# BREAN NUTONE MODELS 2730 & 2736 ECLIPSE DOWNDRAFT BLOWER SYSTEM READ AND SAVE THESE INSTRUCTIONS

#### 

#### 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 in the warranty.
- 2. Before servicing or cleaning unit, switch power off at service panel and lock the 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 a qualified person(s) 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 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.
- 5. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- 6. Do not use this range hood with an additional speed control device.
- 7. Ducted fans must always be vented to the outdoors.
- 8. To reduce the risk of fire, use only metal ductwork.
- 9. Do not install this product with the activating switch directly behind a burner or element. Minimum distance between the switch and the edge of the burner should be 4 inches.
- 10. Loose-fitting or hanging clothing should never be worn when operating this appliance. They may be ignited by burners/elements on cooktop.
- 11. Children should not be left alone or unattended in the area where this appliance is in use.
- 12. This unit must be grounded.

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

- 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.
- 2. Always turn hood ON when cooking at high heat or when cooking flaming foods.
- 3. Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan or filter.
- 4. Use proper pan size. Always use cookware appropriate for the size of the surface element.

#### TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP GREASE FIRE, OBSERVE THE FOLLOWING<sup>a</sup>:

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.
- DO NOT USE WATER, including wet dishcloths or towels a violent steam explosion will result.
- 4. Use an extinguisher ONLY if:
  - A. You know you have a Class ABC extinguisher, and you already know how to operate it.
  - B. The fire is small and contained in the area where it started.
  - C. The fire department is being called.
  - D. You can fight the fire with your back to an exit.
- <sup>a</sup> Based on "Kitchen Firesafety Tips" published by NFPA.

## CAUTION

- 1. For indoor use only.
- 2. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
- 3. To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
- 4. Clean filters and grease-laden surfaces frequently.
- 5. Do not repair or replace any part of this appliance unless specifically recommended in this manual. All other servicing should be done by a qualified technician.
- 6. Please read specification label on product for further information and requirements.

## **GROUNDING INSTRUCTIONS**

WARNING - This appliance must be grounded. In the event of an electrical short-circuit, grounding reduces the risk of the electric shock by providing an escape wire for the electric current. This appliance is equipped with a cord having a grounding wire with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.

WARNING - Improper grounding can result in a risk of electric shock.

Consult a qualified electrician if the grounding instructions are not completely understood, or if doubt exists as to whether the appliance is properly grounded.

Do not use an extension cord. If the power supply cord is too short, have a qualified electrician install an outlet near the appliance.

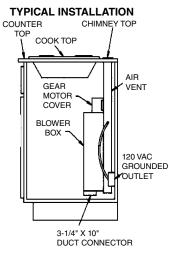
#### INSTALLER: Save this manual for Electrical Inspector and Homeowner to use. HOMEOWNER: Use and Care Information on Page 5.

## **PLANNING**

This downdraft blower system is designed to be used to exhaust airborne contaminants when cooking with a variety of gas or electric cooktops. It can be mounted in island, peninsula, or conventional wall locations.

This unit can be easily installed following these basic steps:

- Cut out the countertop opening.
- Mount the unit in the cabinet.
- Connect the ductwork and electrical.
- Install the cooktop.



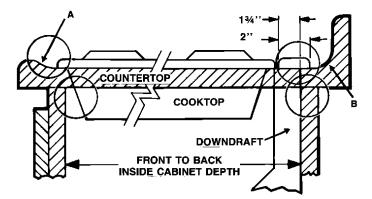
**Note:** The high level of air flow of this appliance may affect the gas flame on some types of gas cooktops. This is NORMAL and will cause no harm, but can be corrected by lowering the speed of the blower.

## SPECIFICATIONS

VOLTS	AMPS	CFM	DUCT
120	4.0	500	3-1/4 X 10

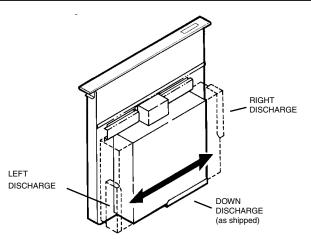
## TAKE MEASUREMENTS

- Refer to the cooktop installation instructions for dimensions of cooktop, countertop cut-out, and cabinet requirements. The Model 2730 will fit in most 30" wide cabinets and the Model 2736 will fit in most 36" wide cabinets. However, it is recommended that oversized cabinets be used for easier installation.
- 2. Cooktop depth can vary greatly from one to another. This may cause the fit of these two appliances to be rather tight.

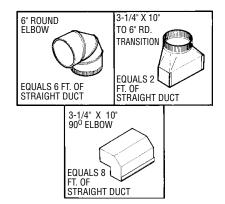


Pay special attention to the areas of potential interference highlighted above. A countertop with (A) a raised lip and/or (B) a backsplash may not allow enough flat countertop for a proper installation. Note that 2" of flat countertop is required behind cooktop and that 1-3/4" is necessary between the back edge of the cooktop and the inside of cabinet back.

## **PLAN THE DUCTWORK**



- 1. This downdraft blower system is designed for use with 3-1/4" x 10" ductwork (can be transitioned to 6" round). Three different discharge directions are available with side-to-side adjustment for accurate alignment of ductwork.
- For best performance: Choose the ducting option which allows the shortest length of ductwork and a minimum number of elbows and transitions. Check location of floor joists, wall studs, electrical wiring or plumbing for possible interference. NOTE: The unit is shipped with the 3-1/4" x 10" discharge facing DOWN. See "CHANGING BLOWER DIRECTION" on page 3, if necessary.



3. The system will operate most efficiently when the ductwork does not exceed 40 feet of equivalent duct. The chart, above, shows equivalent feet of elbows and transitions. The number of feet of straight duct plus the equivalent feet of transitions and/or elbows to be used should equal 40 feet or less.

NOTE: The equivalent feet of various roof and wall caps has been taken into consideration. Do not include them in this calculation.

## **PLAN THE WIRING**

- 1. The downdraft blower system draws 4 AMPS and requires a 120 VAC, 60 Hz circuit.
- 2. The unit has a 2 ft. long power cord with a 3-pronged plug. Plan to provide a grounded outlet in a location which will allow the unit's power cord to reach. (Note: If the Model 2730 is being installed in a 30" wide cabinet or the Model 2736 is being installed in a 36" wide cabinet, the outlet cannot be located on the back wall of cabinet.) Outlet may also be wall-mounted, with access hole in cabinet.

## PREPARATION

#### CHANGING BLOWER DISCHARGE (Optional)

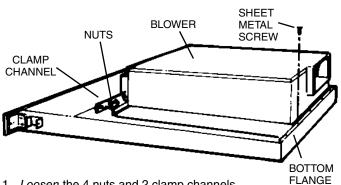
The blower is shipped with its discharge facing DOWN. Follow these steps ONLY if:

the position of the blower discharge needs to be moved so ductwork does not interfere with floor joists, plumbing or wiring below.

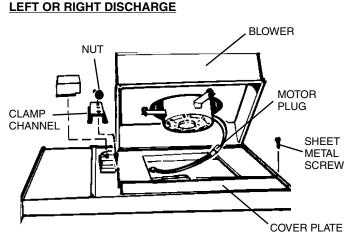
it is necessary to rotate the blower discharge to the RIGHT or LEFT.

Place the unit on its back on a table or work surface.

#### **DOWN DISCHARGE - MOVING BLOWER LEFT OR RIGHT**



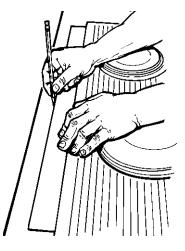
- Loosen the 4 nuts and 2 clamp channels. 1.
- 2. Slide blower to desired position.
- 3. Use supplied cover plate to close open space (if any).
- 4. Tighten wing nuts to secure top of blower and use sheet metal screws through bottom flange to secure bottom of blower.



- Remove the 4 nuts and 2 clamp channels. 1.
- Carefully lift blower and disconnect motor plug if necessary. 2. Reposition blower and RECONNECT MOTOR PLUG.
- 3. Use supplied cover plate to close open space (if any).
- Replace clamp channels and use nuts to secure the blower 4. in its new position.
- 5. Use sheet metal screws through bottom flange to secure bottom of blower.

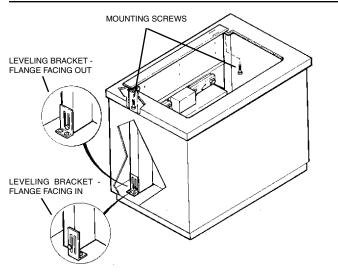
## CUT COUNTERTOP OPENING

- 1. Lay out and cut the cooktop cut-out far enough FORWARD so downdraft will fit behind it.
- 2. Set cooktop in place and slide it as far forward as possible. Center and square it with edges of countertop.



- 3. Place the plastic template against the back flange of the cooktop and center it. Trace around template to mark the downdraft opening.
- Remove cooktop from countertop. 4.
- 5. Cut downdraft opening. Be careful not to chip edges of countertop.

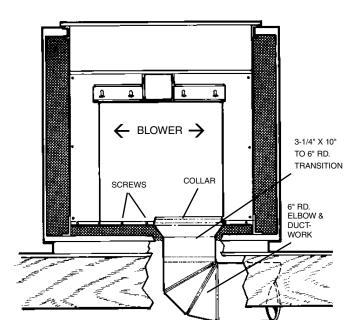
#### **MOUNT THE UNIT**



- 1. Set downdraft into opening. Extend leveling brackets to floor of cabinet so downdraft sits straight. (Note: Leveling brackets can be removed and re-attached in other positions. Bottom flange may have to face inward in tight cabinet installations.)
- 2. Secure the downdraft to the countertop as follows: Hold the downdraft against the back of countertop cut-out and tightening the 2 mounting screws (one on each end of unit) on underside of countertop. Use a wood shim between screw and underside of granite countertops.
- Screw leveling brackets to bottom of cabinet. Tighten screws 3. holding leveling bracket to unit on each side.

## **INSTALL DUCTWORK**

**CAUTION -** *BEFORE CUTTING HOLE IN CABINET FOR DUCT-WORK:* Check for interference with floor joists, wall studs, electrical wiring or plumbing.



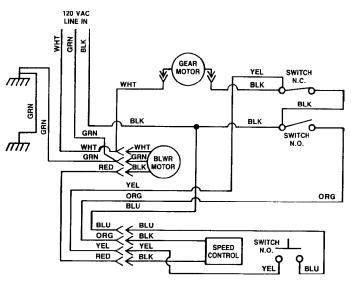
- 1. Cut hole in cabinet as well as holes in wall or floor as necessary.
- Mount the roof or wall cap and work back towards the cabinet, attaching all ductwork, elbows and transitions as previously planned. Tape all ductwork connections to make them secure and air tight.
- Connect ductwork (and transition, if required) to downdraft. If necessary, LOOSEN nuts and screws that hold the blower in place, and slide blower left or right to meet ductwork. Retighten screws and nuts.

**Note:** A 3-1/4" x 10" collar is provided for installers who prefer to rivet the ductwork to the unit. This will allow blower to be removed and replaced easily in service situations without disturbing ductwork.

## **INSTALL ELECTRICAL WIRING**

- 1. Mount a standard wiring box, with 3-pronged receptacle, inside the cabinet. Make sure the downdraft's power cord can easily reach it.
- 2. Run appropriate power cable into cabinet and connect it to receptacle.
- 3. Plug the downdraft's power cord into the outlet.

#### WIRING DIAGRAM



## **INSTALL COOKTOP**

1. Align the cooktop with the downdraft and fasten cooktop in place.

**Note:** Accurate alignment of cooktop and downdraft is necessary to ensure that there is no interference when air vent is raised and lowered. There should be a gap of 1/32"-1/16" between the back of the cooktop and the front of the downdraft cover.

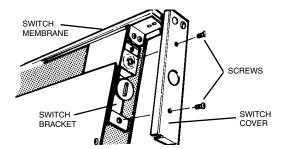
## ADJUSTMENT

The downdraft is factory-adjusted for proper operation. However, shipping and handling may affect the position of the activating switch.

To adjust position of activating switch:

#### WARNING: To avoid possible electrical shock, personal injury or death -Disconnect electrical power.

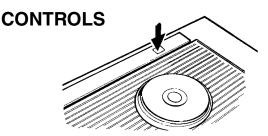
- 1. If downdraft is plugged into electrical outlet, unplug it.
- 2. Lift air vent straight up and cock it slightly so it remains in the UP position.



- 3. Remove switch cover from right end of air vent.
- Loosen the 2 screws holding the switch bracket in place. Position switch bracket so that activating switch just comes in contact with underside of switch membrane. Tighten screws.
- Replace switch cover, gently lower air vent into chimney, and plug in power cord. Re-connect electrical power and check operation.

#### **USE AND CARE**

Always turn the downdraft blower on before you begin cooking to establish an air flow in the kitchen. Let the blower run for a few minutes to clean the air after you turn the cooktop off. This will keep the whole kitchen cleaner and brighter.



Turn the downdraft blower ON by pressing down on the activating switch. The air vent will rise.

# KNOB

The blower can be turned ON or OFF and its speed can be adjusted with the recessed knob on the right side of the air vent.

#### USE AND CARE - (Continued)

#### CLEANING

## WARNING: Always disconnect electric power supply before cleaning unit.

Use a mild detergent suitable for painted surfaces. DO NOT USE ABRASIVE CLOTH, STEEL WOOL PADS, OR SCOURING POW-DERS. Vacuum blower to clean. Do not immerse blower in water.

Wash the 2 aluminum grease filters in a mild detergent solution or a dishwasher. Remove them from the air vent by grasping the tab at the top of each filter.

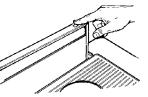
Note: The filters are different sizes. Be sure to replace them as removed, (wider one on the left), with tabs UP.

#### SERVICING

# WARNING: Always disconnect electric power supply before servicing unit.

It may be necessary to remove the downdraft blower system from the cabinet in order to service components such as the blower motor or air vent mechanism.

Disconnect power to the cooktop and remove it first. Reverse the steps under "MOUNT THE UNIT" to remove the downdraft from the cabinet.



Turn the downdraft blower OFF by pressing the activating switch again. The air vent will go down and the blower will shut OFF.

Note: For most convenient operation, set the blower to your favorite speed. The blower will come on to this speed whenever the activating switch is pressed and the air vent rises.

## **SERVICE PARTS**

#### Models 2730 & 2736 Downdraft Blower Systems

1 93400038 Bushing, 7/8"   2 99400061 Bushing, Split Heyco, 5/8"   3 99400024 Bushing, Heyco, 1/2"   4 99470016 Roller   5 97011238 Switch Assembly, Up/Down   6 97010714 Wire Harness, Speed Control   7 99260491 Nut, 3/8-32   8 99360165 Knob   9 99100484 Motor Insolator   10 9701972 Lower Switch Bracket Assembly   11 97011293 Green Ground Wire   12 97010993 Wire Harness   16 98007642 Back-up Plate   17 97018840 Crank Assembly (Includes Key Nos. 4, 16, 66, 68 & mounting nuts)   18 98010813 Switch Cover   19 98018523 Chimney Assembly (Model 2730) (Includes Key Nos. 5, 8, 19, 45, 51, 52, 71 & 84)   98018524 Chimney Assembly (Model 2736) (Includes	1 1 1 1 1 1 3 1 1 1
2 99400061 Bushing, Split Heyco, 5/8"   3 99400024 Bushing, Heyco, 1/2"   4 99470016 Roller   5 97011238 Switch Assembly, Up/Down   6 97010714 Wire Harness, Speed Control   7 99260491 Nut, 3/8-32   8 99360165 Knob   9 99100484 Motor Insolator   10 97019972 Lower Switch Bracket Assembly   11 9701293 Green Ground Wire   12 97010993 Wire Harness   16 98007642 Back-up Plate   17 97018840 Crank Assembly (Includes Key Nos. 4, 16, 66, 68 & mounting nuts)   18 98010813 Switch Cover   19 98018523 Chimney Assembly (Model 2730) (Includes Key Nos. 5, 8, 19, 45, 51, 52, 71 & 84)	1 1 1 1 3 1 1
4 99470016 Roller   5 97011238 Switch Assembly, Up/Down   6 97010714 Wire Harness, Speed Control   7 99260491 Nut, 3/8-32   8 99360165 Knob   9 99100484 Motor Insolator   10 97009972 Lower Switch Bracket Assembly   11 97011293 Green Ground Wire   12 97010993 Wire Harness   16 98007642 Back-up Plate   17 97018840 Crank Assembly (Includes Key Nos. 4, 16, 66, 68 & mounting nuts)   18 98010813 Switch Cover   19 98018523 Chimney Assembly (Model 2730) (Includes Key Nos. 5, 8, 19, 45, 51, 52, 71 & 84)	1 1 1 1 3 1 1
5 97011238 Switch Assembly, Up/Down   6 97010714 Wire Harness, Speed Control   7 99260491 Nut, 3/8-32   8 99360165 Knob   9 99100484 Motor Insolator   10 97009972 Lower Switch Bracket Assembly   11 97011293 Green Ground Wire   12 97010993 Wire Harness   16 98007642 Back-up Plate   17 97018840 Crank Assembly (Includes Key Nos. 4, 16, 66, 68 & mounting nuts)   18 98010813 Switch Cover   19 98018523 Chimney Assembly (Model 2730) (Includes Key Nos. 5, 8, 19, 45, 51, 52, 71 & 84)	1 1 1 3 1 1
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Key Nos. 5, 8, 19, 45, 51, 52, 71 & 84)	i
98018524 Chimney Assembly (Model 2736) (Includes	•
	1
Key Nos. 5, 8, 19, 45, 51, 52, 71 & 84)	•
20 99080362 Motor (with Capacitor-Key No. 73)	1
21 99020247 Blower Wheel	1
22 98010810 Scroll Box Extension	i
23 99710032 Spacer	3
24 97011259 Top Bracket Assembly, Right	ĩ
25 97011260 Top Bracket Assembly, Left	1
26 97011322 Top, Stainless (Model 2730)	1
97011323 Top, Stainless (Model 2736)	1
28 97018476 Scroll Box Assembly	1
29 97011443 Gear Motor Cover	1
30 97010994 Air Box Assembly (Model 2730)	1
97010992 Air Box Assembly (Model 2736)	1
31 98010809 Scroll Box Cover	1
32 98008157 Capacitor Strap	1
33 97009786 Filter Kit (Model 2730) (contains 2 filters)	1
97009787 Filter Kit (Model 2736) (contains 2 filters)	1
45 99090905 End Cap	1
46 99080590 Gearmotor	1
47 99110850 Slide Strip	4
49 99170245 Screw, #8-18 x .375 SLT HX WS HD	19
50 99150471 Screw, #10-32 x .500 HX WS BDRH	2
51 99150491 Screw, #8-18 x .375 SR PH TRH	6
52 99150488 Screw, #8-18 x .500 No. 5 PH Trim	2
53 98010802 Cover, Air Box Opening (Model 2730)	1
98010803 Cover, Air Box Opening (Model 2736)	1
54 99260488 Nut, #10-24	4
55 98010822 Air Box Cover (Model 2730)	1
98010823 Air Box Cover (Model 2736)	1
56 97011500 Gearmotor Bracket Assembly	1
57 98008159 Leg Support	2
58 99150536 Screw, 1/4-20 x 5/16	5 2
59 99250927 Washer, 1/4	2
60 99150479 Screw, #8-32 x 1/2 PH HD MS	4
61 99160356 Screw, #10-24 x 3/8 SH WH LOCK	1
62 99160361 Screw, #10-24 x 3/8 PH FL HD LD	1
64 99260488 Nut, 10-24 HEX	5
65 99260477 Nut, 1/4-20 WHIZ LOCK	3
66 99380633 U-Bolt, 10-24 (Includes Key No. 16 and mounting nuts)	1
67 99400048 Strain Relief	1
68 93260447 Nut, Hex Flange	1
70 98010804 Airbox Clamp	2
71 93270493 Wire Tie	3
73 99271000 Capacitor	1
74 99160384 Screw, 1/4-20 x 2.000 HEX HD	2
75 99150415 #8-18 x .250 PH TR HD BPT	2
84 99100544 Seal - Foam (30")	1
99100545 Seal - Foam (36")	1
97010534 Diower Assembly, Complete (includes Rey	
Nos.2, 9, 20, 21, 22, 28, 31, 32, 49, 58, 64,	
65 & 73)	

#### **OPTIONAL DOOR KITS**

MODEL NO.	DESCRIPTION
273001C	30" White
273002C	30" Biscuit
273023C	30" Black
273601C	36" White
273602C	36" Biscuit
273623C	36" Black

\*Standard Hardware - May be purchased locally.

\*\*Service Assembly - Contains numerous parts.

#### **SERVICE PARTS**

Models 2730 & 2736 Downdraft Blower Systems

