far from target surface	Hold sprayer farther away from surface. See Spraying , page 15.
	Incorrect Spray Tip for application of material	Install a different size Spray Tip. See Reversible Spray Tips , page 17.
Spray pattern has tails:	Speed Control is set too low	On models with Speed Control, increase speed until desired pattern is achieved. See Spraying , page 15.
ti15526a	Incorrect Spray Tip for application of material	Install a different size Spray Tip. See Reversible Spray Tips , page 17.
	Material may need to be thinned	Thin material following paint manufacturer's recommendations.
	Material not compatible with sprayer	Change to different material.
	Spray Tip is worn or damaged	Replace Spray Tip.
Spray pattern has dripping/sagging:	Operator is moving too slowly while spraying	Move sprayer faster when spraying.
~ ~~~~	Sprayer is too close to target surface	Move sprayer away from surface. See Spraying , page 15.
V	Holding Trigger while changing spray direction	Release Trigger when changing directions. See Spraying , page 15.
	Speed Control is set too high	On models with Speed Control, decrease speed until desired pattern is achieved. See Spraying , page 15.
	Spray Tip is worn or damaged	Replace Spray Tip.

Problem	Cause	Solution
Spray pattern "spits" at the end or beginning:	Excess material has accumulated on Spray Tip and Spray Tip Guard, or Spray Tip is partially plugged	Clean Spray Tip and Spray Tip Guard. Clear Spray Tip. See Clear Tip Clogs , page 18.
	Spray Tip is not fully inserted into Spray Tip Guard	See Clear Tip Clogs, page 18.
ti15525a	Spray Tip is worn or damaged	Replace Spray Tip.
	Pump has reached its maximum life	Replace pump.
Spray Tip continues to drip or ooze material after Trigger is released:	Spray Tip is worn.	Replace Spray Tip. See Reference , page 24.
	Spray Tip not inserted completely into Spray Tip Guard.	See Reference , page 24.
H300H6a		
Material leaks around Spray Tip Guard or Spray Tip handle	Spray Tip seal and seat are damaged or not properly installed.	See Reference , page 24.

Replacement Parts

Replacement Parts



Ref.	Torque	Ref.	Torque
\wedge	10 in-lb (1.1 N∙m)	4	55-65 in-lb (6.2 - 7.3 N∙m)
2	8-10 in-lb (0.9 - 1.1 N∙m)	\mathbb{A}	5-7 in-lb (0.6 - 0.8 N∙m)
3	10-15 in-lb (1.1 - 1.7 N∙m)		

Parts List

4a All Outlet valve assembly 4b All Outlet valve plug 9 All 17P098 Prime Pump/Spray valve includes 18, 37 11 All 16Y425 O-ring 12 All 17P179 Kit, Smartcontrol with enclosure includes 31, 34, 7 of 37, 52 13 All 17N515 Lid, cup includes 1 of 19 14 All 17P212 FlexLiner, 32 oz. (3-pack) 14 All 17P505 FlexLiner, 42 oz. (3-pack) 15 Ultra, Ultimate 17N392 Support, cup, 32 oz. 16 17P550 Kit, cup support, lid and plug 32 oz. includes 13, 1 of 14, 15, 17	Ref.	Sprayer Name	Part #	Description	
3 All 17P555 Filter. pump, stain, 3 pack 4 All 17P183 Kit, outlet valve repair includes 3 of 4a, 2 of 4b, 2 of 50, 1 of 5 4a All Outlet valve assembly 0 4b All Outlet valve assembly 0 9 All 17P098 Prime Pump/Spray valve includes 18, 37 11 All 169425 O-ring 12 All 17P179 Kit, Smartcontrol with enclosure includes 31, 34, 7 of 37, 52 13 All 17P179 Kit, Smartcontrol with enclosure includes 31, 34, 7 of 37, 52 14 All 17P179 Kit, Smartcontrol with enclosure includes 31, 34, 7 of 37, 52 14 All 17P179 Kit, cup support, 32 oz. C5-pack) 14 All 17P550 Kit, cup support, lid and plug 32 oz. includes 13, 1 of 14, 15, 71 16 17P550 Kit, cup support, lid and plug 42 oz. includes 13, 1 of 14, 15, 71 17 All 17M879 Plug, cup lid, not shipped with sprayer (not shown) 19 All 17P171 VacuValve cap (3-pack) 20	1	All	17P186	Kit, pump assembly includes 4, 9, 11, 25	
All 17P555 Filter. pump, stain, 3 pack 4 All 17P183 Kit, outlet valve assembly 4a All Outlet valve assembly 4b All Outlet valve assembly 9 All 17P098 Prime Pump/Spray valve includes 18, 37 11 All 16Y425 O-ring 12 All 17P179 Kit, Smartcontrol with enclosure includes 31, 34, 7 of 37, 52 13 All 17N515 Lid, cup includes 1 of 19 14 All 17P212 FlexLiner, 32 oz. (3-pack) 14 All 17P549 FlexLiner, 42 oz. (25-pack) 15 Ultra, Ultimate 17P550 Kit, cup support, lid and plug 32 oz. includes 13, 1 of 14, 15, 1 16 17P552 Kit, cup support, lid and plug 42 oz. includes 13, 1 of 14, 15, 1 17 All 17M879 Plug. cup lid, not shipped with sprayer (not shown) 18 All 17M879 Plug. cup lid, not shipped with sprayer (not shown) 20 Ultra, Ultimate 17P361 Kit, label, brand 210 Ultra, Ultim	2	All	17P554		
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16 17P552 Kit, cup support, lid and plug 42 oz. includes 13, 1 of 14, 15, 11 17 All 17M879 Plug, cup lid, not shipped with sprayer (not shown) 18 All 17P652 Kit, cup support, lid and plug 42 oz. includes 13, 1 of 14, 15, 11 19 All 17M882 Prime Knob 19 All 17P712 VacuValve cap (3-pack) 20 Ultra 17P665 Kit, label, brand 21 Ultmate 17R361 Kit, label, brand 25 All 17P174 Kit, front valve includes 51 26 Ultra, Ultimate 17M883† Case, storage (not shown) 29 Ultra, Ultimate 17M883† Case, storage (not shown) 29 Ultra, Ultimate FFLP514 Spray tip, FFLP 514 30 Ultra, Ultimate FFLP410 Models; 17M364, 17M366 31 All 17P235 Kit, enclosure, cover includes 7 of 37 34 All 17P501 Kit, tip seat and seal (5-pack) 37 All 17R614 Screw, cross-head 37	15	Ultra, Ultimate	17N392	Support, cup, 32 oz.	
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18 All 17M882 Prime Knob 19 All 17P712 VacuValve cap (3-pack) 20 Ultra 17P665 Kit, label, brand 25 All 17P174 Kit, label, brand 26 Ultra, Utimate 17R361 Kit, label, brand 27 All 17P174 Kit, front valve includes 51 26 Ultra, Utimate 17M883† Case, storage (not shown) 29 Ultra, Utimate 246215 Guard, spray tip, FFLP 30 Ultra, Utimate FFLP410 Models; 17M364, 17M366 31 All 17P501 Kit, enclosure, cover includes 7 of 37 34 All 17P501 Kit, tip seat and seal (5-pack) 37 All 17P501 Kit, tip seat and seal (5-pack) 37a All 128726 Screw, cross-head 38* All Li-ion Compact Battery Pack DEWALT 17P557 Model; 17N21. Model; 17P520 requires this battery 39* All Li-ion Battery Charger DEWALT (not shown) 17P560 </td <td>10</td> <td></td> <td>17P552</td> <td>Kit, cup support, lid and plug 42 oz. includes 13, 1 of 14, 15, 17, 1 of 19</td>	10		17P552	Kit, cup support, lid and plug 42 oz. includes 13, 1 of 14, 15, 17, 1 of 19	
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26 Ultra, Ultimate 17M883† Case, storage (not shown) 29 Ultra, Ultimate 246215 Guard, spray tip, FFLP 30 Ultra, Ultimate FFLP514 Spray tip, FFLP 514 30 Ultra, Ultimate FFLP514 Spray tip, FFLP 514 31 All 17P235 Kit, enclosure, cover <i>includes 7 of 37</i> 34 All 17P111 Motor, DC 36 All 17P501 Kit, tip seat and seal (5-pack) 37 All 17R614 Screw, cross-head 37a All 128726 Screw, cross-head 38* All Li-ion Compact Battery Pack DEWALT 17P557 Models; 17M364, 17M366, 17N220. 17P199, 17N167. Model; 17P519 requires this battery 39* All Li-ion Battery Charger DEWALT (not shown) 17P560 Model; 17N364, 17M366, 17N220. 17P199. Model; 17P519 requires this charger 17P559 Model; 17N167 17P561 Model; 17N21. Model; 17P520 requires this charger 40 All 18B057	20	Ultimate	17R361	Kit, label, brand	
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30 Ultra, Ultimate FFLP514 Spray tip, FFLP 514 81 FFLP410 Models; 17M364, 17M366 31 All 17P235 Kit, enclosure, cover includes 7 of 37 34 All 17P111 Motor, DC 36 All 17P501 Kit, tip seat and seal (5-pack) 37 All 17R614 Screw, cross-head 37a All 128726 Screw, cross-head 38* All Li-ion Compact Battery Pack DEWALT 17P557 Models; 17M364, 17M366, 17N220. 17P199, 17N167. Model; 17P519 requires this battery 39* All Li-ion Battery Charger DEWALT (not shown) 17P560 Model; 17N364, 17M366, 17N220. 17P199. Model; 17P519 requires this charger 17P559 Model; 17N364, 17M366, 17N220. 17P199. Model; 17P519 requires this charger 17P561 Model; 17N167 17P561 Model; 17N21. Model; 17P520 requires this charger 40 All 18B057	26	Ultra, Ultimate	17M883†		
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40 All 18B057 Kit, funnel, strainer <i>includes qty. 1 of ref. 11</i>					
			17P561		
41 All 25T467 Lubricant, seal lube					
	41	All	25T467		
42 All 17K515 Label, A+ Service	. –				
50 All 17M394 O-ring				6	
51 All 125119 O-ring	51	All		6	
17A000 Pump Armor, shipped with sprayer 4 oz (not shown)			17A000	Pump Armor, shipped with sprayer 4 oz (not shown)	
253574 Pump Armor, not shipped with sprayer 8 oz (not shown)					
52 ▲ All 17P681 Kit, warning labels (not shown)	52 🔺	All	17P681	Kit, warning labels (not shown)	

Replacement Parts

Ref.	Ref. Sprayer Name Part # Description			
Medical alert card (not shown)				
17R476 English, Spanish, Portuguese (Brazil)				
53 ▲ 17A134 English, Chinese, Korean				
179960 English, Spanish, French				
17F690 Dutch, German, Italian				
▲ Replacement safeety labels, tags, and cards are available at no cost.				
† Not included with PN 17P515, 17P516, 17P518, 17P928, and 17P929.				
* Battery and charger are dependent upon in country requirements.				

Technical Specifications

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 Pressure Level	86.0 dBa		
Sound Power Level†	90.7 dBa, Uncertainty = 0.5 dBa		
Vibration Level (measured in accordance with EN 50580:2012)	Vibration total value $a_h = 33.2 \text{ ft/s}^2$ Uncertainty = 0.5 m/s ²	Vibration total value a _h = 10.1 m/s ² Uncertainty = 0.2 m/s ²	
Charger Power Source		Oncertainty = 0.2 m/s	
17N167	100 Vac, 50 Hz, 15A, 1 Ø		
17M366, 17M364, 17P519, 17N220, 17N221, 17P520	230 Vac, 50 Hz, 16A, 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.

 \dagger All readings were taken within the priming mode at the assumed operator position. Sound power levels were tested to ISO 3741 at 3.3 feet (1m).

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

Graco Standard Warranty

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

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

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Original instructions. This manual contains English. MM 3A4749

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