Electric Airless Sprayers

3A4203B

For professional use only.

Not approved for use in explosive atmospheres and hazardous locations. For the application of architectural paints and coatings.

LP 555/655, S2550 Models:

3300 psi (22.7 MPa, 227 bar) Maximum Working Pressure



Important Safety Instructions

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

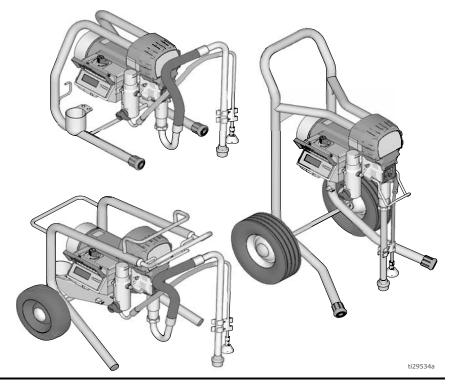






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Models

	VAC	Model	Stand	Lo-Boy	Hi-Boy
		LP555	17M197		17M198
	230 Schuko	LP655		17M201	17M200
CE		S2550			17M215
6		LP555	17M208		17M209
	110 UK	LP655			17M211
		S2550			17M220

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.

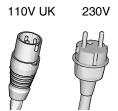
WARNING



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 110V or 230V circuit and has a grounding plug similar to the plugs illustrated below.



- Only connect the product to an outlet having the same configuration as the plug.
- Do not use an 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 (2.5mm²) 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.

VARNING



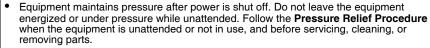
High-pressure spray is able to inject toxins into the body and cause serious bodily injury. In the event that injection occurs, get immediate surgical treatment.



- 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.



- 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.



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:



Do not spray flammable or combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment.



Paint or solvent flowing through the equipment is able to result in static electricity. Static electricity creates a risk of fire or explosion in the presence of paint or solvent fumes. 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 antistatic 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
- Keep area clean and free of paint or solvent containers, rags, and other flammable materials.
- Know the contents of the paints and solvents being sprayed. Read all Material Safety Data Sheets (MSDS) and container labels provided with the paints and solvents. Follow the paint and solvents manufacturer's safety instructions.

Fire extinguisher equipment shall be present and working.

Warnings

MARNING



EQUIPMENT MISUSE HAZARD

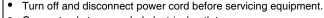
Misuse can cause death or serious injury.

- 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.



ELECTRIC SHOCK HAZARD

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



- 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.



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.

MARNING



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

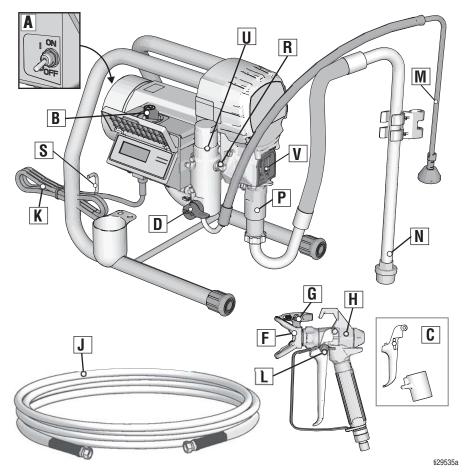
CALIFORNIA PROPOSITION 65

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

Component Identification

Component Identification

Stand Models

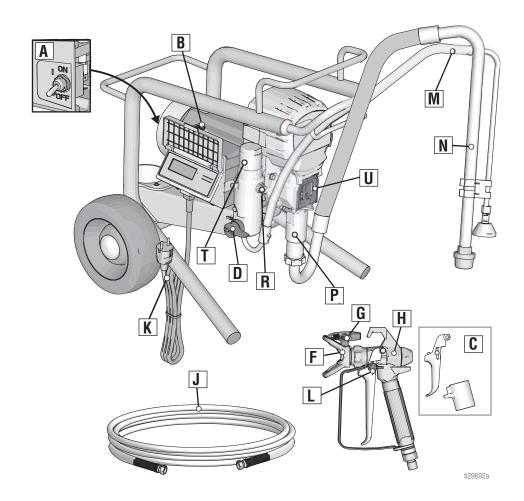


Α	ON/OFF Switch
В	Pressure Control
С	Two-Finger Trigger Conversion Kit
D	Prime Valve
F	Tip Guard
G	Spray Tip
Н	Gun
J	Airless Hose
K	Power Cord

L	Trigger Lock
M	Drain Tube
Ν	Fluid Intake
Р	Pump
R	Fluid Outlet
S	Power Cord Wrap
U	Filter (inside manifold)
V	Finger Guard / TSO Fill Point
	Model/Serial Tag (Not shown, located
	on bottom of unit.)

Component Identification

Lo-Boy Models

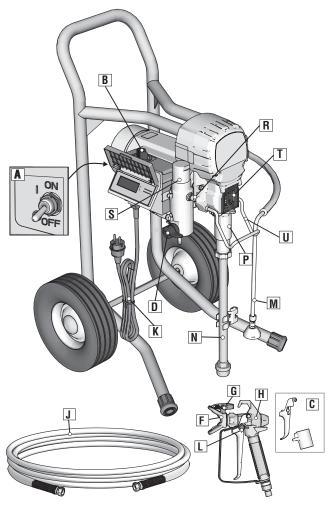


Α	ON/OFF Switch
В	Pressure Control
С	Two-Finger Trigger Conversion Kit
D	Prime Valve
F	Tip Guard
G	Spray Tip
Н	Gun
J	Airless Hose
K	Power Cord

L	Trigger Lock
M	Drain Tube
N	Fluid Intake
Р	Pump
R	Fluid Outlet
Т	Filter (inside manifold)
U	Finger Guard / TSO Fill Point
	Model/Serial Tag (Not shown, located
	on bottom of unit.)

Component Identification

Hi-Boy Models



ti29537a

Α	ON/OFF Switch
В	Pressure Control
С	Two-Finger Trigger Conversion Kit
D	Prime Valve
F	Tip Guard
G	Spray Tip
Н	Gun
J	Airless Hose
K	Power Cord

L	Trigger Lock
Ν	
N	Fluid Intake
F	Pump
F	Fluid Outlet
S	Filter
T	Finger Guard / TSO Fill Point
Ţ	Pail Hook
	Model/Serial Tag (Not shown, located
	on bottom of unit.)

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 includes a ground wire with an appropriate ground contact.

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

- 120V units require 100-120 VAC, 50/60 Hz, 13A, 1 phase.
- 230V units require 230 VAC, 50/60 HZ, 8A, 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.

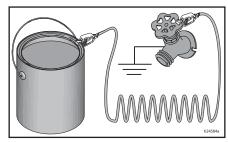
Pails

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

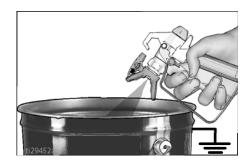
Do not place pail on a non-conductive surface such as paper or cardboard which interrupts grounding continuity.



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

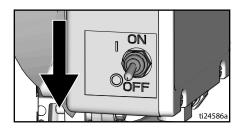


Follow the Pressure Relief Procedure whenever you see this symbol.

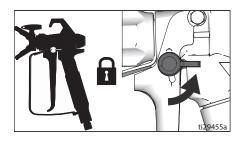


This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashed fluid and moving parts, follow the **Pressure Relief Procedure** whenever sprayer is stopped and before sprayer is cleaned or checked, and before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

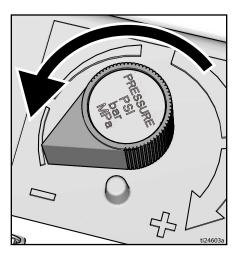
 Turn the ON/OFF switch to OFF position. Wait 7 seconds for power to dissipate.



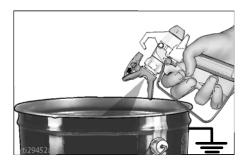
Engage the trigger lock.



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



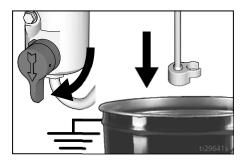
4. Hold a metal part of the gun firmly to a grounded metal pail. Trigger the gun to relieve pressure.



5. Engage the trigger lock.

Pressure Relief Procedure

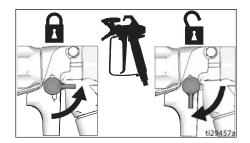
 Put drain tube in a pail. Turn prime valve down. Leave prime valve in down (drain) position until you are ready to spray again.



- 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.

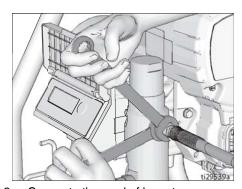


Setup

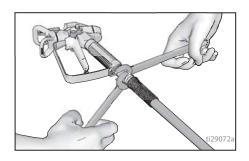


When unpacking sprayer for the first time or after long term storage perform setup procedure. When first setup is performed remove shipping plug from fluid outlet.

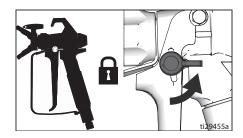
Connect airless hose to fluid outlet. Use wrenches to tighten securely.



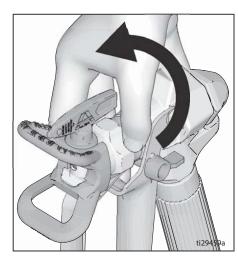
2. Connect other end of hose to gun.



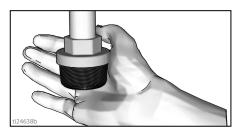
- 3. Use wrenches to tighten securely.
- 4. Engage trigger lock.



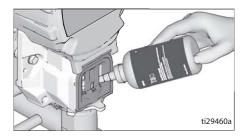
5. Remove tip guard.



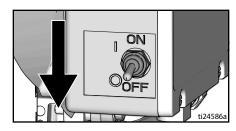
 When unpacking sprayer for the first time remove packaging materials from inlet strainer. After long term storage check inlet strainer for clogs and debris.



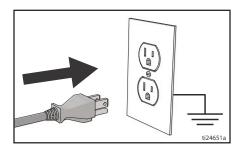
- 7. Fill throat packing nut with TSO to prevent premature packing wear. Do this daily or each time you spray.
 - a. Place the TSO bottle nozzle into the top center opening in the grill at the front of the sprayer.
 - b. Squeeze bottle to dispense enough TSO to fill the space between the pump rod and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



8. Make certain ON/OFF switch is OFF.

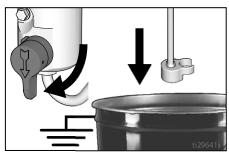


9. Plug power supply cord into a properly grounded electrical outlet.



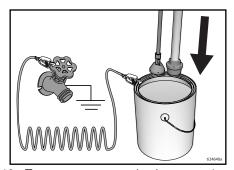
Setup

10. Turn prime valve down.



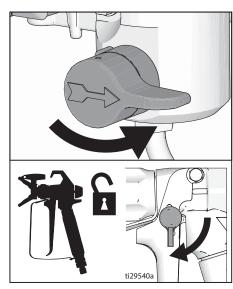
 Place fluid intake with drain tube in grounded metal pail partially filled with flushing fluid. See Grounding, page 11.

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. Use water for latex paint, or mineral spirits for oil-based paint.



- 12. Turn pressure control to lowest setting.
- 13. Turn ON/OFF switch to **ON** position.
- Increase pressure 1/2 turn to start motor.
 Allow fluid to flush through sprayer for one minute.

15. Turn prime valve horizontal. Disengage trigger lock.

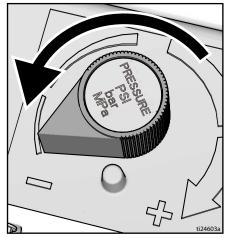


- Hold a metal part of the gun firmly to a grounded metal pail. Trigger gun and flush until clean.
- 17. Turn ON/OFF switch to **OFF** position.
- Engage trigger lock.
- 19. After flushing storage fluid out of the sprayer empty pail. Replace fluid intake with drain tube in grounded metal pail partially 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 for one minute.
- 23. Turn ON/OFF switch to **OFF** position.
- 24. Engage trigger lock.
- 25. Sprayer is now ready to start up and spray.

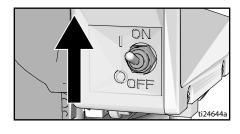
Startup



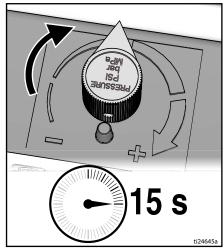
- Perform Pressure Relief Procedure, page 12.
- 2. Turn pressure control to lowest pressure.



- 3. Place fluid intake in paint pail. Place drain tube in waste pail.
- 4. Turn ON/OFF switch to ON position.



 Turn pressure control 1/2 turn to start motor. Allow paint to circulate through sprayer until paint flows out the drain tube.



6. Turn prime valve horizontal. Disengage trigger lock.



Startup

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.



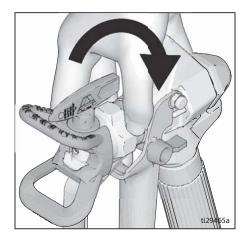






High-pressure spray is able to inject toxins into the body and cause serious bodily injury. Do not stop leaks with hand or rag.

- 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 19. For gun assembly instructions, see separate gun manual.



Spray Tip Installation





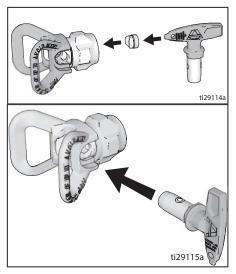




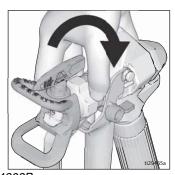


To avoid serious injury from skin injection do not put your hand in front of the spray tip when installing or removing the spray tip and tip guard.

- Perform Pressure Relief Procedure, page 12.
- 2. Use spray tip to insert seal into tip guard. Insert Spray Tip.

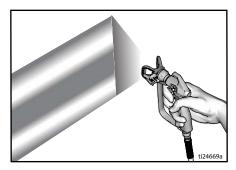


3. Screw assembly onto gun. Tighten.

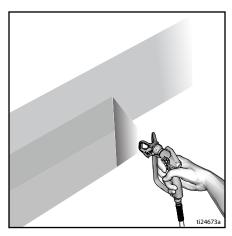


Spray

 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 Tip Clog

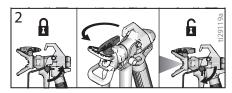
In the event that particles or debris clog the spray tip, this sprayer is designed with a reversible spray tip that quickly and easily clears the particles without disassembling the sprayer.

 Engage trigger lock. Rotate spray tip to unclog position. Disengage trigger lock. Trigger gun at waste area to clear clog.



NOTE: If spray tip is difficult to rotate when turning to the unclog position, perform **Pressure Relief Procedure**, page 12, then turn Prime/Spray valve to spray position and repeat step 1.

 Engage trigger lock. Rotate spray tip back to spray position. Disengage trigger lock and continue spraying.

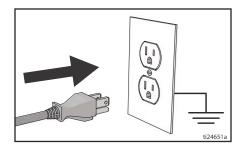


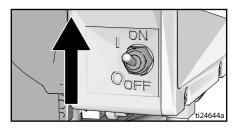
Digital Display

Some models are equipped with a digital display. This section explains how to use this feature.

Pressure Display

- 1. Perform Pressure Relief Procedure, page 12.
- Plug sprayer into grounded outlet. Turn ON/OFF switch to **ON** position.



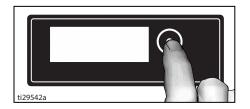


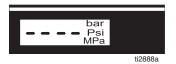
 The pressure is displayed. Dashes indicate pressure is less than 200 psi (14 bar, 1.4 MPa).



4. Press and release display button to display total running hours.

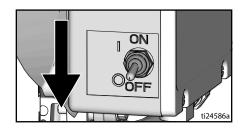
5. Press and hold display button to change pressure units (psi, bar, or MPa).



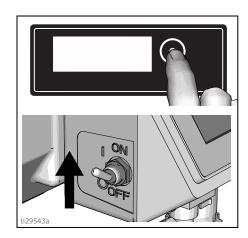


Stored Data Display

Turn ON/OFF switch to OFF position.



 To enter Stored Data Mode, press and hold display button and turn ON/OFF switch to **ON** position.



 Sprayer model number is displayed followed by Data Point 1 which is the unit power on time in hours.

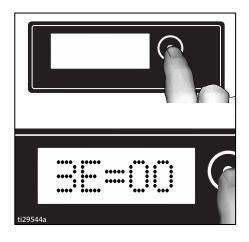




 Press display button again to display Data Point 2. Motor run time in hours is displayed.



 Press display button again to display Data Point 3. This will be the last error code.



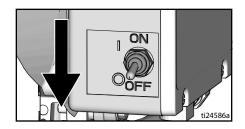
- 6. To erase last error code, press and hold display button.
- Press display button again to display Data Point 4. The software revision is displayed.



8. Press display button again to return to Data Point 1.

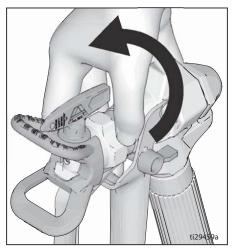


Turn ON/OFF switch to OFF position to exit Stored Data.

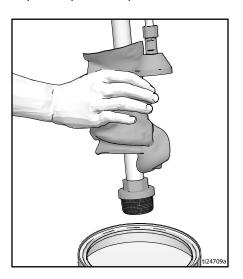


Cleanup

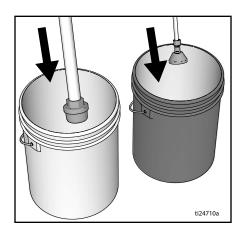
- Perform Pressure Relief Procedure, page 12.
- Remove tip guard and Spray Tip. For additional information, see separate gun manual.



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.



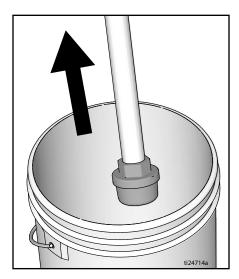
- 5. Turn prime valve horizontal.
- Increase pressure 1/2 turn to start motor. Hold gun against paint pail. Disengage trigger lock. Trigger gun and increase pressure until the pump runs steady and flushing fluid appears.



- 7. Stop triggering gun. Move gun to waste pail, hold gun against pail, trigger gun to thoroughly flush system.
- While continuing to trigger gun, turn prime valve down. Then, release gun trigger. Allow flushing fluid to circulate until fluid comes out of drain tube clear.

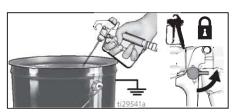


9. Raise fluid intake above flushing fluid.

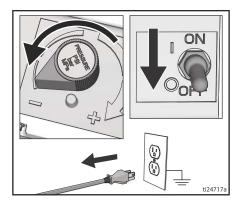


10. Turn prime valve horizontal. Trigger gun into flushing pail to purge fluid from hose.

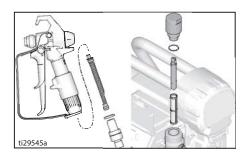
11. Engage trigger lock.



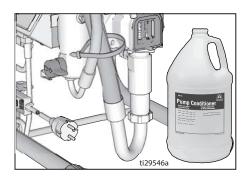
 Turn pressure control knob to the lowest pressure setting and turn ON/OFF switch to OFF position. Disconnect power to sprayer.



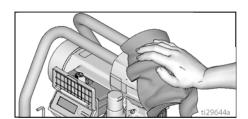
 Remove filter from gun and sprayer if installed. Clean and inspect. Install filter. See separate gun manual.



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



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



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.











Activity	Interval
Activity	iiiteivai
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 TSO by adding through TSO fill point.	Daily or each time you spray
Inspect motor brushes for wear. Brushes must be 1/2 in. (13mm) minimum length. NOTE: Brushes do not wear at the same rate on both sides of motor. Check both brushes.	Every 1000 gallons (3785 liters)
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.	

Mechanical/Fluid Flow













- Follow Pressure Relief Procedure, page 13, 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
For units with display: E=0X is displayed.	Fault condition exists.	Determine fault correction from Electrical , page 30.
For units with no display: Control board status light is blinking or the light is off and there is power to the sprayer.		
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.
	Loose motor brushes and terminals.	Tighten terminal screws. Replace brushes if leads are damaged.
	Worn motor brushes. (Brushes must be 1/2 in. [13mm] minimum length).	Replace brushes.
	Broken and misaligned motor brush springs. Rolled portion of spring must rest squarely on top of brush.	Replace spring if broken. Realign spring with brush.
	Motor brushes are binding in brush holders.	Clean brush holders, remove carbon dust with a small cleaning brush. Align brush lead with slot in brush holder to assure free vertical brush movement.
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.

Problem	What to Check If check is OK, go to next check	What to Do When check is not OK, refer to this column
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 Cleanup, page 23.
	Fluid supply is low or empty.	Refill fluid supply. Prime pump. See pump manual. Check fluid supply often to prevent running pump dry.
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 13.

- 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. View digital display or 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 7 seconds after disconnecting power cord for stored electricity to dissipate.

Problem	What to Check	How to check
Sprayer does not run at all	See flow chart, page 36.	
AND		
Display is blank		
OR		
Control board status light never lights		
Sprayer does not shut off	Control board.	Replace control board.
AND		
Display shows E=02		
OR		
Control board status light blinks 2 times repeatedly		

Problem	What to Check	How to check
Sprayer does not run at all AND Display shows E=02	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.
OR Control board status light blinks 2 times repeatedly		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.
Sprayer does not run at all AND	Check transducer or transducer connections (control board is not	Turn ON/OFF switch OFF and disconnect power to sprayer.
Display shows E=03	detecting a pressure signal).	Check transducer and connections to control board.
OR Control board status light blinks 3 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.

Problem	What to Check	How to check
Problem	What to Check	How to check
Sprayer does not run at all AND Display shows E=04 OR Control board status light blinks 4 times repeatedly	Check voltage supply to the sprayer (control board is detecting a multiple voltage surges).	Turn ON/OFF switch OFF and disconnect power to sprayer. Locate a good voltage supply to prevent damage to electronics.
Sprayer does not run at all AND Display shows E=05 OR 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 control, there is a problem with motor or control board, or motor amp draw is excessive.	1.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. 2.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.Connect a DC voltmeter across the two motor wires – red & black spin the motor fan and check for a voltage to register on the meter. If voltage is not present, check brushes. If OK, replace motor. If voltage is present, go to step 5. 5.Perform a spin test by connecting a 9 –12 Volt battery to the motor leads. Motor leads may vary in style and size. Locate the two wires going to the carbon brushes normally Red and Black. Motor should spin when battery is connected to the motor leads. BLACK (-) PELLOW 9-VOLT BATTERY 124722a

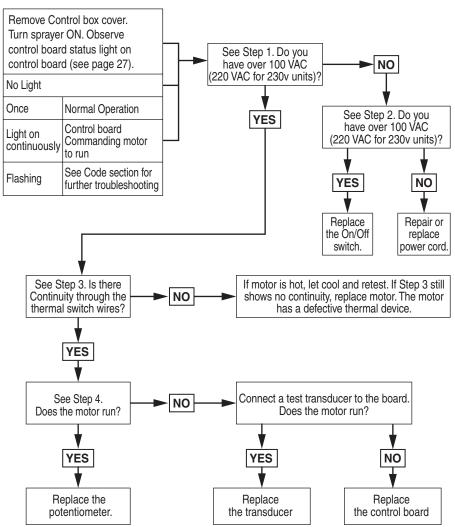
Problem	What to Check	How to check
Problem	What to Check	6.Connect the Red and Black leads from the motor to an Ohm meter. Rotate the motor while checking for opens. If an open is found replace the motor. BLACK (-) RED (+) YELLOW 1:24723a 7.Check motor thermal protection. Motor should be at ambient temperature for this test. Connect the yellow leads from the motor to
		an Ohm meter. Meter should indicate continuity or Ohms depending on the motor type.

		T
Problem	What to Check	How to check
		Use an Ohm meter to check motor for shorts. Connect (–) meter lead to motor case. Move the (+) meter lead to each motor wire. Meter should read open on all wires.
		GROUND YELLOW
		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 Display shows E=06 OR 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.
Sprayer does not run at all AND Display shows E=08 OR Control board status light blinks 8 times repeatedly	Check voltage supply to the sprayer (incoming voltage too low for sprayer operation).	Turn ON/OFF switch OFF and disconnect power to the sprayer.

Problem	What to Check	How to check
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.
	For loose motor brush lead connections and terminals.	Tighten terminal screws. Replace brushes if leads are damaged.
	Brushes must be 1/2 in. [13mm] minimum. NOTE: Brushes do not wear at the same rate on both sides of motor. Check both brushes.	Replace brushes.
	Broken or misaligned motor brush springs. Rolled portion of spring must rest squarely on top of brush.	Replace spring if broken. Realign spring with brush.
	Motor brushes may be binding in brush holders.	Clean brush holders. Remove carbon with small cleaning brush. Align brush leads with slot in brush holder to assure free vertical brush movement.
	Motor armature commutator for burn spots, gouges or extreme roughness.	Remove motor and have motor shop resurface commutator if possible.

Sprayer Will Not Run

(See following page for steps)

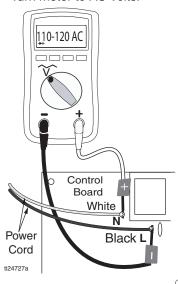


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Troubleshooting

Step 1:

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



Step 3:

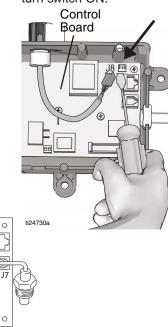
Check motor thermal switch. Unplug yellow wires. Meter should read continuity.

NOTE: Motor should be cool during reading.

Yellow Thermistor
Wires to motor

Step 4:

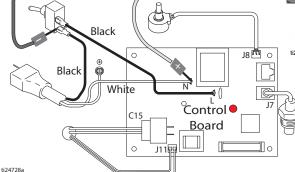
Disconnect potentiometer. Plug power cord in and turn switch ON.



Step 2:

Plug power cord in and turn switch ON. Connect Probes to ON/OFF switch.

Turn meter to AC Volts.



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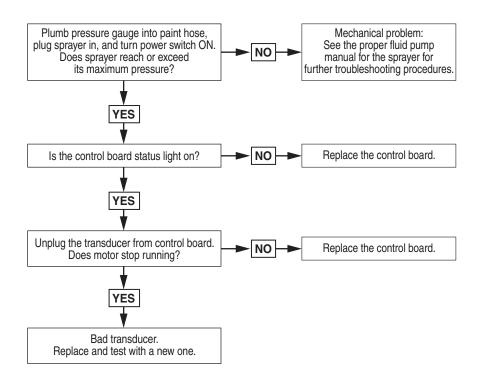
110-120 AC

Troubleshooting

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

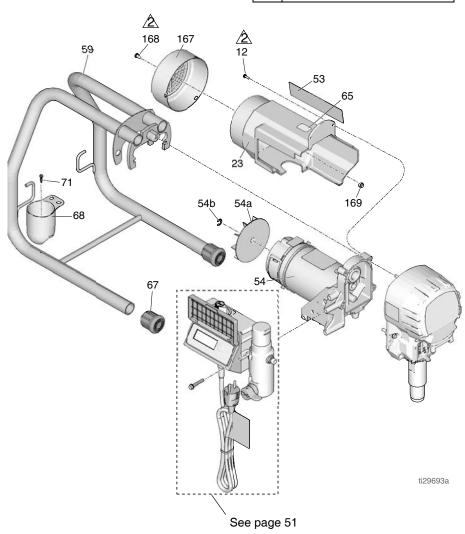


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Stand Sprayer Parts

Models 17M197, 17M208

Ref.	Torque
2	30-35 in-lb (3.4 - 4.0 N•m)

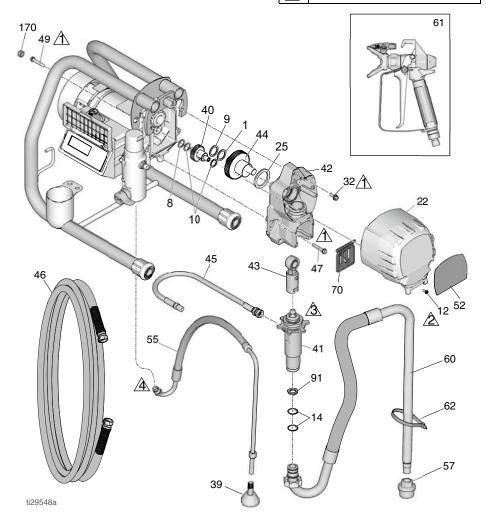


Stand Sprayer Parts

Stand Sprayer Parts

Models 17M197, 17M208

Ref.	Torque
<u>1</u>	140-160 in-lb (15.8 - 18.1 N•m)
2	30-35 in-lb (3.4 - 4.0 N•m)
3	Hammer tight
<u>/</u> 4\	25-30 ft-lb (33.9 - 40.7 N•m)



Stand Sprayer Parts

Stand Sprayers Parts List

Models 17M197, 17M208

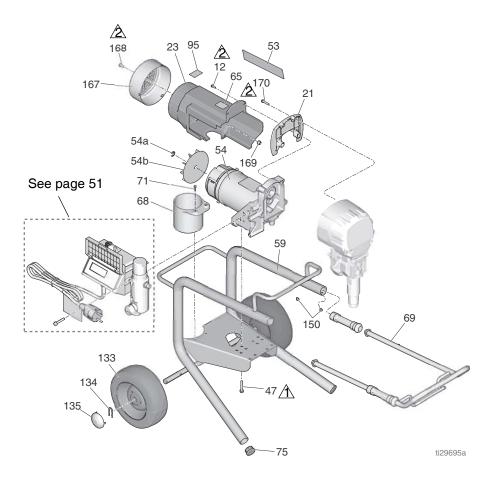
Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1	107434	BEARING, thrust	1	53	**	LABEL, side	1
8	116073	WASHER, thrust	1	54*		MOTOR, includes 54a,	1
9	116074	WASHER, thrust	i			54b	
10	116079	BEARING, thrust	2		287015	110/120V	
12	117501	SCREW, mach, hex	5		287060	230V	
	117001	washer hd	J	54a	118716	RING, retaining	1
14	117559	O-RING	2	54b	248189	FAN, motor, includes	1
22	17R007	COVER, front, painted	1		0.4000.4	54a	
23	17N272	SHIELD, motor, includes 167,168,169	1	55	246381	HOSE, drain, stand, includes 39,62	1
25	180131	BEARING, thrust	1	57	187651	STRAINER, 3/4"-16	1
32	113796	SCREW, flanged, hex	i	59	17M429	FRAME, standmount	1
34▲		CARD. medical alert	1	60	17N275	KIT, hose suction	1
·		(not shown)	•			includes 14, 57, 91	
39	241920	DEFLECTÓR,	1	61	**	GUN, spray	1
		threaded		62	276888	CLIP, drain line	1
40	249194	GEAR, reducer	1		16G596	LABEL, warning	1
41		PUMP, displacement	1	67	331048	CAP, leg	2
	17M991	North America/Europe		68	195177	CUP, suction/drain	1
	17M990	Asia/ANZ/South		70	17C484	COVER, pump rod	1
		America		71	122667	SCREW, drill, hex	1
42	17N294	HOUSING, drive, PC,	1	0.4	445000	washer head	
40	0.41410.40	includes 47		91	115099	WASHER, hose	1
43	24W640	ROD, connecting, PC	1	167	331786	COVER, fan	1
44		GEAR, crankshaft,	1	168	136192	SCREW	1
	047000	includes 25		169	136217	NUT	1
	24X020 24X021	555 models 655/S2550 models		170	17N291	PLUG, hole, 5/8"	2
4.5				**	Pump Flu	ıids	
45	15M671 **	KIT, hose, cpld	1				
46	^^	HOSE, cpld, 1/4 in. x 50 ft	1			ish kit order 287735	
47	117493	SCREW, mach, hex	4	** Se	ee addend	um for part number	
41	117433	washer hd	4			. 5	
49	115495	SCREW, mach, hex	2			t Danger and Warning la	
	. 10 100	washer hd	_	iags,	, and cards	s are available at no cos	ι.
52	**	LABEL, front	1				

Lo-Boy Sprayer Parts

Lo-Boy Sprayer Parts

Models 17M201

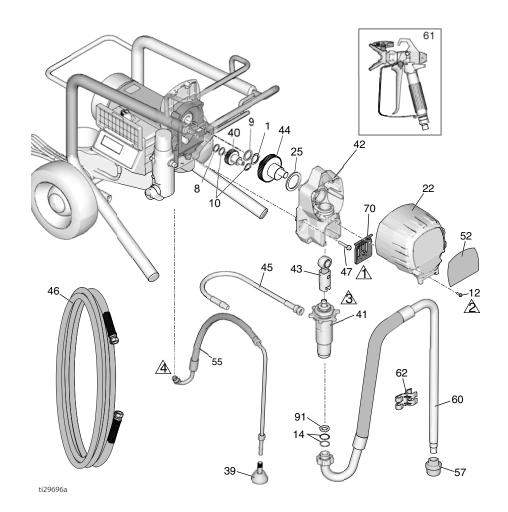
Ref.	Torque
1	140-160 in-lb (15.8 - 18.1 N•m)
2	30-35 in-lb (3.4 - 4.0 N•m)



Lo-Boy Sprayer Parts

Models 17M201

Ref.	Torque
\triangle	140-160 in-lb (15.8 - 18.1 N•m)
2	30-35 in-lb (3.4 - 4.0 N•m)
<u> </u>	Hammer tight
4	25-30 ft-lb (33.9 - 40.7 N•m)



Lo-Boy Sprayer Parts

Lo-Boy Sprayers Parts List

Models 17M201

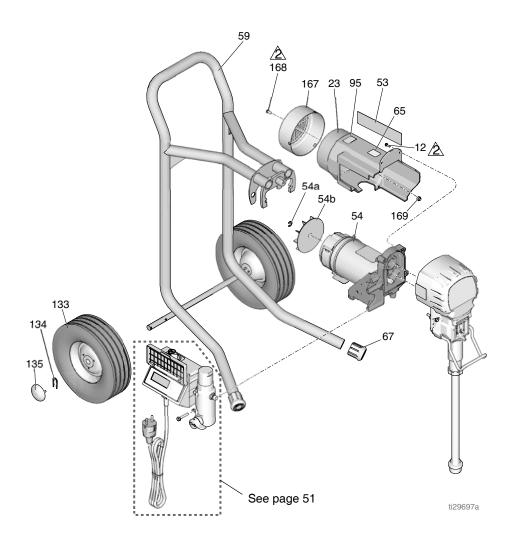
Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1	107434	BEARING, thrust	1		287060	MOTOR, 230V	
8	116073	WASHER, thrust	1			includes 54a, 54b	
9	116074	WASHER, thrust	1	54a		RING, retaining	1
10	116079	BEARING, thrust	2	54b	248189	FAN, motor, includes	1
12	117501	SCREW, mach, hex	5			54a	
		washer hd		55	246381	HOSE, drain, stand, includes 39,62	1
14	117559	O-ring	2	57	187651	STRAINER, 3/4"-16	1
21	17M897	PLUG, shield, painted	1	59	246250	FRAME, cart, lo	1
22	17R007	COVER, front, painted		60	17N275	KIT, hose, suction set	1
23	17N272	KIT, shield, motor,	1	00	.,,,,	includes 14, 57, 91	•
		painted, includes 167,		61	**	GUN, spray	1
0.5	100101	168, 169		62	276888	CLIP, drain line	1
25	180131	BEARING, thrust	1	65▲	16G596	LABEL, warning	1
34▲	179960	CARD, medical alert (not shown)	1	68	15B870	CUP, suction/drain	1
39	241920	DEFLECTOR,	1	69	287488	HANDLE, assembly, lo	1
		threaded	•			cart	
40	249194	GEAR, reducer	1	70	17C484	COVER, pump rod	1
41		PUMP, displacement	1	71	122667	SCREW, drill, hex	2
	17M991	North America/Europe		75	107010	washer head	0
	17M990	Asia/ANZ/South		75 01	107310	PLUG, tubing	2
		America		91	115099	WASHER, hose	1
42	24W817	HOUSING, drive, PC,	1	95	15Y118	LABEL, USA	1
40	0.41410.40	includes 47		133	195766	WHEEL, semi pneumatic	2
43	24W640	ROD, connecting, PC	1	134	15B999	CLIP, retaining	2
44	24X020	GEAR, crankshaft,	1	135	104811	CAP, hub	2
	24X020	<i>includes 25</i> 555 models		150	109032	SCREW, pan hd	4
	24X020 24X021	655/S2550 models		167	331786	COVER, fan	1
45	15M671	HOSE, cpld	1	168	136192	SCREW	i
46	**	HOSE, cpld, 1/4 in. x	1	169	136217	NUT	i
40		50 ft	'	170	17M806	SCREW, hex	2
47	117493	SCREW, mach, hex	8	**	Pump Flu	•	_
		washer hd			•		
52	**	LABEL, front	1	* Foi	motor bru	ısh kit order 287735	
53	**	LABEL, side	1	** Se	ee addend	um for part number	
54*	287015	MOTOR,110V/120V	1			•	
		includes 54a, 54b		$\blacktriangle Re$	placemen	t Danger and Warning la	bels,

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tags, and cards are available at no cost.

17M198, 17M200, 17M209, 17M211

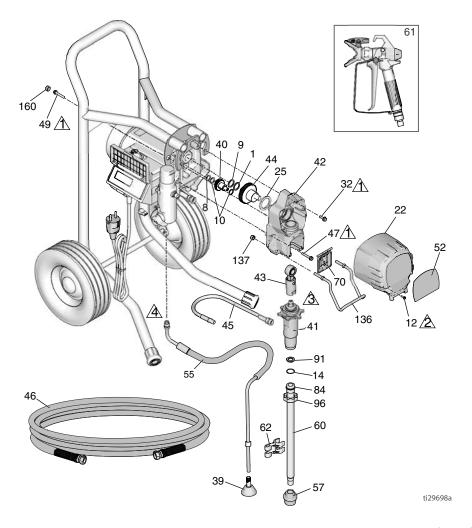
Ref.	Torque
2	30-35 in-lb (3.4 - 4.0 N•m)



Hi-Boy Sprayer Parts

17M198, 17M200, 17M209, 17M211

Ref.	Torque
Λ	140-160 in-lb (15.8 - 18.1 N•m)
2	30-35 in-lb (3.4 - 4.0 N•m)
<u> </u>	Hammer tight
4	25-30 ft-lb (33.8 - 40.6 N•m)



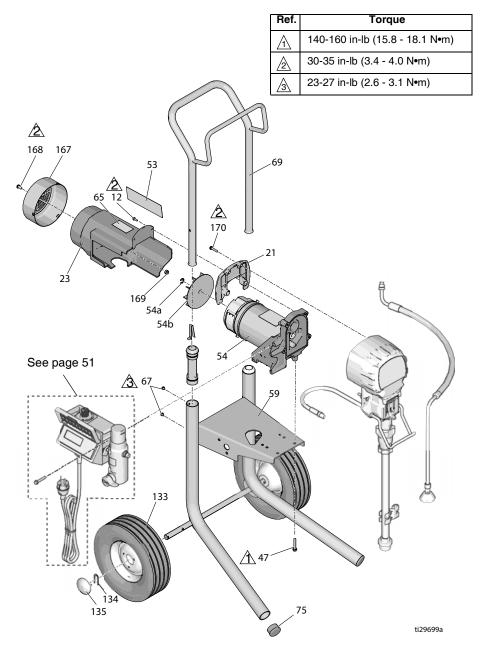
Hi-Boy Sprayers Parts List

17M198, 17M200, 17M209, 17M211

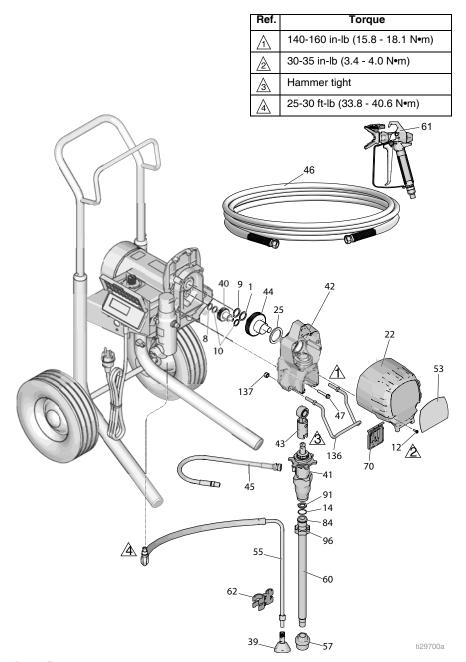
Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1	107434	BEARING, thrust	1	54*		MOTOR, includes 54a,	1
8	116073	WASHER, thrust	1			54b	
9	116074	WASHER, thrust	1		287015	110V	
10	116079	BEARING, thrust	2		287060	230V	
12	117501	SCREW, mach, hex	5	54a	118716	RING, retaining	1
		washer hd	5	54b	248189	FAN, motor, includes 54a	1
14	103413	O-ring	1	55	244240	HOSE, drain, <i>includes</i>	1
22	17R007	COVER, front, painted		55	244240	39	'
23	17N272	KIT, shield, motor, includes 167, 168, 169	1	57	187651	STRAINER, 3/4"-16	1
25	180131	BEARING, thrust	1	59	17M446	FRAME, cart, hi	1
32	113796	SCREW, flanged, hex	1	60	17C949	TUBE, suction, intake	
34▲		CARD, medical alert	1	61	17N201	GUN, spray	1
34	179900	(not shown)	I	62	276888	CLIP, drain line	1
39	241920	DEFLECTOR,	1	65▲	16G596	LABEL, warning	1
	211020	threaded	•	67	331048	CAP, leg	2
40	249194	GEAR, reducer	1	70	17C484	COVER, pump rod	1
41		PUMP, displacement,	1	84	15B652	WASHER, suction	1
		PC		91	115099	WASHER, hose	1
	17M991	North America/Europe		95	15Y118	LABEL, USA	1
	17M990	Asia/ANZ/South		96	15E813	NUT, jam	1
		America		133	106062	WHEEL	2
42	17N294	HOUSING, drive, PC,	1	134	15B999	CLIP, retaining	2
40	0.41410.40	includes 47	_	135	104811	CAP, hub	2
43	24W640	ROD, connecting, PC	1	136	17C990	HANGER, pail	1
44		GEAR, crankshaft, includes 25	1	137	111040	NUT, lock, insert,	2
	24X020	555 models				nylon	
	24X021	655/S2550 models		160	17N291	PLUG, hole, 5/8"	2
45	15M671	HOSE, cpld	1	167	331786	COVER, fan	1
46	**	HOSE, cpld, 1/4 in. x	i	168	136192	SCREW	1
. •		50 ft	•	169	136217	NUT	1
47	117493	SCREW, mach, hex washer hd	4	**	Pump Flu	uids	
49	115495	SCREW, mach, hex	2	* Fo	r motor bru	ısh kit order 287735	
-		washer hd	_			um for part number	
52	**	LABEL, front	1			•	
53	**	LABEL, side	1			t Danger and Warning lal s are available at no cos	

Hi-Boy Sprayer Parts

17M215, 17M220



17M215, 17M220



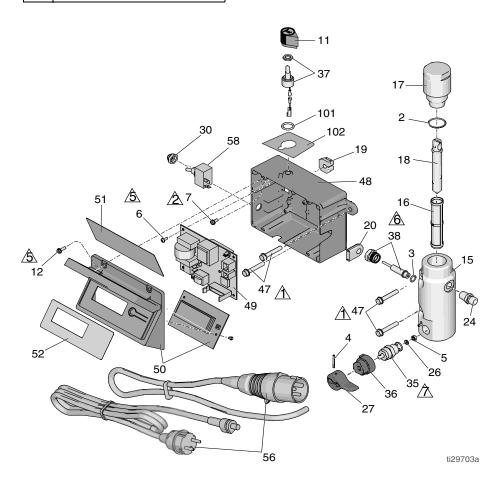
Hi-Boy Sprayers Parts List

Models 17M215, 17M220

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1	107434	BEARING, thrust	1	54a	118716	RING, retaining	1
8	116073	WASHER, thrust	1	54b	248189	FAN, motor, includes	1
9	116074	WASHER, thrust	i			54a	
10	116079	BEARING, thrust	2	55	244240	HOSE, drain, includes	1
12	117501	SCREW, mach, hex	5			39	
		washer hd	J	57	187651	STRAINER, 3/4"-16 unf	1
14	103413	O-ring	1	59	17C485	FRAME, cart, hi	1
21	17M534	SHIELD, housing	1	60	17C949	TUBE, stinger	•
22	17R006	COVER, front	1	61	**	GUN, spray	1
23	17N273	KIT, shield, motor	1	62	276888	CLIP, drain line	1
		includes 167, 168, 169			16G596	LABEL, warning	1
25	180131	BEARING, thrust	1	67	109032	SCREW, pan hd	4
34▲	179960	CARD, medical alert	1	69	287489	HANDLE	1
00	0.44.000	(not shown)		70	17C484	COVER, pump rod	1
39	241920	DEFLECTOR, threaded	1	75	108691	PLUG, tubing	2
40	249194	GEAR, reducer	1	84	15B652	WASHER, suction	1
41	17M992	PUMP, displacement,	1	91	115099	WASHER, hose	1
41	17101332	PC	'	96	15E813	NUT, jam	1
42	24W817	HOUSING, drive, PC,	1	133	106062	WHEEL	2
		includes 47	•	134	15B999	CLIP, retaining	2
43	24W640	ROD, connecting, PC	1	135	104811	CAP, hub	2 2
44		GEAR, crankshaft,	1	136	17C990	HANGER, pail	1
		includes 25		137	111040	NUT, lock, insert,	2
	24X020	555 models		137	111040	nylon	2
	24X021	S2550 models		167	331786	COVER, fan	1
45	15M671	HOSE, cpld, PC	1	168	136192	SCREW	i
46	**	HOSE, cpld, 1/4 in. x	1	169	136217	NUT	i
		50 ft		170	17M806	SCREW, #10 hex	2
47	117493	SCREW, mach, hex washer hd	8	**	Pump Flu	·	_
52	**	LABEL, front	1		•		
53	**	LABEL, side	i	* Foi	motor bru	ısh kit order 287735	
54*		MOTOR, includes 54a,		** Se	ee addendi	um for part number	
J 4		54b	•				
	287015	110V / 120V				t Danger and Warning la	
	287060	230V		tags,	and cards	s are available at no cos	t.

Control Box

Ref.	Torque
Λ	140-160 in-lb (15.8 - 18.1 N•m)
2	30-35 in-lb (3.4 - 4.0 N•m)
<u>\$</u>	20-25 in-lb (2.3 - 2.8 N•m)
<u>6</u>	37-43 ft-lb (50.2 - 58.3 N•m)
A	130-150 in-lb (14.7 - 16.9 N•m)



Control Box

Control Box Parts List

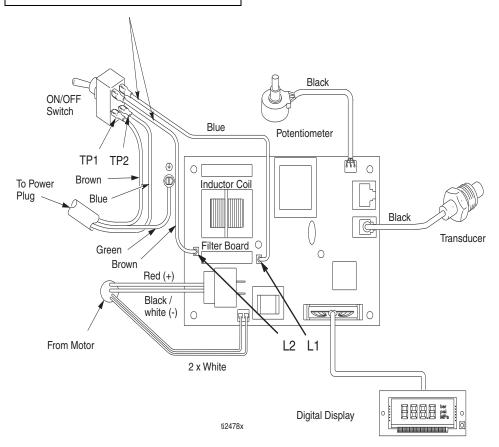
Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
2	117828	PACKING, o-ring	1	37	17D888	POTENTIOMETER,	1
3	111457	PACKING, o-ring	1			assembly	
4	111600	PIN, grooved	1	38	243222	TRANSDUCER,	1
5	277364	GASKET, seat, valve	1			pressure control,	
6	115494	SCREW, mach,	6	47	117400	includes 3	4
		Phillips, pan hd		47	117493	SCREW, mach, hex washer hd	4
7	115498	SCREW, mch,	1	48	276868	BOX, control	1
		slot/hex, wash hd		49	270000	CONTROL, board	1
11	116167	KNOB, potentiometer	1	73	555 mode	•	'
12	117501	SCREW, mach, hex	4		246378	110V	
	4-04	washer hd			246380	230V	
15	15G455	MANIFOLD, fluid	1			50 models:	
16	4=5044	FILTER, fluid	1		17N505	110V	
	17P314	30 mesh			24X751	230V	
	17P315	60 mesh, original		50	17N274	DIGITAL, display	2
	17P316	100 mesh		50	1/11/2/7	includes 51, 52	_
17	287902	CAP, manifold,	1	51	17M694	LABEL, control	1
18	15B071	includes 18 INSERT, filter	4	52	17M698	LABEL, control,	1
19	15B071	BUSHING, motor wire	1			display	•
20	15B116	GROMMET.	1	56		CORD, power	1
20	136120	transducer	ı		110V mo	dels:	
24	162453	NIPPLE, (1/4 npsm x	1		253368	UK plug	
	102 100	1/4 npt)	•		230V mo	<u>dels:</u>	
26	15E022	SEAT, valve	1		253369	CEE 7/7 plug	
27	187625	HANDLE, valve, drain	1	58		SWITCH, toggle	1
30	195428	BOOT, toggle	1		195429	110/120V	
35	239914	VALVÉ, drain,	1		117492	230V,	
		includes 5, 26	•			Europe/Asia/ANZ/UK	
36	224807	BASE, valve	1	101	158674	O-ring, packing	1
				102	17P738	LABEL, control	1

Wiring Diagrams

110/230V

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

LP 555, 655/S2550			
	US	Metric	
Sprayer			
Maximum fluid working pressure	3300 psi	228 bar, 22.8 MPa	
Maximum Delivery (555/5150)	0.54 gpm	2.0 lpm	
Maximum Tip Size (555/5150)	0.023	0.023	
Maximum Delivery (655/8150)	0.60 gpm	2.3 lpm	
Maximum Tip Size (655/8150)	0.025	0.025	
Fluid Outlet npsm	1/4 in.	1/4 in.	
Cycles (555/5105)	700 per gallon	185 per liter	
Cycles (655/8150)	581 per gallon	154 per liter	
Generator Minimum	3000 W	3000 W	
120V, A, Hz (555)	1Ø, 13, 50/60		
120V, A, Hz (655/S2550)	1Ø, 15, 50/60		
220–240V, A, Hz	1Ø, 7, 50/60		
Dimensions			
Height			
Stand	17.8 in.	45.1 cm	
Lo-Boy	22.5 in.	57.2 cm	
Hi-Boy (555/655)	36.5 in.	92.7 cm	
Hi-Boy (S2550)			
Handle up	38.6 in.	98.0 cm	
Handle down	28.3 in.	71.9 cm	
Length			
Stand	16.5 in.	41.9 cm	
Lo-Boy	26.0 in.	66.0 cm	
Hi-Boy	23.0 in.	58.4 cm	
Width			
Stand	14.0 in.	35.6 cm	
Lo-Boy	20.0 in.	50.8 cm	
Hi-Boy	20.5 in.	52.1 cm	
Weight			
Stand	50.0 lb.	22.7 kg	
Lo-Boy	66.0 lb.	30.0 kg	
Hi-Boy (555/655)	69.0 lb.	31.3 kg	
Hi-Boy (S2550)	66.0 lb.	30.0 kg	

Technical Specifications

LP 555, 655/S2550			
	US	Metric	
Noise** (dBa) @ 70 psi (0.48 MPa, 4.8 bar)			
Sound pressure	90 dBa		
Sound power	100 dBa		
Materials of Construction			
Wetted materials on all models	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.

^{*} 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.

