

Side-by-Side Refrigerator Use and Care

GRH2203

2402S

GRT 2001

CONSUMER INFORMATION LINE



TOLL FREE

1-800-843-0304

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Electrical Requirements and Safety Precautions



RECOGNIZE THIS SYMBOL AS A SAFETY PRECAUTION



WARNING

Electrical Grounding Instructions

This appliance is equipped with a three-prong (grounding) plug for your protection against possible shock hazards. In locations with two-prong wall receptacles, customers have the personal responsibility and obligation to contact a qualified electrician to replace two-prong wall receptacles with properly grounded three-prong wall receptacles, in accordance with the National Electrical Code.

Unit is designed to operate on a separate 103-126 volt, 15 amp, 60 cycle line.

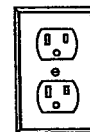
DO NOT, UNDER ANY CIRCUMSTANCES, CUT OR REMOVE ROUND GROUNDING PRONG FROM PLUG. THE UNIT MUST BE GROUNDED AT ALL TIMES. DO NOT REMOVE WARNING TAG FROM POWER CORD.



WARNING

**DO NOT USE A TWO-PRONG ADAPTER.
DO NOT USE AN EXTENSION CORD.**

ELECTRICAL PLUG



ELECTRICAL RECEPTACLE

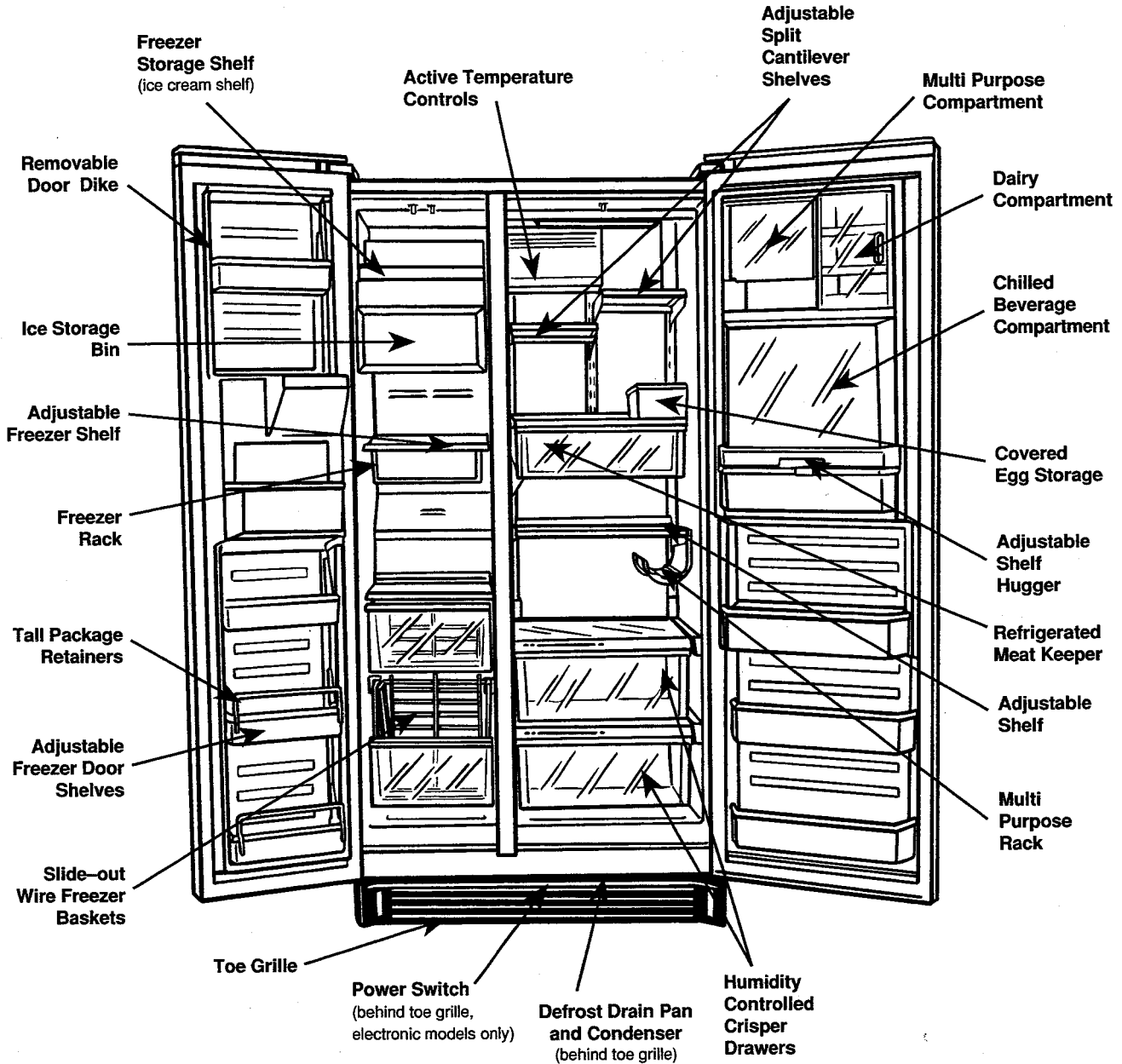
ROUND GROUNDING PRONG

Refrigerator Features

20 cu. ft. Electronic Model, with Ice and Water Dispenser

IMPORTANT

Features vary from model to model. Your refrigerator may not have all features shown.



Setting the Controls (continued)

To adjust temperatures more precisely, use a household thermometer (usually available at hardware stores) with a temperature range between -5°F and $+50^{\circ}\text{F}$ (-20.5°C and $+10^{\circ}\text{C}$).

- a. In freezer compartment, place thermometer snugly between packages of frozen food for 5 to 8 hours. See Figure 4. If temperature is not between 0°F and $+2^{\circ}\text{F}$ (-18°C and -17°C), adjust control one number at a time and check again after 5 to 8 hours.

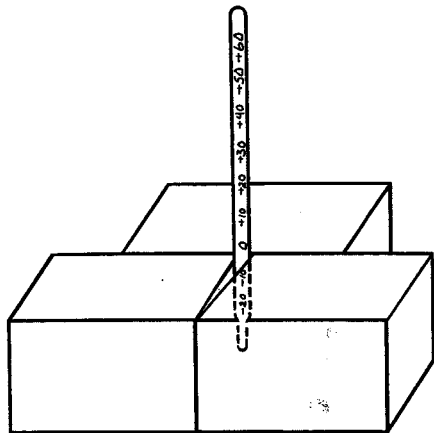


Figure 4

- b. In refrigerator, place a glass of water holding thermometer in center of compartment for 5 to 8 hours. See Figure 5. If temperature is not between 38°F and 40°F (3°C to 4°C), adjust control one number at a time and check again after 5 to 8 hours.

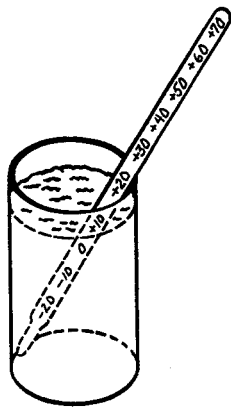


Figure 5

Chill Control

Keep beverages up to 5 degrees F (3°C) cooler than the refrigerator compartment by adjusting the amount of freezer air circulated to the chilled beverage compartment. Additional cold air may affect refrigerator compartment temperature.

- a. Locate control dial on left front wall of interior refrigerator compartment. See Figure 6.

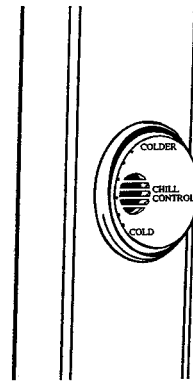


Figure 6

- b. Turn dial clockwise for colder temperatures; turn dial counter-clockwise for warmer temperatures.
- c. Locate air inlet, allowing freezer air to pass to beverage chiller, on interior wall of refrigerator door. See Figure 7.

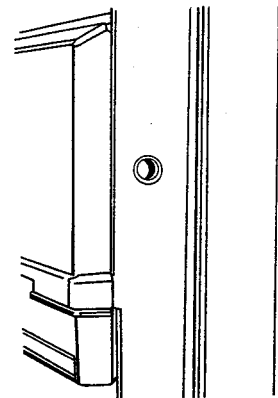


Figure 7

- d. Adjust Active Temperature Control after establishing chilled beverage compartment temperature, if necessary, to bring refrigerator compartment temperature within normal operating range of 38°F to 40°F (3°C to 4°C).

Setting the Controls (continued)

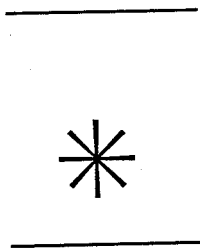


Figure 10

Optional ENTRY TONE

Whenever a pad is pressed, an optional pre-set 'beep' signal indicates a command has been "read" and accepted.

- To *cancel* Optional Entry Tone, press and hold START (*) pad approximately three (3) to five (5) seconds. Three (3) short beeps indicate instructions are accepted.
- To *reactivate* Entry Tone, repeat process above.

Setting Temperature Functions

The Modern Maid Electronic Control allows precise setting of refrigerator and freezer compartment temperatures, independent of each other, without opening doors. **Optimum refrigerator food storage temperature range is 38°F to 40°F (3°C to 4°C).** Nine temperature levels — 1 (warmest) to 9 (coldest) — are available for each compartment. Temperature levels are pre-set at number 5. Indicator lights are ON when temperature levels are adjusted, to identify compartment of change setting (freezer or refrigerator) and to show current setting. **Allow 24 hours after installation for refrigerator and freezer temperatures to stabilize.**

- To set or change refrigerator temperature, press START (*) pad; press REFRIG TEMP; press WARMER or COLDER to raise or lower temperature setting *one* level at a time. Press and hold WARMER or COLDER pads to raise or lower temperature *more than one* level at a time. See Figure 11.

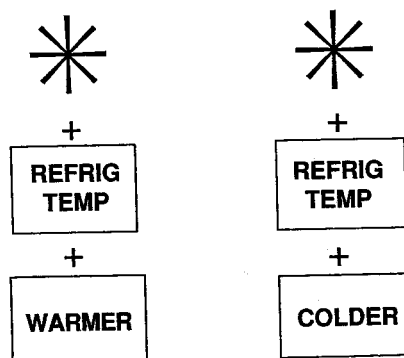


Figure 11

- To set or change freezer temperature, press START (*) pad; press FREEZER TEMP; press WARMER or COLDER to raise or lower temperature setting *one* level at a time. Press and hold WARMER or COLDER pads to raise or lower temperature *more than one* level at a time. See Figure 12.

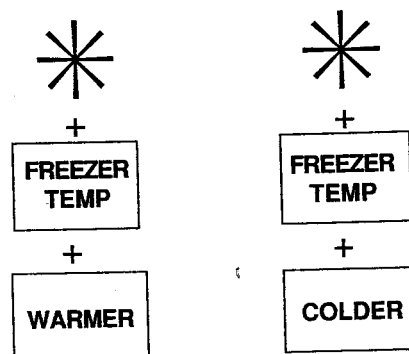


Figure 12

Setting the Controls (continued)

MAX COOL Mode

Reduces refrigerator temperature to coldest setting for 10 hours, for use when adding a large amount of warm food to compartment or if colder chilled drinks are preferred. After 10 hours, refrigerator temperature returns to previous setting.

- a. To set MAX COOL mode, press START (*) pad; press MAX COOL pad. Indicator light will glow. See Figure 17.

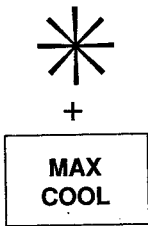


Figure 17

- b. To cancel MAX COOL mode before 10-hour automatic re-set, press and hold START (*) pad; press MAX COOL pad again. See Figure 18.

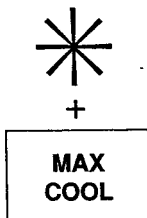


Figure 18

FAST FREEZE Mode

Reduces freezer temperature to coldest setting for 24 hours, for quickly freezing large amounts of food. After 24 hours, freezer temperature automatically returns to previous setting.

- a. To set FAST FREEZE mode, press START (*) pad; press FAST FRZ pad. Indicator light will glow. See Figure 19.

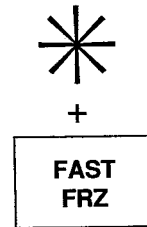


Figure 19

- b. To cancel FAST FREEZE mode before 24-hour automatic re-set, press START (*) pad; press FAST FRZ pad again. See Figure 20.

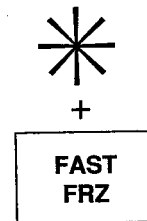


Figure 20

Setting the Controls (continued)

- b. Audio alarm discontinues when proper temperature in freezer and/or refrigerator compartments is regained.
- c. Press ALARM OFF to clear High Temperature indicator light.

THERMISTOR

Alarm

If the refrigerator or freezer thermistor fails, five (5) beeps will sound and the four temperature indicator pads in center of display light in a scrolling sequence.

IMPORTANT

Contact an authorized Modern Maid Servicer **immediately** if **THERMISTOR** alarm sounds and scrolling display is seen.

- a. To deactivate display, press ALARM OFF. See Figure 25.



Figure 25

IMPORTANT

After ALARM OFF pad is pressed, thermistor control retests to ensure condition has been corrected. **Alarm** sounds again if thermistor is not operating properly.

CLEAN CONDENSER COIL

Alarm

Every three (3) months, indicator light glows as a reminder to clean condenser coil for more efficient operation. For information on cleaning the condenser coil, refer to page 26.

- a. Light automatically cancels in 72 hours.
- b. NO audio alarm sounds.
- c. To cancel Clean Condenser Coil Indicator light before 72-hour automatic period, press ALARM OFF pad. See Figure 26.



Figure 26

Installing and Using Specific Features (continued)

Butter Dish

Microwave-safe and top-rack dishwasher-safe butter dish provides convenient tablespoon portions and may be taken to the table. See Figure 32.

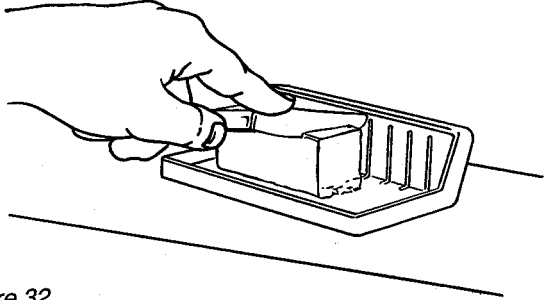


Figure 32

Multi Purpose Compartment

Store items such as health and beauty aids, film, and medications requiring refrigeration in an enclosed compartment. See Figure 33.

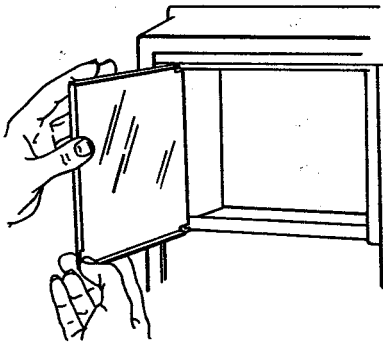


Figure 33

Chilled Beverage Compartment

A temperature-controlled section, with sliding door, keeps beverages up to 5 degrees F cooler than the refrigerator compartment. See Figure 34.



Figure 34

- a. Open chilled beverage compartment by sliding door upward. Door remains in position until moved again. Door locks in place at highest position. See Figure 35.

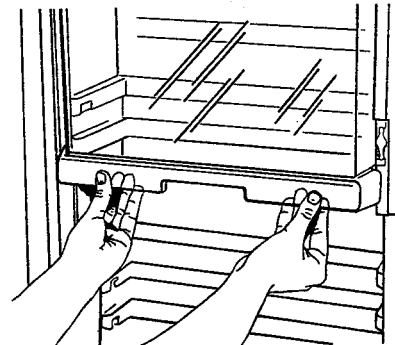


Figure 35

Installing and Using Specific Features (continued)

Hugger

A hugger is a door shelf divider used for keeping contents in place.

Hook hugger over front edge of door shelf and slide side to side as needed. See Figure 40.

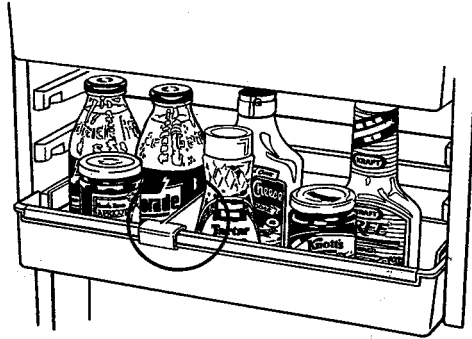


Figure 40

Adjustable Door Buckets

Storage buckets on refrigerator door can be moved up or down as needed.

- Remove all food from buckets.
- With thumbs and forefingers of both hands, push and hold lock tabs toward center of bucket. See Figure 41.

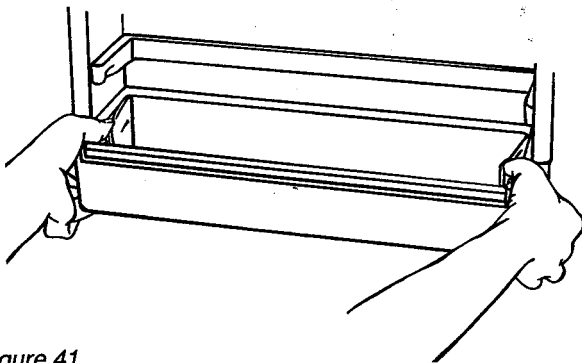


Figure 41

- Remove bucket by holding lock tabs in and pulling bucket straight out. See Figure 42.

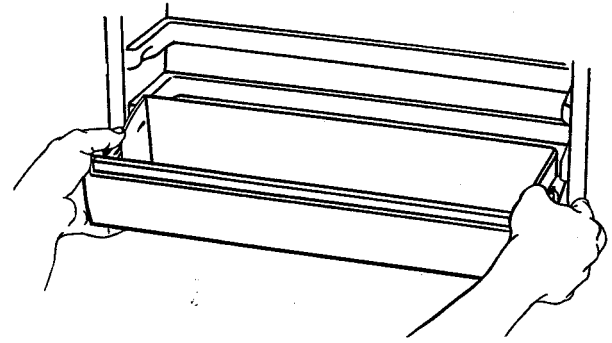


Figure 42

- To reinstall, use one hand at each side of bucket. Slide bucket into grooves on door. Push gently with thumbs until tabs snap and lock into place. See Figure 43.

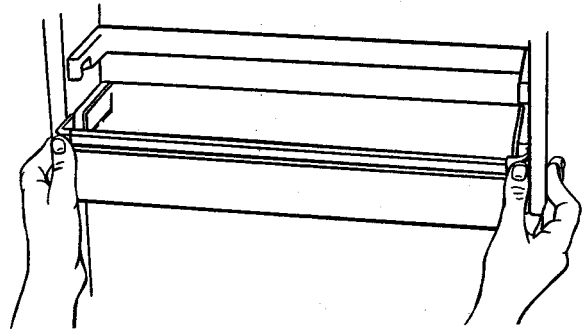


Figure 43

Door Shelves

Shelves on refrigerator door can be removed for cleaning.

- Remove all food from shelves and gently tap upward under both ends. Lift and rotate bottom of shelf outward to release hooks from door slots. See Figure 44.

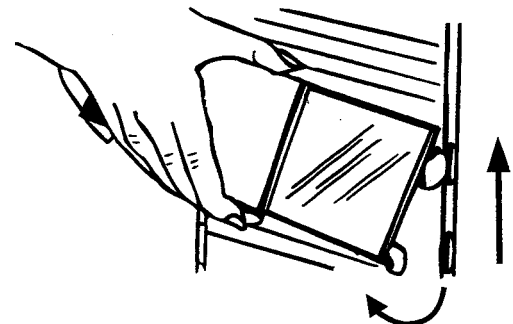


Figure 44

Installing and Using Specific Features (continued)

Multi Purpose Rack

For movable, space-saving, under-shelf storage, hang rack on the edge of any shelf. Remove rack from shipping location in crisper drawer.

- Tab on flat edge of rack hook over metal frame at the side of any shelf. See Figure 48.
- Before placing bottle in rack, check that cap is tight.

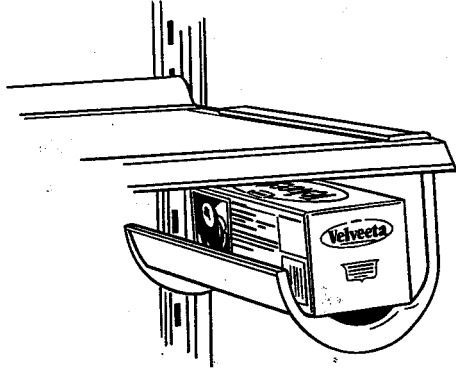


Figure 48

Egg Storage

Store eggs in a take-to-the-counter bucket with removable tray. See Figure 49.

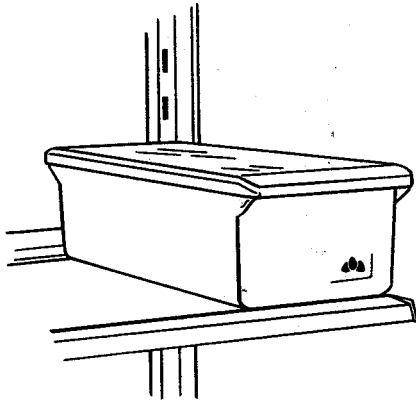


Figure 49

Refrigerated Meat Keeper

For fresh, moist fish, poultry or meat, freezer air is circulated in a sleeve around the refrigerated meat keeper drawer. A front panel control adjusts temperature. For flexible storage, Refrigerated Meat Keeper may be repositioned within refrigerator compartment.

- For coldest temperatures, slide control to left (ice crystals may form); for warmest temperatures, slide control to right. See Figure 50.



Figure 50

- Refrigerator compartment temperature may be affected by setting of meat keeper temperature control. Adjust control as needed. See pages 5 (non-electronic) and 8 (electronic).
- To reposition meat keeper, pull drawer three-quarters out of sleeve. See Figure 51.

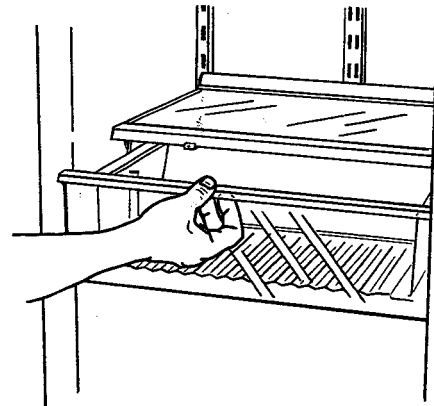


Figure 51

- Lift drawer up slightly to release from notches in grooves and pull drawer free. See Figure 52.

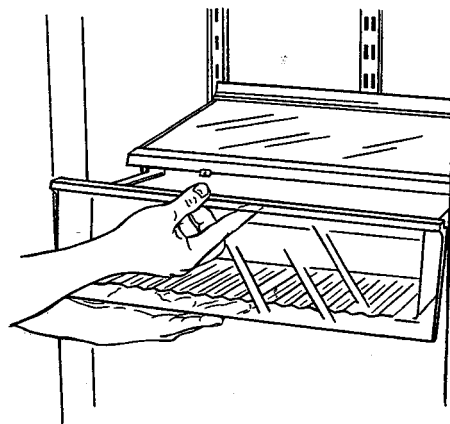


Figure 52

Installing and Using Specific Features (continued)

Freezer Features

Features vary from model to model. Your refrigerator may not have all features shown.

Starting with the freezer door, features are outlined from top to bottom of unit, and move from the door into the freezer compartment.

Removable Door Dike

For kitchens with limited space, which restrict door opening to 90°, dikes snap out for removal of freezer basket and ice storage bin.

- Grasp door dike with both hands and firmly snap out.
- Replace door dike by aligning push clips on dike with holes on freezer door. Push gently until dike snaps into place. See Figure 57.

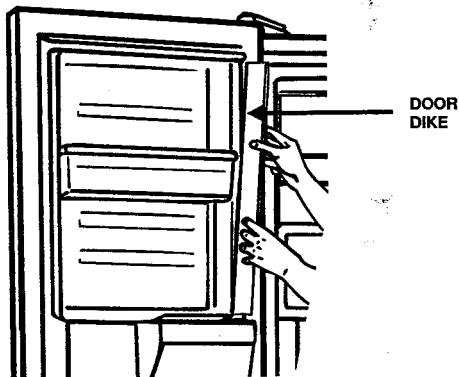


Figure 57

Door Shelves

Freezer door shelves can be removed for cleaning.

- To remove, gently tap upward under both ends. Lift shelf straight up and pull out.
- To reinstall, insert hooks into slots.
- Hold shelf against door and tap down gently on both ends until shelf is seated securely. See Figure 58.

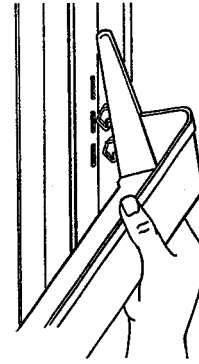


Figure 58

Tall Package Retainer

Retainers in door keep tall packages in place. Tilt retainer inward, toward door, and lift up to remove. See Figure 59.

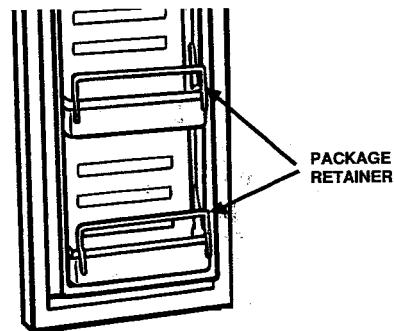


Figure 59

Adjustable Compartment Shelf

Supported by snap-lock tabs on right side wall of freezer, shelf adjusts to fit storage needs.

- Remove shelf by gently pulling on right side wall snap-lock tabs to release. Lift right side of shelf. See Figure 60.

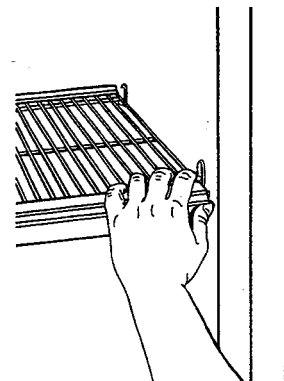


Figure 60

Installing and Using Specific Features (continued)

Ice and Water Dispenser

(some models)

The Ice and Water Dispenser, a special feature of some Modern Maid Side-by-Side Freezer Refrigerators, offers access to water and cubed or crushed ice at any time, while doors are closed.

- Refrigerator **must** be connected to household cold water service.
- Dispenser is interrupted when freezer door opens. Ice bucket may then be safely serviced.
- Spill shelf is **not** self-draining, so excess water should be poured into sink or wiped dry immediately. See Figure 66.

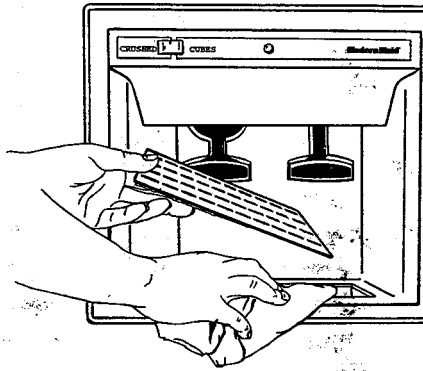


Figure 66

CAUTION

To avoid personal injury or property damage, freezer door **must** remain closed when operating dispenser.

Refrigerator **must** be unplugged and ice storage bin **must** be removed before attempting to service dispenser system.

Never put fingers, hands, or any foreign object into ice dispenser opening while attempting to manually clear stalls or jams.

Never use sharp objects to break ice.

Water Dispenser Operation

- Hold and press container against Water Dispenser bar to fill with water.

- Release pressure on bar to shut off water. See Figure 67. Slight dripping may occur. Spill shelf is **not** self-draining, so large spills should be wiped dry immediately. See Figure 66.

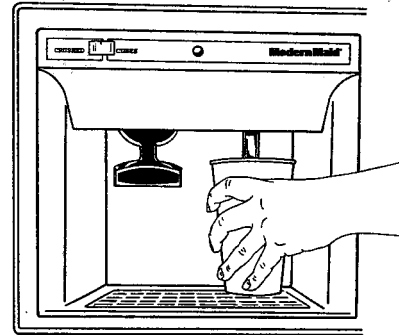


Figure 67

NOTE

First glass of water may be somewhat warmer than following glasses, since water remains in unrefrigerated line to dispenser.

Cubed and Crushed Ice Dispenser Operation

(some models)

- Select CUBE or CRUSHED mode by sliding lever on front dispenser panel to chosen setting. See Figure 68.

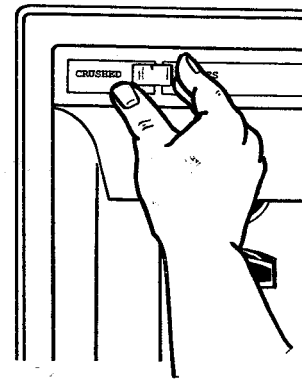


Figure 68

- Hold container close to chute and press container against Ice Dispenser bar to minimize spraying ice bits beyond container. Auger is activated and ice wheel automatically delivers cubed or crushed ice to container.
- Release pressure on bar **before** container is full, as some ice continues to fall. Do **not** remove container until last of ice falls.

Installing and Using Specific Features (continued)

How the Water Dispenser Works

The Water Dispenser reservoir is located in the refrigerator behind the high-humidity compartment or crisper drawers, depending on the model, and water is routed to the Dispenser bar in a special way to prevent freezing.

- The water reservoir is covered with styrofoam or plastic, which **must not** be removed.
- When the Dispenser bar is activated, a solenoid in the water line is energized and water is added to the reservoir. Using the force of the household water pressure, water moves into the tubing and out through the Dispenser. See Figure 70.

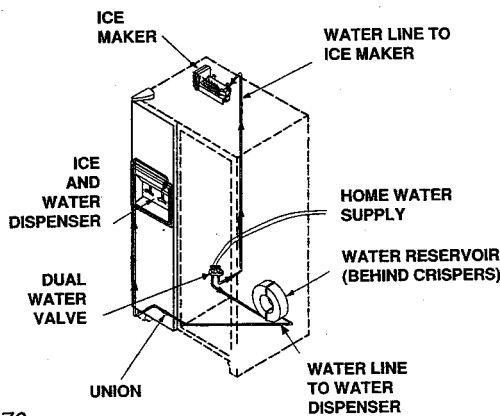


Figure 70

How the Ice Dispenser Works

For safety and for maximum freezer storage space, all mechanisms for ice making and dispensing are enclosed in a separate compartment.

- Water is automatically measured into the ice maker for freezing.
- Ice is produced when ice maker control arm is in the DOWN position. After the water freezes, a sensor activates the ejector blades to dump cubes into the U-shaped harvest bin for storage.
- When the Dispenser bar is pressed, the large auger moves ice from bin to Dispenser, providing ice cubes or crushed ice. See Figure 71.

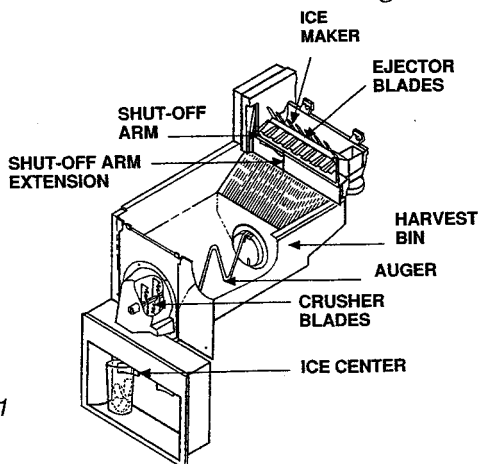


Figure 71

- In CUBE mode, auger turns ice wheel counter-clockwise to bypass crusher blades and move cubes directly to container.
- In CRUSHED mode, auger turns clockwise to force cubes into crusher blades and dispenses crushed ice directly to container.

IMPORTANT

Ice maker is designed to produce from two (2) to four (4) pounds of ice in a 24-hour period, under ideal conditions of room temperature, water inlet temperature and freezer compartment temperature. If ice production is low, consider these items before assuming problem is ice maker. Ice production is noticeably affected by freezer compartment interior temperatures above +2° F (-17° C) and room temperatures above +75° F (+24° C).

Water Taste and Odor

Many variables affect the taste and odor of water, including:

- iron and other mineral deposits normally found in water.
- type of tubing used for household water supply and to connect refrigerator to household water.
- water left standing for long periods in the storage reservoir and/or water supply line.

Take the following recommended steps to ensure a fresh supply of water at all times and minimize taste and odor problems:

- Thoroughly flush the water dispenser system after initially connecting it to the household water supply by throwing away the first 10 to 14 eight-ounce glasses of water.
- After extended periods of non-use, flush the water system and reservoir as above.
- If problems persist, contact the local water treatment company for specialized help.
- Seal strong-smelling items in adequate moisture-vapor-proof material or airtight container.

Care and Cleaning

WARNING



To avoid electrical shock, personal injury or death, unplug refrigerator power cord or open household circuit breaker to refrigerator **before** replacing light bulbs or cleaning.

All removable refrigerator and freezer features should be cleaned regularly. Refer to appropriate section of **Installing and Using Specific Features** for removal and replacement instructions.

IMPORTANT

Avoid using the following materials or tools, which can cause surfaces to scratch, crack and discolor.

- concentrated liquid detergent
- abrasive heavy-duty cleaners or powders, such as COMET or AJAX
- metal or abrasive cleaning pads
- solvents

Adhesives

- To remove adhesive residue from items such as stickers, labels, or strapping tape, cover adhesive residue with non-abrasive toothpaste.
- Gently rub toothpaste over adhesive residue with fingers to remove. Wash cabinet surfaces with warm, soapy water. Rinse with clear water and dry thoroughly.

Exterior and Interior

- Use warm, soapy water to wash exterior and interior of refrigerator and freezer, as needed.
- Rinse surfaces with clear water and dry with soft cloth.
- Do not use abrasive cleansers or brushes on exterior or interior surfaces, as damage may result.

Door Gaskets

- Use mild detergent diluted in water to clean refrigerator and freezer door gaskets at least twice a year. Do **not** use cleaners containing ammonia or chlorine bleach.
- Rinse gaskets with clear water and dry with soft cloth.
- Apply a thin film of petroleum jelly to gaskets to help keep them soft and pliable.

Condenser Coil and Drain Pan

Every three months, clean refrigerator condenser coil, located behind toe grille. Accumulated dust and lint reduce cooling performance, cause the refrigerator to waste energy, and shorten the life of the compressor and other components.

NOTE

Drain pan is removable for cleaning. Wash and dry drain pan before securely replacing in side supports, to protect from spills and rattling.

- Grasp toe grille at each end and pull forward to remove.
- Use a long-handled bottle brush and a vacuum cleaner hose nozzle to remove dust and lint from condenser coil under refrigerator. (Modern Maid dealers carry brush #R1930-4.)
- Replace toe grille by matching toe grille tabs with square holes in bottom of cabinet front.

Odor Removal

- Disconnect electrical power plug.
- Remove all food from freezer and refrigerator.
- Wash and dry all food containers.
- Wash compartment with mixture of 4 Tblsp. baking soda to one quart warm water.
- Wash all shelves, drawers, accessories, and gaskets, especially corners, crevices or grooves.
- Rinse compartment interior with clear water and dry all surfaces thoroughly with soft cloth.
- Returned cleaned containers and food to refrigerator and freezer compartments.
- Plug in refrigerator and set at normal operating temperature.
- In 24 hours, check to see if odor has been eliminated. If odor is still present, call the toll-free Consumer Information Line at Amana Refrigeration, Inc., 1-800-843-0304, for additional cleaning methods.

Care and Cleaning (continued)

- c. Wear protective gloves to remove defective bulb and replace with functioning bulb. See Figure 79.

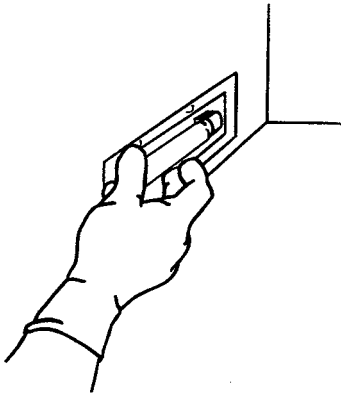


Figure 79

- d. Replace protective bulb shield, using a 1/4" drive or socket wrench.
e. Reconnect power to refrigerator and set to normal operating temperature.

Freezer Compartment

(Dispenser Models)

Replace bulb with 40-watt appliance bulb. Contact Modern Maid dealer for replacements. Light bulb is located on upper right wall, directly below ice maker dispenser bucket.

- a. Disconnect power to refrigerator and allow bulb to cool.
b. Remove ice maker dispenser bucket.
c. Remove protective bulb shield by using a 1/4" drive or socket wrench. See Figure 80.

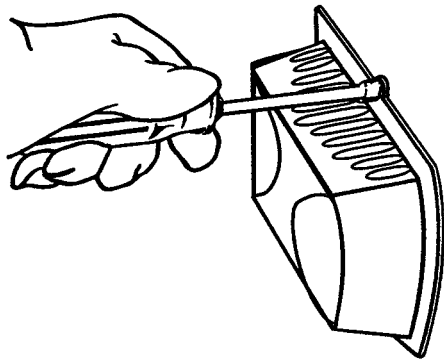


Figure 80

- d. Wear protective gloves to remove defective bulb and replace with functioning bulb. See Figure 81.

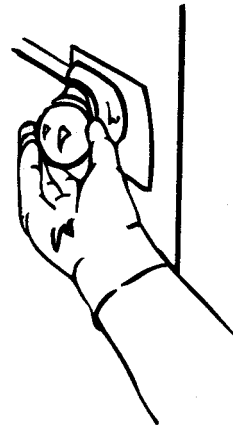


Figure 81

- e. Replace protective bulb shield, using a 1/4" driver or socket wrench.
f. Reconnect power to refrigerator and set to normal operating temperature.

Ice and Water Dispenser

Replace with 6-watt bulb. Contact Modern Maid dealer for replacements. Light bulb is located between dispenser bars.

- a. Disconnect power to refrigerator and allow bulb to cool.
b. Wear protective gloves to remove defective bulb and replace with functioning bulb. See Figure 82.

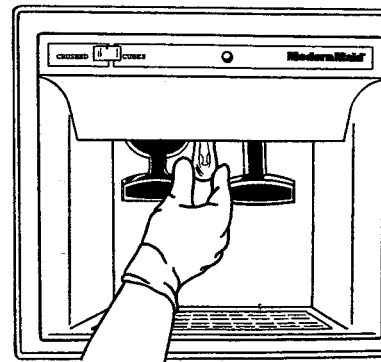


Figure 82

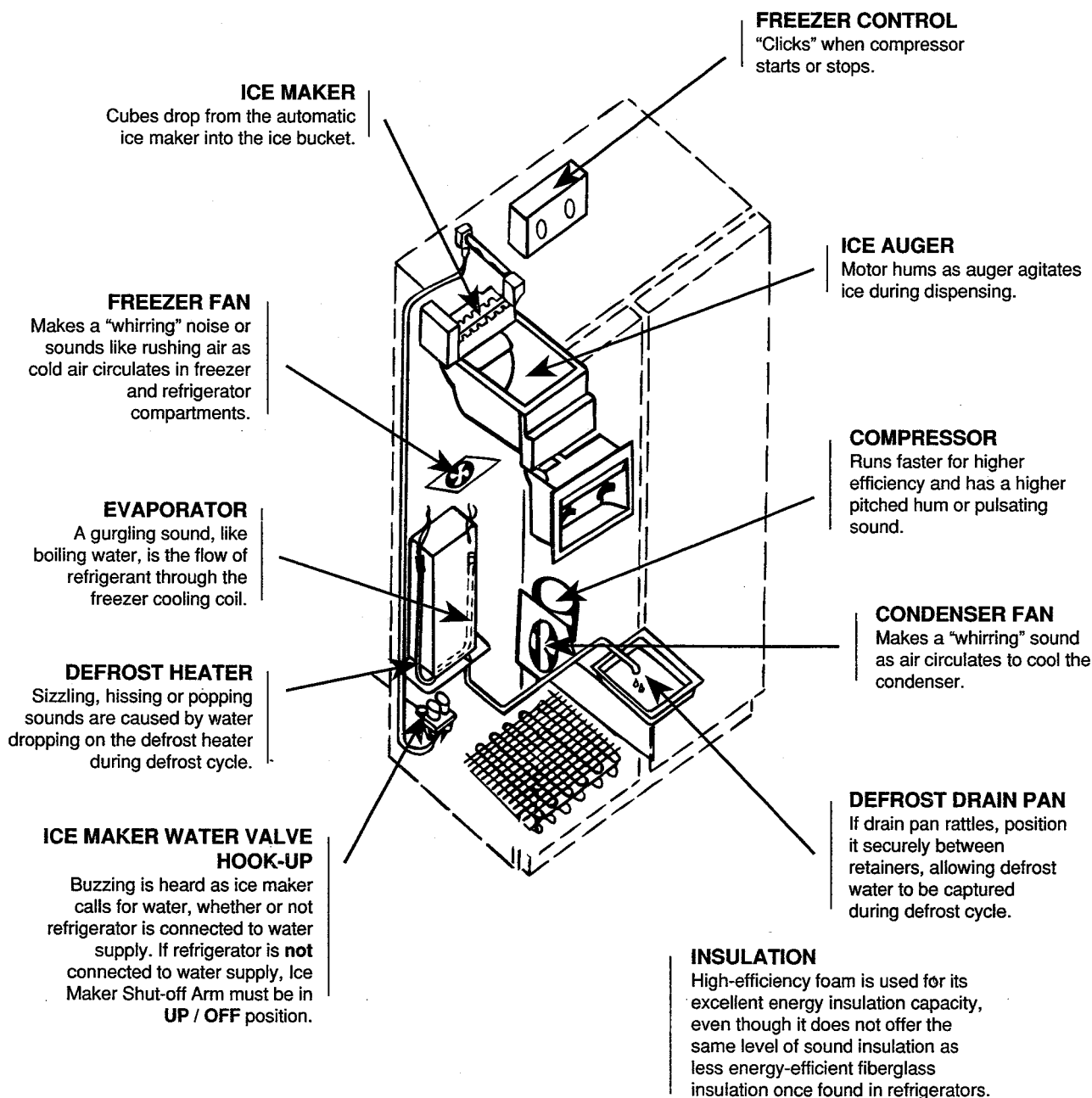
- c. Reconnect power to refrigerator and set to normal operating temperature.

Normal Operating Sounds of Today's Refrigerators

Today's refrigerators are designed for energy efficiency and economical operation. New features and designs may create sounds which are different than those of smaller or less efficient refrigerators. The sounds shown below are **normal operating sounds** and do **NOT** require

a service call. All of these sounds are normal and will soon become familiar. They indicate the unit is operating and performing as designed.

Features vary from model to model. Your refrigerator may not have all features shown.



If the Refrigerated Meat Keeper is too warm

- Is Refrigerated Meat Keeper properly positioned, so air supply hole aligns with inlet tube on left side wall of refrigerator? (See page 18.)
- Slide Refrigerated Meat Keeper control to a colder setting.
- Adjust freezer control to a colder setting.

If the refrigerator food temperature is too cold

- Check that the Refrigerated Meat Keeper drawer is closed.
- Check Refrigerated Meat Keeper inlet tube connection. Inlet tube **must** cover air supply hole on left side wall of refrigerator. If not properly connected, freezer air spills into refrigerator section.
- Is condenser coil area clean? (See page 26.)
- Are any wire shelves covered with foil or plastic, preventing proper air flow?
- Adjust refrigerator temperature control. (See page 5 for non-electronic models; see page 8 for electronic model.)
- Adjust freezer control to warmer setting. Allow several hours for temperature to change.

If the refrigerator runs too much or too frequently

- It may be normal to maintain an even temperature.
- Have doors been opened frequently or for extended periods of time?
- Is condenser area clean? (See page 26.)
- Is freezer temperature set too cold? Adjust freezer control. (See page 5 for non-electronic models; see page 8 for electronic model.)
- Check gasket seal and door alignment for proper closure.

If water droplets condense on inside of refrigerator

- This is normal during periods of high humidity or during heavy usage.

If water droplets condense on outside of refrigerator

- Check door gasket seal and door alignment for proper closure.

If there is water on the floor beneath the refrigerator

- Defrost drain pan may be missing or improperly positioned. (See pages 26 and 30.)

