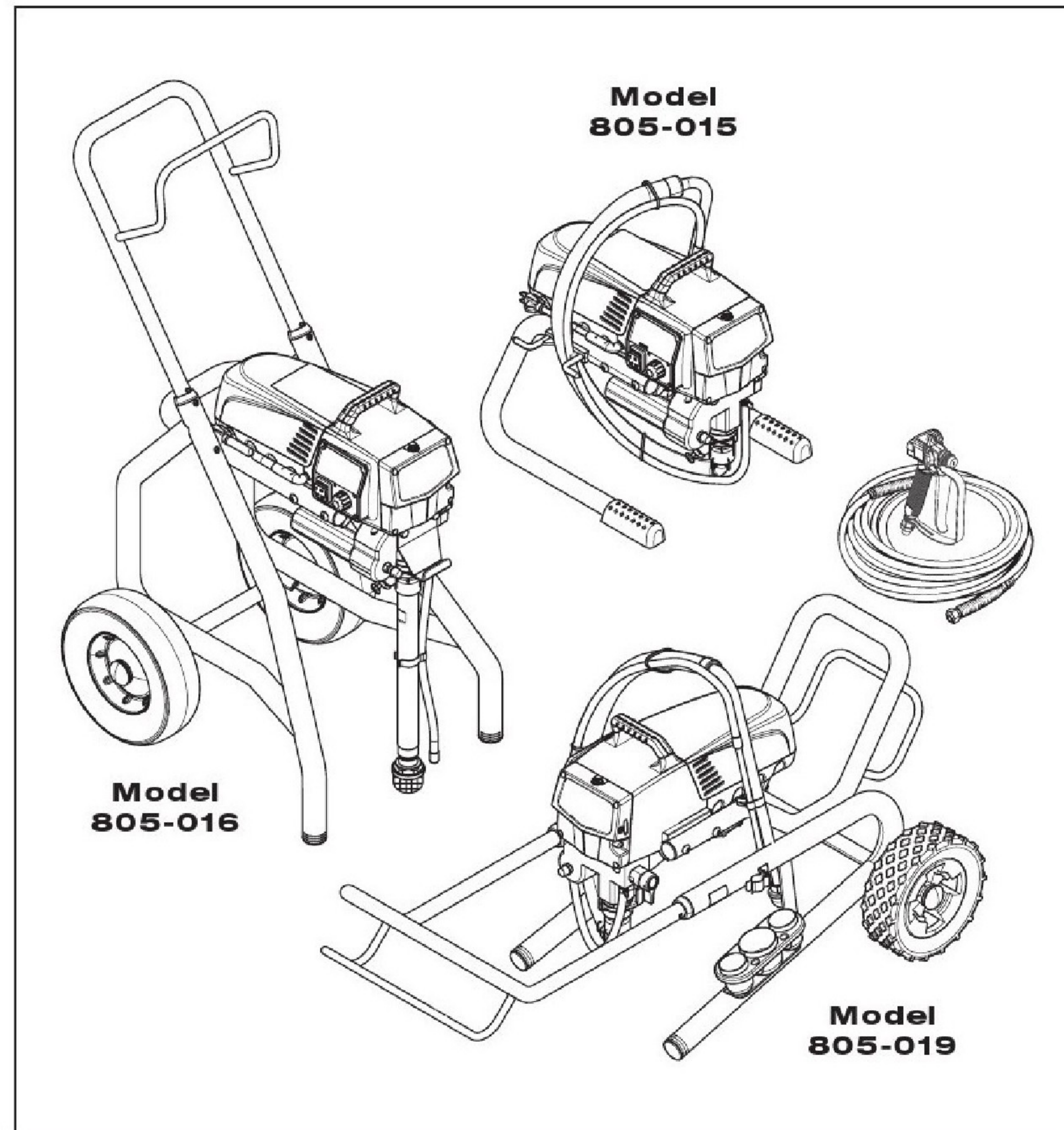
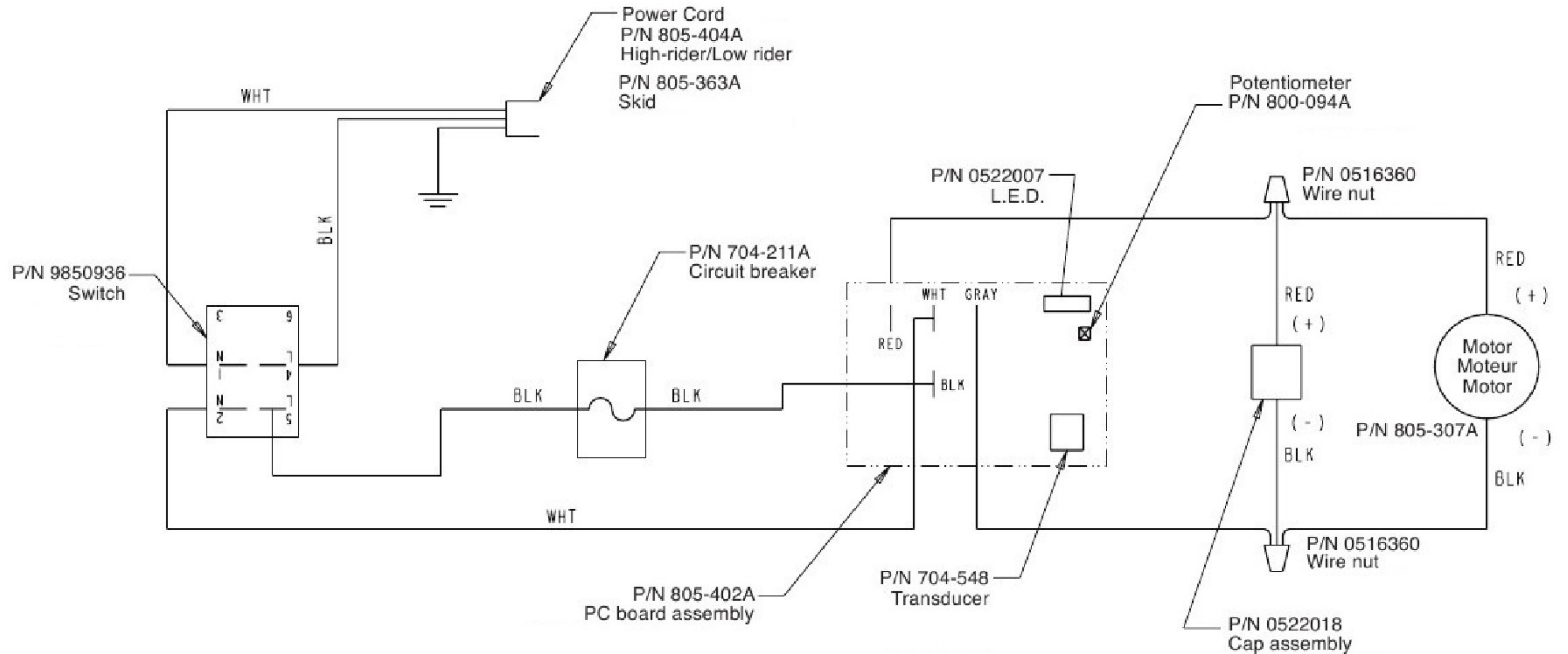


IMPACT 440

Airless Sprayer



Electrical Schematic



NOTE: All electrical work should be performed by an authorized service center.

Accessories

Airless Tip Selection

Tips are selected by the orifice size and fan width. The proper selection is determined by the fan width required for a specific job and by the orifice size that will supply the desired amount of fluid and accomplish proper atomization.

For light viscosity fluids, smaller orifice tips generally are desired. For heavier viscosity materials, larger orifice tips are preferred. Please refer to the chart below.

NOTE: Do not exceed the sprayer's recommended tip size.

The following chart indicates the most common sizes and the appropriate materials to be sprayed.

Tip Size	Spray Material	Filter Type
.011 – .013	Lacquers and stains	100 mesh filter
.015 – .019	Oil and latex	60 mesh filter
.021 – .026	Heavy bodied latex and blockfillers	30 mesh filter

Fan widths measuring 8" to 12" (20 to 30 cm) are preferred because they offer more control while spraying and are less likely to plug.

Liquid Shield Plus

Cleans and protects spray systems against rust, corrosion and premature wear. Now with -25° anti-freeze protection.

Part #	Description
314-4834 ounce bottle
314-4821 quart bottle



Piston Lube

Specially formulated to prevent materials from adhering to the piston rod, which becomes abrasive to the upper seals. Piston Lube will break down any material that may accumulate in the oil cup and keep it from drying.

Part #	Description
314-4814 ounce bottle
314-4808 ounce bottle



Miscellaneous

Part #	Description
490-012Hose Coupling, 1/4" x 1/4"
0508239High Pressure Fl. Gauge
314-171Lubriplate, 14 ounce individual
9870307Lubriplate, 6 lb. can

Troubleshooting

Problem	Cause	Solution
A. The unit will not run.	<ol style="list-style-type: none"> 1. The unit is not plugged in. 2. Tripped breaker. 3. The pressure is set too low (pressure control knob set at minimum setting does not supply power to unit). 4. Faulty or loose wiring. 5. Excessive motor temperature. 	<ol style="list-style-type: none"> 1. Plug the unit in. 2. Reset the breaker. 3. Turn the pressure control knob clockwise to supply power to the unit and increase the pressure setting. 4. Inspect or take to a Titan authorized service center. 5. Allow motor to cool.
B. The unit will not prime.	<ol style="list-style-type: none"> 1. The PRIME/SPRAY valve is in the SPRAY position. 2. Air leak in the siphon tube/suction set. 3. The pump filter and/or inlet screen is clogged. 4. The siphon tube/suction set is clogged. 	<ol style="list-style-type: none"> 1. Rotate the PRIME/SPRAY valve clockwise to the PRIME position. 2. Check the siphon tube/suction set connection and tighten or re-tape the connection with Teflon tape. 3. Remove the pump filter element and clean. Remove the inlet screen and clean. 4. Remove the siphon tube/suction set and clean.
C. The unit will not build or maintain pressure.	<ol style="list-style-type: none"> 1. The spray tip is worn. 2. The spray tip is too large. 3. The pressure control knob is not set properly. 4. The pump filter, gun filter, or inlet screen is clogged. 5. Material flows from the return hose when the PRIME/SPRAY valve is in the SPRAY position. 6. Air leak in the siphon tube/suction set. 7. There is external fluid leak. 8. There is an internal fluid section leak (packings are worn and/or dirty, valve balls are worn). 9. Worn valve seats 10. Motor powers but fails to rotate 	<ol style="list-style-type: none"> 1. Replace the spray tip following the instructions that came with the spray gun. 2. Replace the spray tip with a tip that has a smaller orifice following the instructions that came with the spray gun. 3. Turn the pressure control knob clockwise to increase the pressure setting. 4. Remove the pump filter element and clean. Remove the gun filter and clean. Remove the inlet screen and clean. 5. Clean or replace the PRIME/SPRAY valve. 6. Check the siphon tube/suction set connection and tighten or re-tape the connection with Teflon tape. 7. Check for external leaks at all connections. Tighten connections, if necessary. 8. Clean the valves and service the fluid section following the "Servicing the Fluid Section" procedure in the Maintenance section of this manual. 9. Reverse or replace the valve seats following the "Servicing the Fluid Section" procedure in the Maintenance section of this manual. 10. Take unit to a Titan authorized service center.
D. Fluid leakage at the upper end of the fluid section.	<ol style="list-style-type: none"> 1. The upper packings are worn. 2. The piston rod is worn. 	<ol style="list-style-type: none"> 1. Repack the pump following the "Servicing the Fluid Section" procedure in the Maintenance section of this manual. 2. Replace the piston rod following the "Servicing the Fluid Section" procedure in the Maintenance section of this manual.
E. Excessive surge at the spray gun.	<ol style="list-style-type: none"> 1. Wrong type of airless spray hose. 2. The spray tip worn or too large. 3. Excessive pressure. 	<ol style="list-style-type: none"> 1. Replace hose with a minimum of 50' of 1/4" grounded textile braid airless paint spray hose. 2. Replace the spray tip following the instructions that came with the spray gun. 3. Rotate the pressure control knob counterclockwise to decrease spray pressure.
F. Poor spray pattern.	<ol style="list-style-type: none"> 1. The spray tip is too large for the material being used. 2. Incorrect pressure setting. 3. Insufficient fluid delivery. 4. The material being sprayed is too viscous. 	<ol style="list-style-type: none"> 1. Replace the spray tip with a new or smaller spray tip following the instructions that came with the spray gun. 2. Rotate the pressure control knob to adjust the pressure for a proper spray pattern. 3. Clean all screens and filters. 4. Add solvent to the material according to the manufacturer's recommendations.
G. The unit lacks power.	<ol style="list-style-type: none"> 1. The pressure adjustment is too low. 2. Improper voltage supply. 	<ol style="list-style-type: none"> 1. Rotate the pressure control knob clockwise to increase the pressure setting. 2. Reconnect the input voltage for 120V AC.