

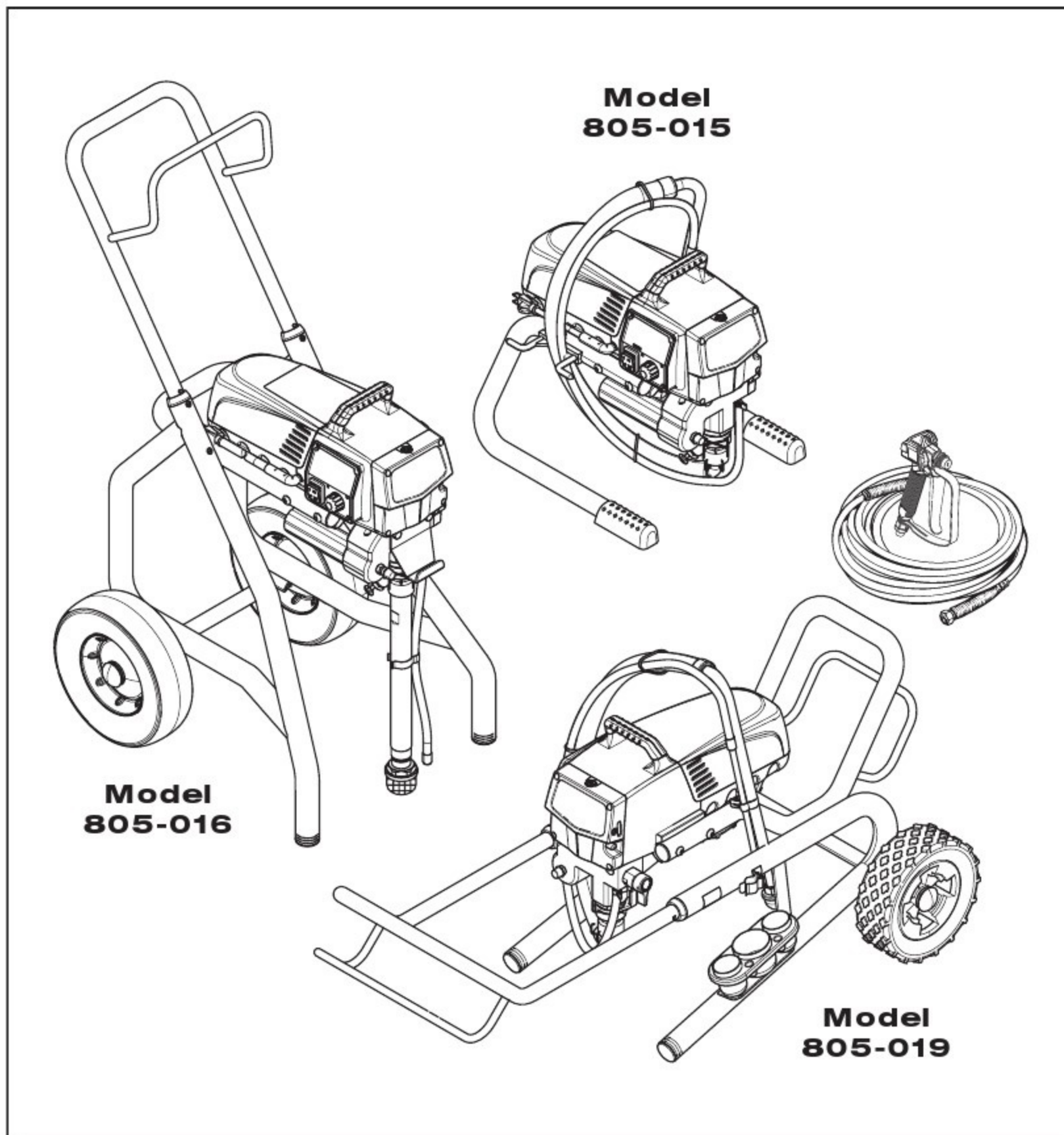


**Owner's Manual**

**Advanced Performance. Total Reliability.**

# **IMPACT 440**

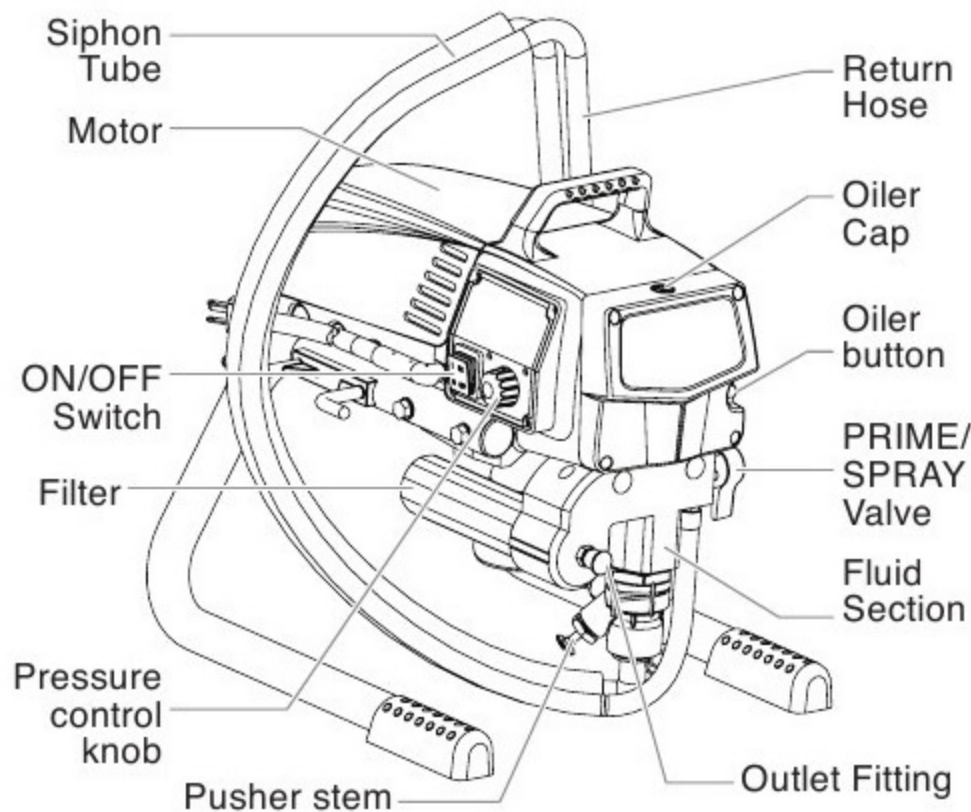
## **Airless Sprayer**





## General Description

This airless sprayer is a precision power tool used for spraying many types of materials. Read and follow this instruction manual carefully for proper operating instructions, maintenance, and safety information.



## Operation



**This equipment produces a fluid stream at extremely high pressure. Read and understand the warnings in the Safety Precautions section at the front of this manual before operating this equipment.**

## Setup

Perform the following procedure before plugging in the power cord of an electric unit.

1. Ensure that the siphon tube and the return hose are attached and secure.
2. Using a wrench, attach a minimum of 50' of 1/4" airless spray hose to the outlet fitting on the sprayer. Tighten securely.
3. Attach an airless spray gun to the spray hose. Using two wrenches (one on the gun and one on the hose), tighten securely.

**NOTE: Do not attach the tip to the spray gun yet. Remove the tip if it is already attached.**



**Make sure all airless hoses and spray guns are electrically grounded and rated at or above the maximum operating pressure range of the airless sprayer.**

4. Make sure the pressure control knob is in its OFF position in the black zone.
5. Make sure the ON/OFF switch is in its OFF position.
6. Remove the fill cap with a straight-slot screwdriver, or a coin. Fill the oil reservoir with one ounce of piston seal lubricant (Piston Lube). Replace oiler cap.
7. Press oiler button 2-5 times to prime the oiler. Press once for every eight hours of usage to lubricate the fluid section.

**IMPORTANT: Never operate unit for more than ten seconds without fluid. Operating this unit without fluid will cause unnecessary wear to the packings.**

8. Fully depress the pusher stem to make sure the inlet ball is free.
9. Make sure the electrical service is 120V, 15 amp minimum.
10. Plug the power cord into a properly grounded outlet at least 25' from the spray area.

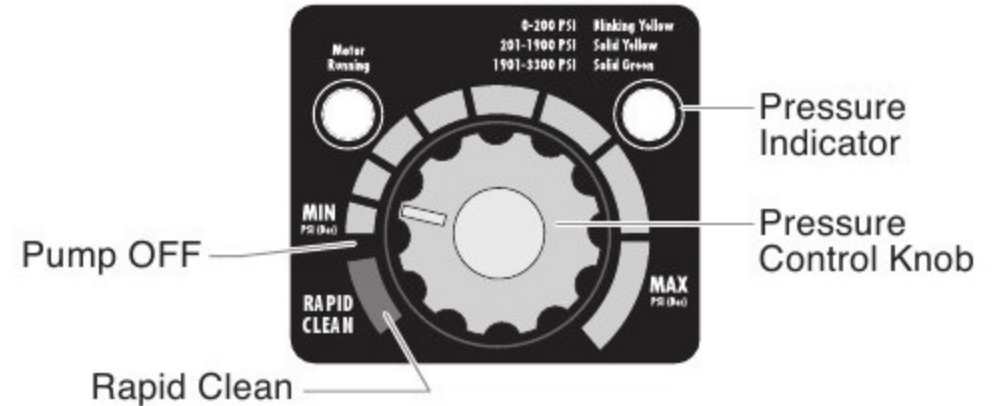
**IMPORTANT: Always use a minimum 12 gauge, three-wire extension cord with a grounded plug. Never remove the third prong or use an adapter.**

## Preparing a New Sprayer

If this sprayer is new, it is shipped with test fluid in the fluid section to prevent corrosion during shipment and storage. This fluid must be thoroughly cleaned out of the system with mineral spirits before you begin spraying.

**IMPORTANT: Always keep the trigger lock on the spray gun in the locked position while preparing the system.**

1. Place the siphon tube into a container of mineral spirits.
2. Place the return hose into a metal waste container.
3. Set the pressure to minimum by turning the pressure control knob to the "MIN" setting.



4. Move the PRIME/SPRAY valve down to the PRIME position.
5. Turn on the sprayer by moving the ON/OFF switch to the ON position.
6. Allow the sprayer to run for 15-30 seconds to flush the test fluid out through the return hose and into the waste container.
7. Turn off the sprayer by moving the ON/OFF switch to the OFF position.

## Preparing to Paint

Before painting, it is important to make sure that the fluid in the system is compatible with the paint that is going to be used.

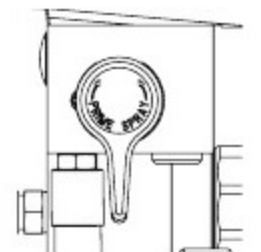
**NOTE: Incompatible fluids and paint may cause the valves to become stuck closed, which would require disassembly and cleaning of the sprayer's fluid section.**

**IMPORTANT: Always keep the trigger lock on the spray gun in the locked position while preparing the system.**

1. Place the siphon tube into a container of the appropriate solvent. Examples of the appropriate solvent are water for latex paint or mineral spirits for oil-based paints.
2. Place the return hose into a metal waste container.
3. Set the pressure to minimum by turning the pressure control knob to the "MIN" setting.
4. Move the PRIME/SPRAY valve down to the PRIME position.



**NOTE: Hold the return hose in the waste container when moving the PRIME/SPRAY valve to PRIME in case the sprayer is pressurized.**

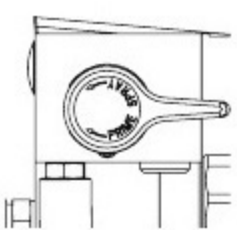


5. Turn on the sprayer by moving the ON/OFF switch to the ON position.
6. Allow the sprayer to run for 15-30 seconds to flush the old solvent out through the return hose and into the metal waste container.
7. Turn off the sprayer by moving the ON/OFF switch to the OFF position.

**NOTE: Make sure that the spray gun does not have a tip or tip guard installed.**



8. Move the PRIME/SPRAY valve up to the SPRAY position.
9. Turn on the sprayer.
10. Unlock the gun by turning the gun trigger lock to the unlocked position.



**Ground the gun by holding it against the edge of the metal container while flushing. Failure to do so may lead to a static electric discharge, which may cause a fire.**



11. Trigger the gun into the metal waste container until the old solvent is gone and fresh solvent is coming out of the gun.
12. Lock the gun by turning the gun trigger lock to the locked position.
13. Set down the gun and increase the pressure by turning the pressure control knob slowly clockwise.
14. Check the entire system for leaks. If leaks occur, follow the "Pressure Relief Procedure" in this manual before tightening any fittings or hoses.
15. Follow the "Pressure Relief Procedure" in this manual before changing from solvent to paint.



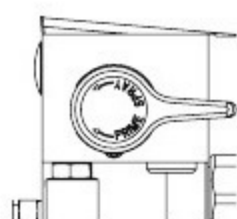
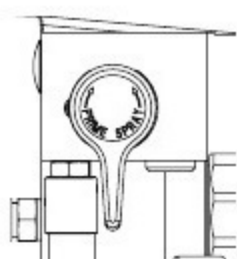
Trigger lock in locked position.



**Be sure to follow the pressure relief procedure when shutting down the sprayer for any purpose, including servicing or adjusting any part of the spray system, changing or cleaning spray tips, or preparing for cleanup.**

## Painting

1. Place the siphon tube into a container of paint.
2. Place the return hose into a metal waste container.
3. Set the pressure to minimum by turning the pressure control knob to the "MIN" setting.
4. Move the PRIME/SPRAY valve down to the PRIME position.
5. Turn on the sprayer by moving the ON/OFF switch to the ON position.
6. Allow the sprayer to run until paint is coming through the return hose into the metal waste container.
7. Turn off the sprayer by moving the ON/OFF switch to the OFF position.
8. Remove the return hose from the waste container and place it in its operating position above the container of paint.
9. Move the PRIME/SPRAY valve up to the SPRAY position.
10. Turn on the sprayer.
11. Unlock the gun by turning the gun trigger lock to the unlocked position.



**Ground the gun by holding it against the edge of the metal container while flushing. Failure to do so may lead to a static electric discharge, which may cause a fire.**



12. Trigger the gun into the metal waste container until all air and solvent is flushed from the spray hose and paint is flowing freely from the gun.
13. Lock the gun by turning the gun trigger lock to the locked position.
14. Turn off the sprayer.
15. Attach tip guard and tip to the gun as instructed by the tip guard or tip manuals.



Trigger lock in locked position.



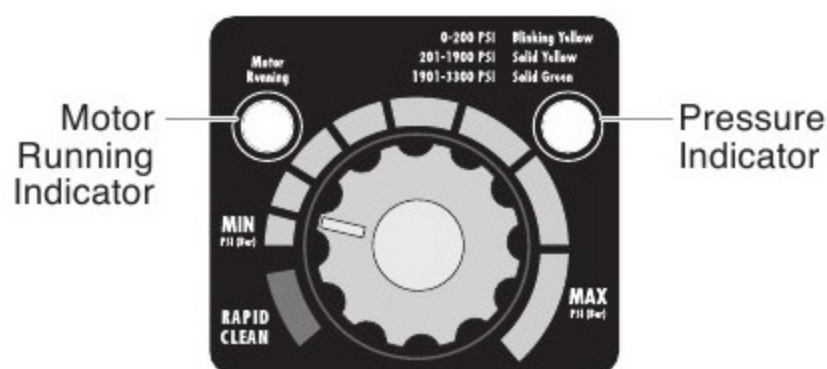
**POSSIBLE INJECTION HAZARD. Do not spray without the tip guard in place. Never trigger the gun unless the tip is in either the spray or the unclog position. Always engage the gun trigger lock before removing, replacing or cleaning tip.**

16. Turn on the sprayer.
17. Increase the pressure by turning the pressure control knob slowly clockwise and test the spray pattern on a piece of cardboard. Adjust the pressure control knob until the spray from the gun is completely atomized. Try to keep the pressure control knob at the lowest setting that maintains good atomization.

**NOTE: Turning the pressure up higher than needed to atomize the paint will cause premature tip wear and additional overspray.**

## Control Panel Indicators

The following is a description of the control panel indicators.



### Pressure Indicator

The pressure indicator shows the current operating pressure of the sprayer. It has three different indications: blinking yellow, solid yellow, and solid green.

### Blinking Yellow

When the pressure indicator is blinking yellow, the sprayer is operating between 0 and 200 PSI. A blinking yellow pressure indicator means:

- The sprayer is plugged in and turned "ON"
- The sprayer is at priming pressure (little or no pressure)
- It is safe to move the PRIME/SPRAY valve between positions
- It is safe to change or replace the spray tip

**NOTE: If the pressure indicator begins blinking yellow when the pressure control knob is set at a higher pressure and the PRIME/SPRAY valve is in the SPRAY position, either the spray tip is worn or the sprayer is in need of service/repair.**

### Solid Yellow

When the pressure indicator is solid yellow, the sprayer is operating between 201 and 1900 PSI. A solid yellow pressure indicator means:

- The sprayer is at the proper pressure setting for spraying stain, lacquer, varnish, and multi-colors
- If the pressure indicator goes to solid yellow when the pressure is set so that it starts at solid green, it indicates one of the following:
  - a. **Tip Wear Indicator** — when spraying with latex or at high pressure the solid yellow appears. This means the tip is worn and needs to be replaced.
  - b. **Tip Too Large** — when a tip that is too large for the sprayer is put in the gun, the pressure indicator will turn from solid green to solid yellow.
  - c. **Fluid Section Wear** — if a solid yellow pressure indicator appears when using a new tip and the pressure is set at maximum, service may be required (worn packings, worn piston, stuck valve, etc...).

### Solid Green

When the pressure indicator is solid green, the sprayer is operating between 1901 and 3300 PSI. A solid green pressure indicator means:

- The sprayer is at the proper pressure setting for spraying oil-based and latex house paints
- The sprayer is operating at peak performance at a high pressure setting

### Motor Running Indicator

The Motor Running indicator is on when the motor is commanded to run. This indicator is used by service centers to troubleshoot motor problems.

### Pressure Relief Procedure



**Be sure to follow the pressure relief procedure when shutting the unit down for any purpose, including servicing or adjusting any part of the spray system, changing or cleaning spray tips, or preparing for cleanup.**

1. Lock the gun by turning the gun trigger lock to the locked position.
2. Turn off the sprayer by moving the ON/OFF switch to the OFF position.
3. Turn the pressure control knob counterclockwise to its OFF position in the black zone.
4. Unlock the gun by turning the gun trigger lock to the unlocked position.
5. Hold the metal part of the gun firmly to the side of a metal container to ground the gun and avoid a build up of static electricity.
6. Trigger the gun to remove any pressure that may still be in the hose.
7. Lock the gun by turning the gun trigger lock to the locked position.
8. Move the PRIME/SPRAY valve down to the PRIME position.



Trigger lock in locked position.

