





## SUMMARY

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#### THE DELIVERY OF THE MACHINE

When the customer received the machine, an immediate check must be performed to ensure all the material mentioned in the shipping documents have been received and moreover to find out that the machine has not suffered damage during transportation. If damage has occurred, get the shipping agent to verify immediately the amount and nature of the damage suffered and at the same time inform our service department. It is only by prompt action of this type that compensation for damage may be successfully claimed.

#### INTRODUCTORY COMMENT

This is a sweep & scrubbing machine which use the mechanic abrasive action of a rotary brush and the chemical action of a solution water detergent is able to clean any type of floor, picking up during its advance movement, the removed dirt and the detergent solution which has not been absorbed from the floor.

We would impress upon you that any machine will function efficiently and operate successfully, only if used correctly and maintained in fully efficient working order. We therefore suggest you to read this manual carefully and re-read it whenever difficulties arise in the course of machine use. Our service department is at your disposal for all such advice and servicing as may prove necessary.

### TECHNICAL DESCRIPTION

TECHNICAL DESCRIPTION					
TECHNICAL DATA	U/M	C350D			
Cleaning width	Mm	350			
Squeegee width	Mm	420			
Working capacity, up to	Sqm/h	850			
Brushes diameter	Mm	1x350			
Brushes speed	Rpm	180			
Brushes pressure	Kg	18 max			
Brush motor power	W	400			
Drive type		Semi-auto.			
Max. movement speed	km/h	3,5			
Max. gradient		2%			
Suction motor power	W	370			
Suction vacuum	Mbar	100			
Solution tank capacity	L	13			
Recovery tank capacity	L	15			
Machine length	Mm	720			
Machine height	Mm	900			
Machine width(without squeegee)	Mm	440			
Batteries voltage	V	24			
Batteries max. capacity	Ah	35			
Batteries compartment	Mm	286x185x228			
Batteries weight	Kg	20			
Machine weight(without batteries)	Kg	45			
Acoustic radiation pressure level	db (A)	<70			

## SYMBOLOGY USED ON THE MACHINE



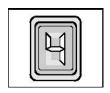
Brush symbol, indicates the brush motor switch



Vacuum motor symbol, indicates the vacuum motor switch



Battery switch symbol, indicates the power on/off



Batteries charging level symbol, indicates the batteries charging level



Indicates the detergent solution maximum temperature; it is placed close to the solution tank inlet opening



Open book symbol, indicates the operator to read the manual before using the machine



Hook symbol, indicates anchoring points and lift direction.

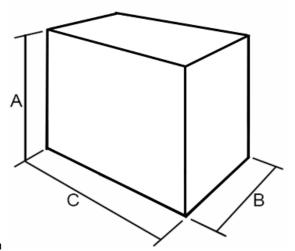


Warning symbol, carefully read the sections marked with this symbol, for the security of both operator and the machine

## MACHINE PREPARATION

### HANDLING OF THE PACKED MACHINE

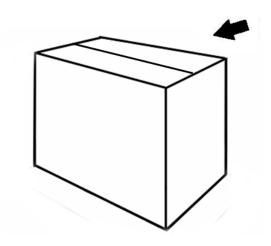
The machine is contained in specific packing with a carton box. No more than four packages can be stacked on each other, packing dimensions are as following:



**A**: 510 mm **B**: 465 mm **C**: 950 mm

## HOW TO UNPACK THE MACHINE

- 1. Open the packing on the top indicated.
- 2. Remove the machine from the packing.
- 3. Take out the recovery tank.



## **BATTERY TYPE**

For the energy supply of the machine uses two:

- 1. Lead batteries for traction use and tubular plates and electrolyte free.
- 2. Battery hermetically sealed for traction recombination of gas with gel technology.

The maximum dimensions of every battery should be: length 275mm, width 90mm, height 200mm.

The maximum weight of every battery should be 12kg.

In order to achieve a tension of 24v the batteries must be connected with a serial connection between them and the connection process has to be carried out by specialized person, which are trained by our service department.

ATTENTION: when you choose GEL batteries, the PCB board has to be reset by specialized person!

## **BATTERIES INSTALLATION**

The batteries must be housed in the battery compartment located under the solution tank. To install the batteries you must:

- 1 Remove the solution tank
- 2 Open the two rear hinges that close the battery compartment
- 3 Rotate the handlebar by lifting the handlebar control lever



- 4 Place the batteries in the compartment
- 5 Connect the cables



ATTENTION: We recommend using exclusively sealed batteries to avoid acid spillage.

## CONNECT THE BATTERY

- 1. Connect the battery connector to the machine connector.
- 2. Re-assemble everything.





ATTENTION! THE INSTALLATION PROCESS HAS TO BE CARRIED BY SPECIALISTS. A WRONG OR DEFECTIVE CONNECTION CAN CAUSE SERIALS DAMAGE TO PERSONS AND MACHINE.

## RECHARGING THE BATTERIES

Carry out a battery charge cycle before using the machine.

Make sure that the battery charger is suitable to the installed battery, both in capacity and in type.

Warning! Never charge a GEL battery with an unsuitable battery charger. Strictly follow the instructions provided by the battery and battery charger manufacturer.

In order to avoid permanent damage to the battery, they should never be totally discharged. To do this, they should be recharged within a few minutes after the battery discharge signal start to flash.





## ATTENTION:

- 1. Never left the battery completely discharged, even if the machine is not being used.
- 2. For the daily recharging of the battery it is necessary to strictly follow the instructions provided by the manufacturer or dealer.
- 3. Danger of exhalation of gas and emission of corroding substances.

## **BATTERY CHARGE LEVEL GAUGE**

The batteries' indicator is digital with 4 fixed positions and a blinking one. The numbers, which appear on the display, show the approximate charge level.

4=maximum charge 3=3/4 charge 2=2/4 charge 1=1/4 charge 0=discharged batteries (blinking)

Warning! 8 seconds after the "0" blinks, the brush motor automatically switches off. Anyway, the machine can finish drying before recharging the batteries.



In order to save space for parking and packing, the handlebar is supplied folded and must be put into its working position. Proceed as follows to do this:

- 1. Lift the handlebar by pulling up the lever indicated by the arrow
- 2. Place the machine in its working position
- 3. Mount the recovery tank on the handlebar tube using the two hooks
- 4. Insert the tubes into the fittings that exit from the ring of the recovery tank

### RECOVERY TANK

Make sure that the recovery tank is properly inserted in its housing and that the tubes are properly inserted in the tank elbows. Check that the plug is properly closed.

### **SOLUTION WATER**

Fill the solution tank with clean water at a temperature not exceed 50°C. Add liquid detergent should follow the instruction of the detergent manufacturer. Use only a minimal percentage of detergent to prevent formation of an excessive quantity of foam, as this could damage the suction motor.

## ATTENTION! NEVER USE PURE ACIDS!

### Solution tank

- 1. Check that the plug is properly inserted in its seat
- 2. Check that the cock connection is ok.

## WORK

## PREPARATION

The followings procedures must be done before installing the tanks:

- 1. Open the two rear hinges on the battery compartment
- 2. Connect the connector to the batteries
- 3. Close the battery compartment

Now install the tanks and prepare the machine for operation







## **Operation**

- 1. Turn the flow control valve to proper position.
- 2. Lower the squeegee control lever.

- 3. Press the power switch and check that the display lamp is shows "4"
- 4. Press the brush motor switch and solenoid valve switch (the upper right button).
- 5. Press the vacuum motor switch





### FORWARD MOVEMENT

Forward movement by these machines is done using the brush. When the brush is slightly inclined it pulls the machine forward.

#### ATTENTION!

WHILE GOING INTO REVERSE, EVEN BRIEFLY, MAKE SURE THAT THE SQUEEGEE IS LIFTED.

### **COMPLETION WORK**

## AT THE END OF WORK, PLEASE MAKE MAINTENANCE AS FOLLOWING:

- 1. Turn off the power switch.
- 2. Raise squeegee by lifting lever 5
- 3. Move the machine to where water is to be drained
- 4. Remove the recovery plug and empty the tank
- 5. Dismantle the brush and clean it with a jet of water

ATTENTION! Always wear gloves during this procedure, to avoid any contact with dangerous substances.

### **DAILY MAINTENANCE**

## RECOVERY TANK CLEANING

- 1. Remove the pipes from the elbows.
- 2. Open the recovery tank cover by turning it anticlockwise.
- 3. Take out the filter and clean it with a jet of water.
- 4. Rinse the recovery tank with a jet of water.

ATTENTION! Always wear gloves during this procedure, to avoid any contact with dangerous substances.

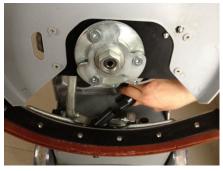
## CLEANING THE SQUEEGEE

The squeegee must be in perfect working condition to achieve a good drying process, when you found dirty on the rubber surface you need to clean them:

- 1. Lift the machine
- 2. Remove the pipe from the squeegee
- 3. Loose the knobs 1 shown in the picture to remove the squeegee

- 4. Carefully clean the inside of the squeegee
- 5. Carefully clean the rubbers
- 6. Reassemble everything.





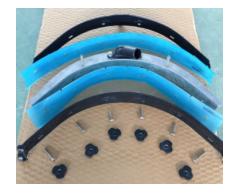


## REPLACING THE SQUEEGEE RUBBERS

Check the condition of the squeegee rubbers. Replace as necessary. To replace the rubbers:

- 1. Lift the machine and remove the pipe from the squeegee
- 2. Loose the 2 knobs to remove the squeegee
- 3. Unscrew the squeegee knobs that clamp the blades and pull them out
- 4. Remove the blades
- 5. Replace the rubbers
- 6. Re-install everything by performing these procedures in reverse





## **BRUSHES DISASSEMBLY**

- 1. Lift the squeegee
- 2. Lift the machine by pressing down on the handlebar
- 3. When the base is lifted jog the brush control. The brush releases automatically



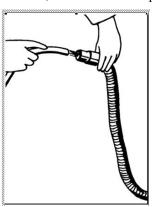
ATTENTION: Make sure there are no objects or persons near the brush when doing this operation

### WEEKLY MAINTENANCE

## **CLEANING SQUEEGEE HOSE**

Weekly or whenever the suction is insufficient, it is necessary to clean the squeegee hose, proceed as following procedures:

- 1. Remove the pipe from the squeegee sleeve.
- 2. Take out the other end from the recovery tank.
- 3. Wash the inside of the pipe with a jet of water, from the side it is plug to the tank.



4. Reassemble the pipe.

# ATTENTION! DO NOT WASH THE PIPE THAT CONNECTS THE VACUUM MOTOR AND RECOVERY TANK! CLEANING SOLUTION TANK

- 1. Unscrew the plug on the suction tank
- 2. Flush the inside of the solution tank by a jet of water
- 3. Reinstall the plug

ATTENTION! Always wear gloves during this procedure, to avoid any contact with dangerous substances.

### COMMON FAULTS AND PROCESSED MEASURES

## INSUFFICIENT WATER ON THE BRUSHES

- 1. Check there is water in the solution tank or not
- 2. Check that the solenoid valve switch is turned on ,check the flow control valve is open or not.
- 3. Check the quick fitting connection is properly engages

## THE MACHINE DOES NOT CLEAN WELL

1. Check the brushes wear and replace them if necessary; Brushes must be replaced when bristles are about 15mm high

## THE SQUEEGEE DOES NOT DRY THE FLOOR PERFECTLY

- 1. Check if the squeegee rubbers are clean.
- 2. Check the connection between the suction pipe and recovery tank.
- 3. Remove the whole suction unit and clean it.
- 4. Replace the rubbers if worn.
- 5. Check if the suction motor switch is turn on.

## FOAM OVER-FORMATION

- 1. Check if the low-foam detergent is used, if necessary add little anti-foam liquid to the recovery tank.
- 2. Please remember that more foam is generated when the floor is clean, in this case use a more diluted detergent.

#### CHOICE AND USE OF BRUSHES

### POLYPROPYLENE BRUSH (PPL)

It is used on all floor types and offers good resistance to wear and to hot water (not over 60°C). PPL is not hygroscopic, and then preserves its character even when working on wet floors.

### **NYLON BRUSH**

It is used on all floor types and offers excellent resistance to wear and to hot water (not over 60°C). NYLON is hygroscopic and tends, over a period of time, to loose its character when working on wet floors.

### **PAD HOLDER**

Pad holder is recommended for cleaning polished surface, there are two types of pad holders:

- 1. Traditional pad holders with set of anchor stubs that retain and drive abrasive disk during operation.
- CENTER LOCK Pad holders which, in addition to anchor stubs, also have a plastic snap-in centre lock system. This
  permits perfect centering of the abrasive disk and ensures it is kept anchored without detaching. This type of pad holder is
  best for machines with several brushes.

#### LIST FOR THE CHOICE OF BRUSHES

Machine	Quantity	Bristles	Bristle diameter	Brush diameter
		PPL	0.35mm	
		PPL	0.5mm	
C350D	1	PPL	0.7mm	354.6mm
		Abrasive		
		Pad holder		

## **GENERAL SECURITY RULES**

Please carefully follow the listed below rules in order to avoid harm to the operator and damage to the machine:

- 1. Read the labels on the machine carefully. Never cover them for any reason and always immediately replace them if they are damaged.
- 2. The machine is to be used only by authorized and trained person.
- 3. Pay attention to other people particularly to children while the machine is working.
- 4. The machine is not suitable for cleaning carpets.
- 5. Never mix different types of detergent: this could generate noxious gases.
- 6. Never load the machine into container with liquids in it.

- 7. Never put the machine in lateral and invert placement.
- 8. Machine storage temperature must be between -25°C and +55°C.
- 9. Operating conditions: room temperature between 0°C and +40°C with respective humidity between 30 and 95.
- 10. Never use the machine in an explosive environment.
- 11. Never use the machine to transport goods.
- 12. Never use acid solutions, which could damage people or the machine.
- 13. Avoid running the brushes with the machine stopped: it could damage the floor.
- 14. Never use flammable liquids.
- 15. The machine is not suitable for cleaning hazardous dust.
- 16. Use a powder fire extinguisher in case of fire, do not use water.
- 17. Do not hit against shelving or scaffolding when there is danger of falling objects.
- 18. Do not exceed over the limit gradient stated on the machine plate, to avoid conditions of instability.
- 19. Never running the machine on uneven floor or in the area with big dust.
- 20. The machine must perform washing and drying operations at the same time, operating on wet floor with suitable signs.
- 21. Whenever the machine has operating troubles please make sure they are not caused by insufficient maintenance, then contact the nearest MC service centre.
- 22. When replacing machine parts, always ask for original MC spare parts from authorized agent or dealer.
- 23. Use only original MC brushes indicate in the chapter "CHOICE AND USE OF BRUSHES".
- 24. Always cut off the electric power of the machine whenever maintenance is performed.
- 25. Restore all electrical connections after any maintenance operation.
- 26. Never remove guards that require tools for removal.
- 27. Never wash the machine with direct pressured jet of water or with corrosive substances.
- 28. Send your machine to the nearest MC service centre to check after 200 operating hours.
- 29. Do not fill the detergent solutions many hours before using the machine.
- 30. Before using the machine, make sure that all the covers and caps are positioned as shown in this manual.
- 31. Deal with the consumption materials according to the local laws.
- 32. After years of efficient work your machine will be ready to "scrap", deal with its composing materials in proper way, and please remember that the machine has been built using totally recyclable materials.
- 33. Children should be supervised to ensure that whey do not play with the appliance.

The information contained herein is confidential and is intended to be used by Prolux Cleaners authorized distributors and sales representatives.

Prolux Cleaners guarantees its products according to the terms outlined below. There are no other warranties expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Under no circumstances will Prolux Cleaners or the seller be liable for any loss, damage, expense, or consequential damage arising in connection with the use or inability to use these products. If a component fails to meet the term of the warranty due to defects in workmanship or materials, Prolux Cleaners will repair or replace the defective component free of charge, including labor according to our flat rate schedule and the Prolux Cleaners Warranty Procedures.

All warranties implied below are subject to the Exceptions and Exclusions clause in this policy located in this document.

Product Category	Polyethylene	Steel	Switches, Motors	
	and Structural	Body	Electrical Parts	Labor
	Foam	Parts		Paid
Machine	Years	Years	Years	Years
			3yr Switches	
			3yr or 700hrs (whichever	
Battery Walk Behind	5	2	comes first) on the motor	1
Scrubbers 14" and 18"			3yr Electrical Parts	
			12mo Pro Rated Lithium	
			Ion Battery	
			1yr Switches	
			2yr or 700hrs (whichever	
Wide Area Vacuum	5	2	comes first) on the motor	1
			1yr Electrical	
			Parts	
Gel Batteries (3) (4)	N/A	N/A	12mo of Full Coverage	N/A
			12mo Pro Rated Lithium	
Micro Scrubber	3	2	Ion Battery	1
			2yr Switches	
			3yr or 800hrs (whichever	
Canister Vacuums	5	N/A	comes first) on the motor	1
			3yr Electrical Parts	
			2yr Switches	
Backpack Vacuums			3yr or 700hrs (whichever	
	5	N/A	comes first) on the motor	2
			3yr Electrical Parts	
			1yr Switches	
			2yr or 500hrs (whichever	
Upright Vacuums	N/A	N/A	comes first) on the motor	1
			1yr Electrical Parts	
			2yr Switches	
			2yr or 500hrs (whichever	
Garage Vacuums	1	10	comes first) on the motor	2
			5yr Electrical Parts	
			2yr Switches	
			2yr or 500hrs (whichever	
Wet Dry Vacuums	10	N/A	comes first) on the motor	2
			2yr Electrical Parts	
			1yr Switches	
			2yr or 700hrs (whichever	
Carpet Extractors and	10	2	comes first) on the motor	1
Fabric Care			2yr Electrical Parts	

Central Vacuums	N/A	10	2yr Switches 2yr or 800hrs (whichever comes first) on the motor	2
			5yr Electrical Parts	
Structural Foam Floor			3yr Switches	
Machines			3yr or 700hrs (whichever	
	10	2	comes first) on the motor	2
			3yr Electrical Parts	
			1yr Switches	
Commercial Floor			2yr or 900hrs (whichever	
Scrubber	5	3	comes first) on the motor	1
13"/15"/17"/20"			1yr Electrical Parts	
			1yr Switches	
			1yr or 300hrs (whichever	
Ozone Generator	N/A	1	come first) on the motor	1
			1yr Electrical Parts	
			1yr Switches	
			2yr or 700hrs (whichever	
Steam Extractor	5	N/A	comes first) on the motor	1
Z COMIT EMMONOT		1 1/11	2yr Electrical Parts	•
			2yi Dicericai i aris	

### Warranty Coverage Information and warranty voids/exclusions

- 1. Vacuum(s): (Backpack, Cannister, Wide Area and Upright Vacuums) must be used with a Prolux Vacuum bag to qualify for their applicable motor warranty. If the vacuum is used bagless or with another manufacturer's vacuum bag, the warranty is 1 year. Damage or malfunction caused by negligence, abuse, neglect, unauthorized repair, or any other use not in accordance with the user guide is not covered. Damage caused by misuse (e.g., vacuuming up water or other liquids), abuse, negligent handling, failure to perform required maintenance (e.g., not cleaning the equipment, replacing filters) or damage due to mishandling in transit.
- 2. Subject to the Gel Battery exception and exclusion paragraph located on page 4 of this document.
- 3. Subject to the Gel Battery Warranty Coverage explained on page 3 of this document.
- 4. Steam Extractor/Steam Carpet Extractor: This warranty does not apply and is void if the pump, vacuum motor, or heater has worn motor brushes, water damage, freezing, chemical build-up, chemical damage, or evidence of abuse, neglect, or tampering. brushes. Damage or malfunction caused by negligence, abuse, neglect, unauthorized repair, or any other use not in accordance with the user guide is not covered.
- 5. Walk behind 14" and 18" automatic scrubbers: This warranty does not apply to normal wear, or to items whose life is dependent on their use and care such as belts, cords, switches, hoses, rubber parts, brushes, electrical motor components or adjustments.
- 6. Ozone Generators: Warranty does not ozone cover plates or filters.

Warranty shall commence six (6) months from the purchase date by the Prolux Cleaners distributor, or on the purchase date by the original end user. Whichever comes first.

### **Labor Rate**

Prolux Cleaners will allow \$50.00 per hour for warranty labor work. All warranty labor charges will be paid on this basis. Any repair that requires less than fifteen minutes of labor will not be eligible for reimbursement. This labor allowance does not take into consideration troubleshooting or diagnosis time taken for the repair. All repair times are subject to the flat rate schedule enclosed in this document.

If any operation is not covered in this flat rate schedule, Prolux Cleaners will determine a labor rate when a claim is made based on actual repair times by our own service technicians.

**Please note:** Situations may arise that require special consideration. In these cases, to request special consideration, please contact your Prolux Cleaners warranty department or Prolux Cleaners salesperson and or rep group.

#### Travel Allowance

Travel allowance charges are covered for 180 days from date of purchase to the original end-user for all **battery equipment** Prolux Cleaners will pay \$50.00 per hour to a maximum of 2 hours. Travel allowance for other products is not covered under the warranty policy. It is the purchasers' responsibility to bring equipment to the dealer for warranty repair.

Repair of any components or machines by independent service stations is not allowed except by prior authorization. If unauthorized service is performed by a third party, any debts incurred are the responsibility of the distributor.

### **Replacement Parts**

Replacement parts for machines exceeding the original warranty period are covered for ninety (90) days. Replacement parts that are considered wear items carry no warranty.

## Clearance and Demo Products

Clearance and demo products are covered for the remainder of the original warranty period or six (6) months from the date of sale to the original end user, whichever is greater. This excludes gel batteries.

#### Warranty Parts Shipping Policy

All parts ordered for warranty replacement will be shipped standard ground service. Any requests for expedited delivery will be at the expense of the distributor.

Batteries used in Prolux Cleaners equipment are warranted by their original equipment manufacturers. All warranty claims on batteries will be referred to their original OEM by Prolux Cleaners for inspection. Under no circumstances will Prolux Cleaners or the seller be liable for any loss, damage, expense or consequential damage arising in connection with the use or inability to use these products.

If you have a defective gel battery within its respective warranty period, please follow the instructions below:

- 1. Contact the Prolux Cleaners warranty department with the machine information (Serial number, Date of Purchase etc.)
- 2. If the battery is deemed to be within the warranty period, Prolux Cleaners will arrange a date to inspect and replace (upon inspection approval) the battery with the OEM.
- 3. The OEM will pick-up and test/inspect the battery to determine the defect.
- 4. If the battery is deemed to be defective by manufacturers defect, the OEM will replace the battery with a new battery.

If the defect was caused by the user (i.e. undercharging, left in a discharged state etc.), the battery manufacturer will deliver the defective battery back to you with a report explaining why the warranty coverage was denied.

Prolux Cleaners is not responsible for labor, freight, travel, or installation charges associated with battery diagnosis or replacement when the warranty coverage is denied by the OEM.

All warranties implied above are subject to the Exceptions and Exclusions clause in this policy.

#### **Gel Batteries:**

Our warranty does not cover batteries that have suffered damage due to over or under charging or batteries that have suffered sulphation due to being left in an uncharged state for any period of time. Warranty will not be allowed under any circumstances if there has been any tampering with the vent covers. Transit or storage damage is also not covered.

Warranty coverage does not apply to parts which fail due to the following conditions:

- Improper or low voltage
- Improper extension cord selection
- Dirty or inefficient water supply
- Inappropriate chemical use
- Improper or insufficient service or maintenance
- Used with clogged or damaged filters.
- Used without a filter.
- Use of a machine in excess of design duration or any conditions damaging to the normal operation of the equipment.
- Disassembly of any components, such as motors, may result in the refusal of warranty coverage.
- 1. Any parts replaced under warranty are only covered for the remainder of the original warranty period.
- 2. Warranty service can only be performed by authorized distributors or approved warranty repair centers.
- 3. Compensation for repairs is determined by the flat rate schedule enclosed in this document.
- 4. Components that have become defective through wear or abuse are not covered by this warranty.

## Wear Items

Numerous items wear out under normal usage conditions. These items are not eligible for warranty coverage. These include vacuum hoses, hose cuffs, hose fittings, brushes, belts, filters, filter screens, grips, skirts, pad drivers or brushes, Clutches, Castors, Pulleys, Wheels, Tires, Light Bulbs, Gaskets, battery cables and connectors, carbon

brushes, filters, fuses, drain hoses, power cords, squeegee blades, bearings, O-rings, armatures, floor tools, and vacuum bags.

This is only a partial listing of wearable items. Please contact the Prolux Cleaners warranty department for clarification of wearable items not listed in this document.

## Freight Damage:

Freight damage is not covered under the Prolux Cleaners warranty policy.

## **Replacement Parts:**

Prolux Cleaners will not honor any warranty claims for parts, labor, or travel if the replacement part was not purchased through Prolux Cleaners.

Prolux cleaners reserves the right to review or modify the above document at any time without specific written or prior notice. This warranty policy precedes all other warranty policies previously published.