

# TITAN™

Technology At Work

## Owner's Manual

For professional use only

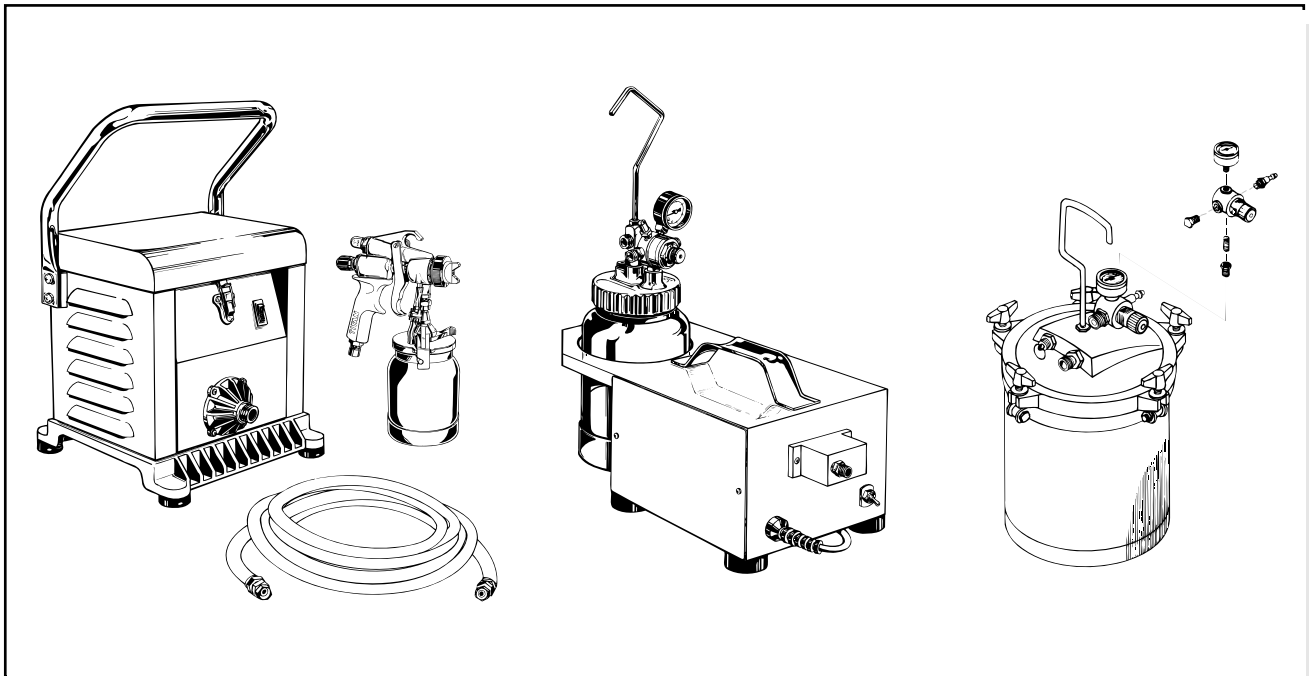
**Do not use this equipment before reading this manual!**

# PROFINISH TS / TSR / TSP

(Turbine System)

(Turbine System with 2  
Quart Remote)

(Turbine System with  
Pressure Pot and Compressor  
on a cart)



### Pro-Finish TS (Turbine System)

#### Model Numbers:

TS40 - 773-600 (120v)  
TS50 - 773-604 (120v)  
TS40 - 773-608 (230v)  
TS50 - 773-612 (230v)

### Pro-Finish TSR

(Turbine System with 2 Quart Remote)

#### Model Numbers:

TS40R - 773-640 (120v)  
TS50R - 773-641 (120v)  
TS40R - 773-642 (230v)  
TS50R - 773-643 (230v)

### Pro-Finish TSP

(Turbine System with Pressure Pot  
and Compressor on a Cart)

#### Model Numbers:

TS40P - 773-644 (120v)  
TS50P - 773-645 (120v)  
TS40P - 773-751-CE (230v)  
TS50P - 773-752-CE (230v)

### Pro-Finish TSP, Cart Only

#### Model Numbers:

TSP - 773-618 (120v)  
TSP - 773-750-CE (230v)

**NOTE:** This manual contains important warnings and instructions. Please read and retain for reference.

# Pro-Finish TS / TSR / TSP

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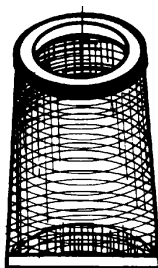
U.S. Patents: 3,936,002; 4,220,286  
4,457,472; 4,508,268; 4,494,697;  
4,500,119; 4,626,004; 4,611,758;  
4,744,571; 4,728,213; 4,768,932;  
4,755,638; 4,768,929; 4,840,543;  
4,908,538; 5,074,467; 5,425,506

## Accessories

### Atomizing Sets

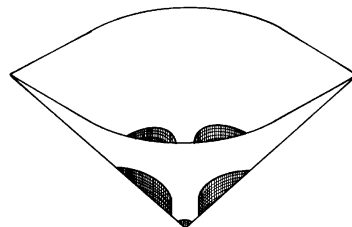
Part No. 773-164 -- Includes:

- Tips, + Needles, .029", .043", .073", .118"  
(.7mm, 1.1mm, 1.9mm, 3mm)
- Air Caps, #1, #2, #3, #4
- Lid Gaskets (2)
- One-way Valve



### Pot Filter

Part No. 770-537



### Cone Strainer

Part No. 770-119 (12 pcs)

### Hose Lengths

#### Air Hoses

- 2' (61cm) Whip - 770-438
- 10' (3m) Flex Air Hose - 770-455
- 20' (6m) Flex Air Hose - 770-447
- 25' (7.6m) Flex Air Hose - 770-456
- 30' (9m) Flex Air Hose - 770-457

#### Fluid Hoses

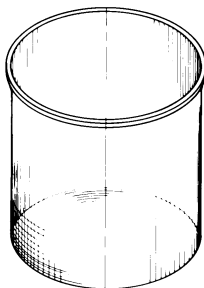
- 10' (3m) Fluid Hose - 770-465
- 20' (6m) Fluid Hose - 770-466

Fluid Hose Coupling - 490-014

3/8" (9mm) NPS(M) x 3/8" (9mm) NPS(M)

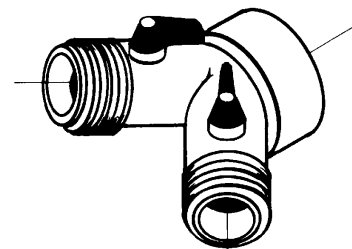
### Cup Filter

Part No. 770-536



### Pot Liner

Part No. 770-535

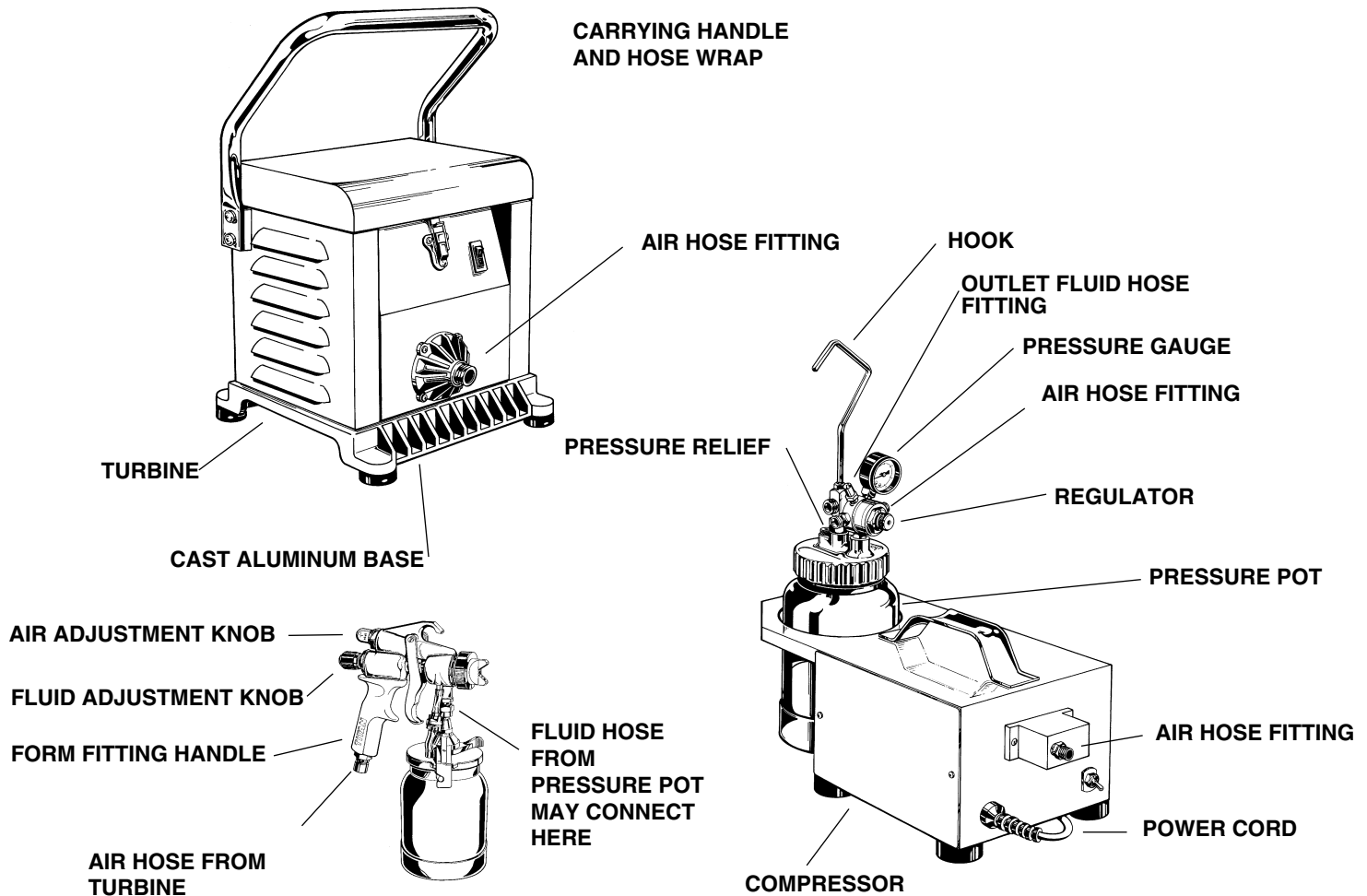


### Two Gun Adapter

Part No. 770-474

# Pro-Finish TS / TSR / TSP

FLIP TOPLID



## General Repair & Service Notes:

The following tools are needed when repairing this sprayer:

- Phillips Screwdriver
- Needle Nose Pliers
- Adjustable Wrench
- Rubber Mallet
- Flat-blade Screwdriver
- 5/32" Allen Wrench
- 1/4" Allen Wrench

1. Before repairing any part of the sprayer, read the instructions carefully, including all warnings.
2. When disconnecting wires, use needle nose pliers to separate mating connectors.

**CAUTION:** Never pull on a wire to disconnect it. Pulling on a wire could loosen the connector from the wire.

3. Test your repair before regular operation of the sprayer to be sure that the problem is corrected. If the sprayer does not operate properly, review the repair procedure to determine if everything was done correctly. Refer to the Troubleshooting Charts to help identify other possible problems.
4. Make certain that the service area is well ventilated in case solvents are used during cleaning. Always wear protective eyewear while servicing. Additional protective equipment may be required depending on the type of cleaning solvent. Always contact the supplier of solvents for recommendations.
5. If you have any further questions concerning your **TITAN** Sprayer, call the **TITAN**:

Customer Service Department **1-800-526-5362**.

Fax **1-800-528-4826**

Outside the U.S. Call **1-201-405-7520**

Outside the U.S. Fax **1-201-405-7449**

Canada **1-800-565-8665** Fax **1-905-856-8496**

MODEL #	SERIAL #	DATE PURCHASED	COMPANY NAME
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Titan Tool is in the business of designing and manufacturing spray systems and accessories that make today's Painting Professional become more efficient and profitable. We feel that if you accurately track the maintenance of your equipment on this chart it will improve the performance of this valuable tool to help you get the most out of your investment.

The chart is easy to follow and to use. The Maintenance Schedule allows for the recording of all your service work and will help you make sure your unit is always running at peak performance.

Make sure to fill in the boxes at the top of this record with the model number, serial number, date purchased and your company name. This information will be needed to validate your warranty.

## Maintenance Schedule

### Clean Air Filter Daily

It is extremely important to clean the air filters daily.

<b>Air Filters Replaced</b>	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
-----------------------------	------	------	------	------	------	------	------	------	------	------

### Electric Motor Models

<b>Check Motor Brushes Every 200 Hours</b>	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
--	------	------	------	------	------	------	------	------	------	------

## Service Record

Date	Service Center	Service Performed	Warranty Repair <input type="checkbox"/> Yes <input type="checkbox"/> No
Months in Service	Cost of Repair		
Date	Service Center	Service Performed	Warranty Repair <input type="checkbox"/> Yes <input type="checkbox"/> No
Months in Service	Cost of Repair		
Date	Service Center	Service Performed	Warranty Repair <input type="checkbox"/> Yes <input type="checkbox"/> No
Months in Service	Cost of Repair		
Date	Service Center	Service Performed	Warranty Repair <input type="checkbox"/> Yes <input type="checkbox"/> No
Months in Service	Cost of Repair		
Date	Service Center	Service Performed	Warranty Repair <input type="checkbox"/> Yes <input type="checkbox"/> No
Months in Service	Cost of Repair		

May Be Copied For Field Use

# WARNING

## DO NOT USE EQUIPMENT BEFORE READING THIS SECTION

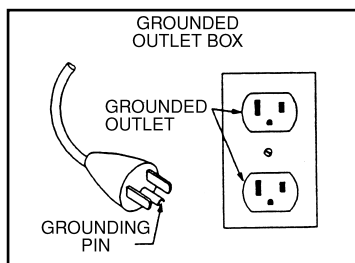
Never operate this unit unless it is properly grounded.

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.

Please read the additional WARNINGS for the TSR System on page 11.

- 1) Always keep spray area well ventilated. Always keep the turbine 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 assemble the turbine while it is plugged in.
- 7) Never attempt to clean the exterior of the turbine while it is 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.

**GROUNDING INSTRUCTIONS:** This product should 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.



**DANGER** - Improper installation of the grounding plug can result in a risk of electric shock. If repair or replacement of the cord or plug is necessary, 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 if the grounding instructions are not completely understood, or if in doubt as to

whether the product is properly grounded. Do not modify the plug provided; if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

- This product is for use on a nominal 120-volt circuit and has a grounding plug that looks like the plug illustrated.
- Make sure that the product is connected to an outlet having the same configuration as the plug. No adapter should be used with this product.

**EXTENSION CORDS:** Use only a 3-wire extension cord that has a 3-slot receptacle that will accept the plug on the pump. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current this pump will draw.

For lengths less than gauge	Use extensio gauge
25 ft.	16 AWG
50 ft.	14 AWG
100 ft.	12 AWG
150 ft.	10 AWG

An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

## FIRE OR EXPLOSION HAZARD

### FLUID SECTION—SOLVENTS

Halogenated Hydrocarbon solvents can cause an explosion when used with aluminum or galvanized components in a closed (pressurizable) fluid system (pumps, heaters, filters, valves, spray guns, tanks, etc.). The explosion could cause serious injury, death and/or substantial property damage. Cleaning agents, coatings, paints, etc. may contain Halogenated Hydrocarbon solvents. Titan Tool Inc. spray equipment includes aluminum or galvanized components and will be affected by Halogenated Hydrocarbon solvents. **DO NOT USE HALOGENATED HYDROCARBONS IN TITAN EQUIPMENT.**

### EXPLANATION OF THE HAZARD

There are three key elements to the Halogenated Hydrocarbon (HHC) solvent hazard. These elements are:

1. The presence of HHC solvents.
2. Aluminum or galvanized parts.
3. Equipment capable of withstanding pressure.

When all three elements are present, the result can be an extremely violent explosion. The reaction can be sustained with very little aluminum or galvanized metal: any amount of aluminum is too much. The reaction is unpredictable. Prior use of an HHC solvent without incident (corrosion or explosion) does NOT mean that such use is safe.

**HALOGENATED SOLVENTS – DEFINITION :** Any hydrocarbon solvent containing any of the elements as listed below:

Consult your material supplier to determine whether your solvent or coating contains Halogenated Hydrocarbon Solvents.

**Fluorine (F) “-fluor-”**  
**Bromine (Br) “-bromo-”**  
**Examples (not all-inclusive):**

#### FLUOROCARBON SOLVENTS:

Dichlorofluoromethane  
Trichlorofluoromethane

#### CHLORINATED SOLVENTS:

Carbon tetrachloride  
Chloroform  
Ethylene dichloride

#### BROMINATED SOLVENTS:

Ethylene dibromide  
Methylene chlorobromide  
Methyl bromine

#### TRICHLOROETHANE:

Trichloroethylene  
Monochlorotoluene

#### Chlorine (CL) “-chloro-”

**Iodine (I) “-Iodo-”**  
METHYLENE CHLORIDE OR  
DICHLOROMOETHANE:

Monochlorobenzene  
Orthodichlorobenzene  
Perchloroethylene

#### IODINATED SOLVENTS:

N-butyl iodide  
Methyl iodide  
Ethyl iodide  
Propyl iodide

## START-UP PROCEDURES

### Step 1: Prepare the Paint

- A. Prepare the material to be sprayed according to paint manufacturers recommendations.
- B. Strain the paint before each use. 770-119 Cone Strainer provided.
- C. 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.
- D. 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.

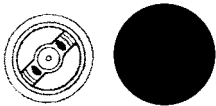
### Step 2: Gun and Turbine Set-Up

- A. With the turbine switch in the off position, plug into a grounded outlet at least 20 feet from spray activity.
- B. Attach air atomizing hose to turbine.
- C. Attach quart cup to gun and attach tube from gun to cup, attach air hose to bottom of the gun. Make sure that everything is secure before spraying.

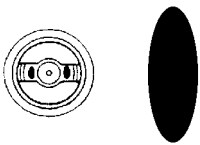
### Step 3: Spray Gun Adjustments

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

- A. Fan size adjustment is controlled by turning the air cap retainer ring. Clockwise will increase fan width, counterclockwise will decrease fan width.
- B. Top knob controls air volume. Clockwise will decrease air flow.
- C. A round, horizontal or vertical fan pattern can be achieved by rotating air cap as shown by the diagrams below.
- D. A round pattern will require less material flow than a wide pattern. Turning the lower knob clockwise will decrease fluid flow; counter-clockwise will increase fluid flow.



Round Pattern



Vertical Pattern



Horizontal Pattern

### Step 4: 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 air cap the greater atomization.

- A. To change fluid nozzle and tip remove air cap 101 and indexing retainer 103.
- B. Squeeze trigger and with a wrench remove fluid tip 105.  
(Use Fluid Tip Tool ( 773-134), supplied, not pictured)
- C. Remove rear Adjustment Knob (128).  
Remove Spring (127) and Needle (126)
- D. Reassemble in reverse order A thru C.

Note: Never use lubricants containing silicones. Silicone will adversely affect spray finishes and is difficult to get rid of once on equipment.

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.

Holding the gun closer to the surface deposits more paint on the surface and produces a narrower spray pattern. Holding the gun farther from the surface produces a thinner coat and wider spray pattern. If runs, sags or excessive paint occur, change to a spray tip with a smaller orifice. Conversely, if there is an insufficient amount of paint on the surface or you desire to spray faster, a larger orifice tip should be selected.

## USER'S MAINTENANCE INSTRUCTIONS

During storage the power cord must be coiled around cord holder to avoid damage.

## 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.**

**Step 1.** Pour remaining material in the quart cup back into the original container. For single component materials ONLY. For catalyzed material, consult coating mfg. recommendation.

**Step 2.** Pour a small amount of solvent in the cup. Swirl the solvent around in the cup and empty.

**Step 3.** Thoroughly clean the interior of the cup and wipe dry.

**Step 4.** Pour a small amount of solvent into cup and spray through the gun to clean fluid nozzle and needle.

**Step 5.** After extended use it might be necessary to remove the fluid nozzle, needle and air cap and 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.

**Step 6.** Clean the exterior of the gun using solvent. **NEVER soak the gun in solvent.** Some solvents can damage internal seals.

**Step 7.** Check turbine filter, clean or replace. **(Never use solvent to clean turbine filter, blow clean with compressed air or replace.)**

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

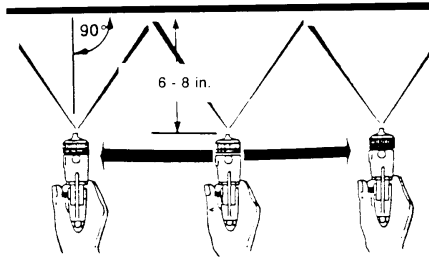


# APPLICATION TECHNIQUES

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".

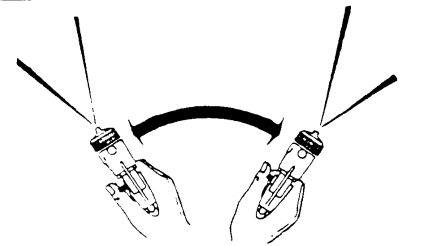
Move the gun either across or up and down the surface at a steady rate. Moving the gun at a consistent speed provides even coverage. The correct spraying speed allows for a full wet coat of material without runs or sags. Do not angle the gun as this will cause uneven paint build-up, runs or sags. Begin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

## Proper Technique

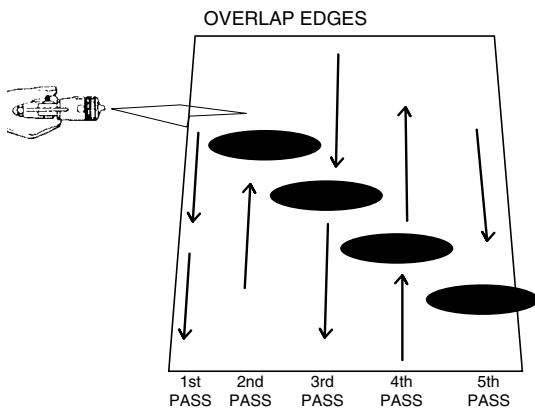


Maintain uniform spray stroke action. Spray alternately from left to right and right to left. Begin movement of the gun before the trigger is pulled.

## Wrong Technique

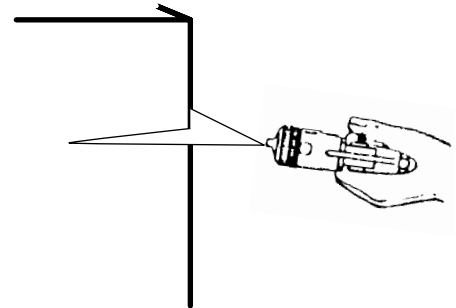


**PROPER LAPPING** (overlap of spray pattern) is essential to an even finish. Lap each stroke. If you are spraying horizontally, aim at the bottom edge of the preceding stroke, so as to lap the previous pattern by 50%.

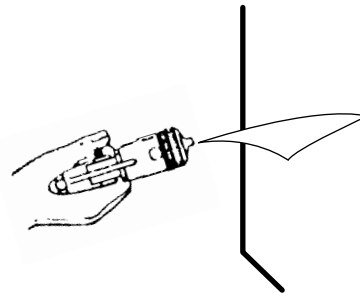


Holding the gun closer to the surface deposits more paint on the surface and produces a narrower spray pattern. Holding the gun farther from the surface produces a thinner coat and wider spray pattern. If runs, sags or excessive paint occur, change to a spray tip with a smaller orifice. Conversely, if there is an insufficient amount of paint on the surface or you desire to spray faster, a larger orifice tip should be selected.

For corners and edges, split the center of the spray pattern on the corner or edge and spray vertically so that both adjoining sections receive approximately even amounts of paint.



If conditions are windy, angle the spray pattern into the wind to minimize drifting. Work from ground to roof. Do not attempt to spray if wind is excessive.



## SELECTION CHART

Fluid Needle/Nozzle		Air Cap		Material
Size	Part No.	Size	Part No.	Consult paint manufacturers for proper thinning recommendations.
.029	773-151 #3	773-159	Acrylic lacquers, stains, dyes	
.043	773-152 #2	773-158	Waterborn clears, epoxy, polyurethane, automotive, base coat, acrylic urethanes & enamels	
.051	773-153 #0	773-156	Full bodied stains, alkyd enamels, water born enamels	
.073	773-154 #1	773-157	Finish grade latexes, alkyd wall paints	
.118	773-155 #4	773-160	Heavy-bodied multi-color or textured coatings	

## TROUBLESHOOTING - FINISH PROBLEMS

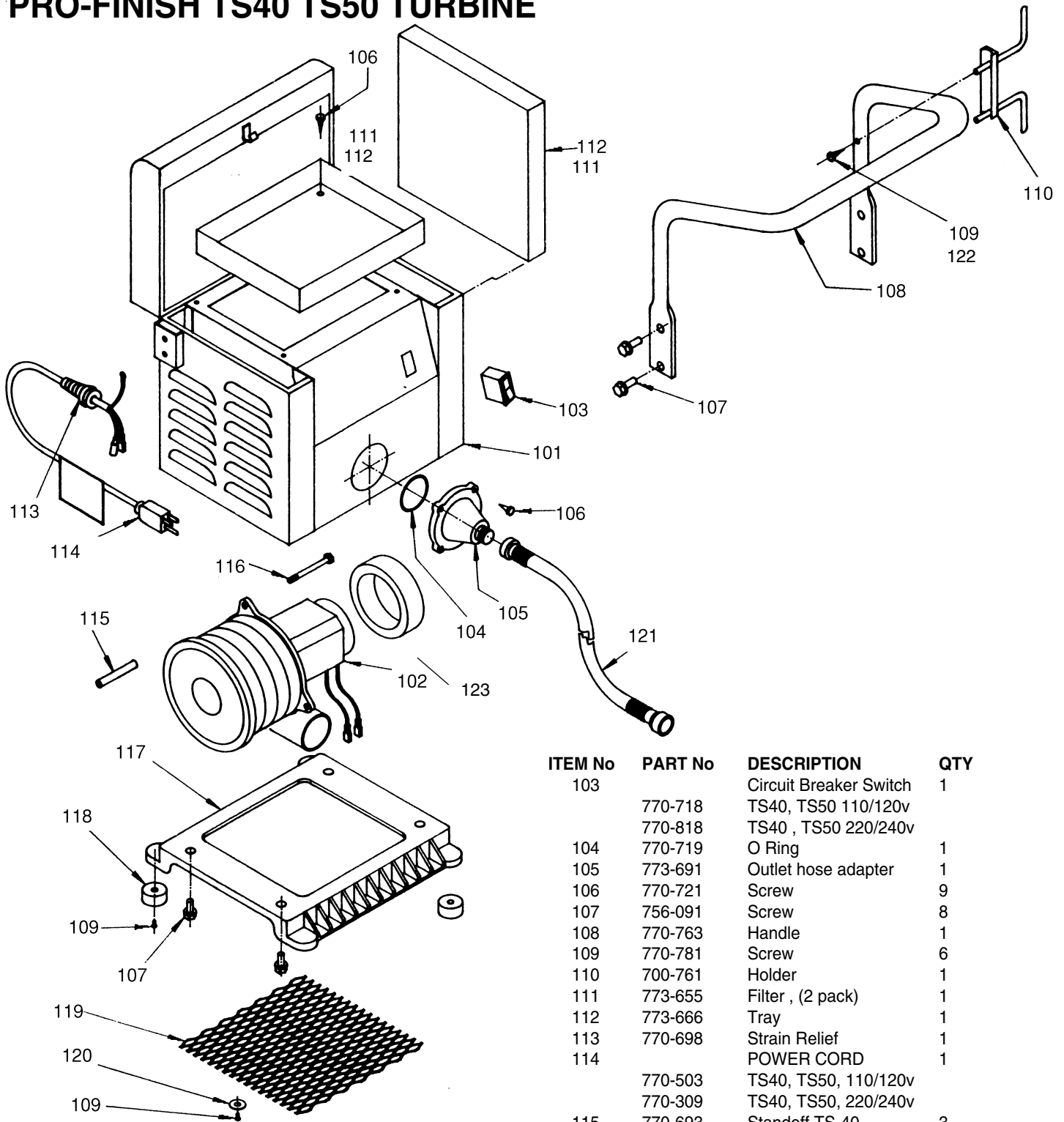
PROBLEM	PROBABLE CAUSE	REMEDY
Orange Peel	Material is too viscous	Thin Material Consult coating manufacturer recommendations
	Improper Solvent	Use recommended solvent Consult coating manufacturer recommendations
	Insufficient atomizing air	Change to a smaller air cap See chart below
Runs and Sags	Too much solvent	Add material
	Gun too close to surface	Reduce flow by turning yellow regulator knob counterclockwise. Move further from the surface.
	Wrong fluid nozzle & needle	Replace. See chart below
Blushing	Fast drying thinner	Add retarder
Pin Holing and Solvent Pops	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	Use appropriate primer
	Surface moisture	Dry
Coarse Finish	Improper cleaning of surface	Clean immediately before spraying

## TROUBLESHOOTING

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



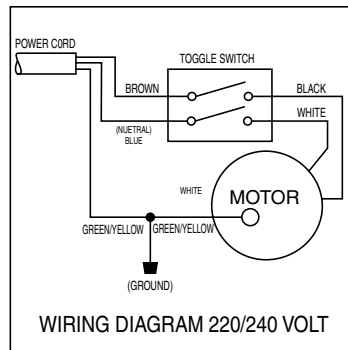
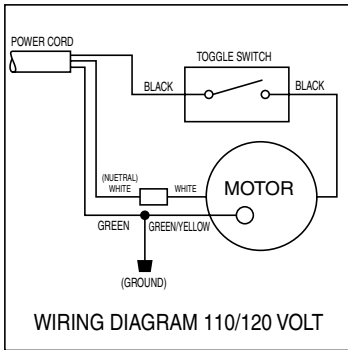
# PRO-FINISH TS40 TS50 TURBINE



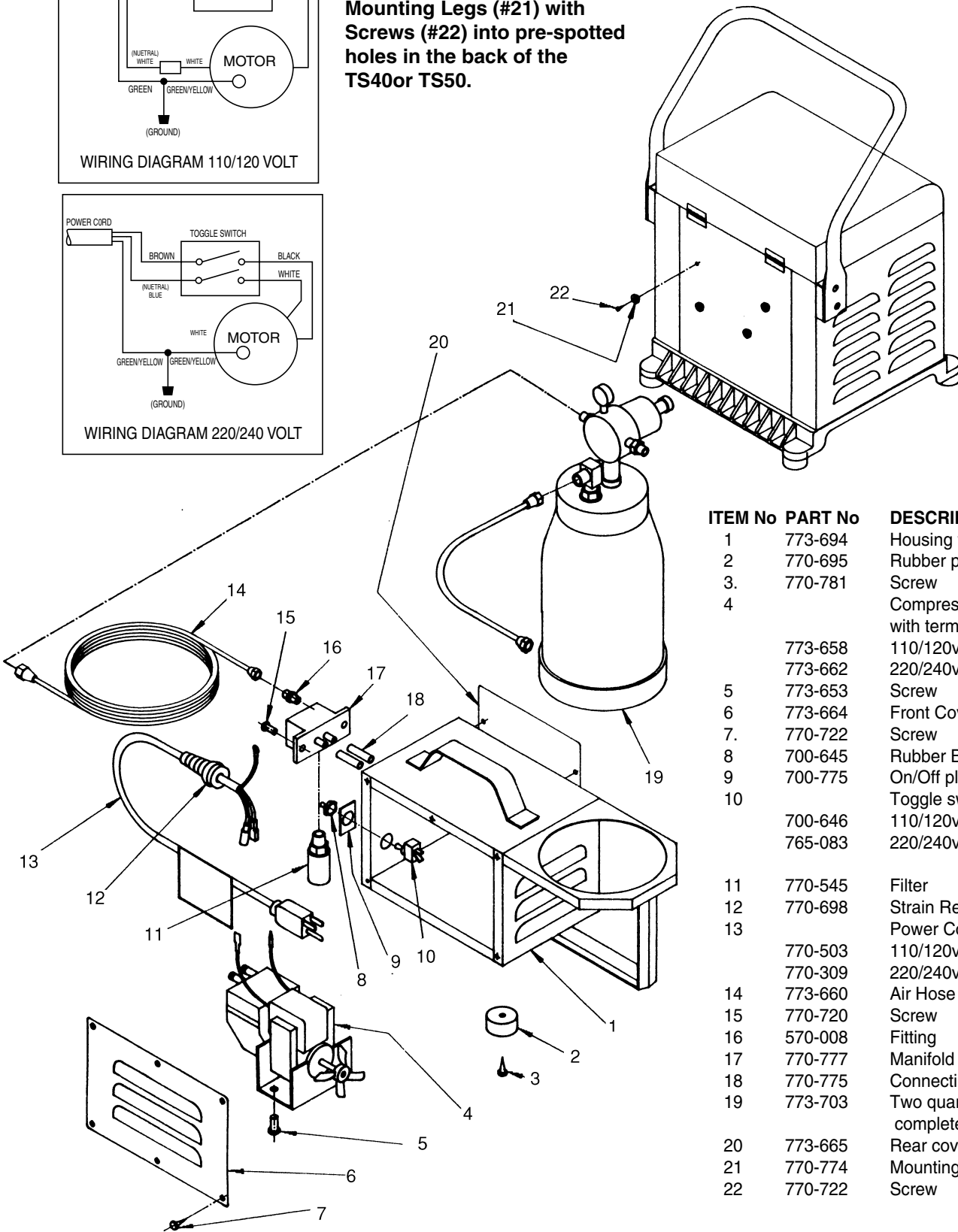
ITEM No	PART No	DESCRIPTION	QTY
	103	Circuit Breaker Switch	1
	770-718	TS40, TS50 110/120v	
	770-818	TS40, TS50 220/240v	
	104	O Ring	1
	105	Outlet hose adapter	1
	106	Screw	9
	107	Screw	8
	108	Handle	1
	109	Screw	6
	110	Holder	1
	111	Filter , (2 pack)	1
	112	Tray	1
	113	Strain Relief	1
	114	POWER CORD	1
	770-503	TS40, TS50, 110/120v	
	770-309	TS40, TS50, 220/240v	
	115	Standoff TS-40	3
	770-705	Standoff TS-50	
	116	Screw	3
	117	Base	1
	118	Rubber Pad	4
	119	Screen	1
	120	Washer	2
	121	Supply hose	1
	122	Screw	2
	123	Gasket	1
	124	EMI Filter	1
	125	Stop Washer	3
	126	Foam Strip	2
	127	Wire Mesh	

ITEM No	PART No	DESCRIPTION	QTY
101		HOSUING WITH LABELS	1
	773-672	TS40	
	773-673	TS50	
	773-692	TSP40	
	773-693	TSP50	
102		TURBINE	1
		<i>Includes gaskets and terminals</i>	
	773-622	TS40 110/120 v	
	773-626	TS40 220/240v	
	773-623	TS50 110/120v	
	773-627	TS50 220/240v	

# PRO-FINISH TSR COMPRESSOR SYSTEM with 2 Quart Remote



To mount TSR Unit to TS40/TS50 unit, remove the Cover (#20). Install four (4) Mounting Legs (#21) with Screws (#22) into pre-spotted holes in the back of the TS40or TS50.



ITEM No	PART No	DESCRIPTION	QTY
1	773-694	Housing with label	1
2	770-695	Rubber pad	4
3	770-781	Screw	4
4		Compressor with terminals	1
	773-658	110/120v	
	773-662	220/240v	
5	773-653	Screw	4
6	773-664	Front Cover	1
7	770-722	Screw	6
8	700-645	Rubber Boot	1
9	700-775	On/Off plate	1
10		Toggle switch	1
	700-646	110/120v	
	765-083	220/240v	
11	770-545	Filter	1
12	770-698	Strain Relief	1
13		Power Cord	1
	770-503	110/120v	
	770-309	220/240v	
14	773-660	Air Hose	1
15	770-720	Screw	2
16	570-008	Fitting	1
17	770-777	Manifold	1
18	770-775	Connecting tube	2
19	773-703	Two quart cup complete	1
20	773-665	Rear cover	1
21	770-774	Mounting Lug	4
22	770-722	Screw	4

# TSR WARNING

## 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.

Please read the additional WARNINGS for the System on page 5.

## PRO-FINISH TSR COMPRESSOR SYSTEM with 2 Quart (1.91) Remote

### WARNING: DO NOT EXCEED 60 PSI (4 BAR) WORKING PRESSURE.

Over-pressurization may rupture the pot and cause serious injury and or property damage. The normal operating range is 6 psi (.4 BAR) to 15 psi (1 BAR).

**NOTE:** This system requires a minimum of 1/16 hp compressor to operate with a turbine High Volume Low Pressure system.

SEE DIAGRAM AND SECTION DRAWING OF PRESSURE POT THIS PAGE)

**WARNING:** Before servicing and after use you must manually relieve pot pressure to avoid accidental spray.

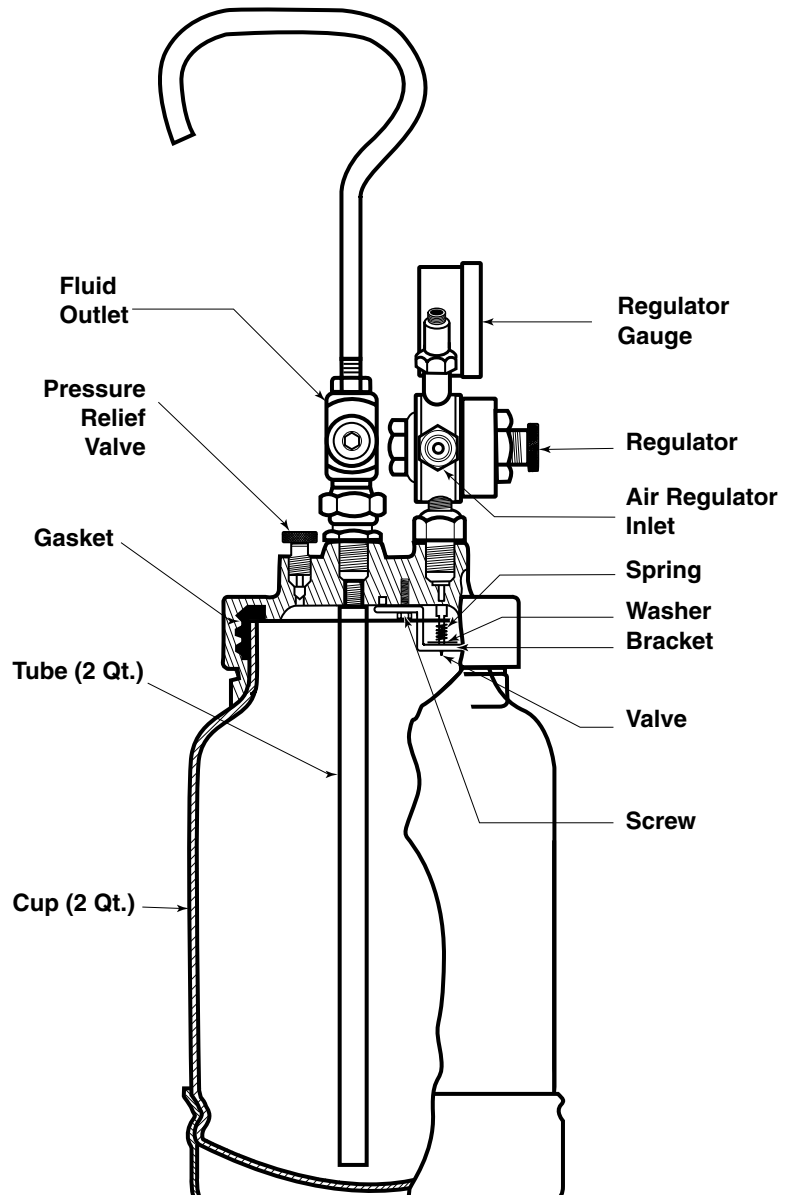
#### RELIEVING POT PRESSURE:

1. Shut off compressed air supply.
2. Turn the relief knob counterclockwise and wait until pressure is completely relieved.
3. Tighten the knob clockwise before re-pressurizing the unit.

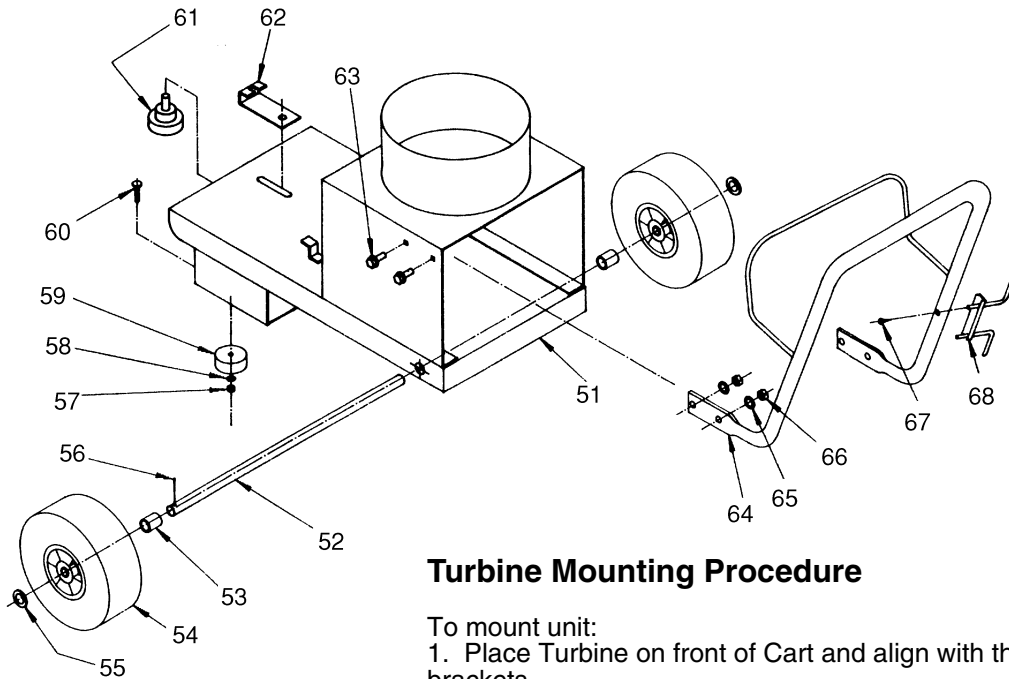
#### START-UP PROCEDURES FOR THE TSR SYSTEM

- A. Connect the 5 foot (1.5m) fluid supply hose from the pot outlet to the gun fluid inlet. Make sure the paint cup air feed on the head of the gun is plugged.
- B. Connect the 20 foot (6m) air hose between the pot regulator inlet and the compressor outlet. Cap off the remaining air connection when using the system with a turbine High Volume Low Pressure System.
- C. Pour material into pot. Fill to no more than 3/4 full.
- D. Set the pot pressure. Turn the regulator down, turn on the compressor and leave the turbine off. Over a drop cloth, trigger the gun and increase pot pressure until the fluid stream shoots 18 inches (46cm) before arcing. You are now ready to turn on the turbine and prepare to spray.

For Clean up Procedures see page 7.



# Pro-Finish TSP Cart Assembly (773-683)



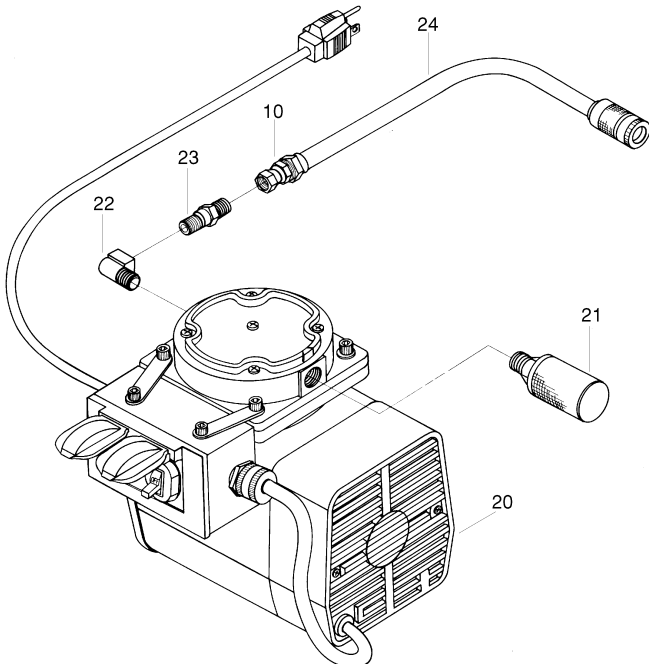
## Turbine Mounting Procedure

To mount unit:

1. Place Turbine on front of Cart and align with the two hold-down brackets.
2. Adjust Clamp (#62) to align with bottom Casting.
3. Tighten Knob (#61) to hold housing in place.
4. Plug Turbine into receptacle on compressor (#20).
5. Remove Quart Cup. Remove Fitting (#134) and install Plug (#112).

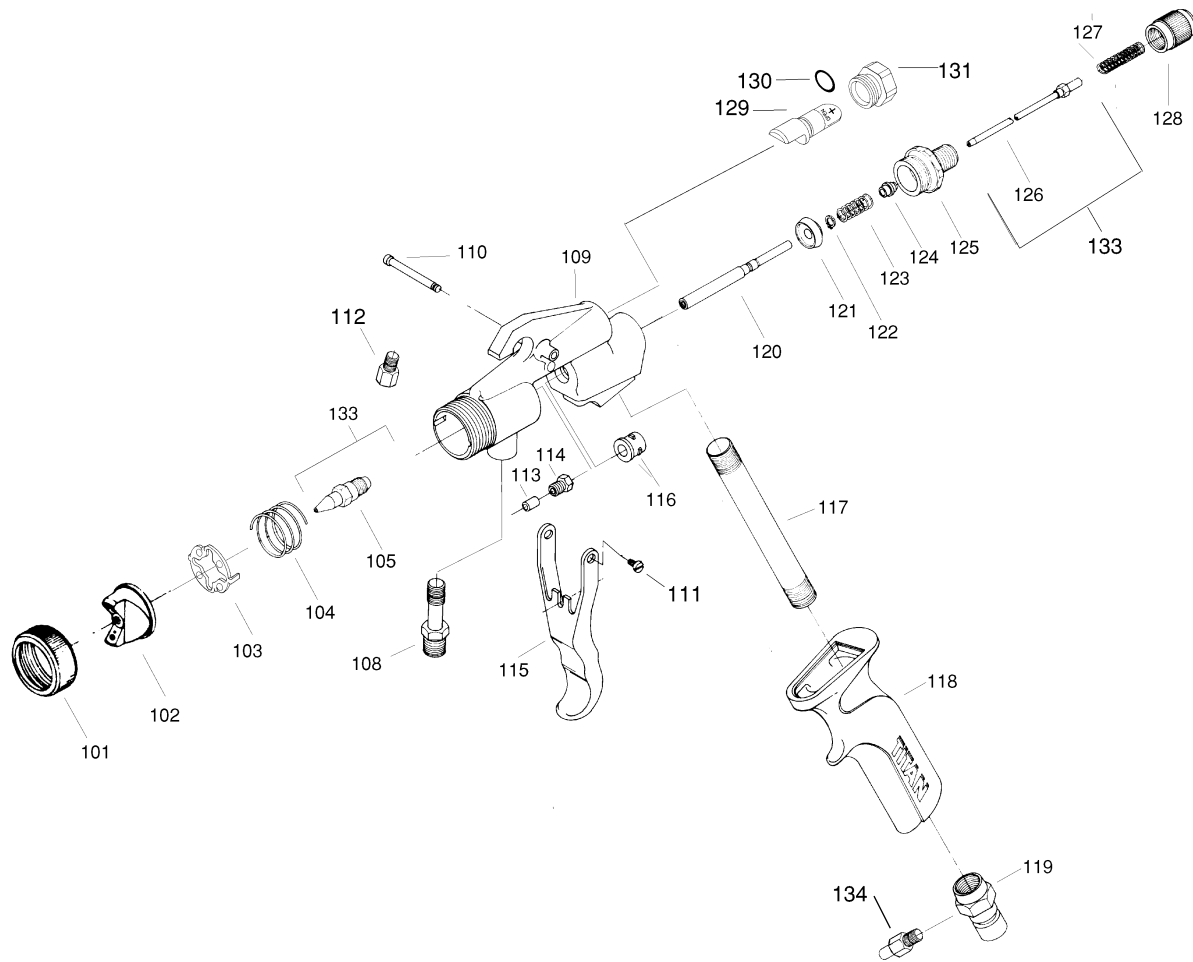
ITEM No	PART No	DESCRIPTION	QTY	ITEM No	PART No	DESCRIPTION	QTY
51	773-680	Frame	1	61	773-684	Knob	1
52	773-683	Axle	1	62	773-682	Clamp	1
53	702-087	Spacer	2	63	770-712	Screw	4
54	702-048	Wheel	2	64	770-726	Handle	1
55	710-058	Washer	2	65	770-601	Washer	4
56	756-078	Pin	2	66	770-144	Lock Nut	4
57	763-549	Lock Nut	2	67	700-069	Screw	4
58	745-051	Washer	2	68	700-761	Cord Holder	2
60	745-016	Screw	2				

## Pro-Finish Compressor Assembly (770-208 110V 773-736 220V)



ITEM No	PART No	DESCRIPTION	QTY
10	770-097	Bushing	1
20	770-205	Compressor, 110V	1
	773-734	Compressor, 220V	
21	770-545	Filter	1
22	770-547	Elbow	1
23	770-546	Valve	1
24	770-204	Air Hose	1

# Pro-Finish 773-300 Gun



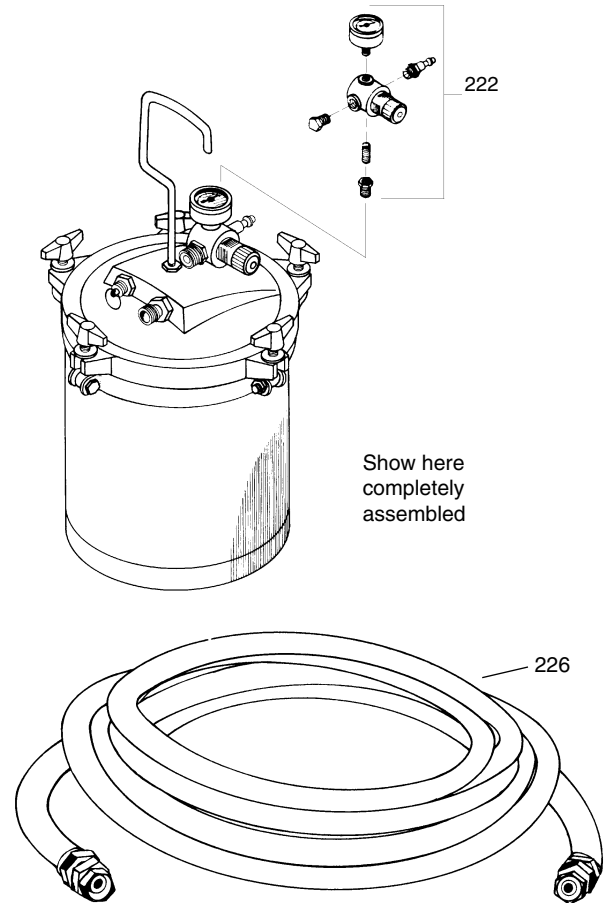
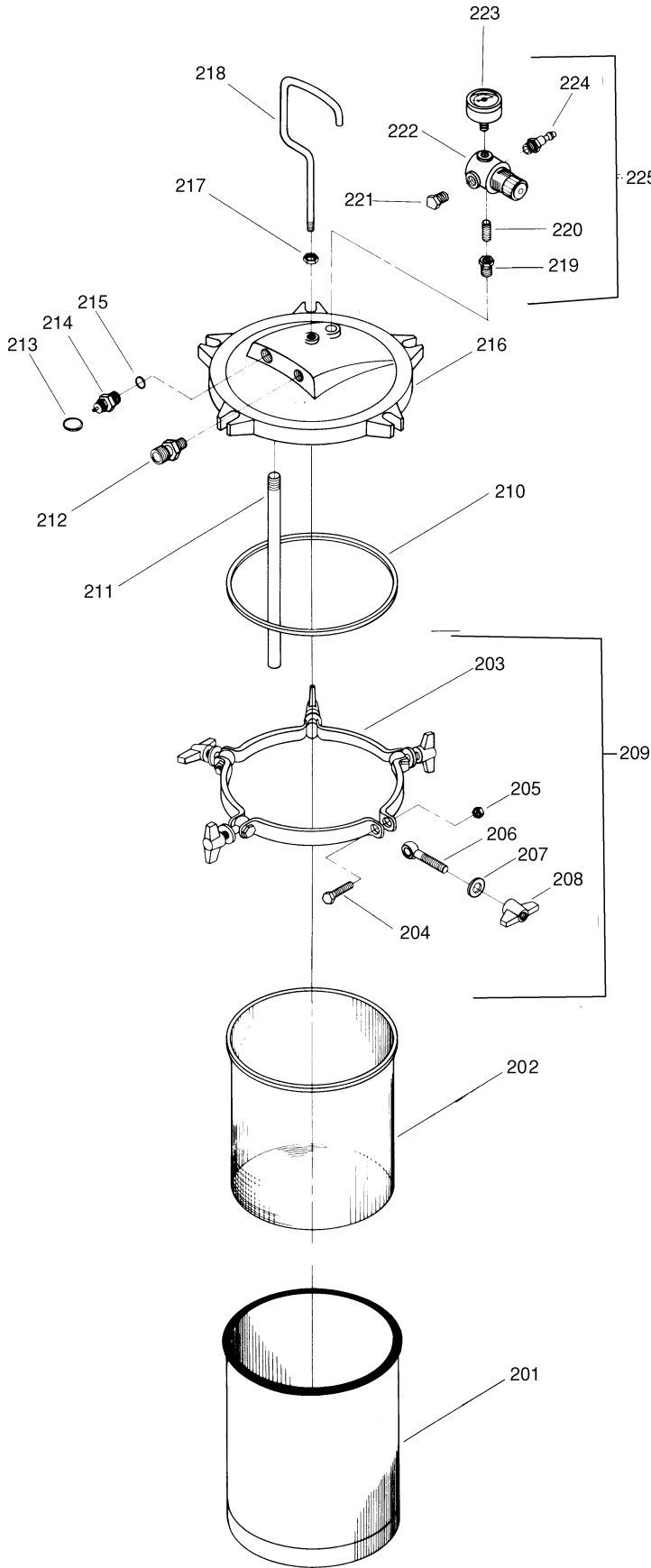
**SPECIAL NOTE: Always adjust packings after changing Fluid Needle/Nozzle.**

ITEM	PART No	DESCRIPTION	QTY	ITEM	PART No	DESCRIPTION	QTY
101	773-003	Retaining Ring	1	120	773-027	Trigger Stem	1
102	773-156	Air Cap "O"	1	121	773-029	Trigger Valve	1
103	773-132	Spring Plate	1	122	773-028	Retaining Clip	1
104	773-168	Air Cup Spring	1	123	773-021	Trigger Spring	1
105	773-128	Fluid Nozzle ".051"	1	124	773-020	Spring Bushing	1
108	490-112	Fluid Fitting	1	125	773-016	Fluid Housing	1
109	773-170	Head	1	126	773-148	Needle Assembly	1
110	580-018	Pivot Pin	1	127	773-019	Needle Spring	1
111	580-019	Pivot Screw	1	128	773-017	Adjusting Knob	1
112	770-179	Plug	1	129	773-067	Air Valve	1
113	773-005	Packing	1	130	761-722	O-Ring	1
114	773-095	Retainer	1	131	773-068	Air Valve Housing	1
115	773-033	Trigger	1		313-1078	Label - Fan Adjustment	1
116	773-031	Stem Gland	1	133	773-153	Needle, Nozzle Set	1
117	773-023	Air Supply Tube	1	134	770-178	Fitting	1
118	773-167	Handle	1		773-134	HVLP TOOL*	1
119	773-162	Fitting	1		773-135	BRUSH*	1

*\*Supplied but not pictured*

# Pro-Finish Pressure Pot Assembly (770-565)

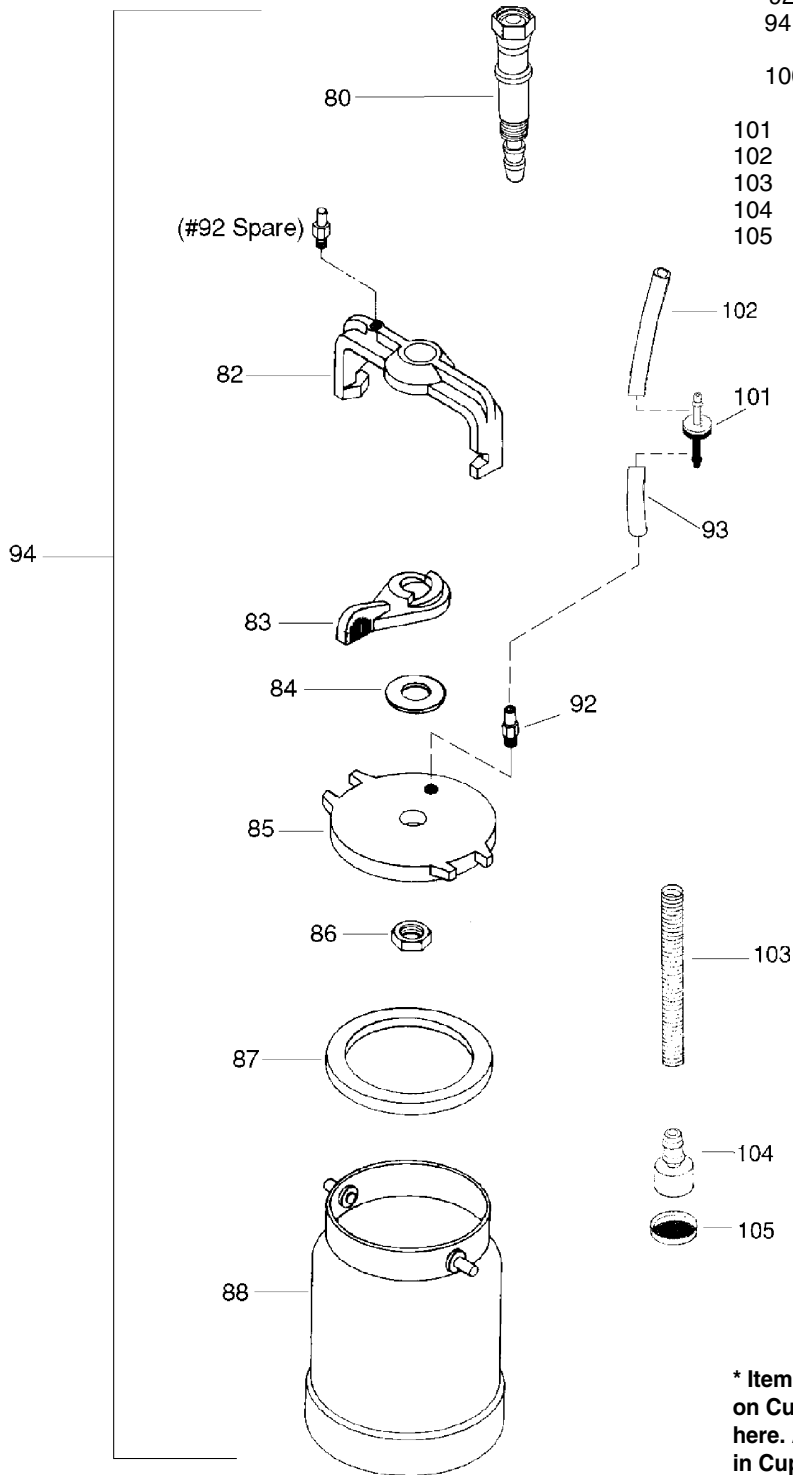
ITEM No	PART No	DESCRIPTION	QTY
201	770-561	Pot only	1
202	770-535	Liner	1
203	770-562	Bracket	5
204	770-571	Bolt	5
205	770-572	Nut	5
206	770-573	Bolt	5
207	770-574	Washer	5
208	770-569	Wing Nut	5
209	770-570	Clamp Complete (203-208)	1
210	770-534	Gasket	1
211	770-563	Tube	1
212	770-575	Fitting	1
213	730-354	Ring	1
214	770-576	Valve ( Inc. 213, 215)	1
215	221-012	Ring	1
216	770-564	Lid only	1
217	770-577	Nut	1
218	770-568	Hook	1
219	770-541	Bushing	1
220	770-542	Fitting	1
221	710-069	Plug	1
222	770-540	Regulator	1
223	770-544	Guage	1
224	770-543	Fitting	1
225	770-567	Regulator Complete	1
226	770-466	Fluid Hose	1
227	770-565	Pot Complete	1
	770-533	Pot Complete (w/o Regulator)	1
	770-537	Strainer	1





# 773-140 Quart Cup Assembly

ITEM No	PART No	DESCRIPTION	QTY
80	770-348	Tube Adapter	1
80A	773-136	Barb Fitting Top	1
82	770-165	Lock Bracket	1
83	770-164	Lock Cam	1
84	770-171	Washer	1
85	770-388	Lid (Incl. 87)	1
86	770-181	Nut	1
87	770-584	Solvent Gasket	1
88	770-195	Cup	1
*92	770-178	Fitting	2
94	770-458	Lid Complete (Incl. 80-87, 92)	1
100	773-140	Cup Complete (Incl. 80-94)	1
101	770-715	Valve	1
102	770-241	Tube	2
103	773-172	Flex Tube	2
104	773-137	Barb Weight	1
105	773-173	Screen 30 Mesh	1



\* Item #92 Fitting has two pieces supplied. Spare is located on Cup Assembly Lock Bracket (#82). DO NOT attach hose here. Attach hose (#93) only to Fitting (#92) that is located in Cup Lid (#85) and to Fitting (#12) located on Gun Body (#14).

# TITAN WARRANTY FOR THE PRO-FINISH TS / TSR / TSP

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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