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WHIRLPOOL RC8700EDB Owner's Manual

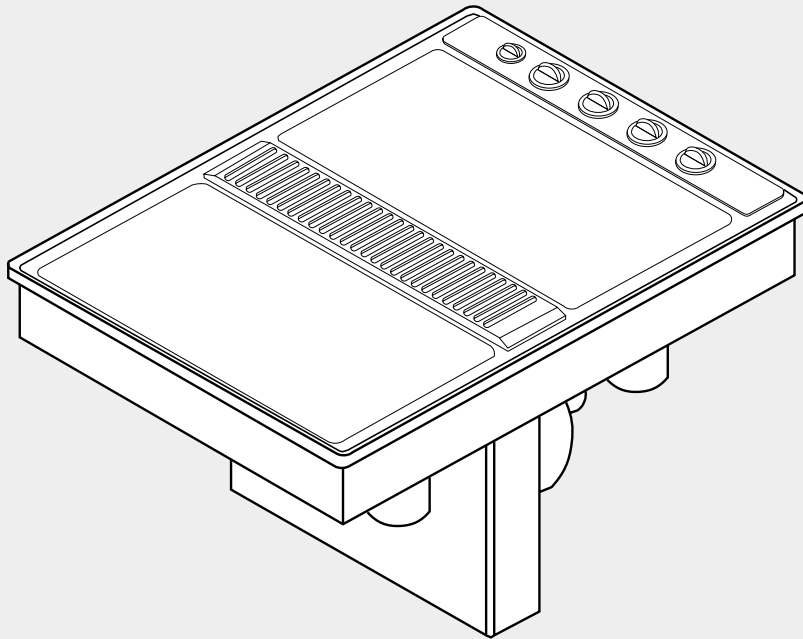
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----- Manual continues below -----

Installation Instructions



30" ELECTRIC Downdraft Cooktop

Modules selected at time of purchase

Quick Reference

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Need assistance?

Check your Use and Care Guide for contact information for the dealer from whom you purchased the cooktop.

- Have questions about the cooktop.
- Need to obtain the name and address of the manufacturer's company.

The dealer is listed in the Yellow Pages under "Appliances — Household Appliances."

When you call, you will need:

- The cooktop model number.
- The cooktop serial number.

Both numbers are listed on the left side of the downdraft plate.

Write both numbers down now.

Model # _____

IMPORTANT:
Read and save these instructions.

Part No. 208040 A
4381589

IMPORTANT:

Installer: Leave Installation Instructions with the cooktop.

Homeowner: Keep Installation Instructions in a safe place.

Save Installation Instructions for local electrical code requirements.

Before you start...

Important: Observe all governing codes and ordinances.

Proper installation is your responsibility.

- Make sure you have everything necessary for correct installation.
- **Have a qualified technician install this cooktop.**
- Comply with the installation clearances specified on the model/serial rating plate.

Model/serial rating plate is located on the left side of the downdraft plenum.

Cooktop location should be away from strong draft areas, such as windows, doors and strong heating vents or fans. Locate cooktop for convenient use in kitchen.

Grounded electrical system is required. See "Electrical requirements," Page 4.

Venting duct must terminate outdoors.

All openings in the wall or floor where cooktop is to be installed must be sealed.

WARNING



Electrical Shock Hazard

It is the customer's responsibility to contact a qualified electrical installer, to make sure that the electrical installation is correct, and to make sure the electrical installation follows the National Electrical Code, ANSI/NFPA 70 — latest edition*, and all local codes and ordinances.

Take special care when cutting holes into a wall. Electrical wires may be behind the wall covering and could cause an electrical shock if you touch them.

Disconnect the power to any electrical circuits that could be affected by the installation of this product.

Failure to do so could result in death or serious injury.

Injury Hazard

To eliminate the risk of burns or fires, **Do Not** install cabinets or store things above the cooktop. If cabinets are already installed above the cooktop, install a range hood to the bottom of the cabinet to prevent reaching over a heated cooking surface. The range hood should stick out a minimum of 5 inches (12.7 cm) from the front of the cabinets.

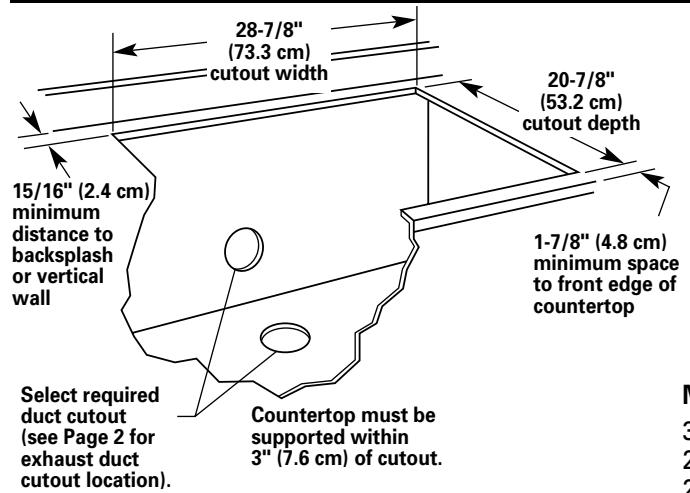
Reaching over a heated cooking surface could result in a serious burn or other injury.

This appliance is **Not** approved for use in mobile homes.

*Copies of the standards listed may be obtained from:
National Fire Protection Association
Batterymarch Park
Quincy, Massachusetts 02269

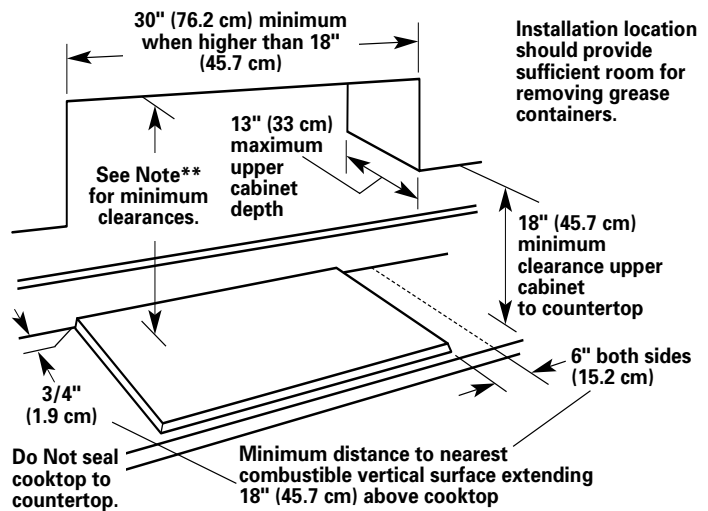
Tools and materials needed:

Cutout dimensions



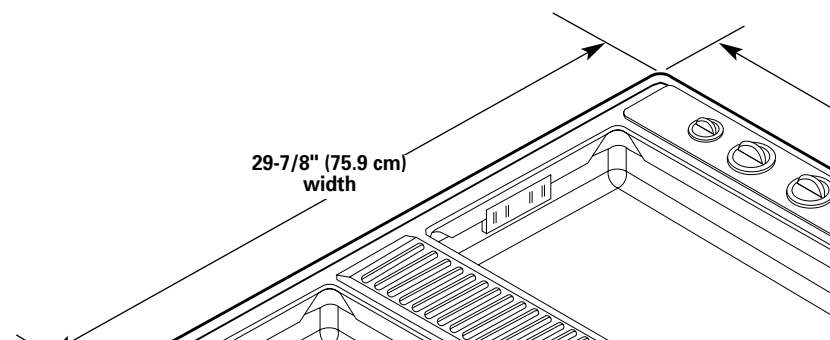
If cabinet has drawers, drawers will need to be removed and drawer fronts installed on front of cabinet.

Clearance dimensions



** Note: 24" (61.0 cm) minimum when bottom of wood or metal cabinet is protected by not less than 1/4" flame retardant millboard covered with not less than No. 28 MSG sheet steel, 0.015" stainless steel, 0.024" aluminum or 0.020" copper.
30" (76.2 cm) minimum clearance between the top of the cooking platform and bottom of unprotected wood or sheet metal.

Product dimensions



Venting requirements

Duct materials needed for installation is not supplied.

WARNING



Fire Hazard

The venting system **MUST** end outdoors.
Do Not end the ductwork in an attic, wall, ceiling or other enclosed space.
Do Not use 4" laundry-type wall caps.
Do Not use plastic-type duct.
Do Not block the flow of ventilation air.
Failure to follow these instructions could result in a fire.

Before making cutouts, make sure there is proper clearance within the wall or floor for the exhaust duct.

Do Not cut a joist or stud unless absolutely necessary. If a joist or stud must be cut, then a supporting frame must be constructed.

Determine which venting method to use. See "Venting methods," Page 2.

Next, determine the equivalent duct length using chart on Page 3. This cooktop is equipped with a dual range blower. The equivalent duct length (not actual) determines whether blower is set at the "Low" or "High" range. The blower is set at the "Low" range setting at the factory.

The blower housing must be rotated or swiveled to the proper angle needed for your installation. The blower can be swiveled 90°. The blower may be rotated horizontally or vertically. Reach through the ventilation chamber to loosen, but Do Not remove, the nuts around blower inlet to adjust the blower.

This downdraft cooktop is rated at 60 feet of straight duct.

- If duct length is 10 feet (3 m) or less, 5" diameter round ductwork may be used.
- If duct length is more than 10 feet (3 m), use 6" diameter round or 3-1/4" x 10" rectangular duct.

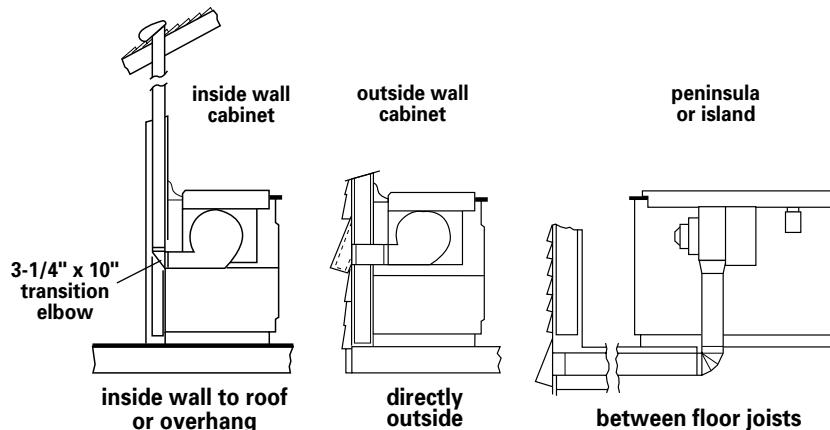
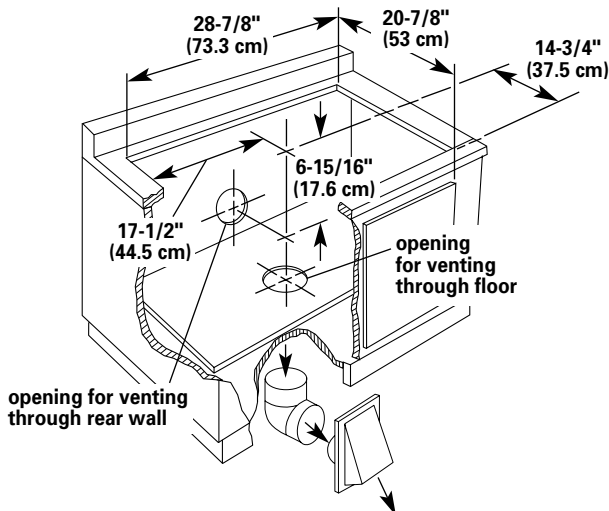
Thermal breaks: In areas of extreme cold weather, it may be necessary to provide a short length of nonmetallic duct as close to the wall as possible to prevent thermal conduction along the metal duct.

For altitudes above 4,500 ft (1,350 m), reduce recommended duct run by 20%.

For the quietest

- Use 26-gauge minimum pipe fitting codes may Flexible m
- Do Not ex cooktop in
- The length should be efficient p
- The size o
- Use no m
- Do not ins
- Make sure of straight than one together airflow.)
- Do Not us system. In followed elbow tra
- Do Not re or 3-1/4" x
- Avoid form crimps ma
- Use the re perform used, be o it has a ba
- Use duct t system.
- Use caulki opening a

Venting methods



The cooktop may be vented through the rear wall or floor. Common venting methods and the types of materials needed are shown.

Make sure there is proper clearance within the wall or floor for exhaust duct before making cutouts.

12" (30.5 cm) minimum

concrete

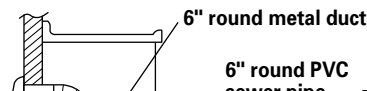
6" round PVC sewer pipe

5" to 6" round metal transition

6" round metal duct

















wall cap



Venting requirements con't.

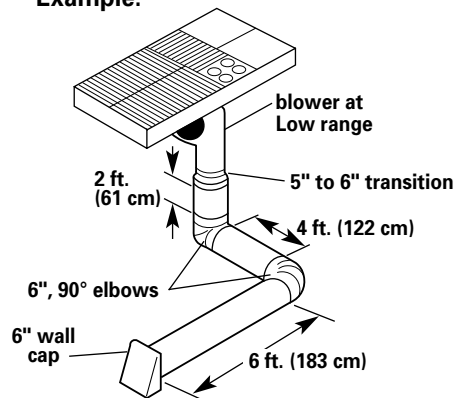
Determine range blower setting.

This cooktop is equipped with a dual range blower. It is factory set at "Low" range to be used for equivalent duct length runs of 30 feet (9.1 m) or shorter. **If the equivalent duct length exceeds 30 feet (9.1 m), the blower must be shifted to "High" range. Do Not shift to "High" range for runs shorter than 30 feet (9.1 m).** Using the "High" range on shorter runs will cause excessive noise and conditioned air loss, and will affect the flame pattern of gas burners. List the number of each piece and length of straight duct you will use. Multiply the equivalent length by the number of pieces. Add the totals to get the total equivalent length of your system.

Duct Piece	Equivalent Length	No. of Pieces/Length	Total Equivalent Length
straight duct per lineal foot			
3-1/4" x 10"	1 ft. (30.5 cm)		
6" round	1 ft. (30.5 cm)		
6" flexible	2 ft. (61 cm)		
elbow			
 6" round 45° elbow	2.5 ft. (76 cm)		
 6" round 90° elbow	5 ft. (152 cm)		
 3-1/4" x 10" flat elbow	12 ft. (366 cm)		
 3-1/4" x 10" 90° elbow	5 ft. (152 cm)		
transition to round			
 5" to 6"	1 ft. (30.5 cm)		
 3-1/4" x 10" to 6" 90° elbow	9 ft. (274 cm)		
 3-1/4" x 10" to 6"	4.5 ft. (137 cm)		
transition to flat			
 5" to 3-1/4" x 10" 90° elbow air flow this direction not recommended	6 ft. (183 cm)		
 6" to 3-1/4" x 10" 90° elbow	5 ft. (152 cm)		
 6" to 3-1/4" x 10"	1 ft. (30.5 cm)		
wall cap*			
 3-1/4" x 10"	0 ft. (0 cm)		
 5" or 6" round	0 ft. (0 cm)		
roof cap*			
 10" x 10"	0 ft. (0 cm)		
thermal break			
 5" or 6" round	2 ft. (61 cm)		
Total equivalent duct system length			

Duct system equivalent length 30 feet (9.1 m) or less — blower should be set at "Low" range.

Example:



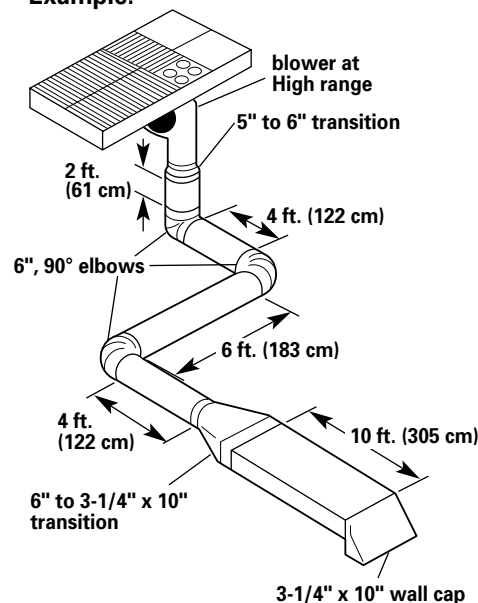
90° elbows (2) = 10 ft. (305 cm)
 12 feet (366 cm) straight = 12 ft. (366 cm)
 5" to 6" transition = 1 ft. (30.5 cm)
 Wall cap = 0 ft. (0 cm)

Equivalent length of 6" round system = 23 ft. (701 cm)

(In this example, blower can be left in "Low" range as set at factory.)

Duct system equivalent length greater than 30 feet (9.1 m) — blower should be set at "High" range.

Example:



90° elbows (3) = 15 ft. (457 cm)
 5" to 6" transition = 1 ft. (30.5 cm)
 6" to 3-1/4" x 10" transition = 1 ft. (30.5 cm)
 Wall cap = 0 ft. (0 cm)
 16 feet (488 cm) 6" straight = 16 ft. (488 cm)
 10 feet (254 cm) 3-1/4" x 10" straight = 10 ft. (305 cm)

Equivalent length of 6" round system = 43 ft. (1311 cm)
 (In this example, blower **MUST** be shifted to "High" range.)

Note: Flexible metal duct is Not recommended.

If it is used, calculate each foot of flexible duct as two feet of rigid duct.

Electrical requirements

IMPORTANT: Save Installation Instructions for electrical inspector's use.

WARNING



Electrical Shock Hazard

Electrical ground is required on this appliance.

Do Not ground to a gas pipe.

Do Not have a fuse in the neutral or grounding circuit. A fuse in the neutral or grounding circuit could result in an electrical shock.

Check with a qualified electrician if you are not sure the appliance is properly grounded.

Failure to follow these instructions could result in death or serious injury.

If codes permit and a separate grounding wire is used, it is recommended that a qualified electrician determine that the grounding path is adequate.

The downdraft cooktop must be connected to the proper electrical voltage and frequency as specified on the model/serial rating plate. (The model/serial rating plate is located on the left side of the plenum.)

- ☑ A three-wire or four-wire, single-phase, 120/240-volt, 60-Hz, AC-only electrical supply (or three-wire or four-wire, 120/208-volt if specified on the model/serial rating plate) is required on a separate 40-ampere circuit, fused on both sides of the line.
- ☑ A time-delay fuse or circuit breaker is recommended. The fuse size must not exceed the circuit rating of the appliance as specified on the model/serial rating plate.
- ☑ CONNECT WITH COPPER WIRE ONLY.
- ☑ Connected directly to the fused disconnect (or circuit breaker box) through flexible, armored or non-metallic sheathed, copper cable (with grounding wire).
- ☑ Flexible armored cable should connect cooktop directly to the junction box.
- ☑ Fuse both sides of the line.
- ☑ Locate the junction box to allow as much slack as possible between the junction box and cooktop so that the downdraft cooktop can be moved if servicing is ever necessary.

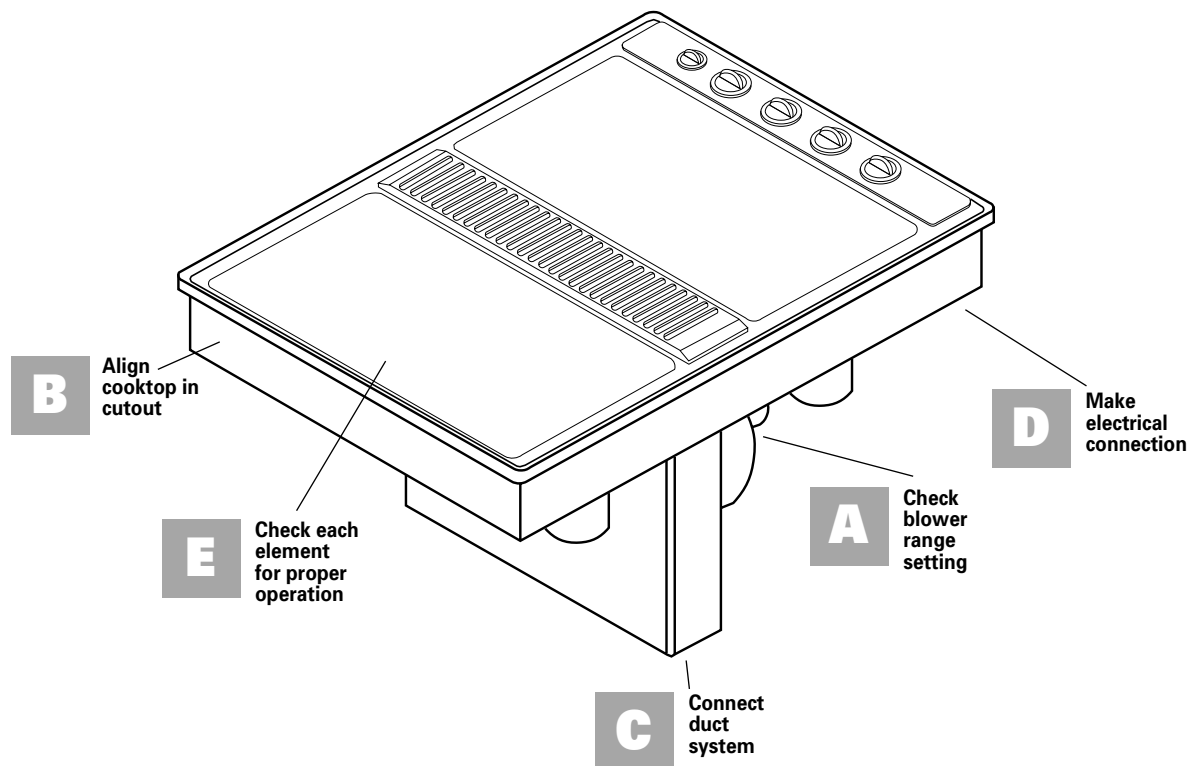
- ☑ A U.L.-listed must be p cooktop ju

The recomm No.-8 gauge. must conform Electrical Co and all local connections appliance.

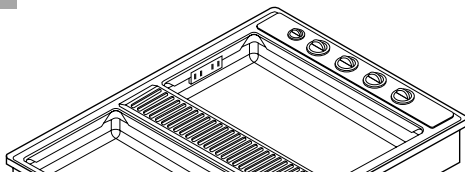
Copies of the sta * National Fire Battery March Quincy, Massa

The wiring d cover plate u

Installation steps



A Preparation



B Installation

It may be easier to connect appliance cable to junction box before inserting cooktop into cutout. See D, "Electrical connection," Page 5

C D

4. Co requiremen seal all join

D Electrical connection

WARNING



Electrical Shock Hazard

Electrical ground is required on this cooktop. Do Not connect to the electrical supply until the cooktop is permanently grounded.

Disconnect power to the junction box before making the electrical connection.

This cooktop must be connected to a grounded, metallic, permanent wiring system, or a grounding connector should be connected to the grounding terminal or wire lead on the cooktop.

Failure to follow these instructions could result in death or serious injury.

This appliance is manufactured with a white (neutral) power supply wire and a cooktop-connected green (or bare) grounding wire twisted together.

Appliance cable and connectors are not provided.

5. Make the electrical connection:

1. Disconnect the power supply.
2. Remove the junction box cover from junction box inside cabinet.
3. Remove cooktop junction box cover located on right side of cooktop.
4. Use a U.L.-listed conduit connector to connect appliance cable to junction box inside cabinet.
5. Remove knockout on side of cooktop junction box needed to fit size of appliance cable. Use a U.L.-listed conduit connector to connect appliance cable to cooktop junction box.
6. Connect the two black wires together with twist-on connectors in both junction boxes.
7. Connect the two red wires together with twist-on connectors in both junction boxes.
8. Complete the electrical connection according to local codes and ordinances. (See chart.)

Wire connections: Junction box in wall

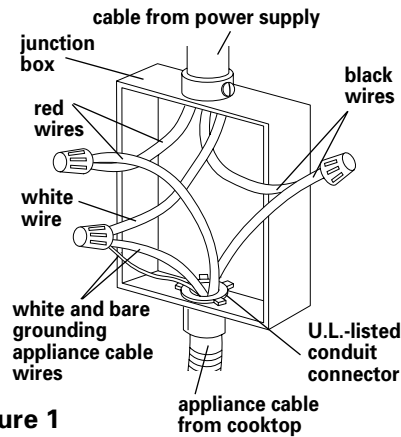


Figure 1

If local codes PERMIT connecting cooktop-grounding conductor to neutral junction box wire:

9. Connect the bare and white appliance cable wires to the neutral (white) wire in junction box. See Figure 1.
10. Replace junction box cover.

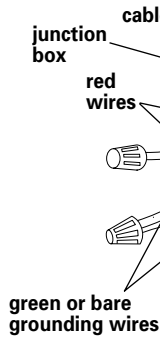


Figure 2

If local codes PERMIT connecting cooktop-grounding conductor to neutral junction box wire:

If connecting to neutral junction box wire:

9. Separate bare and white wires.
10. Connect white (white) wire in junction box to the neutral (white) wire in junction box.
11. Connect the bare and white wires to the green or bare grounding wire in junction box. **Not connect bare (white) wire in junction box to neutral junction box wire.**
12. Replace junction box cover.

Wire connections: Cooktop junction box

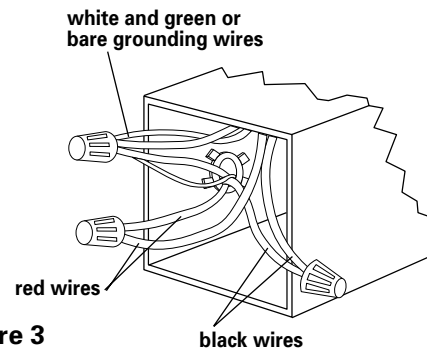


Figure 3

If local codes PERMIT connecting cooktop-grounding conductor to neutral junction box wire:

9. Connect the cooktop white and green or bare grounding wire to the neutral (white) wire and bare grounding wire in the appliance cable. See Figure 3.
10. Replace junction box cover.

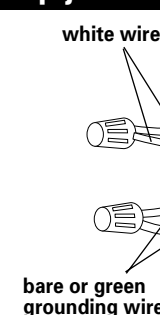


Figure 4

If local codes PERMIT connecting cooktop-grounding conductor to neutral junction box wire:

If connecting to neutral junction box wire:

9. Separate bare and white wires.
10. Connect white (white) wire in junction box to the neutral (white) wire in junction box.
11. Connect the bare and white wires to the bare or green grounding wire in junction box. **Do not connect bare (white) wire to neutral junction box wire.** See Figure 4.
12. Replace junction box cover.

E Check operation

Cooktop removal

If removing the cooktop is necessary for cleaning or maintenance:

1. Disconnect electrical supply.
2. Disconnect vent duct system.
3. Lift cooktop out of countertop to complete cleaning or maintenance.

After cleaning and maintenance:

1. Reinstall cooktop in cutout.
2. Check that front edge of cooktop is parallel to front edge of countertop.
3. Connect electrical supply.
4. Connect vent duct system.

If cooktop operation

- Check that house fuse
- Check that
- See Use a list.

If you need

Check your User number to call purchased through the Yellow Pages "Appliances - Repair."

When you call number and found on the left side of

Part No. 208040 A
4381589

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