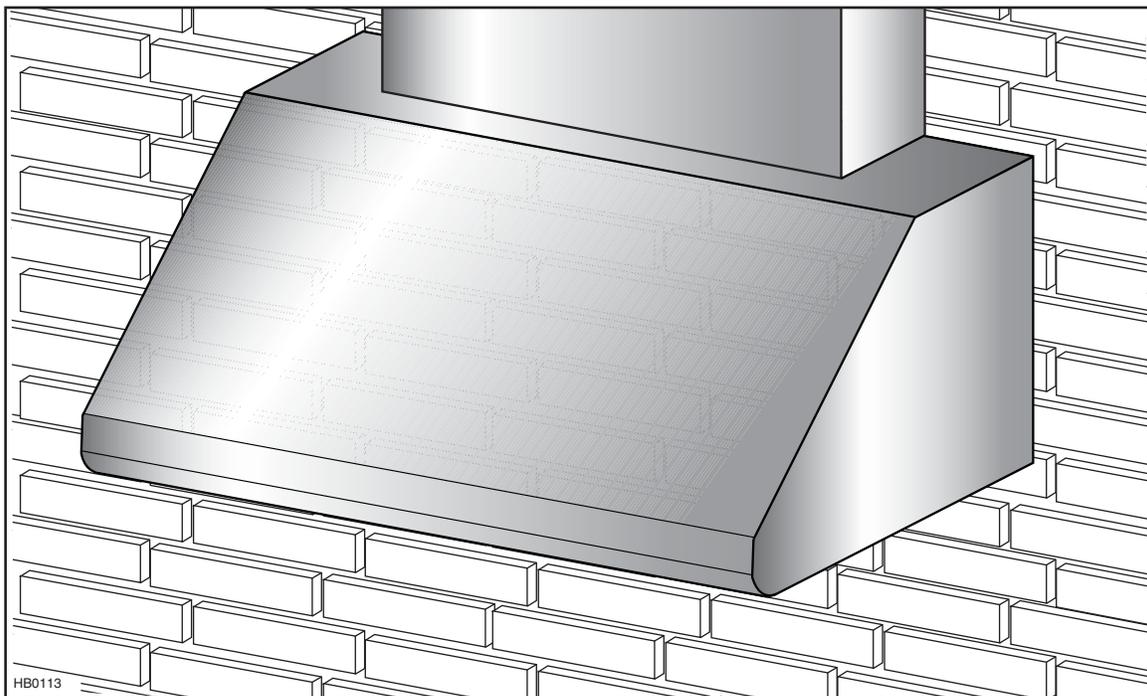


# best®



## WPD39M SERIES

⚠ INTENDED FOR DOMESTIC COOKING ONLY ⚠

**READ AND SAVE THESE INSTRUCTIONS**

INSTALLER: LEAVE THIS MANUAL WITH HOMEOWNER.  
HOMEOWNER: USE AND CARE INFORMATION ON PAGES 9 AND 10.

BEST; Hartford, Wisconsin [www.BestRangeHoods.com](http://www.BestRangeHoods.com) 800 558-1711  
BEST; Drummondville, QC, Canada [www.BestRangeHoods.com](http://www.BestRangeHoods.com) 866 737-7770



7 72371 12001 3

To register your product online or for additional information visit [www.BestRangeHoods.com](http://www.BestRangeHoods.com)

## **⚠ WARNING**

---

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

1. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer at the address or telephone number listed in the warranty.
2. Before servicing or cleaning unit, switch power off at service panel and lock service disconnecting means 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.
3. Installation work and electrical wiring must be done by qualified personnel in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
4. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturer's guidelines 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.
5. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
6. Ducted fans must always be vented to the outdoors.
7. Do not use this unit with any additional solid-state speed control device.
8. To reduce the risk of fire, use only metal ductwork.
9. This unit must be grounded and protected by a GFCI.
10. Suitable for use in damp locations only when installed in a GFCI PROTECTED branch-circuit.
11. This unit is not designed to be used with a charcoal grill.
12. When applicable local regulations comprise more restrictive installation and/or certification requirements, the aforementioned requirements prevail on those of this document and the installer agrees to conform to these at his own expense.

### **TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE:**

- a) Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.
- b) Always turn hood ON when cooking at high heat or when flambeing food (i.e.: Crêpes Suzette, Cherries Jubilee, Peppercorn Beef Flambé).
- c) Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan, filters or in exhaust ducts.
- d) Use proper pan size. Always use cookware appropriate for the size of the surface element.

## **⚠ WARNING**

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

1. 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.
2. NEVER PICK UP A FLAMING PAN — You may be burned.
3. DO NOT USE WATER, including wet dishcloths or towels — This could cause a violent steam explosion.
4. Use an extinguisher ONLY if:
  - A. You own a Class ABC extinguisher and you know how to operate it.
  - B. The fire is small and contained in the area where it started.
  - C. The fire department has been called.
  - D. You can fight the fire with your back to an exit.

\* Based on "Kitchen Fire Safety Tips" published by NFPA.

## **CAUTION**

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1. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
2. To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
3. Your hood motor has a thermal overload which will automatically shut off the motor if it becomes overheated. The motor will restart when it cools down. If the motor continues to shut off and restart, have the hood serviced.
4. For best capture of cooking impurities, the bottom of the hood must be located at a distance of 36" above cooking surface.
5. Two installers are recommended because of the large size and weight of this unit.
6. To reduce the risk of fire and to properly exhaust air, be sure to duct air outside — Do not exhaust air into spaces within walls or ceiling or into attics, crawl space or garage.
7. This product is equipped with a thermostat which may start blower automatically. To reduce the risk of injury and to prevent power from being switched on accidentally, switch power off at service panel and lock or tag service panel.
8. To reduce the risk of fire and electrical shock, the Best WPD39M Series hood must be installed with Best interior blower model P12; Best exterior blower models EB12 or EB15; Best in-line blower model ILB11. Other blowers cannot be substituted. (Blowers sold separately.)
9. Please read specification label on product for further information and requirements.

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## WARRANTY

### ONE-YEAR LIMITED WARRANTY FOR BEST PRODUCTS

Broan-NuTone LLC (Broan-NuTone) warrants to the original consumer purchaser of Best products that such products will be free from defects in materials or workmanship for a period of one year from the date of original purchase. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

During this one-year period, Broan-NuTone will, at its option, repair or replace, without charge, any product or part which is found to be defective under normal use and service.

This warranty does not extend to fluorescent lamp starters, tubes, HALOGEN AND INCANDESCENT BULBS, fuses, filters, ducts, roof caps, wall caps and other accessories for ducting. This warranty does not cover (a) normal maintenance and service or (b) any products or parts which have been subject to misuse, negligence, accident, improper maintenance or repair (other than by Broan-NuTone), faulty installation or installation contrary to recommended installation instructions.

The duration of any implied warranty is limited to the one-year period as specified for the express warranty. Some states or provinces do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

**BROAN-NUTONE'S OBLIGATION TO REPAIR OR REPLACE, AT BROAN-NUTONE'S OPTION, SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. BROAN-NUTONE SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH PRODUCT USE OR PERFORMANCE. Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.**

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state or province to another. This warranty supersedes all prior warranties.

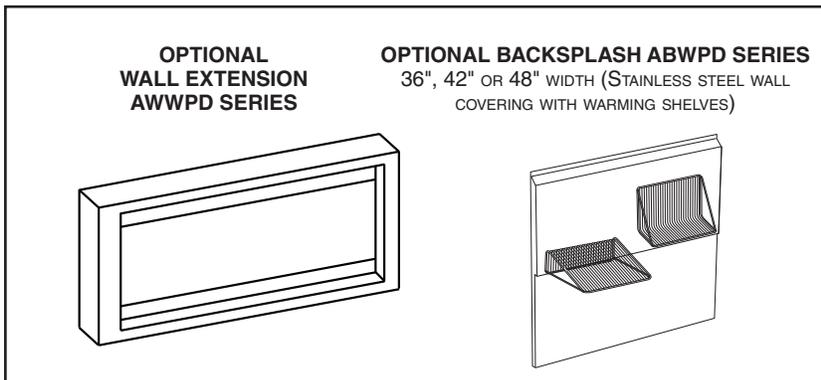
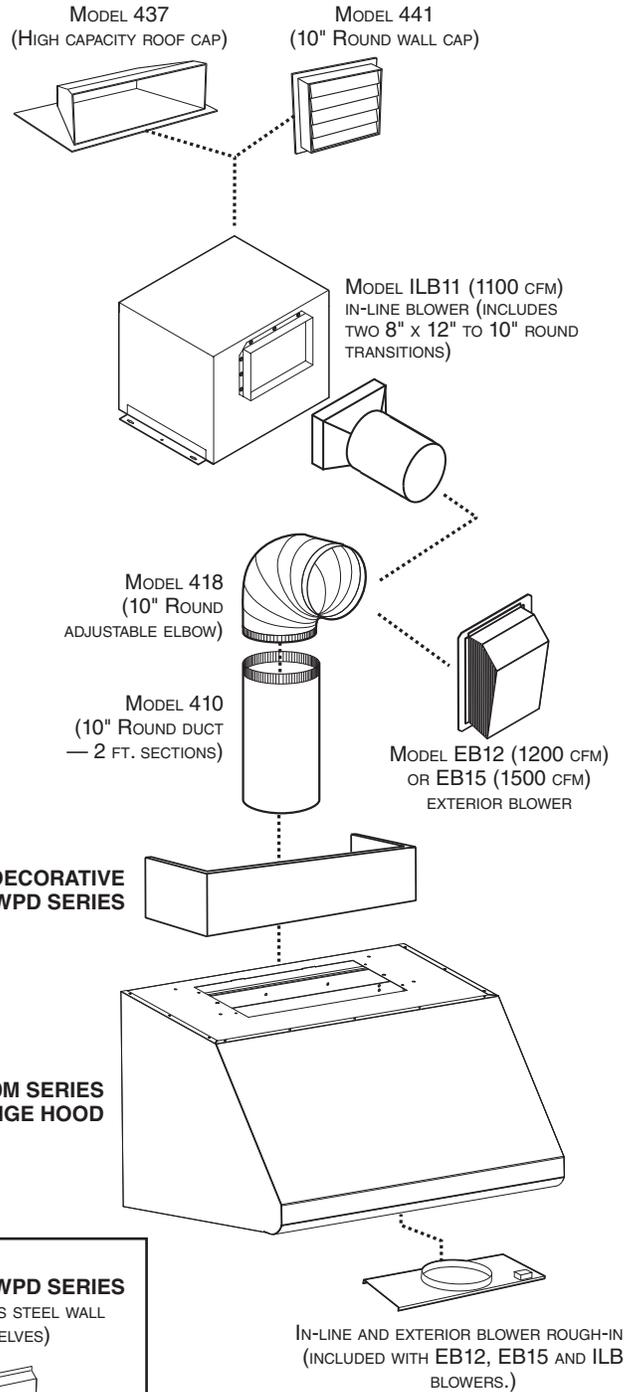
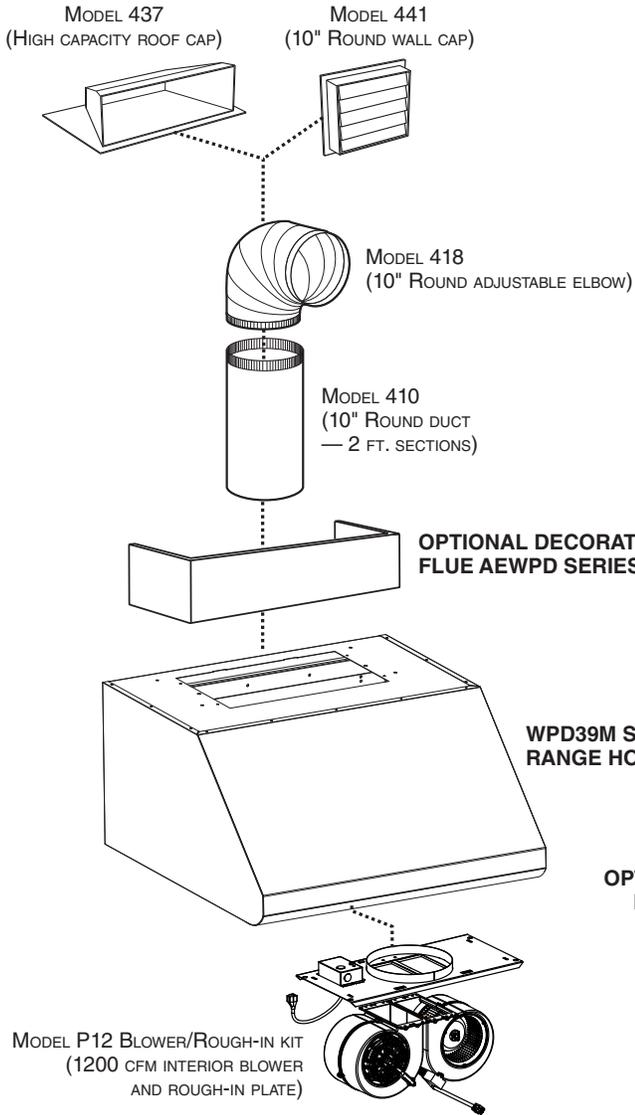
To qualify for warranty service, you must (a) notify Broan-NuTone at the address stated below or telephone number stated below, (b) give the model number and part identification and (c) describe the nature of any defect in the product or part. At the time of requesting warranty service, you must present evidence of the original purchase date.

**In USA - Best®**, 926 W. State Street, Hartford, WI 53027 (800-558-1711)

**In Canada - Best®**, 550 Lemire Blvd., Drummondville, QC, Canada, J2C 7W9 (866-737-7770)

[www.BestRangeHoods.com](http://www.BestRangeHoods.com)

# - WPD39M SERIES RANGE HOOD SYSTEM -



# 1. SELECT BLOWER OPTION, INSTALL DUCTWORK AND ELECTRICAL WIRING

## CAUTION

This range hood is intended for outdoor covered patio or lanai area. As with all electric appliances, this unit must be protected from the effects of weather.

## ⚠ WARNING

This range hood is not designed for use with a charcoal grill.

Either an interior or exterior blower or in-line blower may be used with this range hood. It must be installed with blower models P12, ILB11, EB12 or EB15 only. Other blowers cannot be substituted. (Blowers sold separately).

Plan where and how the ductwork will be installed.

A straight, short duct run will allow the hood to perform most efficiently.

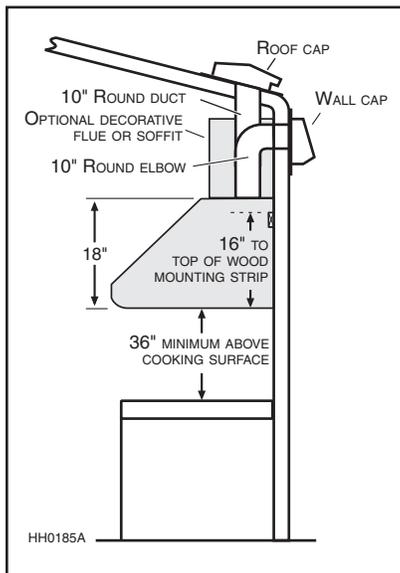
Install proper-sized ductwork, elbows and roof or wall cap for the type of blower you are installing. Connect metal ductwork to cap and work back towards the hood location. Use 2" metal foil duct tape to seal the joints.

Run 3-wire power supply cable to installation location.

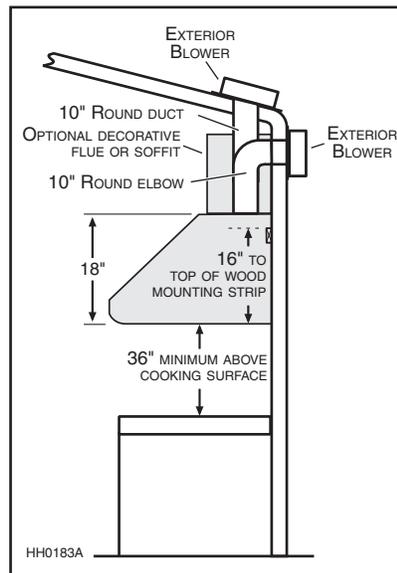
## ⚠ WARNING

The power cable must be a GFCI protected branch circuit.

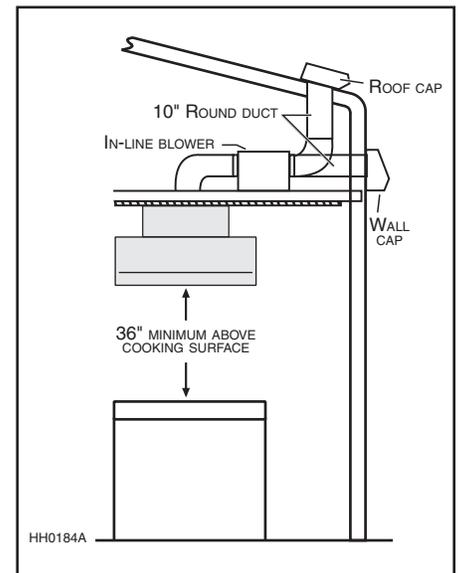
For best capture of cooking impurities, the bottom of the hood must be located at a distance of 36" above cooking surface.



**MODEL P12 DUAL INTERIOR BLOWER**  
TYPICAL DUCTWORK



**MODEL EB12 OR EB15 EXTERIOR BLOWER**  
TYPICAL DUCTWORK



**MODEL ILB11 IN-LINE BLOWER**  
TYPICAL DUCTWORK

## 2. PREPARE INSTALLATION

### ⚠ WARNING

**When performing installation, servicing or cleaning the unit, it is recommended to wear safety glasses and gloves.**

NOTE: Before proceeding to the installation, check the contents of the box. If items are missing or damaged, contact the manufacturer.

Make sure that the following items are included:

- Range hood
  - Wood strip (attached to back of hood)
  - Installation manual
  - Accessories:
    - 4 Baffle filters with handles
    - Grease tray with handle
    - Shielded halogen bulbs (120 V, 50 W max., MR16 with GU10 base) (2 for 36" and 42" width hoods, 3 for 48" and 60" width hoods)
    - Bag of parts: 3 waterproof wire connectors, 2 no. 8 x 5/8" screws, 6 no. 10 x 2" hex head screws, 4 no. 10 x 2" flat head screws, 2 wall anchors, 6 washers 3/16" ID x 3/4" OD, 4 stainless steel 10-32 locknuts
- Included in parts bag, but not to be used (please discard):  
2 wire clamps LP16-AP, 2 no. 8 x 3/8" zinc-plated screws, 8 no. 8 x 3/8" stainless steel screws

Parts sold separately:

- Interior blower assembly model P12
- In-line blower assembly model ILB11
- Exterior blower assembly model EB12 or EB15
- ABWPD Series Backsplash, 36", 42" or 48" width (optional)
- AEWPD Series Decorative flue, to be installed over the hood (optional)
- AWWPD Series Wall extension, 36", 42", 48" or 60" width (optional)
- Transitions, duct, elbows, dampers, wall and roof caps

Refer to page 4 for a complete list of venting options and model numbers.

NOTE: During installation, protect countertop and/or cooktop.

## 3. INSTALL BACKSPLASH (OPTIONAL)

**ABWPD Series (for 36", 42" and 48" widths range hoods only)**

Backsplash must be installed before the hood shell and wall extension (if needed) because the hood shell (and wall extension) covers the backsplash top mounting screws (see instructions packed with backsplash).

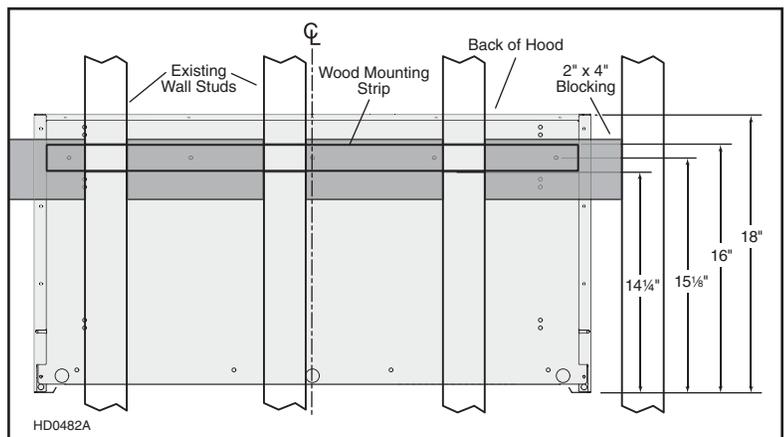
## 4. INSTALL WOOD MOUNTING STRIP

### CAUTION

**Due to the weight of this hood, ensure that the wood strip is attached to all of the available wall studs and blocking; not into the wall alone.**

1. Proper structural support is required to accommodate the weight of the hood. Construct the wall framing using minimum 2" x 4" lumbers.

2. Mark the center location of the hood.
3. Measure and mark a level line on wall above cooktop location for the wood mounting strip. Install 2" x 4" blockings between wall studs where mounting strip will be installed. Refer to illustration at right.
4. Remove wood mounting strip from back of hood.
5. Position the wood mounting strip on the wall and secure to the wall studs and blockings using 4 no. 10 x 2" flat head screws (included in parts bag).



## 5. INSTALL WALL EXTENSION (OPTIONAL)

### AWWPD Series

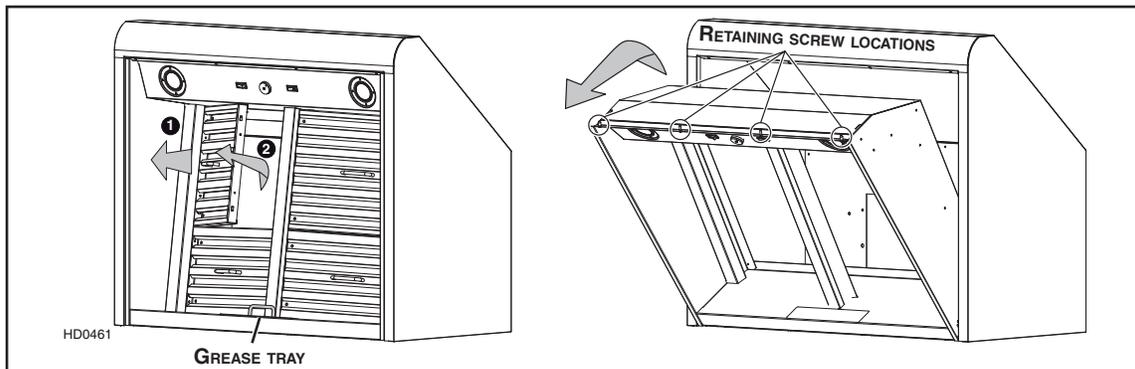
Wall extension must be installed before the hood (see instructions packed with wall extension).

## 6. REMOVE Baffle FILTERS, GREASE TRAY AND PANEL ASSEMBLY

Remove tape on filters. Remove filters from hood (as illustrated below) and set aside.

Remove tape on grease tray. Lift and pull grease tray to remove and set aside.

Remove panel assembly retaining screws (4, 5 or 6 depending on hood width) and set aside. Tilt panel assembly forward.



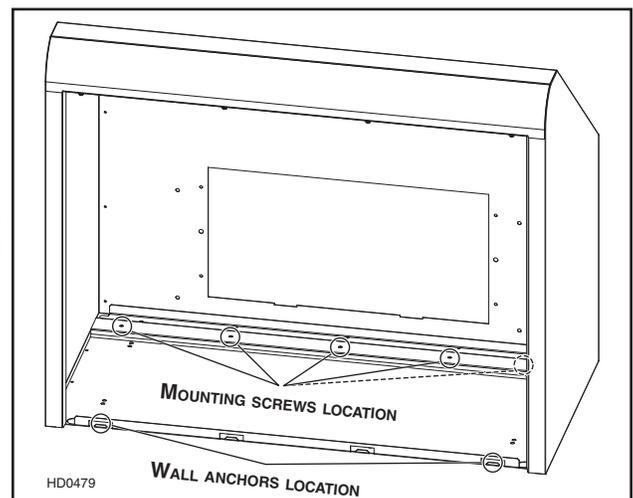
## 7. INSTALL HOOD

### ⚠ WARNING

Hold the hood until it is completely secured to the wood mounting strip.

Rest the back cavity of the hood on the wood mounting strip.

Secure the hood to the wood mounting strip using 5 no. 10 x 2" hex head screws at locations shown at right. Drill two 3/16" diameter holes into the wall for wall anchors through the existing holes in the lower back of the hood at locations shown at right. Then, install both wall anchors with both no. 8 x 5/8" screws and washers provided.



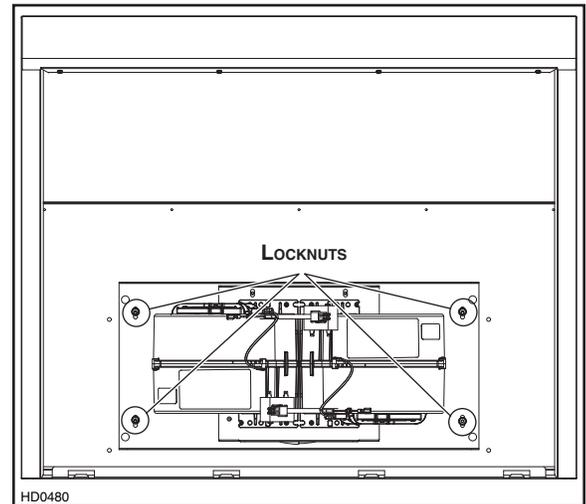
## 8. INSTALL ROUGH-IN PLATE

### CAUTION

Install rough-in plate using 4 x 10-32 locknuts and washers included in hood parts bag. Discard nuts provided with rough-in plate.

Refer to the instructions included with the selected blower/rough-in kit (sold separately) for details on installing the rough-in plate. Install the rough-in plate so that the wiring box is located on the right side as you are facing the hood.

Attach 10" round duct to rough-in plate.



## 9. CONNECT WIRING

### ⚠ WARNING

Risk of electric shock. Electrical wiring must be done by qualified personnel in accordance with all applicable codes and standards. Before connecting wires, switch power off at service panel and lock service disconnecting means to prevent power to be switched on accidentally.

Remove wiring cover from rough-in plate and set aside.

Connect BLACK to BLACK, WHITE to WHITE and GREEN or bare wire under GREEN ground screw.

Reinstall wiring cover.

#### WATERPROOF WIRE CONNECTORS INSTRUCTIONS:

1. Strip wires 3/8".
2. Align frayed strands or conductors.
3. Do not pre-twist. Place stripped wires together with ends even, but lead smaller stranded wires slightly ahead of larger solid or stranded wire.
4. Twist connector onto wires pushing firmly until hand-tight. DO NOT over torque.
5. When inserting wires into connectors, some sealant may leak out. Wipe off excess sealant in and around conductors. DO NOT REUSE.

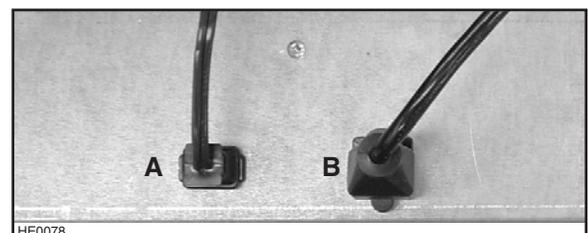
## 10. INSTALL BLOWER

Refer to instructions included with blower.

Once the blower is installed, plug the blower cord (A) into the female receptacle and the power supply cord (B) onto the male connector inside the hood.

### ⚠ WARNING

Do not plug the two cords into each other.



## 11. INSTALL DECORATIVE FLUE COVER (OPTIONAL)

### **AEWPD Series**

Refer to the instructions included with the optional decorative flue.

## 12. REINSTALL PANEL ASSEMBLY, GREASE TRAY AND BAFFLE FILTERS

### **CAUTION**

**Remove protective plastic film covering filters before installing them.**

1. Push panel assembly back inside hood and secure to the hood using previously removed screws (see step 5).
2. Reinstall grease tray.
3. Insert one side of the filter into the side channel of the hood. Raise the other side toward the center of the hood and insert in the grease drip rail.

## 13. LIGHT BULBS REPLACEMENT

This hood requires 120 V, 50 W, MR16 with GU10 base, shielded halogen bulbs (included). (2 for 36" and 42" width hood, 3 for 48" and 60" width hoods.)

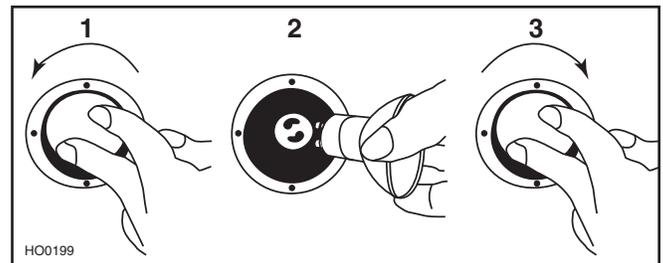
### **⚠ WARNING**

**Do not touch lamps during or soon after operation. Burns may occur. In order to prevent the risk of personal injury, only install shielded halogen lamps. Also, never install a cool beam, a dichroic lamp, a lamp not suitable for use in recessed luminaires or identified for use in enclosed fixtures.**

1. To remove bulbs, gently push upwards and turn counterclockwise to disengage bulb leads from their grooves.

NOTE: To ease removal of the bulbs, use a rubber dishwashing glove or use suction cup tool available from Best. Contact Best Customer Service at 1-800-558-1711 to order suction cup tool, part no. 99526707.

2. Install the new bulbs by placing the bulb leads into their grooves in the socket.
3. Gently push upwards and turn clockwise until secure.



## 14. CARE

### **Baffle Filters**

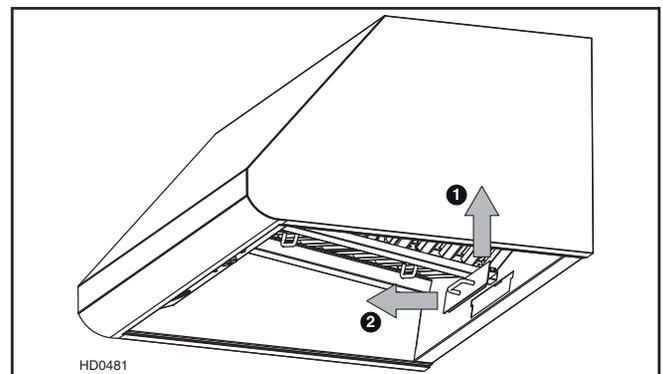
The baffle filters should be cleaned frequently. Use a warm detergent solution. Wash more often if your cooking style generates greater grease like frying foods or wok cooking.

Remove baffle filters by pushing them towards the side of the hood and rotating filters downward. Baffle filters are dishwasher safe. Allow filters to dry completely before reinstalling them in the hood.

Clean all-metal filters in the dishwasher using a non-phosphate detergent. Discoloration of the filter may occur if using phosphate detergent or as a result of local water conditions—but this will not affect filter performance. This discoloration is not covered by the warranty.

### **Grease Tray**

The grease tray should be emptied and cleaned frequently. Remove from hood (as illustrated at right) and use a warm detergent solution. Wash more often if your cooking style generates greater grease like frying foods or wok cooking. Allow grease tray to dry completely before reinstalling it in the hood.



## 14. CARE (CONT'D)

### Grease Drip Rail

The grease drip rail should be cleaned frequently. Wash with clean cloth soaked in warm detergent solution. Wash more often if your cooking style generates greater grease like frying foods or wok cooking.

### Blower Cleaning

Access the blower and use vacuum to clean. Do not immerse in water.

### Hood cleaning

Stainless steel cleaning:

Do:	Don't:
<ul style="list-style-type: none"><li>Regularly wash with clean cloth or rag soaked with warm water and mild soap or liquid dish detergent.</li><li>Always clean in the direction of original polish lines.</li><li>Always rinse well with clear water (2 or 3 times) after cleaning. Wipe dry completely.</li><li>You may also use a specialized household stainless steel cleaner.</li></ul>	<ul style="list-style-type: none"><li>Use any steel or stainless steel wool or any other scrapers to remove stubborn dirt.</li><li>Use any harsh or abrasive cleansers.</li><li>Allow dirt to accumulate.</li><li>Let plaster dust or any other construction residues reach the hood. During construction/renovation, cover the hood to make sure no dust sticks to stainless steel surface.</li></ul>

### Avoid when choosing a detergent:

- Any cleaners that contain **bleach** will attack stainless steel.
- Any products containing: **chloride, fluoride, iodide, bromide** will deteriorate surfaces rapidly.
- Any combustible products used for cleaning such as **acetone, alcohol, ether, benzol**, etc., are highly explosive and should never be used close to a range.

## 15. OPERATION

### BLOWER

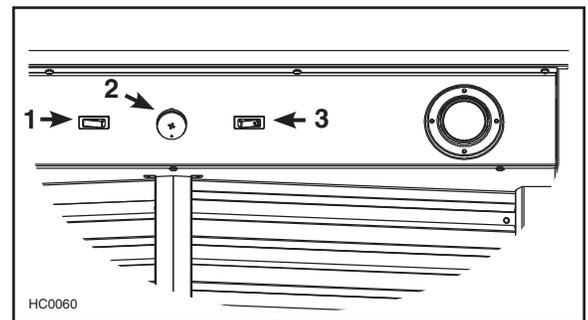
The blower is operated using two controls.

Use the on/off rocker switch (1) to start and stop the blower. When turned ON, the switch turns red and the blower operates at the speed set by the speed control knob (2).

Turn the speed control knob clockwise to increase blower speed – counterclockwise to decrease speed.

### COOKTOP LIGHTING (HALOGEN)

Use the on/off rocker switch (3) to turn the halogen lights ON or OFF.



- 1) ON/OFF blower switch
- 2) Blower speed control knob
- 3) Halogen light switch

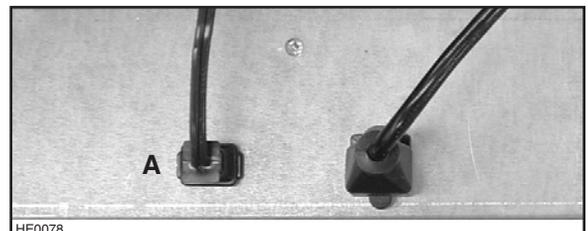
### HEAT SENTRY™

This hood is equipped with a Heat Sentry™ thermostat. This thermostat is a device that will turn on the blower to high speed if it senses excessive heat above the cooking surface.

- 1) If blower is OFF - it turns blower ON to high speed.
- 2) If blower is already ON it sets blower on high speed.

### ⚠ WARNING

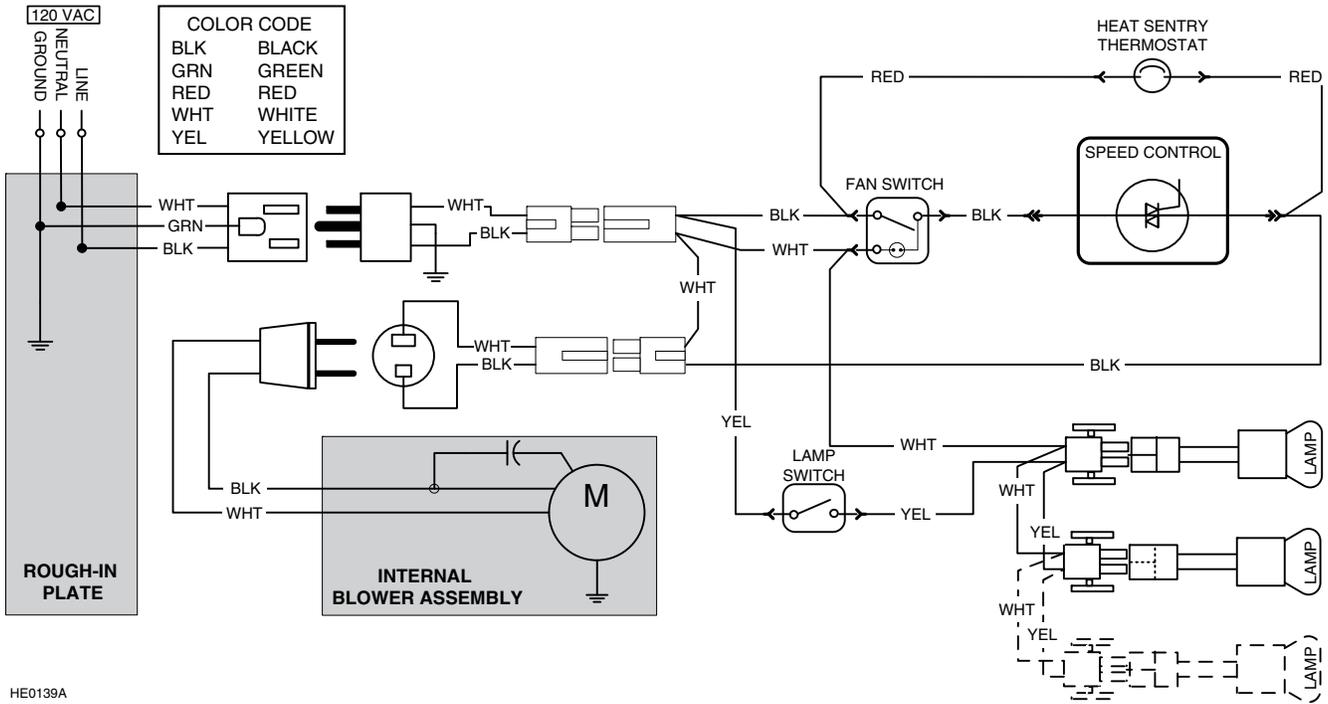
The HEAT SENTRY can start the blower during a range top fire or other excessive heat situations even if the hood is turned off. In this case, it is impossible to turn the blower OFF using control panel switch. To stop the blower, disconnect blower cord plug (A).



When the temperature level drops to normal, the blower will return to its original setting.

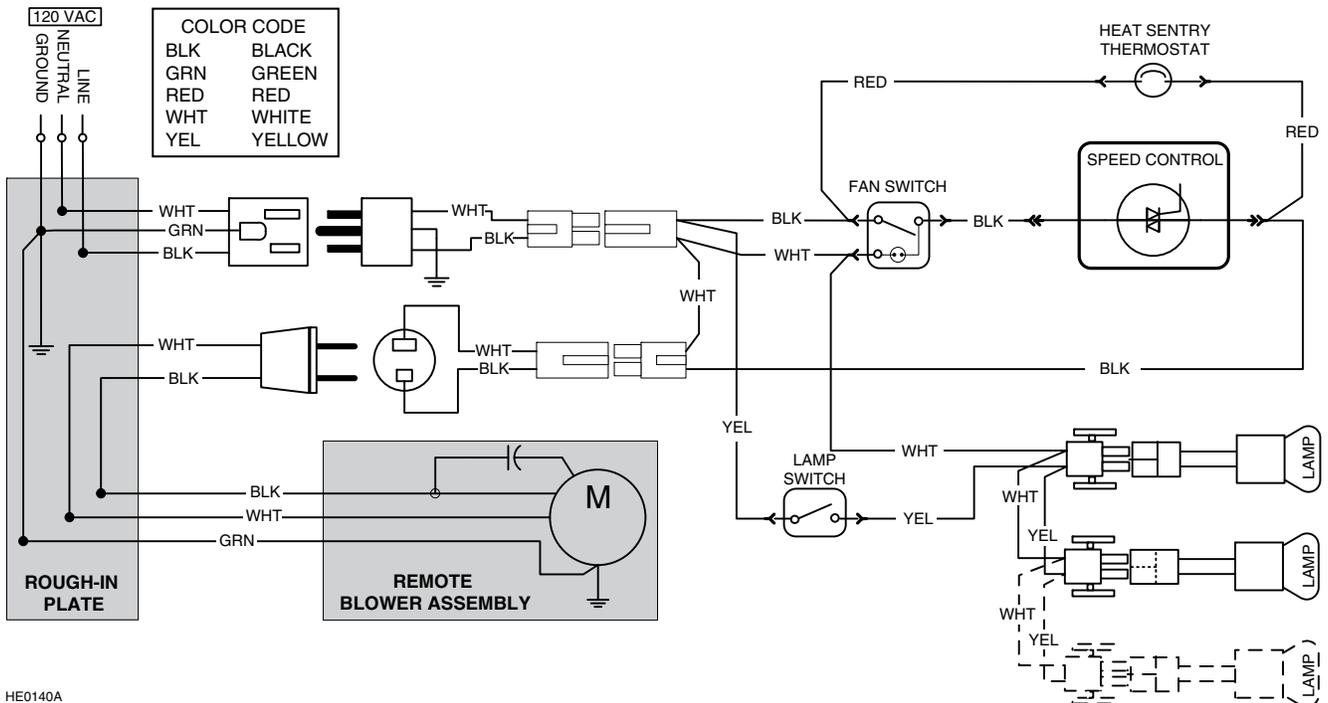
# 16. WIRING DIAGRAMS

## Internal blower assembly



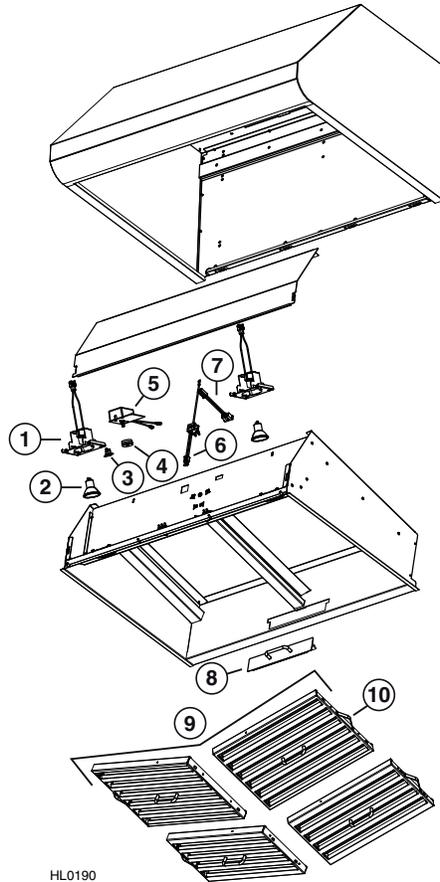
HE0139A

## Remote blower assembly



HE0140A

# 17. SERVICE PARTS



HL0190

KEY NO.	PART NO.	DESCRIPTION	QTY. (RANGE HOOD WIDTH)			
			36"	42"	48"	60"
1	SV60887	LIGHT SOCKET HOLDER ASSEMBLY	2	2	3	3
2	SV05921	SHIELDED HALOGEN BULB (120 V, 50 W, GU10 BASE)	2	2	3	3
3	SV03435	HEAT SENTRY™ THERMOSTAT	1	1	1	1
4	SV08549	FAN KNOB	1	1	1	1
5	SV03501	SPEED CONTROL	1	1	1	1
6	SV13924	MALE CONNECTOR	1	1	1	1
7	SV13923	FEMALE CONNECTOR	1	1	1	1
8	SV60879	GREASE TRAY	1	1	1	1
9	SV60675	BAFFLE FILTER 11.84" x 15.125" (HANDLE INCLUDED)	2	2	2	2
	SV60716	BAFFLE FILTER 8.84" x 15.125" (HANDLE INCLUDED)	2	2	2	2
10	SV08337	FILTER SPRING	4	4	4	4
*	SV02563	LIGHT ROCKER SWITCH	1	1	1	1
*	SV03503	BLOWER ROCKER SWITCH	1	1	1	1
*	SV05869	BEST LOGO	1	1	1	1
*	SV20611	INSTALLATION GUIDE	1	1	1	1
*	SV04216	PARTS BAG: 3 WATERPROOF WIRE CONNECTORS, 2 NO. 8 x 5/8" SCREWS, 6 NO. 10 x 2" HEX HEAD SCREWS, 4 NO. 10 x 2" FLAT HEAD SCREWS, 2 WALL ANCHORS, 6 WASHERS 3/16" ID x 3/4" OD, 4 STAINLESS STEEL 10-32 LOCKNUTS, 2 WIRE CLAMPS LP16-AP, 2 NO. 8 x 3/8" ZINC-PLATED SCREWS, 8 NO. 8 x 3/8" STAINLESS STEEL SCREWS	1	1	1	1

\* NOT SHOWN.

### REPLACEMENT PARTS AND REPAIRS

In order to ensure your unit remains in good working condition, you must use Broan-NuTone genuine replacement parts only. Broan-NuTone genuine replacement parts are specially designed for each unit and are manufactured to comply with all the applicable certification standards and maintain a high standard of safety. Any third party replacement part used may cause serious damage and drastically reduce the performance level of your unit, which will result in premature failing. Broan-NuTone recommends to contact a certified service depot for all replacement parts and repairs.