

**ELECTRIC FREE-STANDING CONVECTION RANGE**  
Installation Manual  
For Use with Model(s): all electric models

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## Questions?

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We look forward to hearing from you!



# Important Safety Instructions

READ AND SAVE THESE INSTRUCTIONS

## Important Safety Instructions

**WARNING:** If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

- Ask your dealer to recommend a qualified technician and an authorized repair service.
- Install only per installation instructions provided in the literature package for this range.
- Important - Save for local electrical inspector's use.

### Safety Codes and Specifications

- Be sure your appliance is properly installed and grounded by a qualified technician in accordance with the National Electrical Code ANSI/ NFPA No. 7 latest edition and local electrical code requirements.
- Local codes vary. Installation, electrical connections and grounding must comply with all applicable codes.
- This appliance has been tested in accordance with ANSI/UL 858 Standard for Safety for Household Ranges and CAN/CSA-22.2 No. 61 National Standard of Canada for Household Cooking Ranges. It is the responsibility of the owner and the installer to determine if additional requirements and standards apply in specific installations.

### Equipment and Usage Safety Requirements

- Unit is heavy and requires at least two persons or proper equipment to move.
- Stepping, leaning or sitting on the doors or drawers of this range can result in serious injuries and also cause damage to the range.
- Do not allow children to climb or play around the range. The weight of a child on an open door may cause the range to tip, resulting in serious burns or other injury.
- Do not store items of interest to children in the cabinets above a range or on the backguard of a range. Children climbing on the range to reach items could be seriously injured.
- To eliminate the risk of burns or fire by reaching over heated surface units, cabinet storage space located above the surface units should be avoided. If cabinet storage is provided, the risk can be reduced by installing a range hood that projects a minimum of five inches (12.7 cm) beyond the bottom of the cabinets.
- Remove all tape and packaging before using the range. Destroy the packaging after unpacking the range. Never allow children to play with packaging material.
- Do not repair or replace any part of the appliance unless specifically recommended in the manuals. All other servicing should be done by a qualified technician. This may reduce the risk of personal injury and damage to the range.
- Never modify or alter the construction of a range by removing leveling legs, panels, wire covers, anti-tip brackets/screws, or any other part of the product.
- DO NOT LIFT RANGE BY DOOR HANDLE.
- Remove the door for easier handling and installation. See 'Removing Oven Door' in the Maintenance section of the Use and Care Manual.
- Do not use the warming drawer (if equipped) or oven for storage.
- Hidden surfaces may have sharp edges. Use caution when reaching behind or under range.

## Power Requirements and Electrical Grounding Instructions

- Before installing, turn power OFF at the service panel. Lock service panel to prevent power from being turned ON accidentally.
- Know how to disconnect the power to the range at the circuit breaker or fuse box in case of an emergency. Installation

# Installation

## Before You Begin

### Tools and Parts Needed

- 50 Amp Power Supply Cord Kit (not necessary for Canadian installations)
- Measuring Tape
- Phillips Head Screwdriver
- 1-1/4" (31.8 mm) Wrench
- Pencil
- T-20 Torx Screwdriver
- Screws (2) and Anchors (2) for Anti-Tip Bracket (Style will vary depending on mounting surface)
- Level
- Drill and Drill Bit
- Safety Gloves and Goggles
- Tape (Optional)
- Cloth or Cardboard (Optional - to Protect Floor)

### Additional Parts Needed For Hard Wire Installations

- Flexible Conduit (For Hard Wire Installation Only)
- Torque Wrench (For Hard Wire Installation Only)
- **Note:** Power Supply Cord Kit Not Necessary For Hard Wire Installations

### Parts Included

- Anti-Tip Bracket
- Terminal Lugs (For Use With Hard Wire Installations) (not necessary for Canadian installations)

### Cabinet Requirements

This unit is designed for installation near adjacent walls and projecting surfaces constructed of combustible materials. Allow a minimum of 30 inches (76.2 cm) between cabinets where range is to be installed (0.47" (12 mm) clearance from range sidewall to cabinet required in Canada).

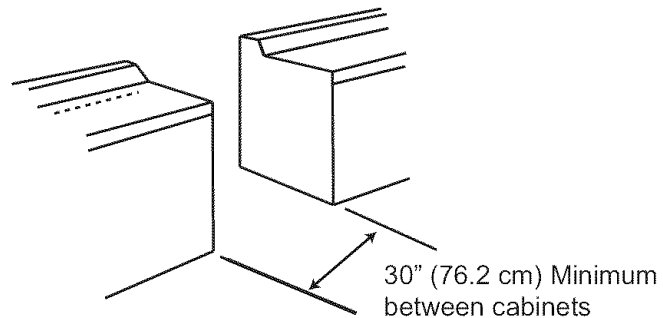


Figure 1: Cabinet Clearances

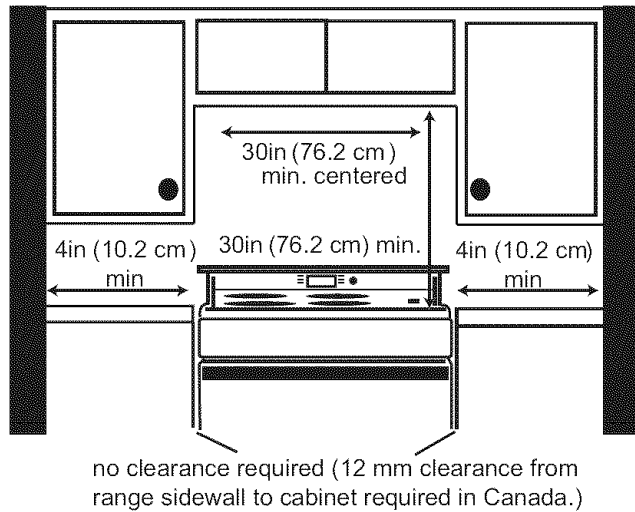
### Required Clearances:

These clearance instructions were determined using Standard American cabinets. Standard base cabinets measure 36" (91.4 cm) high x 24" (60.9 cm) deep. Cabinets over the cooking surface and cabinets adjacent to those over the cooking surface measure 13 inches (33 cm) deep from backwall. If nonstandard cabinets are used, care should be taken to alter dimensions accordingly.

**NOTE:** Some cabinet finishes cannot survive the temperatures allowed by U.L. for appliances, particularly self-cleaning ovens; the cabinets may discolor or stain. This is most noticeable with laminated cabinets.

### From cooktop to materials above:

There must be a minimum clearance of 30 inches (76.2 cm) between the top of the cooking surface and the bottom of an unprotected wood or metal cabinet.



**Figure 2: Cooktop Clearances**

24 inches (61 cm) is acceptable when the bottom of the wood or metal cabinet is protected by

- (a) not less than 1/4" (6.35 mm) of flame retardant material which must be covered with
- (b) not less than No. 28 MSG sheet metal, 0.015 inch (.381 mm) stainless steel or 0.024 inch (.601 mm) aluminum or copper.

### From range walls to adjacent materials (see Figure 2 above):

No clearance is required from unit walls to adjacent vertical combustible walls on rear, right or left. Clearance from range top to adjacent vertical walls must be at least 4" (10.2 cm).

## Electrical Requirements

The electrical outlet must be located in the shaded space in Figure 3.

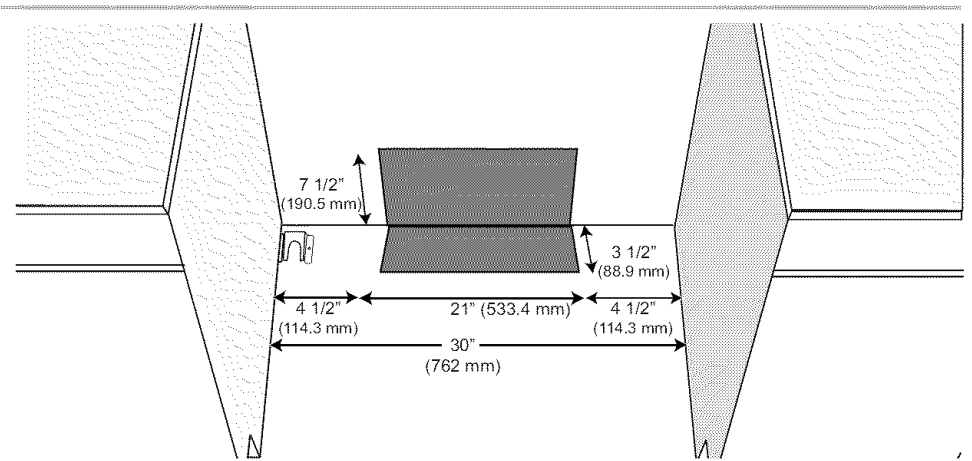


Figure 3: Cooktop Clearances

### Verify that wiring to house is adequate.

Contact your local utility company to verify that the present electric service to your home is adequate. In some instances, the size of the wiring to the house and service switch must be increased to handle the electrical load demanded by the range.

### Verify that wiring inside house is adequate.

Most wiring codes require a separate circuit with separate disconnect switch and fuses either in the main entrance panel or in a separate switch and fuse box. Most local building regulations and codes require that electrical wiring be done by licensed electricians. Be sure to install your range according to the electric codes in place in your region.

### General Information

Ranges are dual rated for use on either 120/240 VAC or 120/208 VAC. See chart at right for power ratings and circuit breaker sizes based upon the supply voltage for each model.

We recommend that the range be installed with a UL approved power cord set (not supplied). The electrical rating of the power cord set must be 120/240 volt, 50 amperes minimum. The power cord set shall be marked "For Use with Ranges." Always use a new power cord. Alternatively, the range can also be hard wired using the aluminum terminal lugs included in the literature pack. If using this connection, flexible conduit must also be used (not supplied).

We recommend a 50 AMP, 60 Hz, 4 wire circuit; However, the NEC (National Electric Code) allows for some ranges to be installed on a 40 AMP circuit. Refer to your local electric code requirements in order to determine the required amperage. Always choose a range power cord set that is rated for the circuit. In compliance with the NEC, a separate circuit is also recommended.

**Note:** In Canada, the range is shipped from the factory with the range cord already installed. Proceed to Step 9.

For installations other than those in Canada, install the strain relief and connect the range cord (or wire conductors) as described in the following steps.

**Table 1: Electrical Specifications**

Check data plate for kW rating. Reference kW rating in table to determine amperage requirements.

kW Rating		AMPS Required	
At 120/240 Volts:	At 120/208 Volts:	US Models:	Canadian Models:
12.3	9.2	40 or 50*	
12.6	9.5	40 or 50*	50
13.5	10.2	50	

\* Varies by location. Refer to local electric code.

## Installation

### Installation Tips

- Tape warming drawer or storage drawer shut to keep it from opening while installing the range.
- During installation, place a portion of the box or a piece of cloth under the range to protect floors.
- To make range lighter and easier to handle, remove door (see instructions in Use and Care manual).

### 1) Install Ventilation

We strongly recommend the installation of a ventilation hood above this range. For most kitchens a certified hood rating of not less than 300 CFM is recommended. The range hood must be installed according to instructions furnished with the hood.

### 2) Prepare Walls and Floor

Seal any holes in the walls or floor. Remove any obstructions (extra electrical or gas connections, etc.) so that range will rest against wall properly.

### 3) Prepare Range

Place range in front of cabinets where it is to be installed. Remove any packaging.

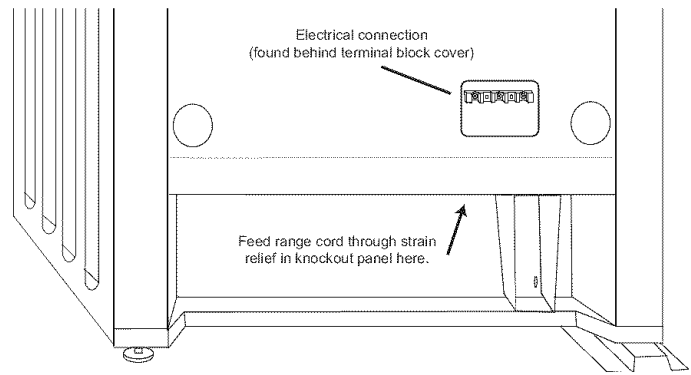
### 4) Install Strain Relief



**WARNING:** The strain relief provided with your range cord must be properly installed.

Place strain relief in knockout below terminal block (See Figure 4). Feed range cord through hole and strain relief up to terminal block. Allow for slack in the cord between the strain relief and terminal block. Once cord length/ slack has been adjusted, attach strain relief per instructions included with strain relief.

**Tip:** The knockout panel (below the terminal block) can be removed from the range to install the strain relief. Remove panel from range, install strain relief in panel and reattach. DO NOT remove entire range back panel.



**Figure 4: Electrical Connection and Strain Relief Knockout Panel Locations**

There are four possible electrical connections:

1. Four wire range cord
2. Three wire range cord
3. Four wire flexible conduit connection (hard wire)
4. Three wire flexible conduit connection (hard wire)

The four wire range cord connection is the recommended method, but where local codes permit, three wire connections are also acceptable.

As an alternative to the range cord, the appliance can also be hard wired with either a three or four wire connection. In this case, the terminal lugs supplied must be used.

Always verify that your chosen connection complies with all applicable codes. See "Electrical Specifications" at the beginning of this manual for further information.

## 5) Connect Electric



**WARNING:** To prevent electrical shock, the grounding prong on the range cord should not be cut or removed under any circumstances. It must be plugged into a matching grounding type receptacle and connected to a correctly polarized 240- Volt circuit. If there is any doubt as to whether the wall receptacle is properly grounded, have it checked by a qualified electrician.



**WARNING: Risk of Electric Shock or Fire.** Frame grounded to neutral through a ground strap. Grounding through the neutral conductor is prohibited for new branch-circuit installations (1996 NEC), mobile homes, and recreational vehicles, or in an area where local codes prohibit grounding through the neutral conductor.

For installations where grounding through the neutral conductor is prohibited, (a) disconnect the link from the neutral, (b) use grounding terminal or lead to ground unit, (c) connect neutral terminal to lead branch circuit neutral in usual manner



(when the appliance is to be connected by means of a cord kit, use 4-conductor cord for this purpose)

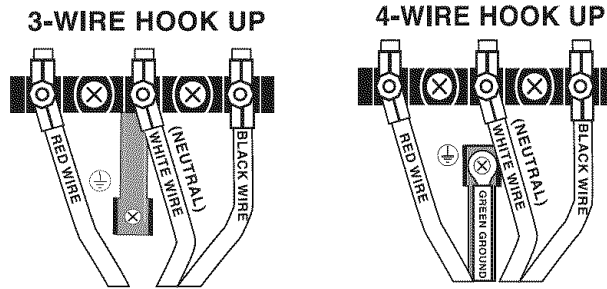


Figure 5: Grounding Options

Use only cord kits rated 125/250 volts (minimum), 50 amperes and labeled "For Use with Ranges". Strain relief provided with cord must be installed per instructions included with cord.

### 5A) Four Wire Range Cord Connection (Recommended Method)

1. Disconnect electrical power at breaker box.

Remove the terminal block cover to expose the terminal block

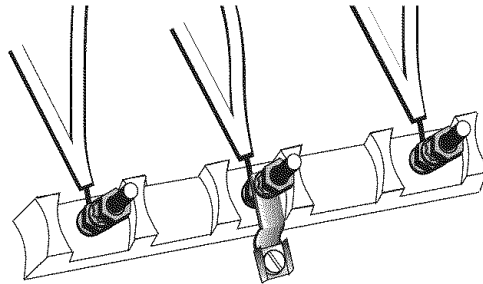


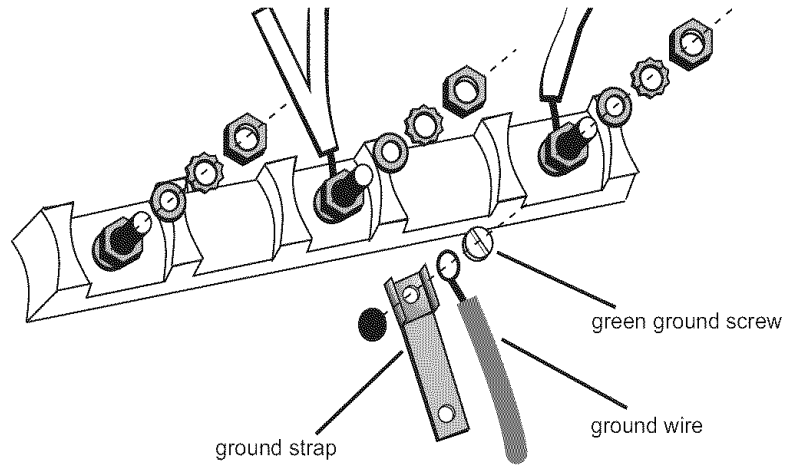
Figure 6: 4 Wire Connection

2. Remove top nut, star washer, and round washer from each post.

**Note:** DO NOT remove last round washer, last nut or internal wiring leads.

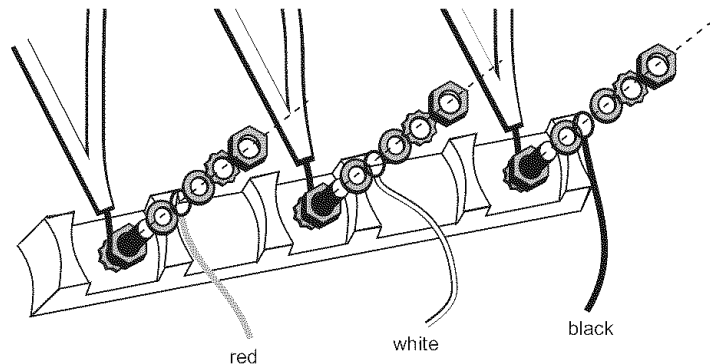
3. Remove screw from bottom end of ground strap.

4. Remove ground strap from center post, rotate so that wide end is at top and attach wide end to range through hole below junction box. Attach green wire on top of ground strap. Tighten Screw.



**Figure 7: Four Wire Range cord Connection - Ground Strap and Wire**

5. Attach red wire, round washer, star washer and nut IN THIS ORDER to left post.
6. Attach white wire, round washer, star washer and nut IN THIS ORDER to center post.
7. Attach black wire, round washer, star washer and nut IN THIS ORDER to right post.



**Figure 8: Four Wire Range Cord connection Continued**

8. Tighten all connections securely and replace terminal block cover.
9. Properly secure strain relief (see previous section).

**Note:** DO NOT plug in range at this time.

### **5B) Three Wire Range Cord Connection**

The Four Wire Connection (above) is preferred, but where local codes and ordinances permit grounding through neutral and where conversion to four wire is impractical, the unit may be connected to the power supply via a three wire connection.

1. Disconnect electrical power at breaker box.

2. Remove the terminal block cover to expose the terminal block.

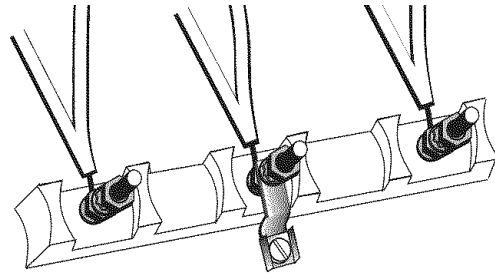


Figure 9: Terminal Block

3. Remove top nut, star washer, and round washer from each post.

**Note:** DO NOT remove last round washer, last nut or internal wiring leads.

4. Attach white wire, round washer, star washer and nut IN THIS ORDER on top of ground strap on center post.
5. Attach red wire, round washer, star washer and nut IN THIS ORDER to left post.
6. Attach black wire, round washer, star washer and nut IN THIS ORDER to right post.

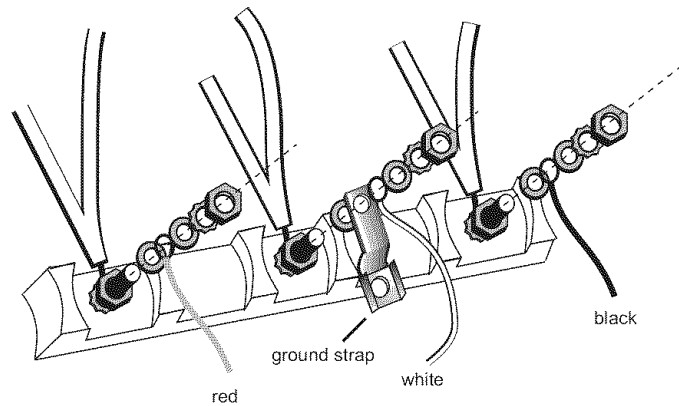


Figure 10: Three Wire Connection

7. Tighten all connections securely and replace terminal block cover.

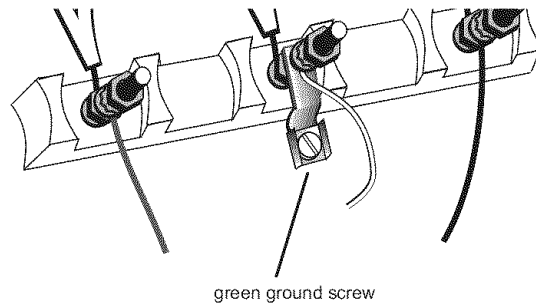


Figure 11: Completed Three Wire Range Cord Connection

8. Properly secure strain relief (see previous section).

**Note:** DO NOT plug in range at this time.

### 5C) Four Wire Flexible Conduit Connection

1. Disconnect electrical power at the breaker box.
2. Remove the terminal block cover to expose the terminal block.
3. Remove the top nut, star washer, and round washer from each post.

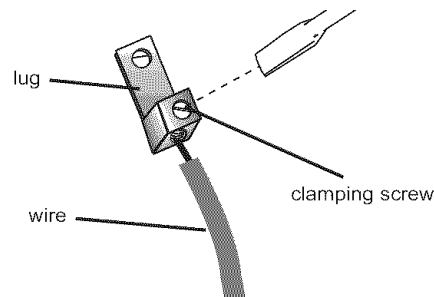
**Note:** DO NOT remove last round washer, last nut or internal wire leads.

4. Remove screw from bottom end of ground strap.
5. Remove ground strap from center post. Discard.
6. Attach one terminal lug (packaged with this manual) through hole below terminal block with ground screw.
7. Place one terminal lug (packaged with this manual) on each post. Replace the star washer and round washer and secure with 20 inch pounds of torque.
8. Strip 3/8 (9.53 mm) inches of insulation from the end of the wire.



**Figure 12: Wire Stripping**

9. Insert the insulated grounding wire into the lug below the terminal block.
10. Insert stripped end of white wire into the center lug. Secure the clamping screw.



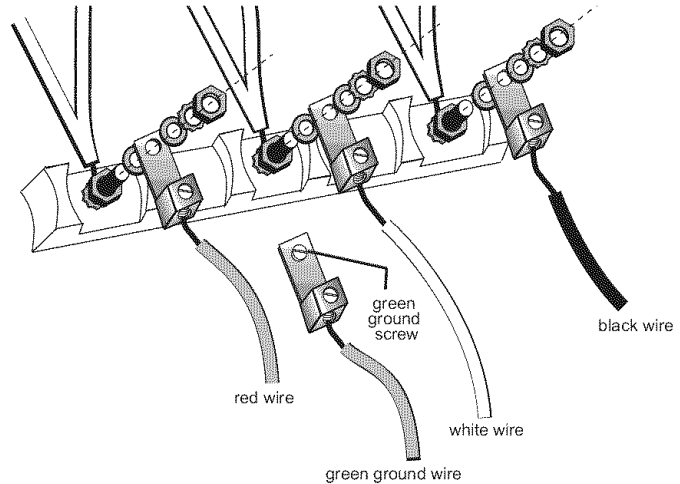
**Figure 13: Attaching Wire to Lug**

11. Insert stripped end of red wire into the left lug. Secure clamping screw.
12. Insert black wire into the right lug. Secure clamping screw.
13. Tighten each clamping screw with the appropriate torque (see table).

**Table 2: Appropriate Torque Levels for Aluminum or Copper Wire**

Gauge	Torque (in./lbs.)	Torque (Nm)
6	35	3.95
8	25	2.82

14. Properly secure flexible conduit at knockout on angle and at supply side junction box. The wiring is now complete.



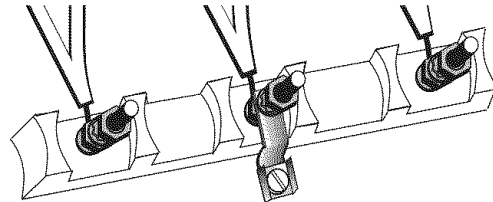
**Figure 14: Completed Four Wire Flexible Conduit Connection**

**Note:** DO NOT plug in range at this time.

#### 5D) Three Wire Flexible Conduit Connection

The Four Wire Connection is preferred, but where local codes and ordinances permit grounding through neutral and/or conversion to four wire is impractical, unit may be connected to the power supply via a three wire connection.

1. Disconnect electrical power at the breaker box.
2. Remove the terminal block cover to expose the terminal block.



**Figure 15: Terminal Block**

3. Remove the top nut, star washer, and round washer from each post.

**Note:** DO NOT remove last round washer, last nut or internal wire leads.

4. Place one terminal lug (packaged with this manual) on each post. Replace the star washer and round washer and secure with 20 inch pounds of torque.
5. Strip 3/8 (9.53 mm) inches of insulation from the end of each wire.



**Figure 16: Wire Stripping**

6. Insert stripped end of white wire into the center lug on top of the ground strap. Secure the clamping screw.

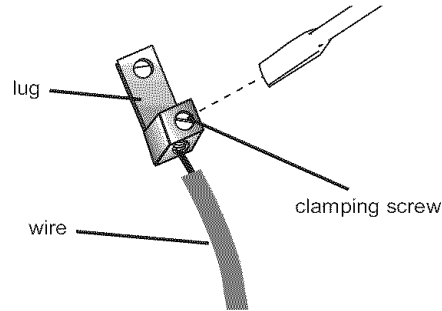


Figure 17: Attaching Wire to Lug

7. Insert stripped end of red wire into the left lug. Secure clamping screw.
8. Insert stripped end of black wire into the right lug. Secure clamping screw.
9. Tighten each clamping screw with the appropriate torque (See table below).

Table 3: Appropriate Torque Levels for Aluminum or Copper Wire

Gauge	Torque (in./lbs.)	Torque (Nm)
6	35	3.95
8	25	2.82

10. Properly secure flexible conduit at knockout panel on range and at supply side junction box. The wiring is now complete.

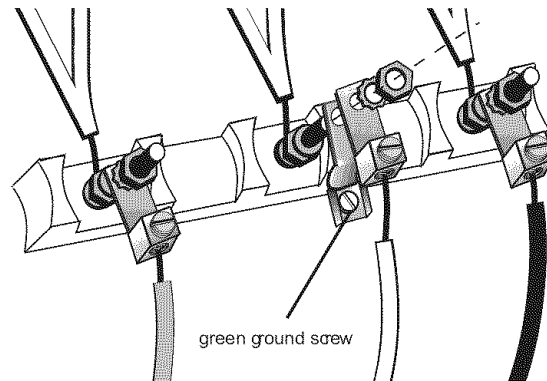


Figure 18: Completed Three Wire Flexible Conduit Connecting

**Note:** DO NOT plug in range at this time.

#### 6) Attach anti-tip bracket to floor

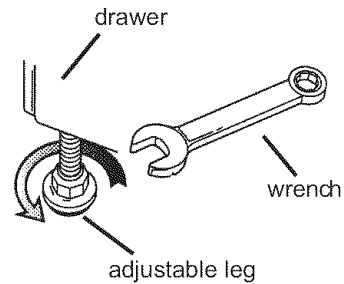


#### WARNING

#### RANGE TIPPING HAZARD

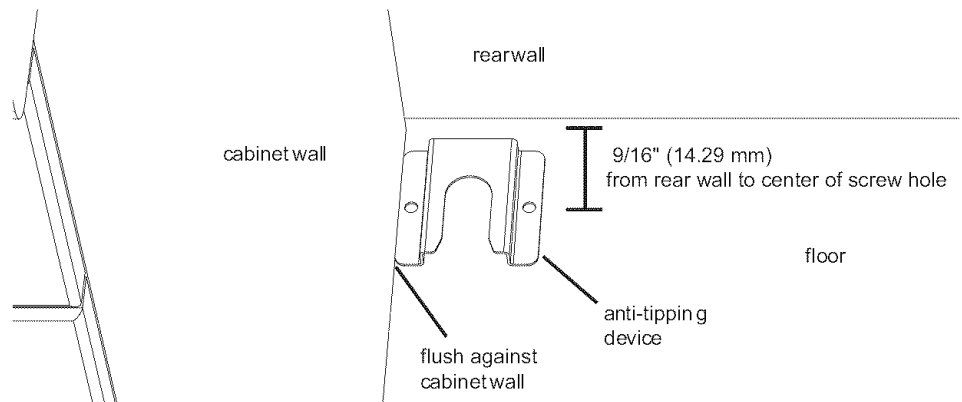
All ranges can tip and injury could result. To prevent accidental tipping of the range, attach it to the wall, floor or cabinet by installing the Anti-Tip Device supplied.

- A risk of tip-over may exist if the appliance is not installed in accordance with these instructions.
  - If the range is pulled away from the wall for cleaning, service, or any other reason, ensure that the Anti-Tip Device is properly reengaged when the range is pushed back against the wall. In the event of abnormal usage (such as a person standing, sitting, or leaning on an open door), failure to take this precaution could result in tipping of the range. Personal injury might result from spilled hot liquids or from the range itself.
1. Adjust height of range and level by rotating the adjustable leg supports on the bottom of the range, using 1-1/4" (31.75 mm) wrench.



**Figure 19: Adjusting the Leg Support**

2. Measure to locate bracket position as shown below.



**Figure 20: Anti-tip Bracket Location**

3. Secure bracket with 2 screws adequate for mounting surface, not included. (i.e.; for wood floor use wood screws for concrete floor use concrete anchors and screws).

## 7) Complete the installation

1. Move range close enough to the opening to plug into the receptacle.
2. Slide range into position ensuring that the left back leg slides under the anti-tip bracket. Range will sit 3/4" (19.05 mm) away from back wall when properly installed.
3. Carefully tip range forward to ensure that the anti tip bracket engages the range back brace and prevents tip-over.
4. Turn on electrical power. Check range for proper operation as described in Use and Care Manual.

**CAUTION:** If the display flashes and beeps, the polarity of the wiring may be reversed. Reversed polarity can damage the range and can result in electrical shock hazard. Immediately switch off power at the breaker and return to Step 5-Connect Electric.

## Service

To reach a service representative, see the contact information at the front of the manual . Please be prepared to provide the information from the data tag on the appliance.

## Data Tag

The data tag is on the appliance frame near the drawer. Open the drawer to view it.



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