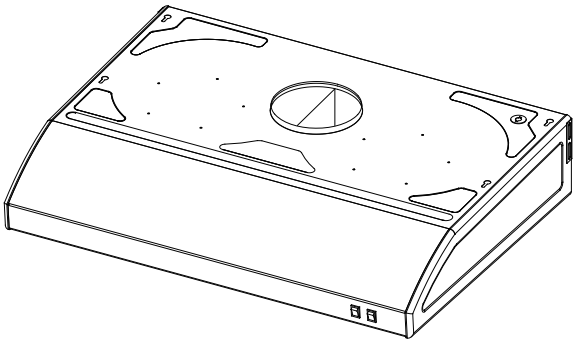
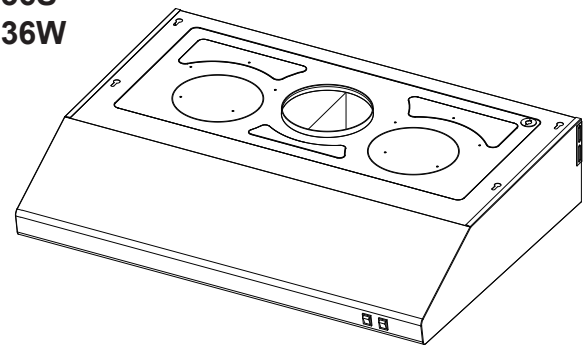
PACIFIC

Use, Care, and Installation Guide

PR-2011S
PR-2011W
PR-2011-36S
PR-2011-36W



PR-1230S
PR-1230W
PR-1236S
PR-1236W



Model number: _____
Serial Number: _____
Date of Purchase: _____
Sales Dealer: _____

XP022309(1)

Table of Contents

Important Safety Notice

READ AND SAVE THESE INSTRUCTIONS

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT USE THIS FAN WITH ANY SOLID-STATE CONTROL DEVICE.

WARNING

TO REDUCE THE RISK OF FIRE ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

a. Use this unit only in the manner intended by the manufacturer, if you have questions, contact the manufacturer.
b. Before servicing or cleaning unit, switch power off at service panel and lock panel to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag,to the service panel.

CAUTION

For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors. Take care when using cleaning agents or detergents. Suitable for use in household cooking area.

WARNING

TO REDUCE THE RISK OF RANGE TOP GREASE FIRE:

a. Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heatoils slowly on low or medium settings.
b. Always turn hood ON when cooking at high heat or when fl aming food
c. Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan or filter.
d. Use proper pan size. Always use cookware appropriate for the size of the surface element.
e. Keep fan, filters and grease laden surfaces clean.
f. Use high setting on hood only when necessary.
g. Don't leave hood unattended when cooking.
h. Always use cookware and utensils appropriate for the type of and amount of food being prepared.

WARNING

TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP FIRE, OBSERVE THE FOLLOWING:

a. SMOTHER FLAMES with a close-fitting lid, cookie sheet, or metal tray, then turn off the burner. BE CAREFUL TO PREVENT BURNS. If the flames do not go out immediately, EVACUATE AND CALL THE FIRE DEPARTMENT.
b. NEVER PICK UP A FLAMING PAN – You may be burned.
c. DO NOT USE WATER, including wet dishcloths or towels – a violent steam explosion will result.
d. Use an extinguisher ONLY if:
1. You know you have a Class ABC extinguisher, and you already know how to operate it.
2. The fire is small and contained in the area where it started.
3. The fire department is being called.
4. You can fight the fire with your back to an exit

WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

a. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards. Including fire-rated construction.
b. Sufficient air is needed for power combustion and exhausting of gases through the fiue (chimney) of fuel burning equipment to prevent back-drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA) and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) and the local code authorities.
c. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
d. Ducted fans must always vent to the outdoors.
e. NEVER place a switch where it can be reached from a tub or shower.
f . Make sure the power is off before installing, wiring or maintenancing.

WARNING

TO REDUCE THE RISK OF FIRE, USE ONLY METAL DUCTWORK.
NOT FOR USE IN OUTDOOR COOKING ENVIRONMENTS.

CAUTION

To reduce risk of fire and to properly exhaust air outside - Do not vent exhaust air into spaces within walls, ceilings, attics, crawl spaces or garages.

OPERATION

Always leave safety grilles and filters in place. Without these components,operating blowers could catch onto hair, fingers and loose clothing.
The manufacturer declines all responsibility in the event of failure to observe the instructions given here for installation,maintenance and suitable use of the product. The manufacturer further declines all responsibility for injury due to negligence and the warranty of the unit automatically expires due to improper maintenance.

ELECTRICAL REQUIREMENTS

Important:

Observe all governing codes and ordinances.
It is the customer's responsibility:

- To contact a qualified electrical installer.
- To assure that the electrical installation is adequate and in conformance with National Electrical Code, ANSI/NFPA 70 latest edition* or CSA standards C22.1-94, Canadian Electrical Code, Part 1 and C22.2 No.0-M91 - latest edition** and all local codes and ordinances.

If codes permit and a separate ground wire is used, it is recommended that a qualified electrician determine that the ground path is adequate.
Do not ground to a gas pipe.
Check with a qualified electrician if you are not sure the range hood is properly grounded.
Do not have a fuse in the neutral or ground circuit.
*National Fire Protection Association Batterymarch Park, Quincy, Massachusetts 02269
** CSA International 8501 East Pleasant Valley Road, Cleveland, Ohio 44131-5575
This appliance requires a 120V 60Hz electrical supply and connected to an individual properly grounded branch circuit protected by a 15 or 20 ampere circuit breaker or time delay fuse. Wiring must be 2 wire with ground. Please also refer to Electrical Diagram on product.
A cable locking connector (not supplied) might also be required by local codes.
Check with local requirements, purchase and install appropriate connector if necessary.

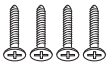
List of Materials

MODELS: PR-1230S/PR-1230W/PR-1236S/PR-1236W
PR-2011S/PR-2011W/PR-2011-36S/PR-2011-36W

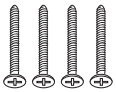
PARTS SUPPLIED

1 - Hood body
2 - Safety grilles
2 - 40W light bulb (pre-installed)
1 - Hardware package

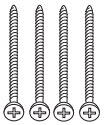
M4 x 1" (4)



M4 x 1-1/2" (4)



M4 x 2" (4)

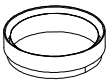


3/16*1/2 (4)

ø12 OD / ø5 ID
Washers (5)

Wire Caps (3)

6"Collar(1)

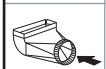


wall bracket (2)

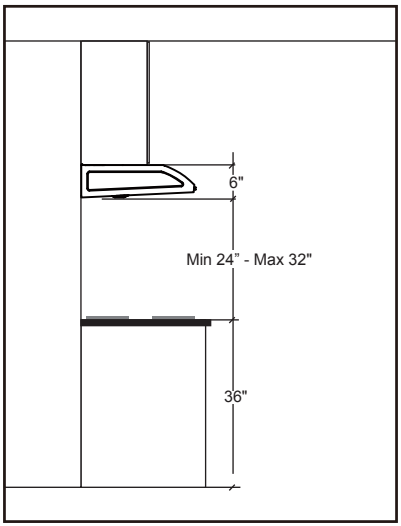
PARTS NOT SUPPLIED

- Ducting, conduit and all installation tools
- Backdraft damper
- Cable lock (*if required by local codes*)

Duct pieces		Equivalent length	number x used	=	Total	
	3-1/4" x 10" Rect., straight	1 Ft.	x ( )	=		Ft.
	6" Round, straight	1 Ft.	x ( )	=		Ft.
	7"-10" Round, straight	1 Ft.	x ( )	=		Ft.
	3-1/4" x 10" Rect. 90˚ elbow	15 Ft.	x ( )	=		Ft.
	3-1/4" x 10" Rect. 45˚ elbow	9 Ft.	x ( )	=		Ft.
	3-1/4" x 10" Rect. 90˚ flat elbow	24 Ft.	x ( )	=		Ft.
	3-1/4" x 10" Rect. wall cap with damper	30 Ft.	x ( )	=		Ft.
	3-1/4" x 10" Rect. to 6" round transition	5 Ft.	x ( )	=		Ft.
	3-1/4" x 10" Rect. to 6" round transition 90˚elbow	20 Ft.	x ( )	=		Ft.
	6" Round, 90˚elbow	15 Ft.	x ( )	=		Ft.
	6" Round, 45˚elbow	9 Ft.	x ( )	=		Ft.
			Subtotal column 1 =			Ft.

Duct pieces		Equivalent length	number x used	=	Total	
	6" Round wall cap with damper	30 Ft.	x ( )	=		Ft.
	6" Round, roof cap	30 Ft.	x ( )	=		Ft.
	6" round to 3-1/4" x 10" rect. transition	1 Ft.	x ( )	=		Ft.
	6" round to 3-1/4" x 10" rect. transition 90˚elbow	16 Ft.	x ( )	=		Ft.
	7" - 10" Round, 90˚elbow	15 Ft.	x ( )	=		Ft.
	7" - 10" Round, 45˚elbow	9 Ft.	x ( )	=		Ft.
	7" - 10" Round wall cap with damper	30 Ft.	x ( )	=		Ft.
	7" - 10" Round, roof cap	30 Ft.	x ( )	=		Ft.
	7" round to 3 1/4" x 10" rect. transition	8 Ft.	x ( )	=		Ft.
	7" round to 3-1/4" x 10" rect. transition 90˚elbow	23 Ft.	x ( )	=		Ft.
			Subtotal column 2 =			Ft.
			Subtotal column 1 =			Ft.
			Total ductwork	=		Ft.

Maximum Duct Length: For satisfactory air movement, the total duct length should not exceed 100 equivalent feet.



DUCTING

A minimum of 6" round must be used to maintain maximum air flow efficiency.

Always use rigid type metal ducts only. Flexible ducts could restrict air flow by up to 50%.

Also use calculation (on page 4) to compute total available duct run when using elbows, transitions and caps.

If turns or transitions are required; install as far away from hood duct output and as far apart, between the two as possible.

Minimum mounting height between range top to hood bottom should be no less than 24".

Maximum mounting height should be no higher than 32".

It is important to install the hood at the proper mounting height. Hoods mounted too low could result in heat damage and fire hazard; while hoods mounted too high will be hard to reach and will lose its performance and efficiency.

If available, also refer range manufacturer's height clearance requirements and recommended hood mounting height above range.

Vertical Ducting:
6" round minimum

DAMAGE-SHIPMENT / INSTALLATION:

- Please fully inspect unit for damage before installation.
- If the unit is damaged in shipment, return the unit to the store in which it was bought for repair or replacement.
- If the unit is damaged by the customer, repair or replacement is the responsibility of the customer.
- If the unit is damaged by the installer (if other than the customer), repair of replacement must be made by arrangement between customer and installer.

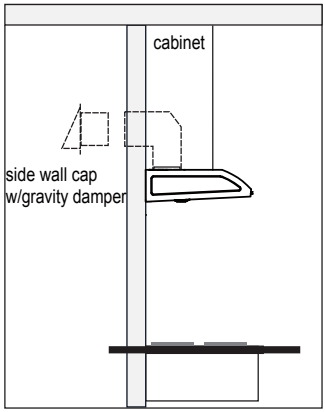
WARNING FIRE HAZARD

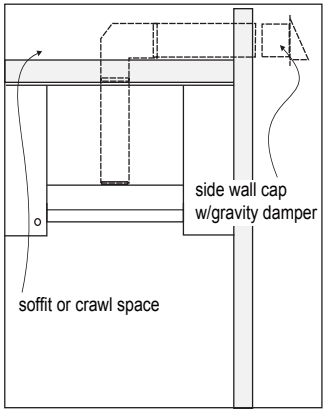
NEVER exhaust air or terminate duct work into spaces between walls, crawl spaces, ceiling, attics or garages. All exhaust must be ducted to the outside.

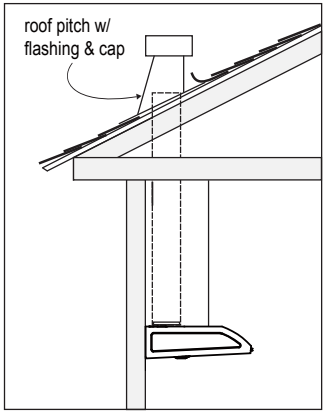
Use metal ductwork only.

Fasten all connections with sheet metal screws and tape all joints with certifi ed Silver Tape or Duct Tape.

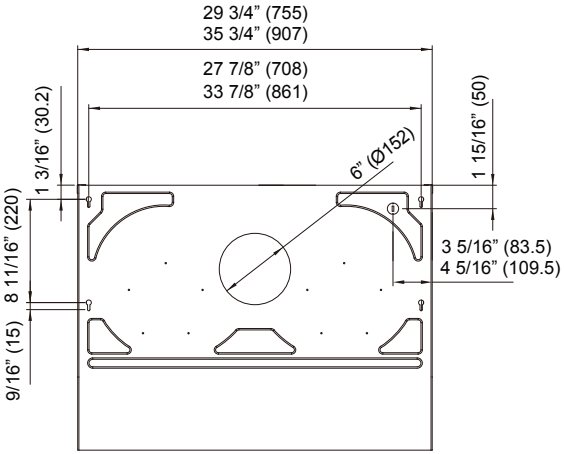
Some Ducting Options



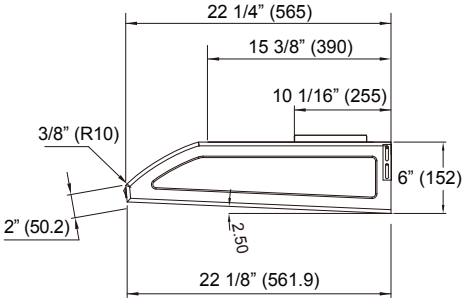




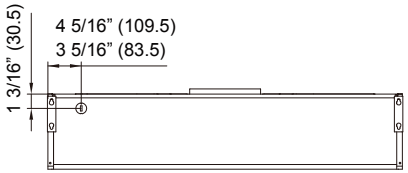
MODELS: PR-2011S/PR-2011W
PR-2011-36S/PR-2011-36W



TOP

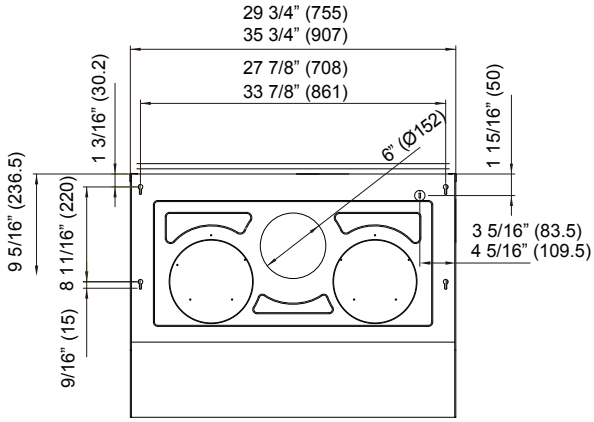


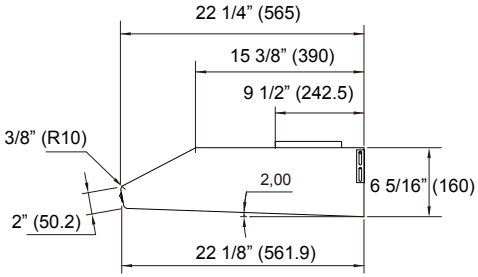
SIDE



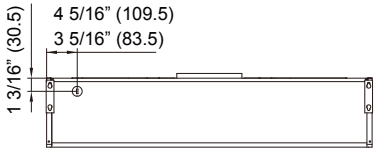
BACK

MODELS: PR-1230S/PR-1230W/PR-1236S/PR-1236W





SIDE



BACK

ELECTRICAL

WARNING

All Electrical work must by performed by qualified electrician or person with similar technical knowledge and background.

For personal safety, remove house fuse or open circuit breaker before beginning installation. Do not use extension cord or adapter plug with this appliance.

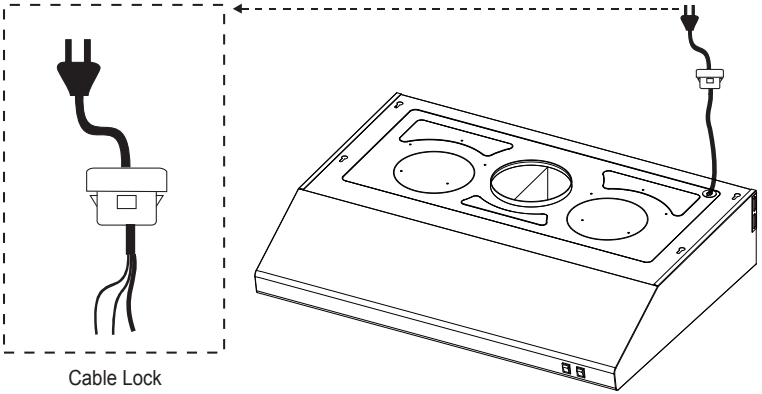
Follow national electrical codes or prevailing local codes and ordinances.

Electrical Supply:

This appliance requires a 120V 60Hz electrical supply, and connected to an individual, properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker or time delay fuse. Wiring must be 2 wire w/ ground. Please refer to Electrical Diagram labeled on product.

Cable Lock:

A cable locking connector (not supplied) might also be required by local codes. Check with local requirements and codes, purchase and install appropriate connector if necessary.



Cable Lock

MODELS: PR-1230S/PR-1230W/PR-1236S/PR-1236W

Hood is designed for installation under a kitchen cabinet. See Fig. 1 for details.

1. Prepare duct location on hood (vertical).
2. Measure and cut out duct and electrical openings in cabinet or wall to match up with the hood. Ducting and electrical dimensions can be found on Page 7.
   Note: Makesure duct opening is large enough to apply aluminum duct tape.
3. Reinforce cabinet bottom with wood strips if additional strengthening is required or if cabinets are framed.
4. Remove bottom panel from hood using a Philips head screwdriver to remove each of the (3) screws. Also remove lighting harness by pressing in on the clip to release the lights from the internal wiring.
5. Install (4) wood screws to cabinet bottom by following the installation screw hole dimensions on Page 7. These screws will be used to secure the hood to the cabinet.
6. Lift hood onto screws located on cabinet bottom and lock into place. Make sure all (4) key-holes cover the screws. Tighten each screw to secure hood to cabinet.
7. Install electrical.
8. Install duct work and seal with aluminum duct tape.
9. Power up hood and check for leaks around duct tape and test all functions.
10. Reinstall bottom panel and re-connect lighting harness.
11. Slide residue cups into their openings on the bottom of the hood. Install safety grilles over each blower opening and secure with the two safety grille screws.

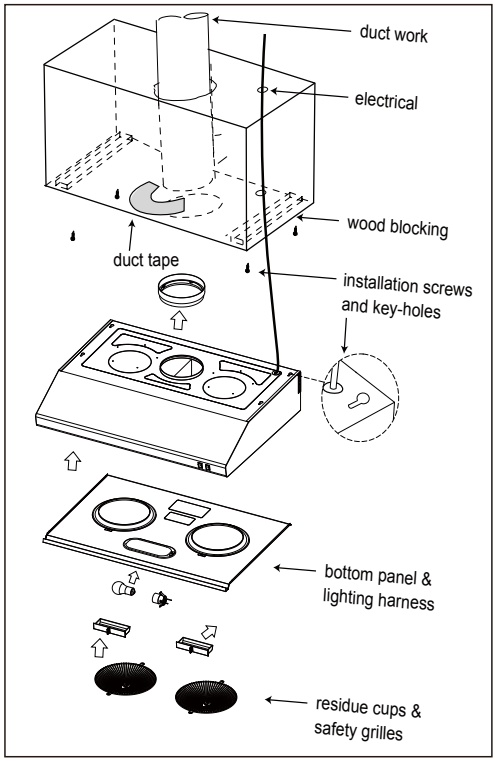


Fig 1

MODELS: PR-2011S/PR-2011W/PR-2011-36S/PR-2011-36W

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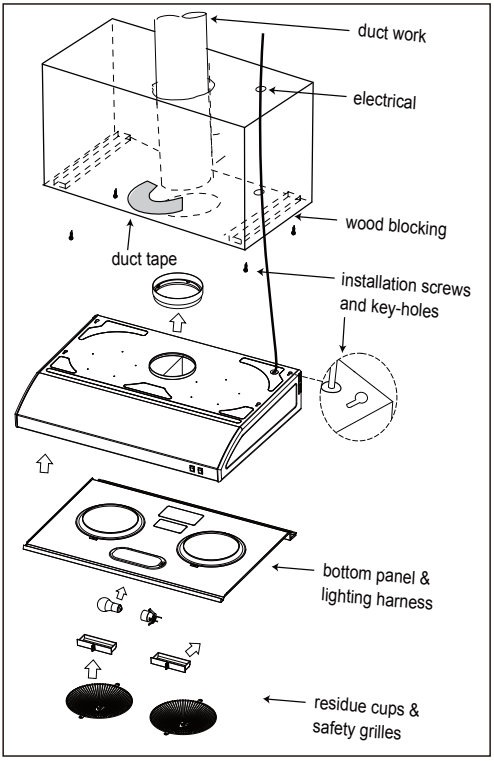
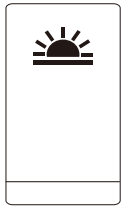


Fig 1



1 Lights On/Off

2 Blower On/Speed Selection

1 Lights On/Off

Swtich lights on and off by pressing:
| mean turn on light
|| mean turn off light.

2 Blower On/Speed Selection

Turn on blower at one of two seeds by pressing:
| mean turn on blower at speed 1
|| mean turn on blower at speed 2
O mean turn off blower.

SELF CLEAING FEATURE

PR-2011/PR-1230 hoods are filter-less with a self cleaning feature. The centrifugal blower system automatically liquifies cooking residue in its internal housing. All hoods are equipped with dish-washer safe residue cups to collect cooking residue during the self cleaning function.

Cooking residues are often automatically liquified and can accumulate in the residue cups from everyday use. Nevertheless, grease from cooking could also dry and adhere to the internal housing. Running the self clean function periodically will flush out accumulated residue in the range hood's internal housing.

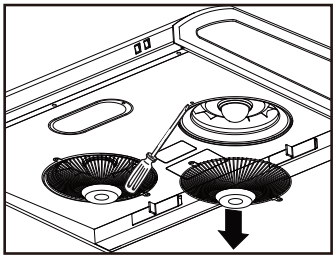
CLEANING FREQUENCY

Cleaning should be performed approximately once a month under normal usage of 1 hour per day. The hood may need to be cleaned more often if you cook heavily.

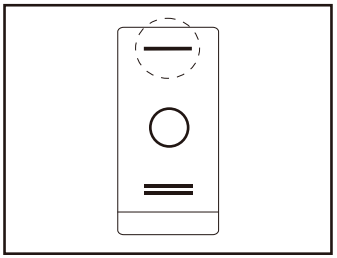
DETERGENT

Use a grease cutting detergent such as Simple Green or 409.

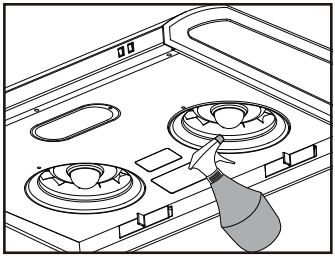
CLEANING INSTRUCTIONS



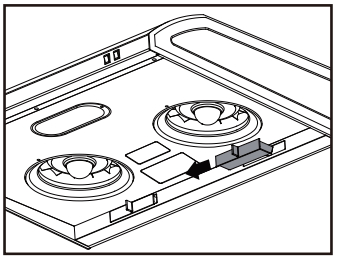
1) Remove safety grilles by removing the Philips head screw securing each grille to the hood body.



2) Power on blowers at Speed 1.



3) With nozzle on "spray", squirt grease cutting detergent onto blower wheel blades 30 - 35 times. Repeat for each blower. Detergent will collect in the residue cups.



4) Remove residue cups. Clean residue cups and safety grilles in dishwaser or clean by hand. Replace residue cups and safety grilles after cleaning.

WARNING

Use extreme caution while cleaning the hood when safety grilles are removed. Beware of blowers catching on to hair, loose clothing and fingers. NEVER leave children unattended.

SURFACE MAINTENANCE

Clean periodically with hot soapy water and clean cotton cloth. Do not use corrosive or abrasive detergent, or steel wool/scouring pads which will scratch and damage surface.
Do not use products containing chlorine bleach or orange cleaners.

For heavier soil use liquid degreaser.

After cleaning, you may use non-abrasive stainless steel polish/ cleaners, to polish and buff out the stainless luster and grain. Always scrub lightly using a microfiber or clean cotton cloth and with grain.

CLEANING TIP

Fill residue cups 1/4 full with water after cleaning.
This will help prevent residue from drying and sticking on the cup surface.

REPLACING LIGHT BULBS

CAUTION: Light bulb becomes extremely hot when turned on.

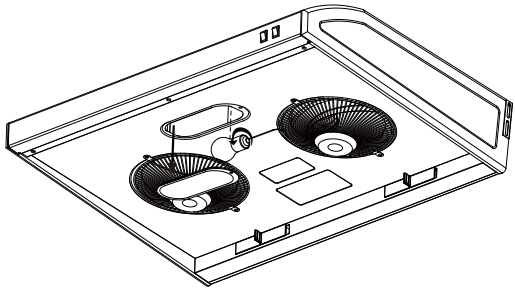
DO NOT touch bulb until switched off and cooled. Touching hot bulbs could cause serious burns.

Make sure all power is turned off and bulbs are not hot.

Remove by turning bulb counter clockwise.
Note: Bulb does not unscrew; it turns 60 degrees, stops and falls out.

If bulbs are difficult to turn due to prolonged use, firmly attach suction cup included in hardware package or use a rubber/latex glove and turn counter clockwise.

Replacement bulbs are available at specialty lighting stores. Purchase type 40W light bulb.



TROUBLESHOOTING PROCEDURES

Issue	Cause	What to do
After installation, the unit doesn't work.	1. The power source is not turned ON	1. Make sure the circuit breaker and the unit's power is ON.
	2. The power line and the cable locking connector is not connecting properly.	2. Check the power connection with the unit is connected properly.
	3. The switch board and control board wirings are disconnected.	3. Make sure the wirings between the switch board and control board are connected properly.
	4. The wires on control board are loose	4. Make sure the wires on the control board are connected properly.
	5. The switch board or control board is defective.	5. Change the switch board or control board.
Light works, but motor is not turning.	1. The motor is defective, possible seized.	1. Change the motor.
	2. The thermally protected system detects if the motor is too hot to operate and shuts the motor down.	2. The motor will function properly after the thermally protected system cool down.
	3. Damaged capacitor.	3. Change the capacitor.
	4. The motor wire is not connected.	4. Make sure the motor wire is plugged into the molex connector.
The unit is vibrating.	1. The motor is not secure in place.	1. Tighten the motor in place.
	2. Damaged blower wheel.	2. Change the blower.
	3. The hood is not secured in place.	3. Check the installation of the hood.
The motor is working, but the lights are not.	1. Defective halogen bulb.	1. Change the halogen bulb.
	2. The light bulb is loose.	2. Tighten the light bulb.
	3. The wires on the control board are loose.	3. Make sure the wires on control board are connected properly.
The hood is not venting out properly.	1. The hood might be hanging too high from the cook top.	1. Adjust the distance between the cook top and the bottom of the hood within 24" and 32" range.
	2. The wind from the opened windows or opened doors in the surrounding area are affecting the ventilation of the hood.	2. Close all the windows and doors to eliminate the outside wind flow.
	3. Blockage in the duct opening or duct work.	3. Remove all the blocking from the duct work or duct opening.
	4. The direction of duct opening is against the wind.	4. Adjust the duct opening direction.
Safety grille is vibrating.	5. Using the wrong size of ducting.	5. Change the ducting to correct size.
	1. Safety grille is loose.	1. Tighten safety grille screw.