BREACT F40000 SERIES 4-WAY CONVERTIBLE RANGE HOOD

READ AND SAVE THESE INSTRUCTIONS

IMPORTANT

- For Non-ducted (Ductfree) Installation: a) Purchase non-ducted filter separately.
- b) Remove and discard damper/duct connector and louver cover (See Step 4) in "Prepare the Hood", Page 2.
- c) Follow all steps except steps inside dotted lines.
- For Ducted Installation:

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Follow all steps, including steps inside dotted lines.

A INTENDED FOR DOMESTIC COOKING ONLY. A WARNING A A

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

- 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.
- 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.
- 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.
- 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 solid-state speed control device.
- 8. To reduce the risk of fire, use only metal ductwork.
- 9. Use with approved cord-connection kit only.
- 10. This unit must be grounded.

TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE:

- 1. 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 ventilation 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:*

- 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.
 NEVENDE DIOK UP A 51 AMINO DAN. Voursuche burned
- 2. NEVER PICK UP A FLAMING PAN You may be burned.
- 3. 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.
 - * Based on "Kitchen Fire Safety 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.
- To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
- 4. 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.
- For best capture of cooking impurities, your range hood should be mounted 18-24" above the cooking surface.
- 6. Please read specification label on product for further information and requirements.

PLANNING DUCTWORK INSTALLATION

Begin planning ductwork by deciding where the duct will run between the range hood and the outside. For best performance, use the shortest possible duct run and a minimum number of elbows. There are several choices shown - FIGS. 1A - 1E. In more complex ducting situations, a $3-1/4^{\circ}$ rectangular ducting range hood can be converted to a round duct by means of a transition.

FIG. 1A. Ducting directly through the wall (for range hoods mounted on an exterior wall). Shown are two ways to duct through an outside wall. If a wall cap is used directly off the back of the hood, special care must be taken to make sure that the damper in the damper/duct connector on the hood and damper in the wall cap do not interfere with each other when the hood is operating. This could result in either inadequate air delivery or back drafts. If this condition does exist, remove the hood damper flap. Sometimes when using a wall cap it is easier to duct vertically and then use an elbow as shown in FIG. 1B.

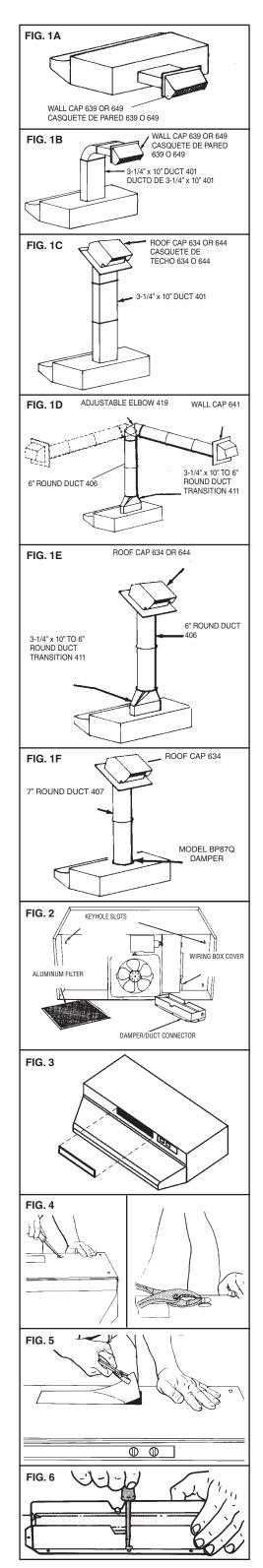


FIG. 1C. Ducting straight up through the roof using 3-1/4" x 10" rectangular duct. (For single story installations.)

FIG. 1D. Ducting between the ceiling joists (for multi-story installations) or through the soffit space above the cabinets (where the soffit connects to an outside wall).

FIG. 1E. Straight up through the roof using 3-1/4" x 10" to 6" round duct transition and 6" round duct (for single-story installations).

FIG. 1F. Straight up through the roof using 7" round duct (for single-story installations).

PREPARING THE RANGE HOOD

- 1. Unpack hood and check contents. You should receive:
 - 1 Aluminum Filter

1 - 3-1/4" \times 10" Damper/Duct Connector (mounted inside of hood for shipping only) (Save screws for mounting.)

1 - 7" Round Duct Plate (mounted on top of hood) (not shown) (Save screws for mounting.)

- Remove 7" round duct plate from top of hood. Set duct plate aside with mounting screws.
- 3. Remove wiring box cover. Under cover find:

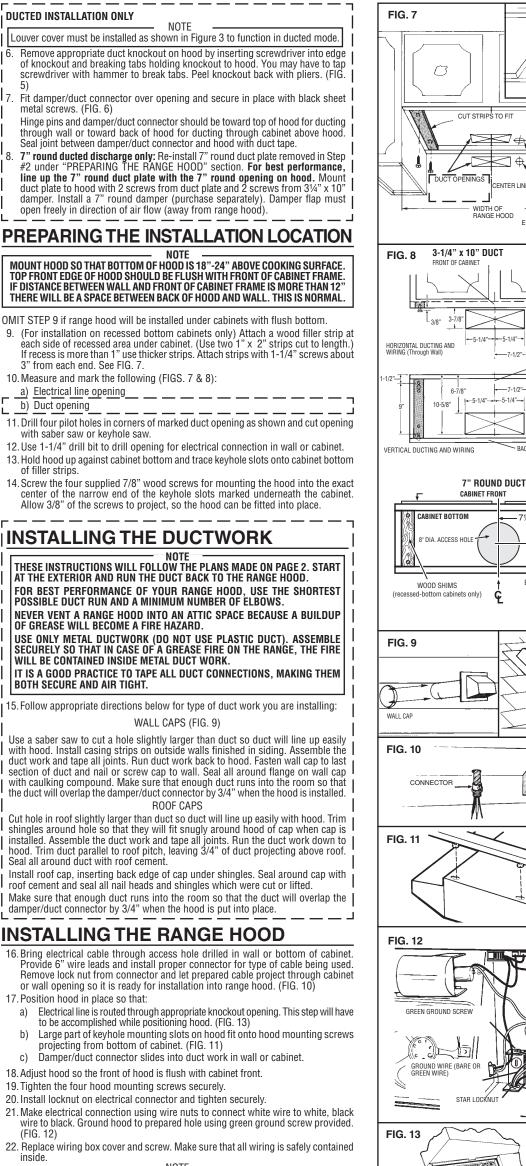
1 - Plastic Bag containing loose mounting hardware

For Ductfree Installations Only:

4. For ductfree installation, remove louver cover from front (or inside) of hood. (FIG. 3)

Louvers on front of hood must be open and visible for hood to function in ductfree mode.

5. Remove either top or rear electrical knockout depending upon whether wiring will enter hood from wall or cabinet. (FIG. 4)



NOTE For Ductfree Installations Only:

Install both filters. Make sure that ductfree filter (purchase separately) is next to fan assembly with blue side next to blade. Aluminum filter should be facing out.

USE AND CARE

SWITCHES

inside.

a)

b)

C)

6.

8

9

5)

The fan and light are each controlled by a rocker switch. The light switch has two positions, "ON" and "OFF."The fan switch has three positions - "HIGH", "LOW" and "OFF". ("OFF" is the middle position.) positions, "O "OFF". ("OFF"

CLEANING

Finish Keep your range hood clean using a mild detergent suitable for painted surfaces. Aluminum Filters should be cleaned frequently with a detergent solution to avoid grease build up. They are also dishwasher safe.

FILTER REMOVAL

Remove filter by turning filter clip to the side and lifting filter out. In ducted version, turn filter retaining clip to one side and place aluminum filter over embossed retaining tabs on back of fan housing. Turn filter clip so that the low end of clip holds single filter firmly in place. (FIG. 13)

In non-ducted version, place non-ducted filter (non-ducted filter to be purchase separately, model 41F) over tabs on back of fan housing. Turn filter retaining clip so that high end holds filter firmly in place. Make sure blue side of non-ducted filter is next to fan blade

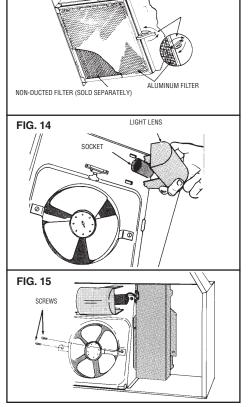
NOTE: Make sure that arrows on filter retaining clip point toward back and front of hood.

LIGHT BULB REPLACEMENT

Light bulb (not supplied with hood) should be 75 watts maximum. The lens covering bull b is removed by pressing the two extending tabs together until they release from the retaining slots. (FIG. 14)

FAN ASSEMBLY REMOVAL

Be sure power is disconnected. Remove filters. Remove the two screws holding the motor bracket to the range hood and unplug the fan assembly. Be careful not to allow fan assembly to drop when the screws are removed. (FIG. 15).



ENTER LINE

-7-1/2 -5-1/4"-

ELECTRICA

WIRING OPENIN

CABINET BOTTOM

9-7/8

Æ

BACK WALL

71/2

5

É

ELECTRICAL ACCESS HOLE

(in cabinet bottom)

ELECTRICAL LINE

BLACK WIRES

WHITE WIRES

GROUNDING BRACKET

FILTER RETAINING CLIP





Additional Information for Range Hoods meeting ADA Compliance

Broan and NuTone branded residential range hoods can be installed to comply with Sections 308 and 309 of ADA Guidelines, when used with appropriately mounted controls installed at 15" to 48" above the floor and control access should not require reaching over a cooking appliance.

The following range hoods can work in an ADA Compliant situation when the range hood is wired to operate from a dedicated, standard electrical wall switch. To facilitate this application, share the information on the following pages with your electrician when preparing for the installation.

2-SPEED RANGE HOODS:

Broan 40000, F40000, 41000, 42000, 43000, 52000, PM250, QL1, QS1, QSE1, QDE, QML and CBD1 Series, BKSA1, CLSC1, CRSF1

NuTone NS6500, NSPM250, RL6200, WS1 Series, AHSA1, AVSF1

INTERMEDIATE RANGE HOODS: (with variable speed)

Broan 46000 & QT20000 Series

NuTone ACS Series

2-ROCKER & 3-ROCKER SWITCHES

WARNING

ALL ELECTRICAL WORK MUST BE DONE IN ACCORDANCE WITH LOCAL CODES, ORDINANCES, OR NATIONAL ELECTRICAL CODE AS APPLICABLE. FOR SAFETY, THIS PRODUCT MUST BE INSTALLED IN A GROUNDED SWITCH BOX. IF YOU ARE UNFAMILIAR WITH METHODS OF INSTALLING ELECTRICAL WIRING, SECURE THE SERVICES OF A QUALIFIED ELECTRICIAN.

Turn off power and lock out service panel before installing or wiring this product.

Use this control only with copper or copper-clad wire. Do not use aluminum wire with this device.

INSTALLATION

1. WARNING

To avoid fire or electrical shock, turn off power at circuit breaker or fuse. Test that the power is off before wiring.

2. MOUNT THE SWITCH BOX

For 2-Rocker Switch: Install a $3\frac{1}{2}$ " deep single-gang switch box or a 2" deep double-gang switch box.

For 3-Rocker Switch: Install a 2½" deep double-gang switch box with a single device adapter plate.

3. ATTACH POWER CABLE

Clamp wiring to switch box and unit using appropriate clamp. Provide 6" leads inside box and fan for easier wiring.

4. CONNECT WIRING

General instructions for all configurations:

Make sure both the switch box and the appliance are properly grounded.

Make sure ground wire is securely fastened to control's ground screw. Tighten ground screw 14 to 16-in. lbs. torque.

Remove insulation per strip gauge on control (approx. 5/8"). Use proper wire nut sizes for number and size of wires.

For push-in terminals: Use #14-AWG solid copper wire only.

For screw terminals: Use #12 or #14-AWG solid copper wire only. Tighten screw terminals 14 to 16-in. lbs. torque.

Choose 4A., 4B. or 4C

4A. When using 2-Rocker or 3-Rocker Switch to turn an appliance ON & OFF:

Make electrical connections following appropriate diagram.

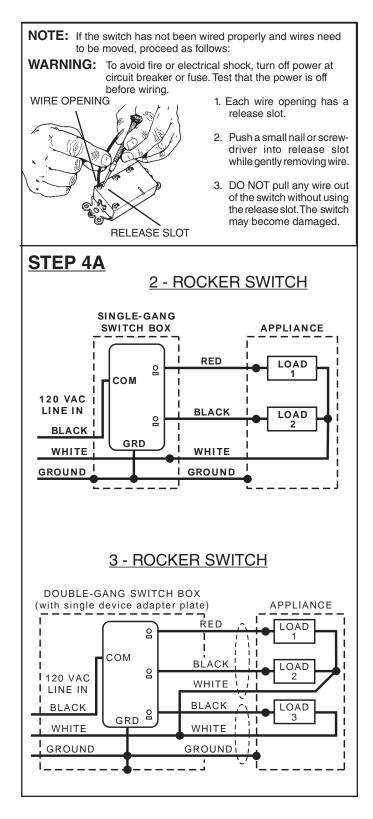
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WARNING

To prevent serious injury from electrical shock or damage to electrical components - **DO NOT WIRE HOT!**

Each individual rocker switch on this control is rated at 15 AMPS, @ 120 VAC. The total load on this control must not exceed 20 AMPS, @ 120 VAC.

Warranty is void if miswired.



4B. When using a 2-Rocker Switch to turn a range hood ON & OFF from another location with 120 VAC POWER CABLE ENTERING SWITCH BOX:

Remove the range hood's wiring cover. If the hood has a BLACK JUMPER WIRE, it must be cut and the end stripped as shown. (FIG. I)

Use UL approved clamps to secure all cables to hood and box. Make wiring connections following appropriate diagram. Use proper wire nut sizes for number and size of wires. Replace range hood wiring cover.

4C. When using a 2-Rocker Switch to turn a range hood ON & OFF from another location with 120 VAC POWER CABLE ENTERING HOOD:

Remove the range hood's wiring cover. If the hood has a BLACK JUMPER WIRE, it must be cut and the end stripped as shown. (FIG. I)

Use UL approved clamps to secure all cables to hood and box. Make wiring connections following appropriate diagram. Use proper wire nut sizes for number and size of wires. Replace range hood wiring cover.

5. MOUNT CONTROL IN SWITCH BOX

Tuck wires into switch box and fasten the control to box using attached screws.

6. ATTACH SWITCH PLATE

Fasten the switch plate to the control using the short screws from the parts bag.

- * 2-SPEED RANGE HOODS: Broan 40000, F40000, 41000, 42000, 43000, 52000, PM250, CBD1, QL1, QML, QS1 & QSE1 Series. NuTone NS6500, NSPM250, RL6200 & WS1 Series.
- ** INTERMEDIATE RANGE HOODS: Broan 46000 & QT20000 Series. NuTone ACS3 Series.

