

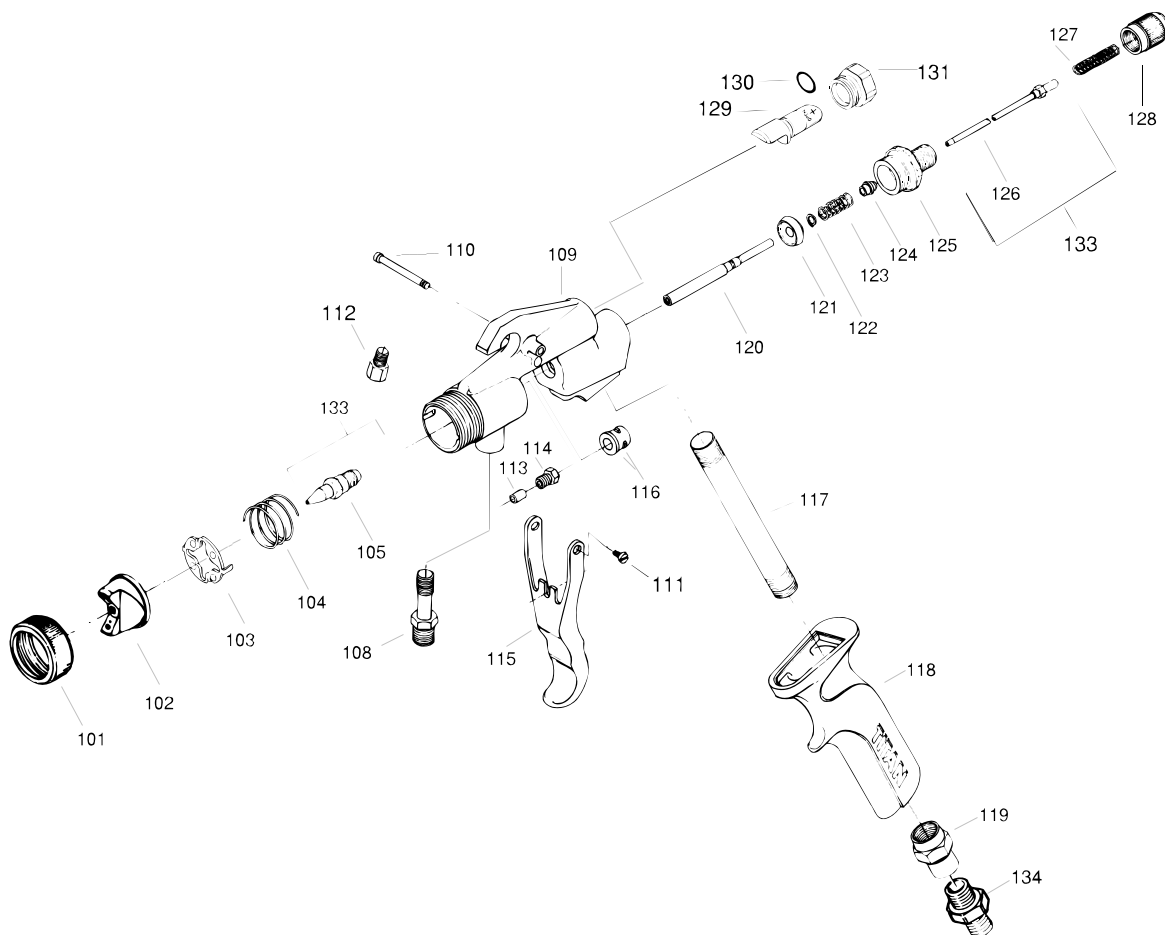


Technology At Work

Owner's Manual  
For professional use only

# ProFinish C-100 Gun

Model Number 773-400



## Parts List

Item	Part #	Description	Quantity
101	773-003	Retaining Ring.....	1
102	773-960	Air Cap "OA".....	1
103	773-132	Spring Plate.....	1
104	773-168	Air Cup Spring.....	1
105	773-128	Fluid Nozzle ".051".....	1
108	490-112	Fluid Fitting.....	1
109	773-170	Head.....	1
110	580-018	Pivot Pin.....	1
111	580-019	Pivot Screw.....	1
112	770-179	Plug.....	1
113	773-005	Packing.....	1
114	773-095	Retainer.....	1
115	773-033	Trigger.....	1
116	773-031	Stem Gland.....	1
117	773-023	Air Supply Tube.....	1
118	773-167	Handle.....	1
119	773-026	Pipe Adapter.....	1
120	773-027	Trigger Stem.....	1
121	773-029	Trigger Valve.....	1
122	773-028	Retaining Clip.....	1
123	773-021	Trigger Spring.....	1
124	773-020	Spring Bushing.....	1
125	773-016	Fluid Housing.....	1
126	773-148	Needle Assembly.....	1
127	773-019	Needle Spring.....	1
128	773-017	Adjusting Knob.....	1
129	773-067	Air Valve.....	1
130	761-722	O-Ring.....	1
131	773-068	Air Valve Housing.....	1
313-1078	Label - Fan Adjustment.....	1	
133	773-153	Needle, Nozzle Set.....	1
134	227-006	Adapter, 1/4"NPTx1/4"NPS...1	
	773134	HVLP TOOL (not shown).....	1
	773-135	Brush (not shown).....	1

## Safety Precautions



Do not use equipment before reading this section

Never operate this unit unless it is properly grounded. A fire or explosion hazard is present when spraying flammable materials. Please read and understand the following steps to assure safe operation of your sprayer.

1. Always keep spray area well ventilated. Always keep the compressor a minimum of 20 feet from spray activity.

2. Always follow the coating or solvent manufacturer's safety precautions and warnings.
3. Never spray flammable materials near open flames, pilot lights or any other source of ignition.
4. Always wear spray masks and protective eye wear while spraying.
5. Never alter or modify any part of this equipment; doing so could cause it to malfunction.
6. Never attempt to service or disassemble the compressor while it is plugged in.
7. Never attempt to clean the exterior of the compressor while plugged in. CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE TO RAIN – STORE INDOORS
8. Never point the spray gun at anyone or any part of the body.
9. Never leave equipment unattended. Keep away from children or anyone not familiar with the operation of spray equipment.
10. Never remove lid of pressure pot without relieving pressure first.
11. Never exceed 50 psi in pressure pot.
12. Do not use halogenated hydrocarbons in Titan equipment.

## Startup Procedures

### Prepare the Paint

1. Prepare the material to be sprayed according to paint manufacturers recommendations.
2. Strain the paint before each use. 770-119 Cone Strainer provided.
3. Thin the material to be sprayed with the recommended solvent. Most materials need to be thinned to obtain spraying consistency. To achieve the proper viscosity for spraying, either a viscosity cup can be used or trial and error.
4. If a viscosity cup is not available, thin the materials to a point where you will achieve a one second interval between drops after a paint stick has been inserted and removed from paint.

### Gun and Compressor Set-Up

1. With the compressor switch in the off position, plug into a grounded outlet at least 20 feet from spray activity.
2. Attach air atomizing hose to compressor.

3. Attach one end of the fluid hose to the gun and the other end to the pressure pot. Attach the air hose to the bottom of the gun. Make sure that everything is secure before spraying.

## Spray Gun Adjustments

The "ProFinish" gun comes equipped with a .051 fluid nozzle and needle and our "#0A" medium air cap. Always test your spray pattern on a test surface before you begin to work.

1. Fan size adjustment is controlled by turning air cap retainer ring. Clockwise will increase fan width, counterclockwise will decrease fan width.
2. Top knob controls the air volume. Clockwise will decrease air flow.
3. A round, horizontal or vertical fan pattern can be achieved by rotating air cap as shown by the diagrams below.



4. A round pattern will require less material flow than a wide pattern. Lower knob clockwise will decrease fluid flow; counterclockwise will increase fluid flow.

## Fluid Nozzle / Needle / Air Cap Selection

If after all of the appropriate adjustments are made poor results are obtained, it may be necessary to change to a different fluid nozzle / needle or air cap. Refer to our selection chart to match the appropriate components to the material being sprayed.

**NOTE: The smaller the nozzle size the greater atomization.**

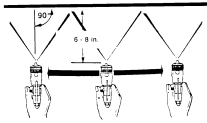
1. To change fluid nozzle and tip remove air cap (102) and retainer ring (101).
2. Squeeze trigger and with a wrench remove fluid tip (105). (Use Fluid Tip Tool 773-134, supplied, not shown)
3. Remove Adjustment Knob (128). Remove Spring (127) and Needle (126). Reassemble in reverse order 1 thru 3.

**NOTE: Never use lubricants containing silicones. Silicones will adversely affect spray finishes and is difficult to remove once on equipment.**

## Application Techniques

The following techniques are recommended to assure professional painting results. Hold the gun perpendicular to the surface and always at an equal distance of approximately 6"-8".

Move the gun either across or up and down the surface at a steady rate. Moving the gun at a consistent speed provides even coverage. The correct spraying speed allows for a full wet coat of material without runs or sags. Do not angle the gun as this will cause uneven paint build-up, runs or sags. Begin movement of the gun before the trigger is pulled.



**RIGHT**

Proper lapping (overlap of spray pattern) is essential to an even finish. Overlap your strokes about 50%.



**WRONG**

## Cleaning Procedures

The Titan Pro-Finish system has been constructed with the finest materials to assure trouble free operation and durability. However, like any paint tool, proper cleaning is essential for optimum performance to be maintained. Always clean thoroughly after each use.

1. Pour remaining material in the pressure pot back into the original container. For single component materials ONLY. For catalyzed material, consult coating manufacturer's recommendation.
2. Pour a small amount of the appropriate solvent for the type of material you are spraying into the pressure pot. Swirl the solvent around in the pot and empty.
3. Thoroughly clean the interior of the pressure pot and wipe dry.
4. Pour a small amount of solvent into pressure pot and spray through the gun to clean fluid nozzle and needle.
5. After extended use, it might be necessary to remove the fluid nozzle, needle, and air cap to clean by hand, with a soft brush. (Part No. 770-118 provided). Do not use a wire brush or hard tools that could damage the components. Also clean the inside of the gun with solvent and a soft brush. Reassemble gun and test with mineral spirits.
6. Clean the exterior of the gun using solvent. NEVER soak the gun in solvent. Some solvents can damage internal seals.
7. Check filter on compressor, clean or replace. (Never use solvent to clean compressor filter, blow clean with compressed air or replace.)

**NOTE: If service is required on the compressor, refer to the service center listing enclosed or call 1-800-526-5362 for assistance.**

Please dispose of cleaning solvent and unused coatings in an environmentally safe fashion. Consult with material manufacturer on proper procedure.

## Troubleshooting — Finish Problems

Problem	Probable Cause	Solution
Orange Peel	Material is too viscous	Thin Material Consult coating manufacturer recommendations
	Improper Solvent	Use recommended solvent Consult coating manufacturer recommendations
	Insufficient atomizing air	Change to a smaller air cap See chart below
Runs and Sags	Too much solvent Gun too close to surface	Add material Reduce flow by turning yellow regulator knob counterclockwise. Move further from the surface.
	Wrong fluid nozzle & needle	Replace. See chart below
Blushing Pin Holing and Solvent Pops	Fast drying thinner	Add retarder
	Trapped solvents	Reduce fluid flow and apply lighter coats. Use faster solvent
	Insufficient atomization	Thin material or use a smaller air cap See chart below
Blistering	Surface not primed properly Surface moisture	Use appropriate primer Dry
Coarse Finish	Improper cleaning of surface	Clean immediately before spraying

## Troubleshooting — Gun

Problem	Probable Cause	Solution
Paint will not Flow	1) Blockage in fluid nozzle 2) Loss of air pressure in pressure pot 3) Dirty or stuck one way valve 4) Loose fluid nozzle 5) Paint tubes loose or damaged 6) Coating is too thick	1) Clean or replace 2) Search for air leaks in air hose and sealing gasket 3) Clean or replace 4) Tighten 5) Tighten or replace 6) Thin the coating
Inconsistent Spray Pattern (Spits and Sputters)	1) Running out of paint 2) Loose fluid tube 3) Loss of fluid pressure	1) Fill cup or pot 2) Tighten 3) Search for air leaks or blockages
Leakage at Front of Gun	1) Damaged fluid needle 2) Wrong size fluid needle 3) Dirty fluid nozzle 4) Loose fluid nozzle	1) Replace 2) Replace 3) Clean 4) Tighten
Distorted Spray Pattern	1) Dirty air cap 2) Damaged fluid nozzle or needle 3) Fluid nozzle partially clogged	1) Clean or replace 2) Replace 3) Clean

## Warranty

Titan Tool, Inc., ("Titan") warrants that at the time of delivery to the original purchaser for use ("End User"), the equipment covered by this warranty is free from defects in material and workmanship. Titan's obligation under this warranty is limited to replacing or repairing without charge those parts which, to Titan's reasonable satisfaction, are shown to be defective within twelve (12) months after sale to the End User. This warranty applies only when the unit is installed and operated in accordance with the recommendations and instructions of Titan.

This warranty does not apply in the case of damage or wear caused by abrasion, corrosion or misuse, negligence, accident, faulty installation, substitution of non-Titan component parts, or tampering with the unit in a manner to impair normal operation.

Defective parts are to be returned to an authorized Titan sales/service outlet. All transportation charges, including return to the factory, if necessary, are to be borne and prepaid by the End User. Repaired or replaced equipment will be returned to the End User transportation prepaid.

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TITAN MAKES NO WARRANTY AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY TITAN. THOSE ITEMS SOLD, BUT NOT MANUFACTURED BY TITAN (SUCH AS GAS ENGINES, SWITCHES, HOSES, ETC.) ARE SUBJECT TO THE WARRANTY, IF ANY, OF THEIR MANUFACTURER. TITAN WILL PROVIDE THE PURCHASER WITH REASONABLE ASSISTANCE IN MAKING ANY CLAIM FOR BREACH OF THESE WARRANTIES.



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