

BEFORE SETTING SURFACE CONTROLS

What is Electromagnetic Induction?

Induction cooking uses electromagnets to create heat in compatible cookware.

Below each cooking zone on an induction cooktop, there is a copper coil. When the cooking zone is turned on, the electricity turns the coil into a type of magnet that heats metal cookware in the cooking zone.

Induction Features

Because heat starts in the cookware instead of the cooktop, induction offers several advantages.

- **Fast Heating:** Cookware will heat up faster than on a conventional electric cooktop. Pay close attention to avoid scorching food when starting to cook. You may need to use a lower setting for cooking food than you are used to.
- **Precise Control:** The heat going into the cookware will change immediately when you change the setting of the cooking zone.
- **Even Heating:** Cookware will typically heat more evenly on an induction cooktop, so you are less likely to have hot or cool spots in the cookware.
- **Cooler Cooktop:** An induction cooktop will be cooler when you remove the cookware than a conventional electric cooktop would be. Because the cooktop doesn't get as hot, you are not as likely to get burned. Spills are also less likely to cook onto the surface, making clean-up easier.
- **Energy Efficiency:** Induction cooking wastes less energy than a conventional cooktop, so it uses less electricity.

Preparation

Before using your cooktop for the first time, apply a ceramic cooktop cleaning cream (available in most hardware, grocery, and department stores) to the ceramic surface. Clean and buff with a clean paper towel. Cooktop cleaning creams leave a protective finish on the glass that will make cleaning easier when the cooktop is soiled from cooking and help prevent scratches and abrasions.

Sounds

The magnetic field over the induction cooking zone may cause cookware to vibrate, creating a buzzing or humming noise. These sounds are not unusual, especially at high settings.




Cookware that is not perfectly flat on the bottom may vibrate slightly against the cooktop.	
A loose handle may vibrate in its socket.	
Multi-material cookware may allow small vibrations in its structure.	

Figure 1: Induction sounds

Sounds are less likely to occur with heavier, higher quality cookware. An induction cooktop may also produce faint clicking sounds from the electronic switches that maintain the desired cooking temperature. You may also hear a fan that cools the electronics inside the cooktop.

Using Proper Cookware

The size and type of cookware used will influence the heat setting needed for best cooking results. Be sure to follow the recommendations for using proper cookware as illustrated in Figure 2 and Figure 4.

Check for flatness by rotating a ruler across the bottom of the cookware (see Figure 2). Cookware should have flat bottoms that make good contact with the entire surface of the cooking zone (see Figure 6 on page 10).



Figure 2: Ruler test

Cookware Material

Cookware material is especially important when using an induction cooktop. The cookware must contain magnetic iron or steel to work on an induction cooktop. Common materials for induction cookware include the following:

- **Stainless Steel** - Slow heat conductor with uneven cooking results. Durable, easy to clean, and resists staining. Some types of stainless steel will not work on an induction cooktop. Use the magnet test (Figure 4) to check stainless steel cookware.

- **Cast Iron** - A slow heat conductor that retains heat very well. Cooks evenly once cooking temperature is reached.
- **Porcelain-enamel on metal** - Heating characteristics will vary depending on the base material. Porcelain-enamel on a compatible metal will work on an induction cooktop. Use the magnet test (Figure 4) to check porcelain-enamel cookware.

Cookware sold as induction-ready will often have a symbol printed on the bottom by the manufacturer.

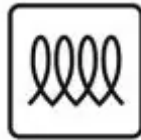


Figure 3: Induction Symbol

The Magnet Test

To see if a piece of cookware will work on your induction cooktop, try to stick a magnet to it.



Figure 4: Magnet test

If the magnet clings firmly to the bottom of the cookware, it will work on your induction cooktop. If the magnet clings weakly or not at all, the cookware will not heat up on your induction cooktop.

CAUTION! Proper cookware on an operating induction cooking zone will heat up very quickly. If an empty piece of cookware is left on an operating induction cooking zone, the rapid change in temperature may warp or damage the cookware

Pan sensing

Sensors beneath the cooktop surface require that certain cookware conditions be met before an induction cooking zone will operate. If a cooking zone is turned on and conditions are wrong, the setting in the zone display will flash.



Figure 5: Flashing Indicator

Figure 6 shows conditions that can generate a flashing message.

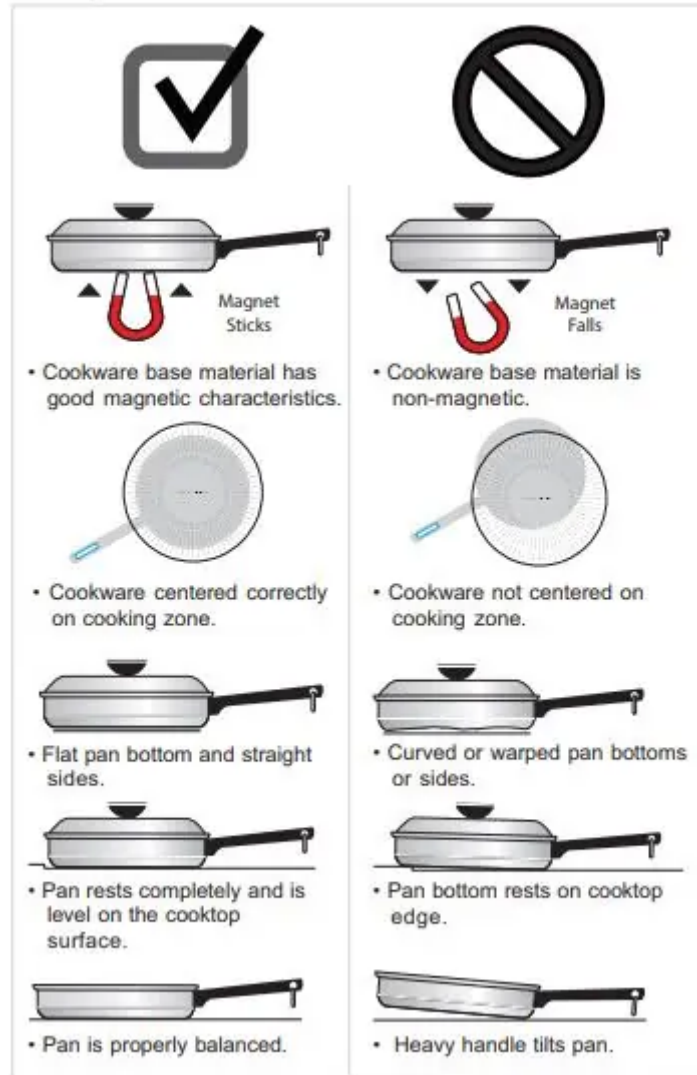




Figure 6: Pan sensing conditions

Minimum and Maximum Pan Size

Induction cooking zones require pans of proper size in order to activate. The cooktop graphics are guides to minimum and maximum pan size for each cooking zone.



	<p>Figure 7: Good cookware size</p>
	<p>Figure 8: Cookware too small</p>
	<p>Figure 9: Cookware too large</p>

The inner ring on each cooking zone indicates the smallest pan size for the zone (Figure 8). If cookware is too small, the display will flash and the pan will not heat. Select a larger pan or use a different cooking zone.

The outer ring on the cooktop graphic indicates the largest pan size for that zone (Figure 9). Do not use pans with bottoms that extend beyond the outer circle of a cooking zone, as doing so may cause food to heat unevenly.

Correcting Pan Sensing Errors

It is recommended that you lower the requested power level setting before correcting a pan sensing error, then reset the zone to the desired power level.

If conditions preventing operation are not corrected, the cooking zone will automatically turn off after two minutes.

Induction Controls

When turned on, an induction cooking zone will not get hot. The induction cooking zone creates heat in the cookware, not in the cooktop. Heat is not created unless there is an iron or steel object on the cooking zone.



Cooking Zone Setting Display


The setting display will show the setting for the cook zone.



Figure 10: Setting display (left)

If there is no cookware in the cook zone, the setting indicator will flash, and the magnet will not turn on. The indicator will also flash if the cookware in the zone is the wrong size, off-center, or non-magnetic

Hot Surface Indicator

<p>If the cooking zone becomes hot during cooking, the setting indicator will show a Hot Surface warning (H) when the zone is turned off. This warning will show until the cooking zone cools.</p>	
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CAUTION!

- Although induction cooking zones do not directly generate heat, they can become hot from contact with hot cookware. Burns may occur if a cooking zone or the surrounding area is touched before it has cooled to a safe temperature.
- Do not place flammable items such as plastic salt and pepper shakers, spoon holders, or plastic wrapping on top of the range when it is in use. Heat radiating from cookware could cause these items to melt or ignite. Potholders, towels, or wooden spoons could catch fire if placed too close to hot cookware.
- Do not use aluminum foil to line any part of the cooktop. Improper installation of these liners may result in risk of electric shock or fire. If these items melt on the cooktop, they will damage the cooktop.

IMPORTANT:

- Do not leave empty cookware on an operating cooking zone. Cookware will heat very quickly and may be damaged or warped if left on the cooking zone empty.
- NEVER place or straddle a cooking utensil over two different surface cooking areas at the same time. Incorrect use may damage the cooktop

SETTING SURFACE CONTROLS

Cooktop Controls



1. Lock: Lock the cooktop controls to prevent accidental activation of cooking zones.
2. Power: Press to turn on or turn off the cooktop.
3. Cooking Zone Power Boil Indicator: Lights when the Power Boil feature is in use on the cooking zone.
4. Cooking Zone Setting Indicator: Shows the setting of the Cooking Zone when it is running. Flashes when the Cooking Zone does not detect proper cookware. Shows a Hot Cooktop message (H) when the Cooking Zone is off but still hot.
5. Cooking Zone On/Off: Activates the cooking zone when the cooktop is on.
6. Cooking Zone Minimum (1): Sets the cooking zone to the minimum power level.
7. Cooking Zone Set: Press or slide your finger on the wedge to select the desired cooking zone setting.
8. Cooking Zone Maximum (P): Sets the cooking zone to Power Boil.
9. Timer Indicator: Shows the time currently left on the timer.
10. Reduce Time (-): Reduce the amount of time on the timer.
11. Timer On/Off: Turn the countdown timer on or off.
12. Increase Time (+): Increase the amount of time on the timer.

Induction surface cooking zones



To operate an induction cooking zone:

1. Place correctly sized cookware on the cooking zone.
2. Activate the cooking zone.
 - If the cooktop is not on, press the Main Power key.
 - Press the On/Off key for the desired cooking zone. If you just turned the cooktop on, this step can be skipped.
3. Set the cooking zone to the desired level.
 - Place your finger on the control and slide until the desired setting is indicated.
 - Press P to set the zone to Power Boil.
 - Press 1 to set the zone to its lowest setting.
4. When cooking is complete, turn the induction cooking zone OFF by pressing its On/Off key or the Main Power key before removing the cookware. If all of the zones are off, the cooktop will automatically power off in 20 seconds.

Suggested induction cooking zone settings

Start most cooking operations on a higher setting and then turn to a lower setting to finish cooking.

The suggested settings found in Table below are based on cooking with medium-weight stainless steel pans with lids. Settings may vary when using other types of pans.

Frigidaire Induction Recommendations

	Temp Range	Power Level	Description
Keep Warm 145°-160°F	Low	1	Keep foods warm
	Medium Low	2-4	Continue cooking, poach, stew
Simmer 185 - 200°F	Medium	5-6	Maintain a slow boil, thicken sauces and gravies, steaming, cooking
	Medium High	7-8	Continue a rapid boil, fry, or deep fry
	High	9	Start most foods, maintain water at a boil, pan frying, searing
	Power Boil	P	Start heating pans that contain large amounts of food or to bring pots of water to boil

NOTE:

- The Power Boil (P) setting is available after activating a cooking zone by pressing the P key. The cooktop will remain in Power Boil for up to 10 minutes. After 10 minutes, the cooking zone will automatically change to the High (9) setting.
- The size and type of the utensil used and the amount and type of food being cooked will influence the setting needed for best cooking results.
- The Hot Surface indicator (H) will show in the setting indicator when heat is detected in a cook zone that has been turned off. The indicator will remain on until the heated surface area has cooled sufficiently.

Moving Cookware on a Smooth Cooktop

Always lift cookware before moving on the ceramic glass cooktop. Cookware that has a rough or dirty bottom can mark and scratch the ceramic glass surface. Always start with clean cookware.

Setting the Timer

To set the timer:

1. Press the Timer On/Off key to activate the timer. The timer will show "00" flashing.
2. Press + and - to set the desired number of minutes. The flashing will stop. You can press and hold the + or - key to change the number of minutes faster.

The timer will start counting down, and a tone will sound when the specified time has elapsed.

Press the +, the -, or the Timer On/Off key to stop the signal.

At any time, you can adjust the remaining time with the + and - keys.

At any time, you can deactivate the timer by pressing the Timer On/Off key.

Important: When the timer stops or the tone sounds, the cooking zones will continue to operate. The timer does not affect the cooking zone settings in any way.

Lock or Unlock the Cooktop

To lock the controls while cooking:

1. Set the cooking zones to the desired settings.
2. Press the Lock key.

To unlock the controls, press the Lock key again. Even while the controls are locked, you can turn a cooking zone off using its On/Off key.

To set the lock for child safety:

1. Press the Power key to turn the cooktop on.
2. Press the Lock key and hold it for 4 seconds. The lock will activate, and L will display in all of the cook zone setting indicators.
3. Press the Power key to turn the cooktop off.

When the cooktop is locked for child safety, two options are available to unlock it.

Complete unlock:

1. Press the Power key to turn the cooktop on.
2. Press the Lock key and hold it for 4 seconds. The lock will deactivate.
3. Press the Power key to turn the cooktop off.

Temporary unlock:

1. Press the Power key to turn the cooktop on.
2. Hold the lock key for 4 seconds.
3. Set the cooking zones.
4. When the cooking process is finished and the cooktop is turned off, the Lock function will be still active.

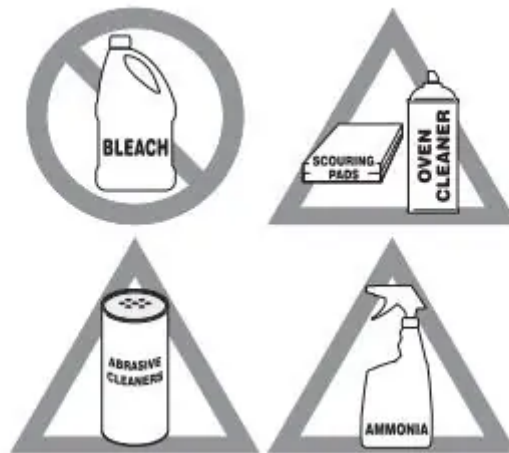
CARE AND CLEANING

Cooktop Maintenance

- Before using your cooktop for the first time:
Apply a ceramic cooktop cleaning cream (available in most hardware, grocery, and department stores) to the ceramic surface.
Clean and buff with a clean paper towel.
- Metal marks should be removed immediately after the cooktop has cooled using cooktop cleaning cream. Metal marks can become permanent if not removed prior to future use.
- Cookware with rough bottoms can mark or scratch the cooktop surface.

CAUTION!

- Before cleaning any part of the appliance, be sure all controls are turned off and the appliance is cool.
- If ammonia or appliance cleaners are used, they must be removed and the appliance must be thoroughly rinsed before operating. Follow manufacturer's instructions and provide adequate ventilation.



Cooktop Cleaning

For light to moderate soil:

1. Apply a few drops of cooktop cleaning cream directly to the cooktop.
2. Use a clean paper towel to clean the entire cooktop surface.
3. Make sure the cooktop is cleaned thoroughly, leaving no residue. Do not use the towel you use to clean the cooktop for any other purpose.

For heavy soil:

1. Apply a few drops of cooktop cleaning cream directly to the soiled area.

2. Rub the soiled area using a non-abrasive cleaning tool, applying pressure as needed. Do not use the pad you use to clean the cooktop for any other purpose.
3. If soils remain, carefully scrape soils with a metal razor blade scraper, holding scraper at a 30 degree angle to the surface.
4. Remove loosened soils with cooktop cleaning cream and buff the surface clean.

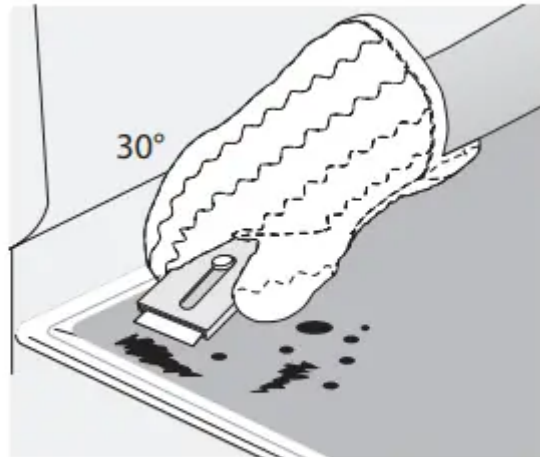


Figure 3: Cooktop cleaning

Solutions to Common Problems:

Entire appliance does not operate.

- Power is not connected. Check your fuse box or breaker box to make sure the circuit is active.
- Wiring is not complete. Contact installer or dealer.
- Electrical power outage. Check house lights to be sure. Call your local electric company for service outage information.

Cookware in the cooking zone is too hot or not hot enough.

- Incorrect surface control setting. Adjust power level setting.

Cooking zone does not heat cookware.

- Be sure the correct surface control is turned on for the element needed.
- Incorrect cookware used.
- Cookware is the wrong size or incorrectly positioned in the cooking zone.

Cooking zone does not heat evenly.

- Cookware is warped. Use only flat, evenly balanced cookware. Flat pans heat better than warped pans.

- Cookware materials and weight of the material affect heating. Heavy and mediumweight pans heat evenly. Because lightweight pans heat unevenly, foods may burn easily.

Cooking zone control does not work

- More than one control was pressed at once. Make sure that when trying to set the control, nothing is touching another control.
- Water or soil on the control panel. Clean the control panel.

Areas of discoloration with metallic sheen on cooktop surface.

- Mineral deposits from water and food. Remove them using cooktop cleaning creme applied to the ceramic surface. Buff with a non-abrasive cloth or sponge.

Scratches or abrasions on cooktop surface.

- Coarse particles such as salt or hardened soils between cooktop and cookware can cause scratches. Be sure the cooktop surface and bottoms of cookware are clean before use. Small scratches do not affect cooking and will become less visible with time.
- Cleaning materials not recommended for ceramic-glass cooktop have been used. Apply cooktop cleaning creme to the ceramic surface. Buff with a non-abrasive cloth or sponge.
- Cookware with a rough bottom was used. Use smooth, flat-bottomed cookware.

Metal marks on the cooktop.

- Sliding or scraping of metal utensils on cooktop surface. Do not slide metal utensils on the cooktop surface. Apply cooktop cleaning creme to the ceramic surface. Buff with a non-abrasive cloth or sponge.

Brown streaks or specks on cooktop surface.

- Boil overs stuck on the surface. When cooktop is cool, use a razor blade scraper to remove soil.

BEFORE YOU CALL

The number in the setting indicator is flashing.

- Incorrect cookware used. See “Using Proper Cookware” on page 9.
- Cookware is the wrong size or incorrectly positioned in the cooking zone.

The letter E appears in a setting indicator

- An error has occurred. This may happen because cookware has boiled dry. Remove cookware and turn off the cooktop. After 30 seconds, turn on the cooktop. If the cookware was the problem, E will no longer display.
- An error may occur because of water, oil, or food on the controls. Clean the control panel.

- Disconnect the power to the cooktop for a minute, then reconnect it. If the error still occurs, call an authorized dealer or service technician.

The letter L appears in the setting indicators.

- The cooktop is locked.

The cooktop deactivates A signal sounds when the cooktop is not operating

- There is an object on the controls. Remove the object.

The Hot Cooktop warning did not come on

- The cooktop did not get hot enough to activate the warning.
- If the cooktop was running long enough for the surface to get hot, call an authorized dealer or service technician.

The control area becomes hot

- The cookware is too large or too close to the controls. Put large cookware on a rear zone if possible.

A dash (-) shows in the setting indicator

- Turn the cooktop off, then turn it back on.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.