Operation, Parts

Electric Airless Sprayers



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For portable airless spraying of architectural paints and coatings. For professional use only. Not approved for use in explosive atmospheres or hazardous locations.

490/495/595/395EU Models:

3300 psi (228 bar, 22.8 MPa) Maximum Working Pressure See page 3 for additional model information.



Important Safety Instructions

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

Related Manuals

Gun - 3A6285 (Contractor PC)

Pump - 334599



ti35141a





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

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Models

					Hi-Boy
	VAC	Model	Stand	Lo-Boy	
	VAC	Ultra MAX II	,	•	
(TI)		490 PC Pro	17E852	17E853	17E854
c LISTED US		Ultimate MX II 490 PC Pro	826243	826244	826245
Intertek 110474	120	Ultra MAX II 495 PC Pro	17E855	17E856	17E857
Certified to CAN/CSA	USA	Ultimate MX II 495 PC Pro	826246	826247	826248
C22.2 No. 68 Conforms to		Ultra MAX II 595 PC Pro		17E858	17E859
UL 1450		Ultimate MX II 595 PC Pro		826249	826250
	100 Japan/Taiwan	Ultra MAX II 495 PC Pro	17E890		
	230	ST MAX II 395 PC Pro	17E864		17E865
CE	230 CEE 7/7	ST MAX II 495 PC Pro	17E871		17E874
	OLL III	ST MAX II 595 PC Pro			17E876
	230 Europe	ST MAX II 495 PC Pro	17E872		17E875
	Multi	ST MAX II 595 PC Pro			17E877
ГПГ	440	ST MAX II 495 PC Pro	17E873		17E870
EHE	110 UK	ST MAX II 595 PC Pro			17E878
		Ultra MAX II 490 PC Pro	17E887		
	230 Asia/ANZ	Ultra MAX II 495 PC Pro	17E889	17E891	17E892
		Ultra MAX II 595 PC Pro		17E897	17E896

Warnings

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.

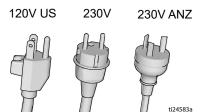
MARNING



GROUNDING

This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

- Improper installation of the grounding plug is able to result in a risk of electric shock.
- When repair or replacement of the cord or plug is required, do not connect the grounding wire to either flat blade terminal.
- The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.
- Check with a qualified electrician or serviceman when the grounding instructions are not completely understood, or when in doubt as to whether the product is properly grounded.
- Do not modify the plug provided; if it does not fit the outlet, have the proper outlet installed by a qualified electrician.
- This product is for use on a nominal 120 V or 230 V circuit and has a grounding plug similar to the plugs illustrated in the figure below.



- Only connect the product to an outlet having the same configuration as the plug.
- Do not use a 3-to-2 adapter with this product.

Extension Cords:

- Use only a 3-wire extension cord that has a grounding plug and a grounding receptacle that
 accepts the plug on the product.
- Make sure your extension cord is not damaged. If an extension cord is necessary, use 12 AWG (2.5 mm²) minimum to carry the current that the product draws.
 - An undersized cord results in a drop in line voltage and loss of power and overheating.

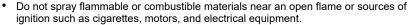
MARNING



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:







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.
All parts of the spray system, including the pump, hose assembly, spray gun, and
objects in and around the spray area shall be properly grounded to protect against static
discharge and sparks. Use Graco conductive or grounded high-pressure airless paint
sprayer hoses.



- Verify that all containers and collection systems are grounded to prevent static discharge. Do not use pail liners unless they are anti-static or conductive.
- Connect to a grounded outlet and use grounded extensions cords. Do not use a 3-to-2 adapter.
- Do not use a paint or a solvent containing halogenated hydrocarbons.
- Do not spray flammable or combustible liquids in a confined area.
- Keep spray area well-ventilated. Keep a good supply of fresh air moving through the area
- Sprayer generates sparks. Keep pump assembly in a well-ventilated area at least 20 feet (6.1 m) from the spray area when spraying, flushing, cleaning, or servicing. Do not spray pump assembly.
- 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 Sheets (SDSs) and container labels provided with the paints and solvents. Follow the paint and solvent manufacturer's safety instructions.
- · Keep a working fire extinguisher in the work area.

MARNING



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 nozzle tip guard. Do not spray without nozzle tip guard in place.



Use Graco nozzle tips.
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.



- Equipment maintains pressure after power is shut off. Do not leave the equipment
 energized or under pressure while unattended. Follow the Pressure Relief Procedure
 when the equipment is unattended or not in use, and before servicing, cleaning, or
 removing parts.
- Check hoses and parts for signs of damage. Replace any damaged hoses or parts.
- This system is capable of producing 3300 psi. Use Graco replacement parts or accessories that are rated a minimum of 3300 psi.
- Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.
- 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 kink or over-bend the hose.
- Do not expose the hose to temperatures or to pressures in excess of those specified by Graco.
- Do not use the hose as a strength member to pull or lift the equipment.
- Do not spray with a hose shorter than 25 feet.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using
 it.

*↑***WARNING**



ELECTRIC SHOCK HAZARD

This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.



- Turn off and disconnect power cord before servicing equipment.
- Connect only to grounded electrical outlets.
- Use only 3-wire extension cords.
- · Ensure ground prongs are intact on power and extension cords.
- Do not expose to rain. Store indoors.
- Wait five minutes after disconnecting power cord before servicing.



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.



MOVING PARTS HAZARD

Moving parts can pinch, cut or amputate fingers and other body parts.



- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources.



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.



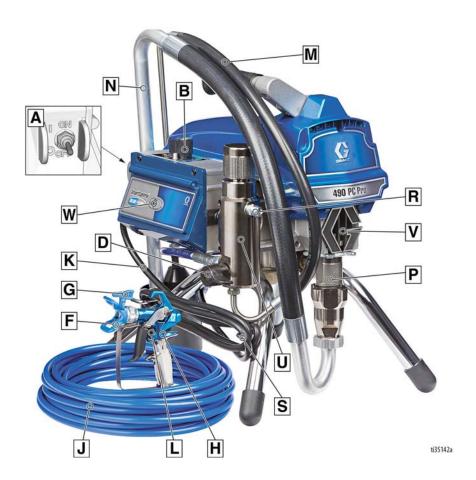
PERSONAL PROTECTIVE EQUIPMENT

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

Component Identification

Component Identification Stand Models

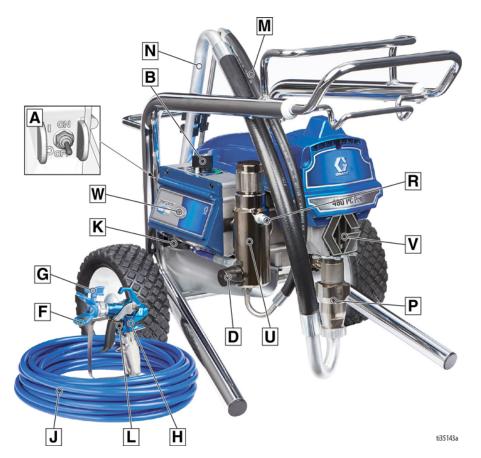


Α	ON/OFF Switch
В	Pressure Control
D	Prime Valve
F	Tip Guard
G	Spray Tip
Н	Gun
J	Airless Hose
K	Power Cord
L	Trigger Lock
М	Drain Tube

Ν	Suction Tube
Р	Pump
R	Fluid Outlet
S	Power Cord Wrap
U	Filter
V	Finger Guard / TSL Fill Point
W	BlueLink™ Status Light
	Model/Serial Tag (Not shown, located on bottom of unit.)
	P R

Component Identification

Lo-Boy Models

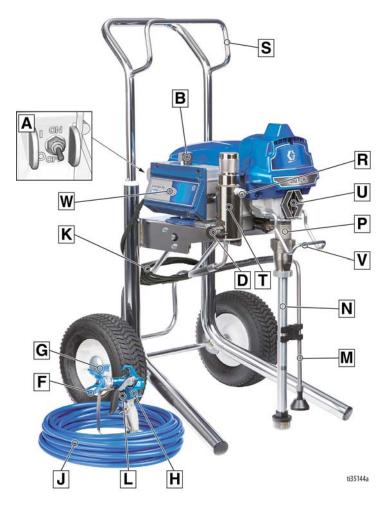


Α	ON/OFF Switch
В	Pressure Control
D	Prime Valve
F	Tip Guard
G	Spray Tip
Н	Gun
J	Airless Hose
K	Power Cord
L	Trigger Lock

М	Drain Tube
N	Suction Tube
Р	Pump
R	Fluid Outlet
U	Filter
V	Finger Guard / TSL Fill Point
W	BlueLink Status Light
	Model/Serial Tag (Not shown, located

Component Identification

Hi-Boy Models



Α	ON/OFF Switch
В	Pressure Control
D	Prime Valve
F	Tip Guard
G	Spray Tip
Н	Gun
J	Airless Hose
K	Power Cord
L	Trigger Lock
М	Drain Tube
N	Suction Tube

Р	Pump
R	Fluid Outlet
S	Hanger
Т	Filter
U	Finger Guard / TSL Fill Point
V	Pail Hook
W	BlueLink Status Light
	Model/Serial Tag (Not shown, located on bottom of unit.)

Grounding

Grounding









The equipment must be grounded to reduce the risk of static sparking and electric shock. An electric or static spark can cause fumes to ignite or explode. An improper ground can cause electric shock. A good ground provides an escape wire for the electric current.

This sprayer is equipped with a power cord that has a ground wire and an appropriate grounding plug.

The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances

Do not modify the plug provided; if it does not fit the outlet, have the proper outlet installed by a qualified electrician.

Power Requirements

- 100-120V units require 100-120 VAC, 50/60 Hz, 12 or 15A, 1 phase.
- 230V units require 230 VAC, 50/60 HZ, 7 or 9A, 1 phase.

Extension Cords

Use an extension cord with an undamaged ground contact. If an extension cord is necessary, use a 3-wire, 12 AWG (2.5 mm²) minimum.

NOTE: Smaller gauge or longer extension cords may reduce sprayer performance.

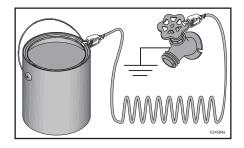
Pails

Solvent and oil-based fluids: follow local code. Use only conductive metal pails, placed on a grounded surface such as concrete.

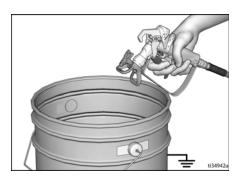
Do not place pail on a non-conductive surface such as paper or cardboard which interrupts grounding continuity.



Always ground a metal pail: connect a ground wire to the pail. Clamp one end to the pail and the other end to a true earth ground such as a water pipe.



To maintain ground continuity when sprayer is flushed or pressure is relieved: hold metal part of spray gun firmly to the side of a grounded metal pail then trigger the gun.



Pressure Relief Procedure

Pressure Relief Procedure



Follow the Pressure Relief Procedure whenever you see this symbol.

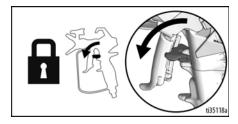


This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashed fluid and moving parts, follow the Pressure Relief Procedure whenever sprayer is stopped and before sprayer is cleaned or checked, and before equipment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

1. Turn ON/OFF switch to the **OFF** position.



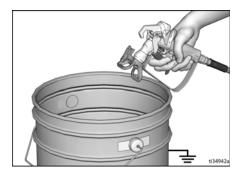
2. Engage the trigger lock.



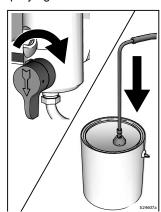
3. Turn pressure control to the lowest setting. Disengage the trigger lock.



 Hold a metal part of the gun firmly to a grounded metal pail. Trigger the gun to relieve pressure.



- 5. Engage the trigger lock.
- Turn the prime valve down. Put drain tube in a pail. Leave prime valve in the down (drain) position until you are ready to spray again.



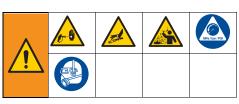
- If you suspect the spray tip or hose is clogged or that pressure has not been fully relieved:
 - VERY SLOWLY loosen the tip guard retaining nut or the hose end coupling to relieve pressure gradually.
 - b. Loosen the nut or coupling completely.
 - c. Clear hose or tip obstruction.

Trigger Lock

Always engage the trigger lock when sprayer is stopped to prevent the gun from being triggered accidentally by hand or if dropped or bumped.

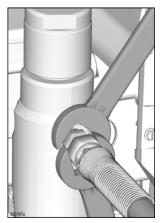


Setup

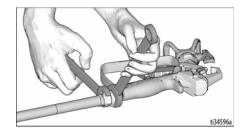


When unpacking sprayer for the first time or after long term storage perform setup procedure. When first setup is performed remove shipping plug from fluid outlet.

 Connect Graco airless hose to fluid outlet. Use wrenches to tighten securely.



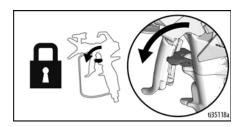
2. Connect other end of hose to gun.



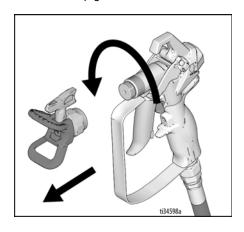
3. Use wrenches to tighten securely.

Setup

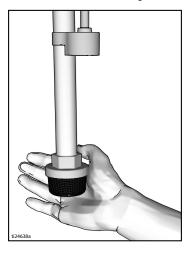
Engage trigger lock.



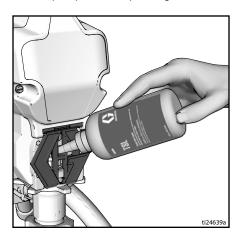
5. Remove tip guard.



 When unpacking sprayer for the first time remove packaging materials from inlet strainer. After long term storage check inlet strainer for clogs and debris.



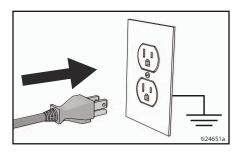
- 7. Fill throat packing nut with TSL to prevent premature packing wear. Do this daily or each time you spray.
 - a. Place the TSL bottle nozzle into the top center opening in the grill at the front of the sprayer.
 - b. Squeeze bottle to dispense enough TSL to fill the space between the pump rod and packing nut seal.



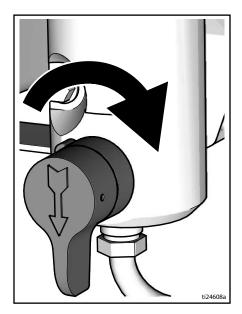
8. Make certain ON/OFF switch is OFF.



9. Plug power supply cord into a properly grounded electrical outlet.



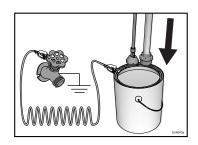
Turn prime valve down.



 Place fluid intake with drain tube in grounded metal pail partially filled with flushing fluid. See Grounding, page 11.

NOTE: New sprayers are shipped with storage fluid that must be flushed out with mineral spirits prior to using the sprayer.

Check flushing fluid for compatibility with material that is to be sprayed. A secondary flush with a compatible fluid may be necessary. Water for latex paint or mineral spirits for oil-based paint.



- 12. Turn pressure control to OFF.
- 13. Turn ON/OFF switch to **ON** position.
- 14. Turn prime valve horizontal. Disengage trigger lock.
- 15. Turn pressure control to Prime/Slow.
- Hold a metal part of the gun firmly to a grounded metal pail. Trigger gun and flush for one minute.
- 17. Turn ON/OFF switch to **OFF** position.
- Engage trigger lock.
- 19. After flushing storage fluid out of the sprayer empty pail. Replace fluid intake with drain tube in grounded metal pail partially filled with flushing fluid. Use water to flush water-based paint or mineral spirits to flush oil-based paint.
- 20. Turn ON/OFF switch to ON position.
- Turn prime valve horizontal. Disengage trigger lock.
- Hold a metal part of the gun firmly to a grounded metal pail. Trigger gun and flush until clean.
- 23. Turn ON/OFF switch to **OFF** position.
- Engage trigger lock.
- 25. Sprayer is now ready for startup and spray.

Startup

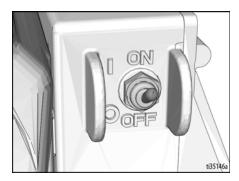
Startup



- Perform Pressure Relief Procedure, page 12.
- 2. Turn pressure control to lowest pressure.



3. Turn ON/OFF switch to ON position.

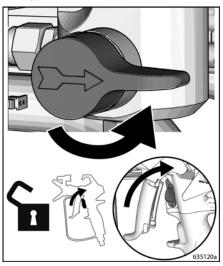


4. Place fluid intake in paint pail. Place drain tube in waste pail.

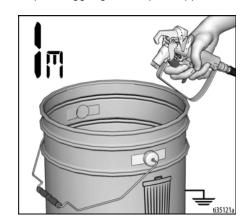
 Turn pressure control to Fast Flush to start motor. Allow paint to circulate through drain tube for 15 seconds.



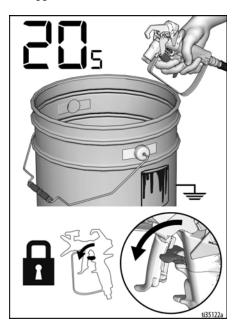
6. Turn prime valve horizontal. Disengage trigger lock.



7. Hold gun against grounded metal waste pail. Trigger gun until paint appears.



 Move gun to paint pail and trigger for 20 seconds. Release trigger and allow sprayer to build pressure. Engage trigger lock.





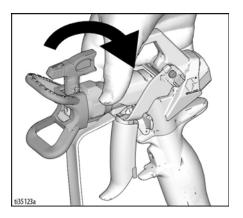






High-pressure spray is able to inject toxins into the body and cause serious bodily injury. Do not stop leaks with hand or rag.

- Inspect for leaks. If leaks occur, perform Pressure Relief Procedure, page 12, then tighten all fittings and repeat Startup procedure. If there are no leaks continue with the next step.
- Screw tip assembly onto gun and tighten. See Spray Tip Installation, page 18. For gun assembly instructions, see separate gun manual.



Operation

Spray Tip Installation





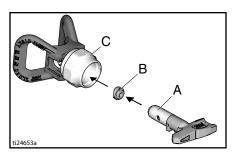




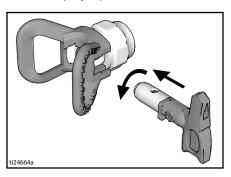


To avoid serious injury from skin injection do not put your hand in front of the spray tip when installing or removing the spray tip and tip guard.

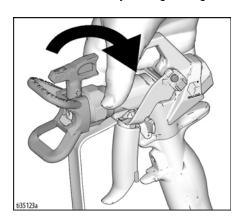
- Perform Pressure Relief Procedure, page 12.
- Use spray tip (A) to insert
 OneSeal[™] (B) into tip guard (C).



3. Insert Spray Tip.

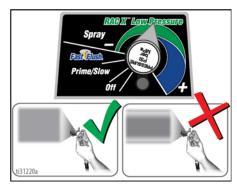


4. Screw assembly onto gun. Tighten.



Spray

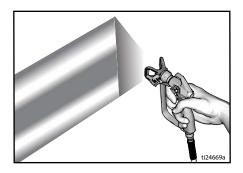
When a RAC XTM FF LP Fine Finish Low Pressure reversible spray tip is used, spraying pressure can be lowered. Spraying at a lower pressure results in less over spray and reduces spray tip wear. Adjust the sprayer pressure to minimize overs pray.



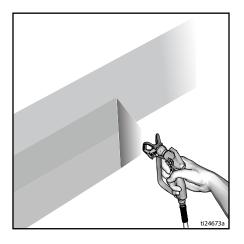
Atomized, evenly distributed fan pattern

Tails

1. Spray test pattern. Adjust pressure to eliminate heavy edges.



- Use smaller tip size if pressure adjustment cannot eliminate heavy edges.
- Hold gun perpendicular, 10-12 in. (25-30 cm) from surface. Spray back and forth; overlap by 50%.



 Trigger gun after moving. Release trigger before stopping. For additional spraying information, see separate gun manual

Clear Spray Tip Clog







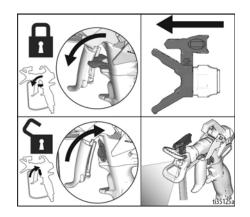


To avoid injury, never point gun at your hand or into a rag!

 Release trigger. Engage trigger lock. Rotate Spray Tip. Disengage trigger lock. Trigger gun at waste area to clear clog.



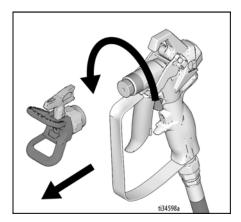
 Engage trigger lock. Return Spray Tip to original position. Disengage trigger lock and continue spraying.



Cleanup

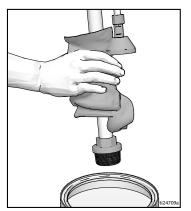


- Perform Pressure Relief Procedure, page 12.
- Remove tip guard and Spray Tip. For additional information, see separate gun manual.

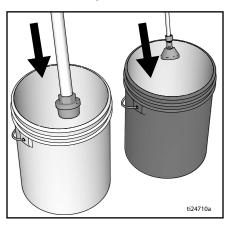


Fast Flush Drain Tube

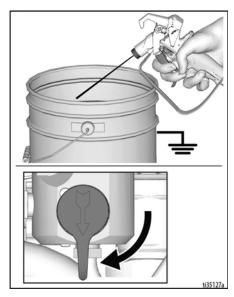
3. Remove fluid intake and drain tube from paint, wipe excess paint off outside.



 Place fluid intake in flushing fluid. Use water for water base paint and mineral spirits for oil-based paint. Place drain tube in waste pail.



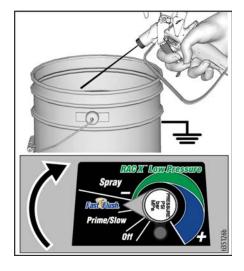
5. To flush drain tube and pump turn prime valve down.



Turn pressure control to Fast Flush operate until the pump runs steady and flushing fluid appears in the waste pail.

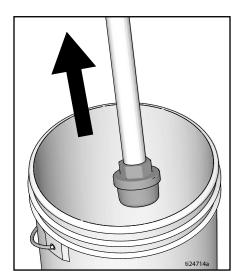
Fast Flush Hose and Gun

- 7. To flush airless hose and spray gun, turn prime valve horizontal.
- 8. Hold gun against waste pail. Disengage trigger lock. Trigger gun and turn pressure control to Fast Flush operate until the pump runs steady and flushing fluid appears.



9. Stop triggering gun.

10. Raise fluid intake above flushing fluid.



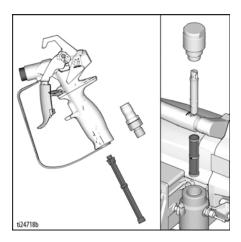
- 11. With prime valve horizontal. Trigger gun into flushing pail to purge fluid from hose.
- 12. Engage trigger lock.



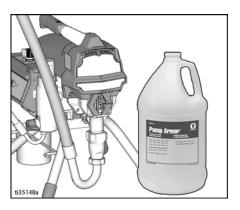
 Turn pressure control knob to OFF and turn ON/OFF switch to OFF position. Disconnect power to sprayer.



 Remove filter from gun and sprayer if installed. Clean and inspect. Install filter. See separate gun manual.



 If flushing with water, flush again with mineral spirits or Pump Armor to leave a protective coating to prevent freezing or corrosion.



16. Wipe sprayer, hose and gun with a rag soaked in water or mineral spirits.



BlueLink™ App

Download the Graco BlueLink app from the Apple App Store or Google Play to connect to the paint sprayer via Bluetooth®.

The BlueLink app allows you to access sprayer information, settings, statistics, and provides access to useful features such as WatchDog™, improved maintenance tracking, sprayer tracking, and job tracking. Find the Graco BlueLink App at:

https://www.graco.com/BlueLink



Further instructions can be accessed within the app. Instructions can also be accessed online at:

https://www.graco.com/BlueLinkSupport



Enabling or Disabling BlueLink







The Graco BlueLink system uses Bluetooth to communicate between the sprayer's control board and a mobile phone. To disable BlueLink by shutting off the Bluetooth transmitter, perform the following steps:

- Turn the ON/OFF switch to the OFF position. Turn the Pressure Control Knob all the way counterclockwise to the OFF position.
- Unplug sprayer from power outlet and allow power to dissipate for 5 minutes.
- Remove control box cover.
- On the main control board, disconnect the ribbon cable. To enable BlueLink, re-connect this cable.



Reassemble control box cover.

Maintenance

Maintenance

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

Maintenance includes performing routine actions which keep your sprayer in operation and prevents trouble in the future.











Perform **Pressure Relief Procedure**, page 12, before performing maintenance.

Activity	Interval
Inspect/clean sprayer filter, fluid inlet strainer, and gun filter.	Daily or each time you spray
Inspect motor shield vents for blockage.	Daily or each time you spray
Fill TSL by adding through TSL fill point.	Daily or each time you spray
Check sprayer stall.	Every 1000 gallons (3785 liters)
With sprayer gun NOT triggered, sprayer motor should stall and not restart until gun is triggered again.	
If sprayer starts again with gun NOT triggered, inspect pump for internal/external leaks and check prime valve for leaks.	
Throat packing adjustment	As necessary based on usage
When pump packing begins to leak after extended use, tighten packing nut down until leakage stops or lessens. This allows approximately 100 gallons of additional operation before a repacking is required. Packing nut can be tightened without 0-ring removal.	



Maintenance can be scheduled and tracked via the Graco BlueLink app.

Recycling and Disposal at End of Life

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

Preparation:

- Perform the Pressure Relief Procedure, page 12.
- Drain and dispose of fluids according to applicable regulations. Refer to the material manufacturer's Safety Data Sheet

Dismantle and recycle:

- Remove motors, circuit boards, displays, and other electronic components. Remove the coin-cell battery from the battery holder on the control board. Recycle according to applicable regulations.
- Do not dispose of electronic components with household or commercial waste.
- Deliver remaining product to a recycling facility.

Mechanical/Fluid Flow













 Follow Pressure Relief Procedure, page 12, before checking or repairing. 2. Check all possible problems and causes before disassembling the unit.

Problem	What to Check If check is OK, go to next check	What to Do When check is not OK, refer to this column
Control board status light is blinking or the light is off and there is power to the sprayer.	Fault condition exists.	Determine fault correction from Electrical , page 28.
Pump output is low	Spray tip worn.	Follow Pressure Relief Procedure, page 12, then replace tip. See separate gun or tip manual.
	Spray tip clogged.	Relieve pressure. Check and clean spray tip.
	Paint supply.	Refill and reprime pump.
	Intake strainer clogged.	Remove and clean, then reinstall.
	Intake valve ball and piston ball are not seating properly.	Remove intake valve and clean. Check balls and seats for nicks; replace if necessary. See pump manual. Strain paint before using to remove particles that could clog pump.
	Fluid filter or tip filter is clogged or dirty.	Clean filter.
	Prime valve leaking.	Follow Pressure Relief Procedure, page 12, then repair prime valve.
	Verify pump does not continue to stroke when gun trigger is released. (Prime valve not leaking.)	Service pump. See pump manual.
	Leaking around throat packing nut which may indicate worn or damaged packings.	Replace packings. See pump manual. Also check piston valve seat for hardened paint or nicks and replace if necessary. Tighten packing nut/wet-cup.

Problem	What to Check If check is OK, go to next check	What to Do When check is not OK, refer to this column
Pump output is low	Pump rod damage.	Repair pump. See pump manual.
	Low stall pressure.	Turn pressure knob fully clockwise. Make sure pressure control knob is properly installed to allow full clockwise position. If problem persists, replace pressure transducer.
	Piston packings are worn or damaged.	Replace packings. See pump manual.
	O-ring in pump is worn or damaged.	Replace o-ring. See pump manual.
	Intake valve ball is packed with material.	Clean intake valve. See pump manual.
	Large pressure drop in hose with heavy materials.	Reduce overall length of hose.
	Check extension cord for correct size.	See Extension Cords, page 11.
Motor runs but pump does not stroke	Connecting rod assembly damaged. See pump manual.	Replace connecting rod assembly. See pump manual.
	Gears or drive housing damaged.	Inspect drive housing assembly and gears for damage and replace if necessary.
Excessive paint leakage into throat packing nut	Throat packing nut is loose.	Remove throat packing nut spacer. Tighten throat packing nut just enough to stop leakage.
	Throat packings are worn or damaged.	Replace packings. See pump manual.
	Displacement rod is worn or damaged.	Replace rod. See pump manual.
Fluid is spitting from gun	Air in pump or hose.	Check and tighten all fluid connections. Cycle pump as slowly as possible during priming.
	Spray tip is partially clogged.	Clear tip. See Clear Spray Tip Clog, page 19.
	Fluid supply is low or empty.	Refill fluid supply. Prime pump. See pump manual. Check fluid supply often to prevent running pump dry.

Problem	What to Check If check is OK, go to next check	What to Do When check is not OK, refer to this column
Pump is difficult to prime	Air in pump or hose.	Check and tighten all fluid connections. Cycle pump as slowly as possible during priming.
	Intake valve is leaking.	Clean intake valve. Be sure ball seat is not nicked or worn and that ball seats well. Reassemble valve.
	Pump packings are worn.	Replace pump packings. See pump manual.
	Paint is too thick.	Thin the paint according to supplier recommendations.
Sprayer operates for 5 to 10 minutes then stops	Pump packing nut too tight. When pump packing nut is too tight the packings on the pump rod restrict pump action and overloads the motor.	Loosen pump packing nut. Check for leaks around throat. If necessary, replace pump packings. See Pump manual.

Electrical

Symptom: Sprayer does not run, stops running, or will not shut off.









Perform **Pressure Relief Procedure**, page 12.

- 1. Plug sprayer into correct voltage, grounded outlet.
- Turn the ON/OFF switch OFF wait 30 seconds and then turn power back ON again (this ensures sprayer is in normal run mode).
- 3. Turn pressure control knob clockwise 1/2 turn.

4. Remove control box cover to view control board status light. To determine which code (or any other code besides voltage supply) refer to the control board status light. Turn the ON/OFF switch OFF, remove the control cover then turn power back ON. Observe the status light. Blinking LED total count equals the error code (for example: two blinks equals CODE 02).









Keep clear of electrical and moving parts during troubleshooting procedures. To avoid electrical shock hazards when covers are removed for troubleshooting, wait 5 minutes after disconnecting power cord for stored electricity to dissipate.

Error Code Messages

CODE	MESSAGE	ACTION
02	HIGH PRESSURE DETECTED - RELIEVE PRESSURE	Check for clogs. Use only Graco spray hoses, use a minimum of 50ft/15m.
03	PRESSURE TRANSDUCER NOT DETECTED	Check transducer connection.
05	MOTOR NOT SPINNING	Check for mechanical failure and check motor connections. Material may be too thick, thin material.
06	MOTOR OVERHEATED	Turn sprayer OFF. Check motor connections. Check shroud vents for blockage. Sprayer may take up to an hour to cool.

Problem	What to Check	How to check
Sprayer does not run at all AND Control board status light never lights	See flow chart, page 34.	
Sprayer does not shut off AND Control board status light blinks 2 times repeatedly	Control board.	Replace control board.
Sprayer does not run at all AND Control board status light blinks 2 times repeatedly	Check transducer or transducer connections	Make sure there is no pressure in the system (see Pressure Relief Procedure, page 12). Check fluid path for clogs, such as clogged filter. Use airless paint spray hose with no metal braid. A small hose or metal braid hose may result in high-pressure spikes. Turn ON/OFF switch OFF and disconnect power to sprayer. Check transducer and connections to control board. Disconnect transducer from control board socket. Check that transducer and control board contacts are clean and secure. Reconnect transducer to control board socket. Connect power, turn ON/OFF switch ON and control knob 1/2 turn clockwise. If sprayer does not run properly, turn ON/OFF switch OFF and go to next step. Install new transducer. Connect power, turn ON/OFF switch ON and control knob 1/2 turn clockwise. Replace control board if sprayer does not run properly.

Problem	What to Check	How to check
Sprayer does not run at all AND	Check transducer or transducer connections (control board is not detecting a pressure signal).	Turn ON/OFF switch OFF and disconnect power to sprayer.
Control board status light blinks 3 times repeatedly		Check transducer and connections to control board.
Simile 6 times repeatedly		Disconnect transducer from control board socket. Check to see if transducer and control board contacts are clean and secure.
		Reconnect transducer to control board socket. Connect power, turn ON/OFF switch ON and control knob to 1/2 turn clockwise. If sprayer does not run, turn ON/OFF switch OFF and go to next step.
		Connect a confirmed working transducer to control board socket.
		Turn ON/OFF switch ON and control knob to 1/2 turn clockwise. If sprayer runs, install new transducer. Replace control board if sprayer does not run.
		Check transducer resistance with an ohmmeter (less than 9k ohm between red and black wires and 3-6k ohm between green and yellow wires).
Sprayer does not run at all AND Control board status light blinks 5 times repeatedly	Control is commanding motor to run but motor shaft does not rotate. Possibly locked rotor condition, an open connection exists between motor and	Remove pump and try to run sprayer. If motor runs, check for locked or frozen pump or drive train. If sprayer does not run, continue to step 2.
	control, there is a problem with motor or control board, or motor amp draw is excessive.	Z.Turn ON/OFF switch OFF and disconnect power to sprayer.
		3.Disconnect motor connector(s) from control board socket(s). Check that motor connector and control board contacts are clean and secure. If contacts are clean and secure, continue to step 4.
		4.Set sprayer to OFF and spin motor fan 1/2 turn. Restart sprayer. If sprayer runs replace control board. If sprayer does not run, continue to step 5.

Problem	What to Check	How to check
		5.Perform Spin Test: Test at large 4-pin motor field connector. Disconnect fluid pump from sprayer. Test motor by placing a jumper across pins 1 & 2. Rotate motor fan at about 2 revolutions per second. A cogging resistance to motion should be felt at the fan. The motor should be replaced if no resistance is felt. Repeat for pin combinations 1 & 3 and 2 & 3. Pin 4 (the green wire) is not used in this test. If all spin test is positive, continue to step 6.
		GRN BLU R BLK STEP 1: 4 3 2 1
		GRN BLU R BLK STEP 2:
		STEP 3: GRN BLU R BLK 4 3 2 1

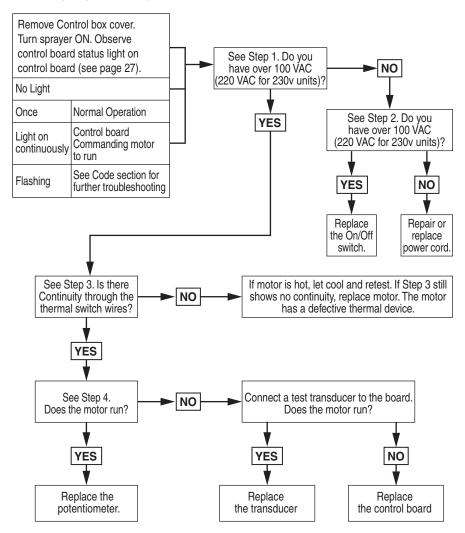
Problem	What to Check	How to check
		6.Perform Field Short Test: Test at large 4-pin motor field connector. There should not be continuity from pin 4, the ground wire, and any of the remaining 3 pins. If motor field connector tests fail, replace motor.
		7.Reconnect motor connector(s) to control board socket(s). Connect power, turn ON/OFF switch ON and control knob to 1/2 turn clockwise. If motor does not run, replace control board.
Sprayer does not run at all AND Control board status light blinks 6 times repeatedly	Motor is hot or there is a fault in the motor thermal device.	Allow sprayer to cool. If sprayer runs when cool, correct cause of overheating. Keep sprayer in cooler location with good ventilation. Make sure motor air intake is not blocked. If sprayer still does not run, replace motor.
		NOTE: Motor must be cooled down for the test.
		Check thermal device connector (yellow wires) at control board.
		Disconnect thermal device connector from control board socket. Make sure contacts are clean and secure. Measure resistance of the thermal device. If reading is not correct, replace motor.

Problem	What to Check	How to check
Troblem	What to offect	How to check
		Check Motor Thermal Switch: Unplug thermal wires. Set meter to ohms. Meter should read 100k ohms.
		Reconnect thermal device connector to control board socket. Connect power, turn sprayer ON and control knob 1/2 turn clockwise. If sprayer does not run, replace control board.
Basic electrical problems	Motor leads are securely fastened and properly mated	Replace loose terminals; crimp to leads. Be sure terminal are firmly connected. Clean circuit board terminals. Securely reconnect leads.
	Motor armature commutator for burn spots, gouges or extreme roughness.	Remove motor and have motor shop resurface commutator if possible.

Electrical cont...

Sprayer Will Not Run

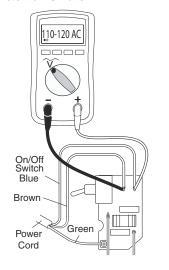
(See following page for steps)



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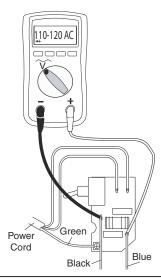
Step 1:

Plug Power cord in and turn switch ON. Connect probes to ontrol board. Turn meter to AC Volts.



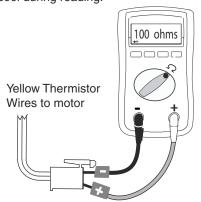
Step 2:

Plug Power cord in and turn switch ON. Connect probes to control board. Turn meter to AC Volts



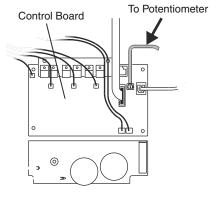
Step 3:

Check motor thermal switch. Unplug yellow wires. Meter should read 100 ohms. NOTE: Motor should be cool during reading.



Step 4:

Disconnect potentiometer. Plug power cord in and turn switch ON.



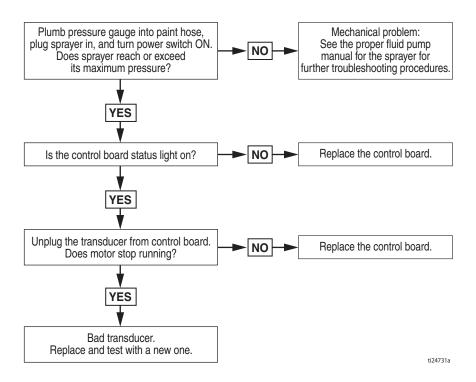
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Electrical cont...

Sprayer Will Not Shut Off

- Perform Pressure Relief Procedure, page 12. Leave prime valve open (down) and turn ON/OFF switch OFF.
- Remove control box cover so the control board status light can be viewed if available.

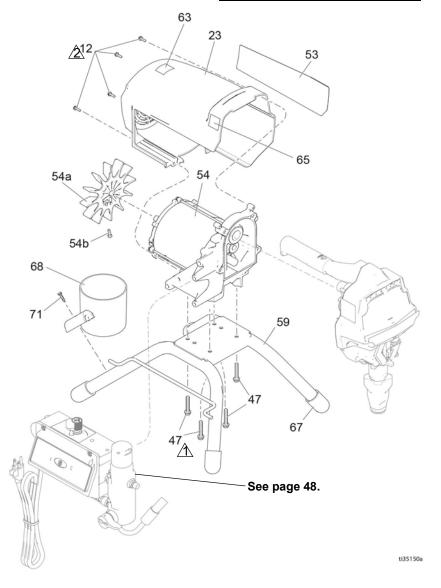
Troubleshooting Procedure



490/495/395EU Stand Sprayers

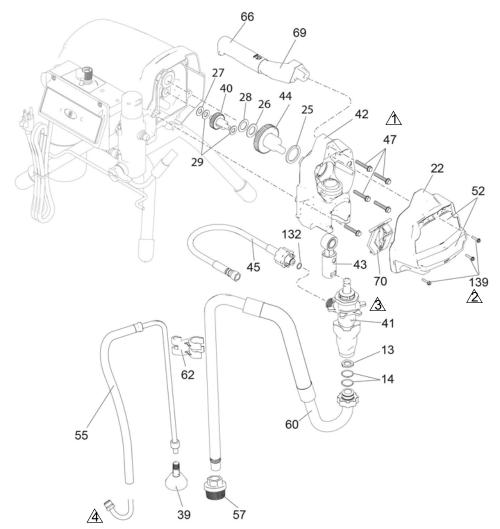
490/495/395EU Stand Sprayers

Ref.	Torque
Λ	140-160 in-lb (15.8 - 18.1 N•m)
<u>^</u> 2	30-35 in-lb (3.4 - 4.0 N•m)



490/495/395EU Stand Sprayers

Ref.	Torque
1	140-160 in-lb (15.8 - 18.1 N•m)
2	30-35 in-lb (3.4 - 4.0 N•m)
3	Hammer Tight
4	20-30 ft-lb (33.9 - 40.7 N•m)



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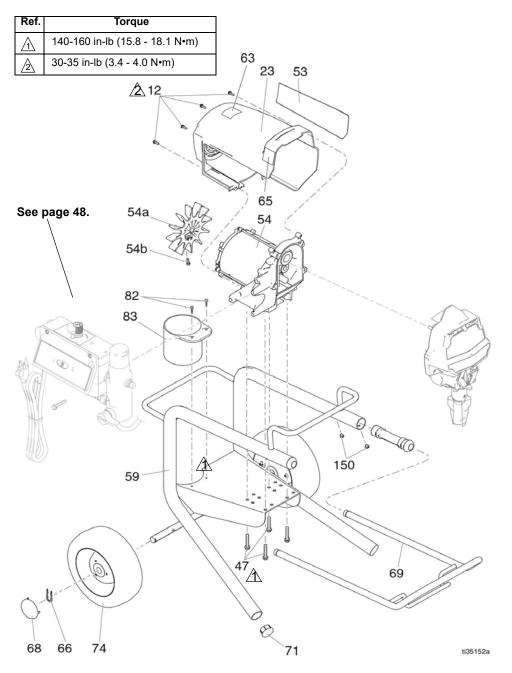
490/495/395EU Stand Sprayers

490/495/395EU Stand Sprayers Parts List

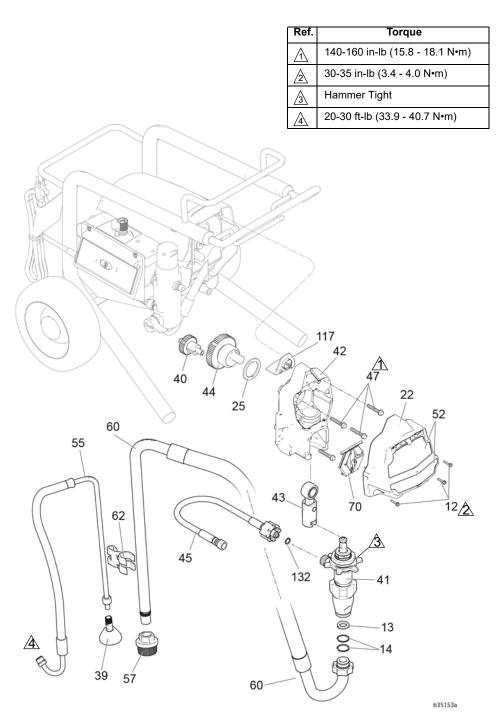
Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
12	117501	SCREW, mach, hex washer hd	4	54		MOTOR, includes 54a, 54b	1
13	115099	WASHER, hose	1		287805	490/495/395EU	
14	117559	O-ring	2		287807	595	
22		•		54a	15D088	FAN, motor	1
	17C541	COVER, front, painted		54b	115477	SCREW, mach, torx,	1
23	287900	SHIELD, motor,	1			painted	
25	180131	painted <i>includes 12</i> BEARING, thrust	1	55	246381	HOSE, drain, stand,	1
26	107434	BEARING, thrust	1			includes 39,62	
20 27	116073	WASHER, thrust	1	57	246385	STRAINER, 7/8-14 unf	1
28	116073	WASHER, thrust	1	59	15E823	FRAME, standmount	1
29	116074	BEARING, thrust	2	60	246386	KIT, hose suction,	
33	206994	FLUID, TSL (not	1			includes 13, 14, 57, 62	
00	200001	shown)	'	61	See page	GUN, spray (not	1
34 ▲	See page	CARD, medical alert	1		47	shown)	
· . <u> </u>	47	(not shown)	•	62	276888	CLIP, drain line	1
39	241920	DEFLECTÓR, threaded	1	63▲	See page 47	LABEL, warning	1
40	249194	GEAR, reducer	1	65▲	See page	LABEL, warning	1
41	240104	PUMP, displacement,	1		47		
71		PC	'	66	116139	GRIP, handle	1
	17C487	North America		67	15G857	CAP, leg	4
	17C488	Asia/ANZ/Japan		68	287903	CUP, suction/drain	1
	17C489	Europe		69	287072	HANDLE, sprayer,	1
42	24W817	HOUSING, drive, PC,	1			includes 47, 66	
42	240017	includes 12, 47, 70	ı	70	17C483	COVER, pump rod	1
43	24W640	ROD, connecting, PC	1	71	122667	SCREW, drill, hex	1
44	24X020	KIT, repair, crankshaft,	1			washer head	
	247(020	includes 25	'	108	115523	GAUGE, pressure,	1
45	24W830	KIT, hose, cpld, PC,	1			fluid, not shown (on	
.0	2	includes 132	•			select models)	
46	See page	HOSE, cpld, 1/4 in. x	1	132	16H137	PACKING, O-ring	1
	47	50 ft (not shown)	•	139	127914	SCREW, mach, slot,	3
47	117493	SCRÈW, mach, hex	9			hex	
		washer hd		2069	94 FLUID,	TSL, 8 oz. (not shown)	1
52	See page	LABEL, front,	1				
	47	upper/lower				safety labels, tags, and	'
53	See page 47	LABEL, side	1	card	s are availa	able at no cost.	

490/495/595 Lo-Boy Sprayers

490/495/595 Lo-Boy Sprayers



490/495/595 Lo-Boy Sprayers



490/495/595 Lo-Boy Sprayers

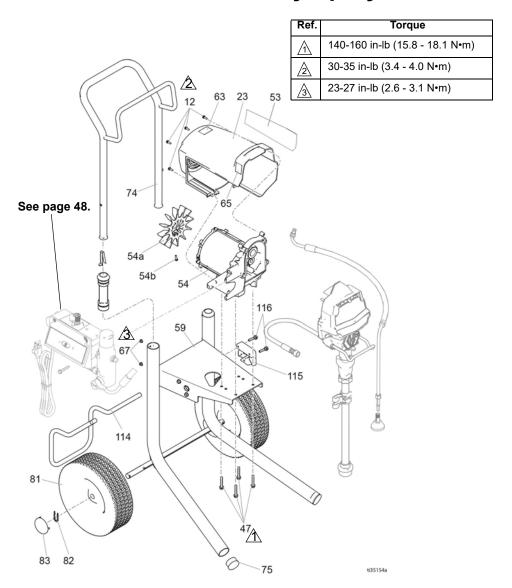
490/495/595 Lo-Boy Sprayers Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
12	117501	SCREW, mach, hex washer hd	4	54		MOTOR, includes 54a, 54b	1
13	115099	WASHER, hose	1		287805	Models 490/495	
14	117559	O-ring	2		287807	Model 595	
22	17C541	COVER, front, painted	1	54a	15D088	FAN, motor	1
23	287900	SHIELD, motor,	i	54b	115477	SCREW, mach, torx,	1
	_0.000	painted <i>includes</i> 12	•			painted	
25	180131	BEARING, thrust	1	55	246381	HOSE, drain, stand,	1
26	107434	BEARING, thrust	1			includes 39,62	
27	116073	WASHER, thrust	1	57	246385	STRAINER, 7/8-14 unf	
28	116074	WASHER, thrust	1	59	246250	FRAME, cart, lo	1
29	116079	BEARING, thrust	2	60	246386	KIT, hose suction,	
33	206994	FLUID, TSL (not	1	0.4	0	includes 13, 14, 57, 62,	
	0	shown)		61	See page	GUN, spray (not	1
34▲	See page	CARD, medical alert	1	62	47 276888	shown) CLIP, drain line	1
39	241920	(not shown) DEFLECTOR,	1			LABEL, warning	1
39	241920	threaded	ı	03▲	47	LABEL, waiting	'
40	249194	GEAR, reducer	1	65▲	See page	LABEL, warning	1
41		PUMP, displacement,	1		47		_
		PC		66	15B999	CLIP, retaining	2
	17C487	North America		68	104811	CAP, hub	2
	17C488	Asia, ANZ, Japan		69	287488	HANDLE, assembly, lo	1
42	24W817	HOUSING, drive, PC,	1	70	470400	cart	4
40	0.414/0.40	includes 12, 47, 70		70	17C483	COVER, pump, rod	1
43	24W640	ROD, connecting, PC	1	71	107310	PLUG, tubing	2
44		KIT, repair, crankshaft,	1	74	195766	WHEEL, semi	2
	24X020	includes 25 Models		82	122667	pneumatic SCREW, drill, hex	2
	24/10/20	490/495/395EU		02	122007	washer head	
	24X021	Model 595		83	15B870	CUP, suction/drain	1
45	24W830	KIT, hose, cpld, PC,	1	117	15G447	PLUG, shield painted	1
10	2111000	includes 132	'	132	16H137	PACKING, O-ring	1
46	See page	HOSE, cpld, 1/4 in. x	1	139	127914	SCREW, mach, slot,	3
	47	50 ft (not shown)	•	100	121317	hex	J
47	117493	SCRÈW, mach, hex	8	150	109032	SCREW, pan hd	4
		washer hd		2069		TSL, 8 oz. (not shown)	1
52		LABEL, front,	1		· ·,	, 2 == ()	•
50	47	upper/lower		≜ Re	placement	safety labels, tags, and	,
53		LABEL, side	1			able at no cost.	
	47						

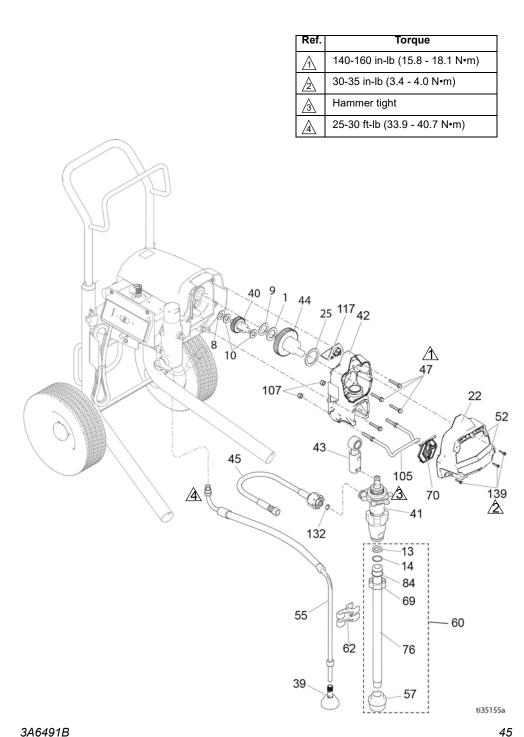
NOTES

490/495/595/395EU Hi-Boy Sprayers

490/495/595/395EU Hi-Boy Sprayers



490/495/595/395EU Hi-Boy Sprayers



490/495/595/395EU Hi-Boy Sprayers

490/495/595/395EU Hi-Boy Sprayers Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
12	117501	SCREW, mach, hex	4	55	287952	HOSE, drain, includes 39	1
13 14 22 23	115099 103413 17C541 287900	washer hd WASHER, hose O-ring COVER, front, painted SHIELD, motor, painted includes 12	1 1 1	57 59 60	246385 17C485 17C992	STRAINER, 7/8-14 unf FRAME, cart, hi KIT, stinger tube, includes 13,14, 57, 69, 76, 84	1
25	180131	BEARING, thrust	1	61	See page 47	GUN, spray (not shown)	1
26 27 28	107434 116073 116074	BEARING, thrust WASHER, thrust WASHER, thrust	1 1 1	62 63▲	276888	CLIP, drain line LABEL, warning	1 1
29 33	116079 206994	BEARING, thrust FLUID, TSL (not	2 1	65▲		LABEL, warning	1
34▲ 39 40 41	See page 47 241920 249194	shown) CARD, medical alert (not shown) DEFLECTOR, threaded GEAR, reducer PUMP, displacement,	1 1 1 1	67 69 70 74 75 76	109032 15E813 17C483 287489 108691	SCREW, pan hd NUT, jam COVER, pump rod HANDLE PLUG, tubing TUBE, suction	4 1 1 1 2
42 43	17C487 17C488 17C489 24W817	PC North America Asia/ANZ/Japan Europe HOUSING, drive, PC, includes 12, 47, 70 ROD, connecting, PC	1	81 82 83 84 105 107	106062 15B999 104811 15B652 17C990 111040	WHEEL CLIP, retaining CAP, hub WASHER, suction HANGER, pail NUT, lock, insert, nylon	2 1 2 2 2 1 1 2
44	24X020	KIT, repair, crankshaft, includes 25 Models 395EU/490/495	1	114 115	15D281 15C982	HANGER, stand (on select models) CAM, cart (on select	1
45	24X021 24W830	Model 595 KIT, hose, cpld, PC, includes 132	1	116	114531	models) SCREW, mch, hex (on select models)	4
46	47	HOSE, cpld, 1/4 in. x 50 ft (not shown)	1	117 122	15G447 118852	PLUG, tubing SCREW, thd forming (on select models, not	1 3
47 52	117493 See page	SCREW, mach, hex washer hd LABEL, front,	8 1	123	287253	shown) KIT, tool box <i>includes</i>	1
53		upper/lower LABEL, side	1	132	16H137	122 (on select models, not shown) PACKING, O-ring	1
54	47	MOTOR, includes 54a, 54b	1		127914	SCREW, mach, slot, hex	3
	287805 287807	490/495/395EU 595		2069	994 FLUID,	TSL, 8 oz. (not shown)	1
54a 54b	15D088 115477	FAN, motor SCREW, mach, torx, painted	1		eplacement available at	t safety labels, tags, and c i no cost.	ards

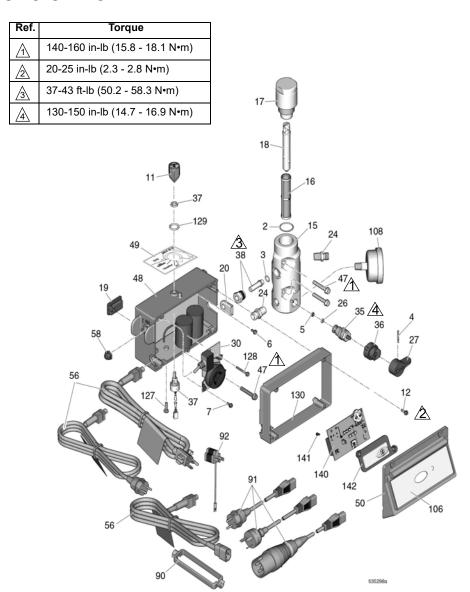
Accessories and Labels

Accessories and Labels

	Ref. 34		Ref. 52 Label.				
Sprayer Model	Card, Medical Alert	Ref. 46 Hose, 1/4 in. x 50 ft	Front, Upper/ Lower	Ref. 53 Label, Side	Ref. 61 Gun, Spray	Ref. 63 Label, Warning	Ref. 65 Label, Warning
826243 826244 826245	222385#	826079	17E947/17E945	17E948	826252	15H085#	195793 &
826246 826247 826248	222385#	826079	17E947/17E949	17E951	826252	15H085#	195793 &
826249 826250	222385#	826079	17E947/17E952	17E954	826252	15H085#	195793 &
17E852 17E853 17E854	222385#	240794	17E944/17E945	17E946	17Y042	15H085#	195793 &
17E855 17E856 17E857	222385#	240794	17E944/17E949	17E950	17Y042	15H085#	195793 &
17E858 17E859	222385#	240794	17E944/17E952	17E953	17Y042	15H085#	195793 &
17E864 17E865	222385#	240794	17E967/17E969	17E970	17Y043		16G596 🗸
17E871 17E872 17E873 17E874 17E875 17E870	222385#	240794	17E967/17E949	17E971	17Y043		16G596 🗸
17E876 17E877 17E878	222385#	240794	17E967/17E952	17E972	17Y043		16G596 ✔
17E887	17A134 💠	240794	17E944/17E945	17E946	17Y044	15H087 @	195792 @
17E890	17A134 *	240794	17E944/17E949	17E950	17Y044	15H086 *	195792 @
17E889 17E891 17E892	17A134 *	240794	17E944/17E949	17E950	17Y044	15H087 @	195792 @
17E896 17E897	17A134 💠	240794	17E944/17E952	17E953	17Y044	15H087 @	195792 @
288526 - Kit, accessory, hopper							
# – English,	. Spanish. F	rench			@ – Asia	a/ANZ	
	n, Chinese,				✓ – Euro	-	
& – North A				* – Japan			
▲Replacen	ment safety	labels, tag	s, and cards are a	available a	at no cost		

Control Box

Control Box

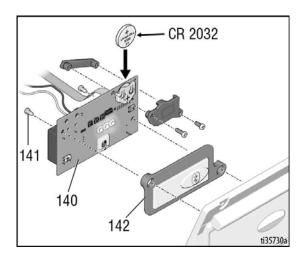


Control Box Parts List

	Part	Description	Qty.	Ref.	Part 17Z261	Description 120V, 595 models,	Qty.
2	117828	PACKING, o-ring	1		172201	US/Japan <i>includes</i> 19	
3	111457	PACKING, o-ring	1		17Z262	230V	
4	111600	PIN, grooved	1		17Z263	110V. UK	
5	277364	GASKET, seat, valve	1	49	17P731	LABEL. pressure.	1
6	120405	SCREW, mach, Phillips,	5			adjustment, w/FastFlush	
7	115100	pan hd	1	50	17Y556	COVER. control.	1
7	115498	SCREW, slot, hex, wash	ı			BlueLink, includes 106	
11	116167	KNOB, potentiometer	1	56		CORD, power	1
12	110107	SCREW. mach. hex	4		253367	US, 490/495 models	
12		washer hd	7		253371	US, 595 models	
	117501	1/2". 120V models.			253378	Japan	
	117001	US/Japan			253373	Multicord, Asia/ANZ	
	17Z216	1-1/2", 110V UK and 230V			253369	CEE 7/7	
		models			253370	Multicord, Europe	
15		MANIFOLD, fluid	1	58	195428	BOOT, toggle	1
	15G455	Models without pressure		90	195551	RETAINER, plug, adapter	
		gauge .				Multicord models	2
	15T811	Models with prs gauge				CEE 7/7 models	1
16		FILTER, fluid	1	91		CORD SET, adapter	1
	246425	30 mesh		٠.	253368	UK	•
	246384	60 mesh, original			242001	Europe	
	246382	100 mesh			242005	Australia	
	246383	200 mesh			287121	Italy, Denmark, Sweden	
17	287902	KIT, repair, filter cap	1		17N232	India	
		includes 18		92	244285	ADAPTER, Japan	1
18	15B071	INSERT, filter	1	106		LABEL, BlueLink	1
19	15G562	BUSHING, control box	1	108	115523	GAUGE, pressure, fluid	1
20	15B120	GROMMET, transducer	1	.00	110020	(on select models)	
24	162453	NIPPLE, (1/4 npsm x 1/4	2	127	120165	SCREW, mach, Phillips,	1
		npt)				pan hd	
26	15E022	SEAT, valve	1	128	120406	SCREW, mach, hex	1
27	187625	HANDLE, valve, drain	1			washer hd	
30		BOARD, filter	1	129	158674	O-RING, packing	1
	287911	120V, GFI, US/Japan		130	17Z189	SPACER, box, control,	1
	287912	110V, UK				110V UK and 230V	
	287913	230V		4.40		models only	
35	239914	VALVE, drain <i>includes 5,</i>	1	140	•	BOARD, control, BlueLink	
		26		141		SCREW, mach, pan hd	2
36	224807	BASE, valve	1		17Y405	LENS, BlueLink	1
37	17D888	POTENTIOMETER, adj,	1			+, 230V models only	1
		pressure with nut		(not	shown)	055.7/7	
38	243222	TRANSDUCER, prs	1			CEE 7/7	
47	447400	control, includes 3				Multicord, IEC-320	
47	117493	SCREW, mach, hex washer hd	4		se battery		
40	+		1			ards (48 & 140) are a match	
48	‡	BOX, control board with	ı		าเ separaเ unction.	ed some BlueLink features	WIII
		battery* includes 6, 7, 11, 19, 30, 37, 49, 58, 127,		HOLI	uriction.		
		128, 129, 140					
	17Z260	120V, 490/495 models,					
		US/Japan <i>includes 19</i>					
		•					

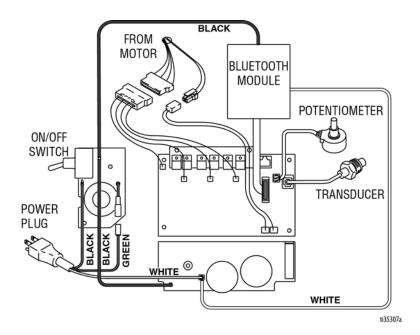
Battery Replacement

Battery Replacement



Wiring Diagrams

110/120V

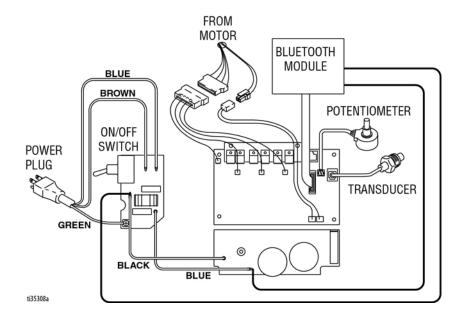


Wiring Diagrams

230V

NOTICE

Heat from inductor coil of filter board may destroy wire insulation that comes in contact with it. Exposed wires could cause shorts and component damage. Bundle and tie loose wires so none lay in contact with inductor coil on the filter board.



Technical Specifications

Technical Specifications

490/495/595/395EU					
	US	Metric			
Sprayer					
Maximum fluid working pressure .	3300 psi	228 bar, 22.8 MPa			
Maximum Delivery					
395EU/490	0.54 gpm	2.0 lpm			
495	0.60 gpm	2.3 lpm			
595	0.70 gpm	2.6 lpm			
Maximum Tip Size					
395EU/490	0.023	0.023			
495	0.025	0.025			
595	0.027	0.027			
Fluid Outlet npsm	1/4 in.	1/4 in.			
Cycles					
395EU/490/495	620 per gallon	164 per liter			
595	540 per gallon	143 per liter			
Generator Minimum					
395EU/490	350	00 W			
495	3750 W				
595	400	00 W			
Power Requirements					
395EU/490 1Ø, 50/60 Hz	110–120V, 12 A	A / 220–240V, 7 A			
495 1Ø, 50/60 Hz	110–120V, 15 A	A / 220–240V, 9 A			
595 1Ø, 50/60 Hz	110–120V, 15 A	A / 220–240V, 9 A			
Dimensions					
Height					
Stand	18.5 in.	47.0 cm			
Lo-Boy	22.5 in.	57.2 cm			
Hi-Boy	28.25 in. (Handle down) 38.25 in. (Handle up)	71.8 cm (Handle down) 97.2 cm (Handle up)			
Length					
Stand	16 in.	40.6 cm			
Lo-Boy	26.5 in.	67.3 cm			
Hi-Boy	23.25 in.	59.1 cm			
Width					
Stand	14 in.	35.6 cm			
Lo-Boy	20 in.	50.6 cm			
Hi-Boy	20.5 in.	52.1 cm			

Technical Specifications

490/495/595/395EU					
	US	Metric			
Weight					
Stand					
395EU	45.1 lb.	20.5 kg			
490 / 495	34 lb.	15 kg			
Lo-Boy					
395EU	63 lb.	29 kg			
490 / 495	59.1 lb.	26.8 kg			
595	70 lb.	31.8 kg			
Hi-Boy					
395EU	66 lb.	30 kg			
490 / 495	66.1 lb.	30 kg			
595	73 lb.	33 kg			
Noise** (dBa) @ 70 psi (0.48 N	Pa, 4.8 bar)				
Sound pressure	90	dBa			
Sound power	100 dBa				
Materials of Construction					
Wetted materials on all models	PTFE, acetal, leather, UHM	zinc- and nickel-plated carbon steel, nylon, stainless steel, PTFE, acetal, leather, UHMWPE, aluminum, tungsten carbide, polyethylene, fluoroelastomer, urethane			

Notes

Sound power measured per ISO-3744.

All trademarks or registered trademarks are the property of their respective owners.

^{*} Startup pressures and displacement per cycle may vary based on suction condition, discharge head, air pressure, and fluid type.

^{**} Sound pressure measured 3 feet (1 meter) from equipment.

Compliance

Radio Frequency Approvals

Transmitter Frequency (all models): 2.4GHz Transmitter Power (all models): +8dBm NOTE: FCC/IC Notice (all models) Contains FCC ID: QOQBGM13P Contains IC: 5123A-BGM13P

The enclosed device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:(1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment is not granted protection against harmful interference and cannot cause interference on systems properly authorized.

This equipment has the board BGM13P22A with homologation code ANATEL 01330-19-03402.



CALIFORNIA PROPOSITION 65



WARNING: This product can expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

NOTES

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Graco Standard Warranty

Graco Standard Warranty

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

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

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

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 Standard Warranty

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

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 1-800-690-2894 to identify the nearest distributor.



All written and visual data contained in this document reflects the latest 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 3A6491

Graco Headquarters: Minneapolis International Offices: Belgium, China, Japan, Korea

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Www.graco.com
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