

Figure 2-1. Refrigerator Door

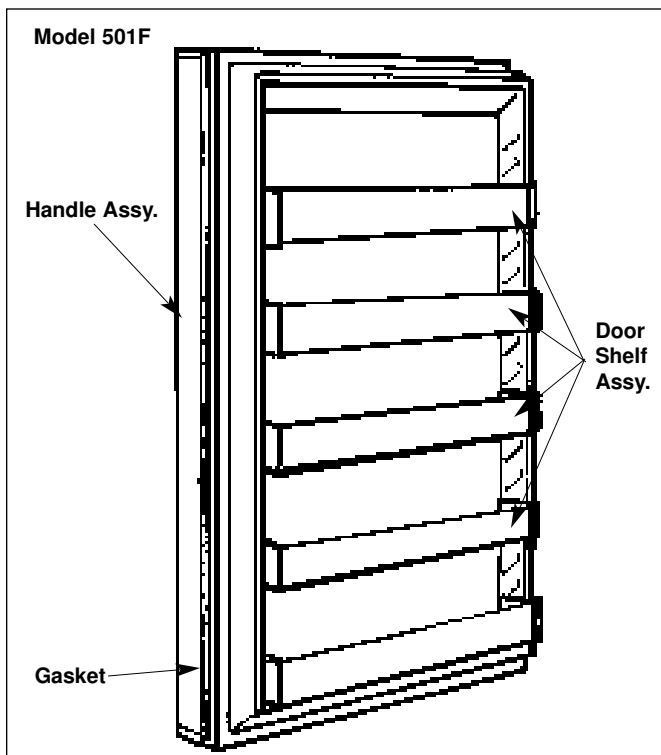


Figure 2-2. Freezer Door

## DOORS AND DRAWERS

### Refrigerator/Freezer Door Assembly

See Figures 2-1 thru 2-7. Door assemblies consist of the following parts:

- Door shell and liner with solid foam core
- Door gasket
- Door trim
- Door handle assy.

**NOTE:** Service replacement doors do not include handle assemblies.

**NOTE:** The dairy assy. and door shelf assy. are independent from the door assy.

**NOTE:** Models 501R, 501F, 511, 532, 542 & 561: Extended Door Handle Packages are available for raised panel applications. Contact your parts or product distributor.

If either the door handle end caps should happen to crack or break, order standard Handle End Cap Package, part no. 4-20-049-0 or Extended Handle End Cap Package, part no. 4-20-070-0.

**NOTE:** Model 590: If either the door handle end caps should happen to crack or break, order 590 Handle End Cap Package, part no. 4-20-092-0.

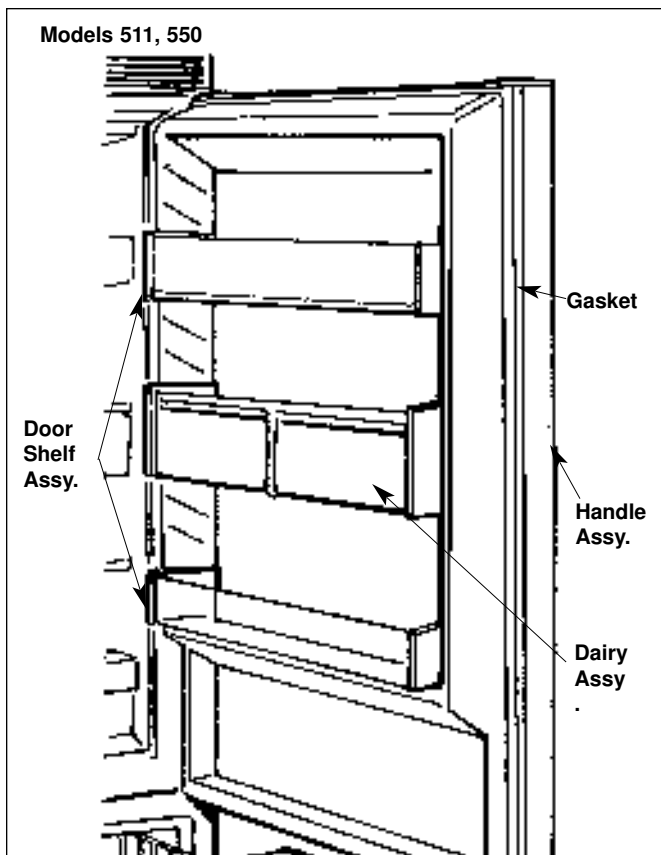


Figure 2-3. Refrigerator Door

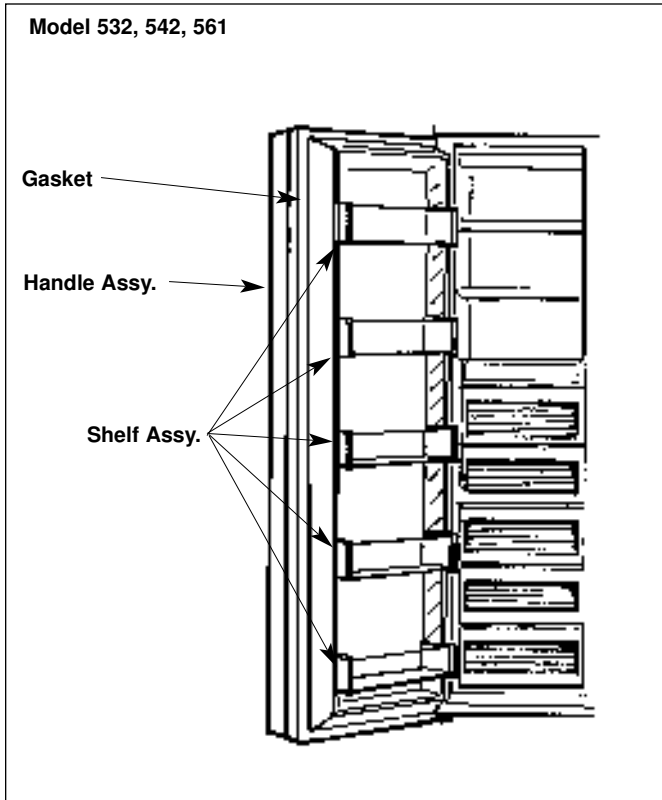


Figure 2-4. Freezer Doors

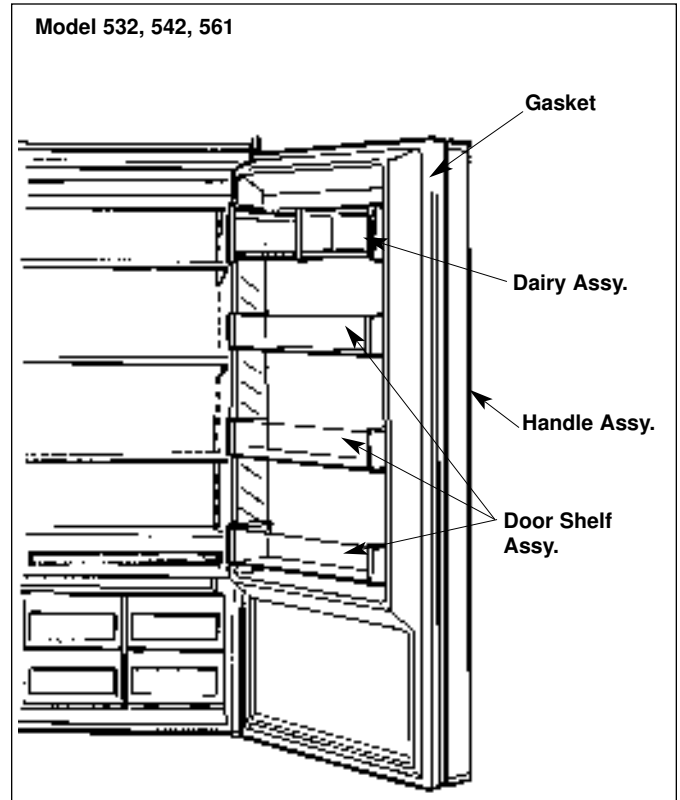


Figure 2-5. Refrigerator Doors

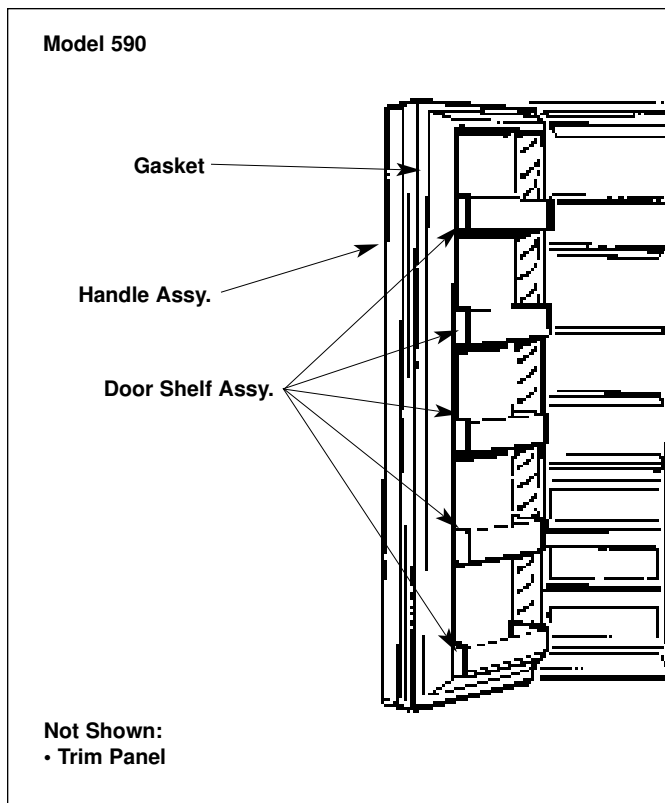


Figure 2-6. Freezer Door

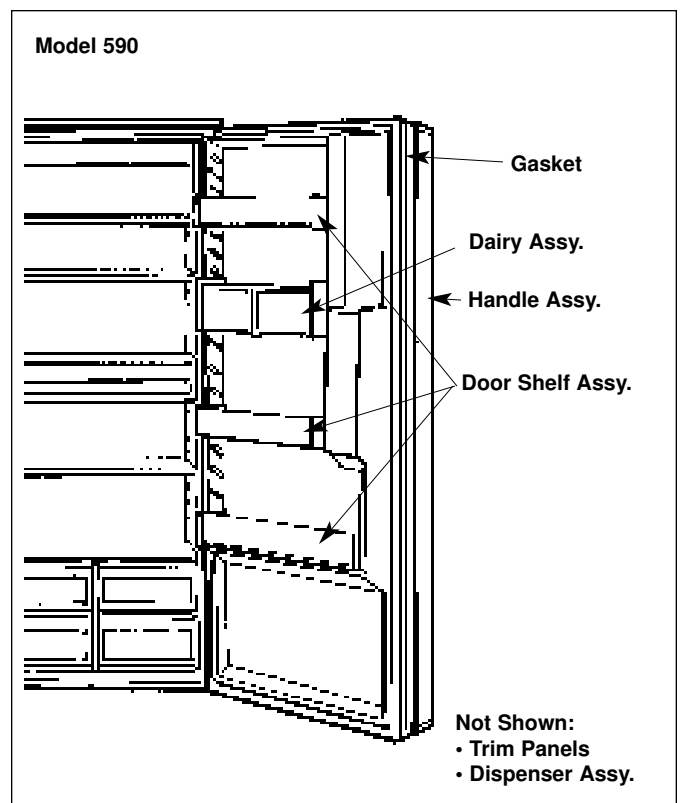


Figure 2-7. Refrigerator Door

## Freezer Drawer Assembly - Models 511, 550

### ⚠ CAUTION

**Freezer drawer is heavy. Use proper lifting techniques when removing drawer assembly.**

The freezer drawer assembly pulls out, providing access to the food and ice. The drawer consists of the following:

- Foamed drawer shell
- Door liner
- Drawer trim and handle
- Gasket
- Upper basket
- Lower basket

The drawer slides have a built-in self-closing incline feature. The complete drawer assembly can be removed by lifting up and out while holding the upper basket (Figure 2-8).

The lower basket is fixed to the frame assembly. The upper basket rolls in and out on the frame assembly and drawer slides (Figure 2-9).

**NOTE:** Attached to the back of the bottom freezer basket frame is a restraint clip (not shown). This clip holds the upper roll-out basket to the frame. This clip is **not** to be removed or discarded; it is installed to prevent child entrapment.

## FREEZER DRAWER ADJUSTMENT-MODELS 511 & 550

1. Loosen the two rear screws of each cabinet drawer slide, and remove the screw at the slide front (Figure 2-10).
2. Relocate the front screw to the desired position (Figure 2-10). After adjustment, tighten all screws and reinstall the drawer. Check door seal for proper gasket seating.
3. To adjust the drawer pitch, remove the two plastic plugs on each side of the liner (Figure 2-11). Use a socket wrench to loosen all four

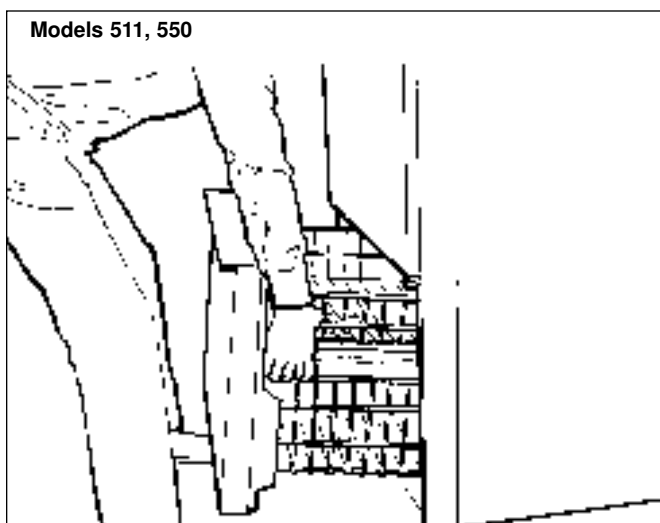


Figure 2-8 Removing Freezer Drawer

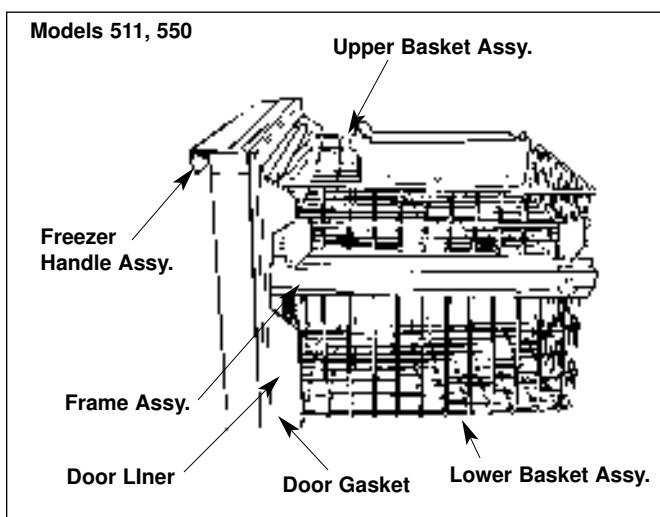


Figure 2-9. Freezer Drawer Assy.

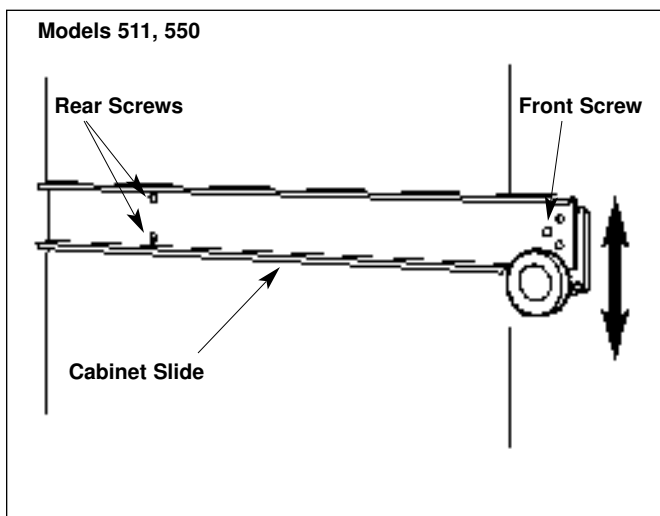


Figure 2-10. Drawer Up-And-Down Adjustment

1/2" bolts (two on each side). Make the necessary adjustment, then retighten all bolts. Reinstall plastic plugs.

**NOTE:** If there is too much side-to-side movement, the cabinet slides may be spaced out. To fine tune the drawer tracking, the following shims are available:

- Front Shim, part no. 0232300
- Rear Shim, part no. 0232310

## Door Shelf Assembly - All Models

The door shelf assy. slides into the molded tracks of the door liner. To disassemble the door shelf:

1. Place a flat-bladed screwdriver into the outside end cap and pry the end cap away from the shelf assembly (Figure 2-12).
2. This will release the end caps from the door shelf, allowing the door shelf support to slide off the open end (Figure 2-13).

## Dairy Compartment - All Models

The dairy compartment assy. slides into the molded tracks of the door liner in the same manner as the door shelves. To disassemble the dairy compartment:

1. Insert a flat blade screwdriver into the outside end cap and pry away from the dairy compartment (Figure 2-12).
2. Release the two lock tabs and remove the inside end caps.
3. The dairy doors with the magnetic catch strip pivots between the center divider and the inside end caps. To remove the center divider, release the lower tab from the back side of the compartment and drop it down to release the upper tab.
4. The door gasket pushes into the channel around the dairy compartment.

**NOTE:** The bottom strip of the gasket contains the magnet.

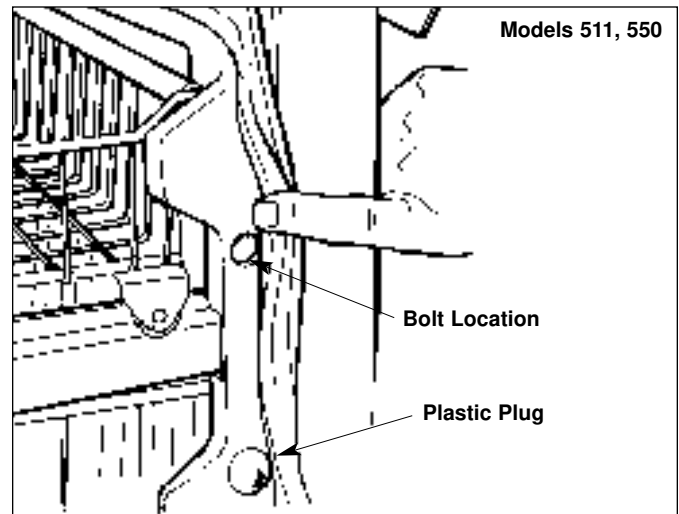


Figure 2-11 Door Pitch Adjustment

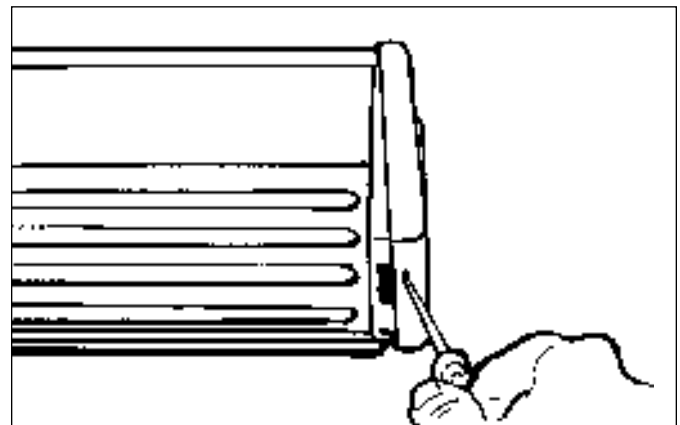


Figure 2-12. Installing/Removing Door Shelf Assy.

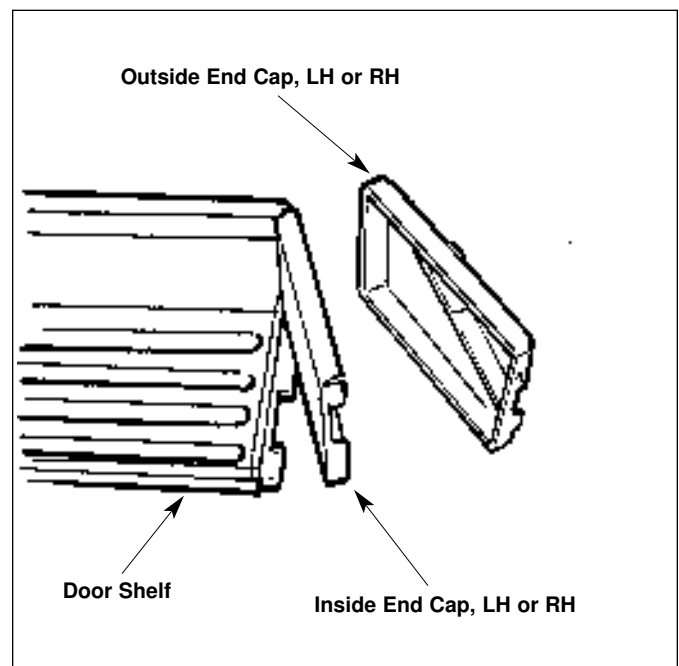


Figure 2-13. Door Shelf Disassembly

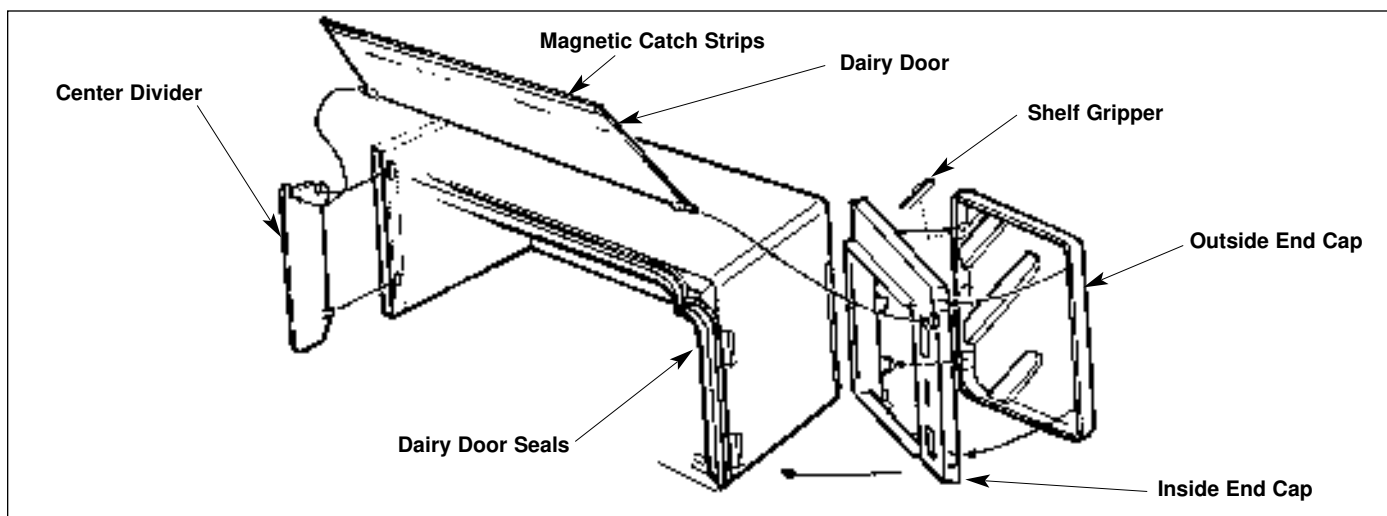


Figure 2-14. Dairy Compartment Assy.

## Door Panel Assembly - All Models Except 590

To install or remove a door panel, use the following procedure.

1. Remove the door handle trim moldings from the handle. The trim moldings are held in place with magnets. Place one end of a piece of tape in the center of the molding, and remove molding by pulling on the tape (Figures 2-15).
2. Remove the door handle screws (Figure 2-15) and remove the door handle.
3. Install the selected door panel into the exposed channel.
4. Reinstall the door handle and handle trim moldings.

**NOTE:** *Extended Grip Full Length Handles, for thicker raised panels are available from your parts or product distributor.*

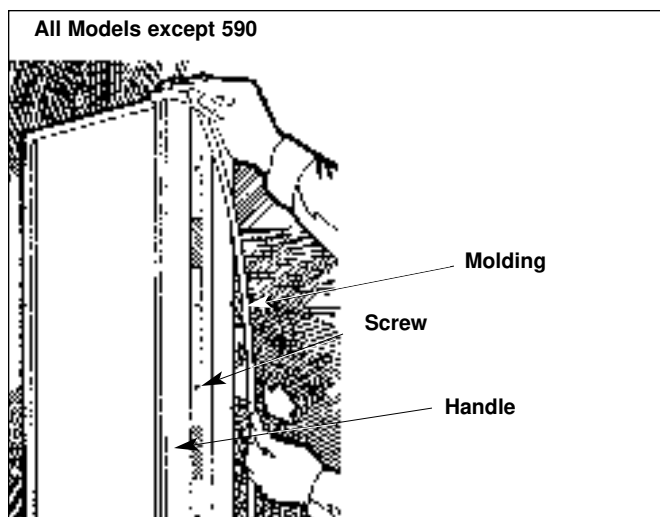


Figure 2-15. Door Moldings and Handle

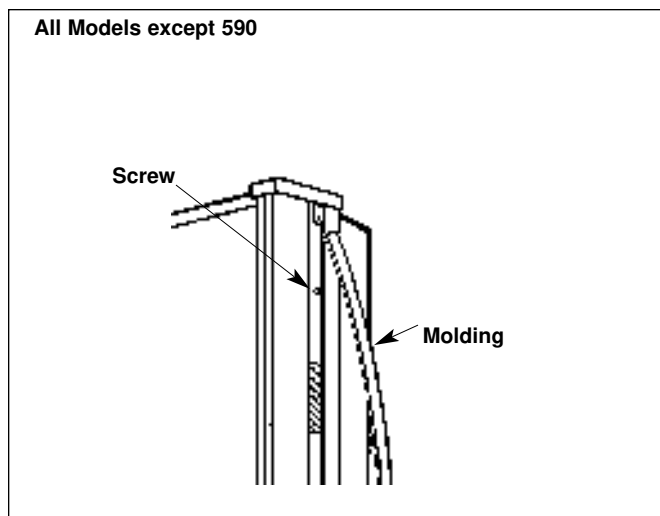


Figure 2-16. Door Moldings

## Door Panel Assembly - Model 590

To install or remove a door panel, use the following procedure.

1. Remove the door handle trim moldings (Figure 2-17). The trim moldings are held in place with magnets. Place one end of a piece of tape in the center of the molding, and remove molding by pulling on the tape.
2. Remove the door handles from the freezer and/or refrigerator doors.
3. Remove the trim panel(s) by sliding them out of the doors (Figure 2-18).
3. **Refrigerator Door Assy. Only.** Remove the water and ice glasswell by removing the glasswell screw (Figure 2-18). Slide the glasswell up and pull out.
4. Remove the top and bottom trim filler mounting screws and trim fillers (Figure 2-19). Also, remove the vertical trim strip and mounting screw.
5. Install the selected door panels by sliding into the frame on the door.
6. Reverse steps 1 - 4 to reassemble.

## Door Dispenser Assembly - Model 590

### **WARNING**

**Always disconnect electrical power at the master power switch before attempting repair.**

Use the following procedure to remove the door dispenser assy.

1. Remove the door handle, trim and panels as described on previous page.
2. Remove the glasswell screw. Slide the glasswell assy. up and out (Figure 2-18).
3. Remove the vertical trim strip and screws (Figure 2-19).

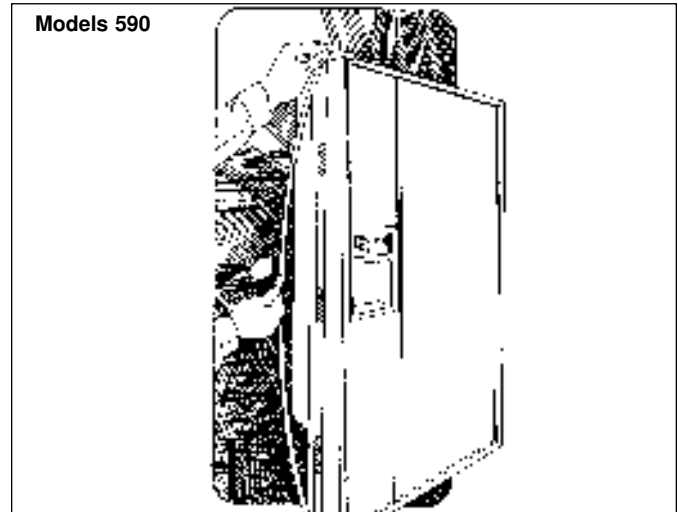


Figure 2-17. Door Trim Molding

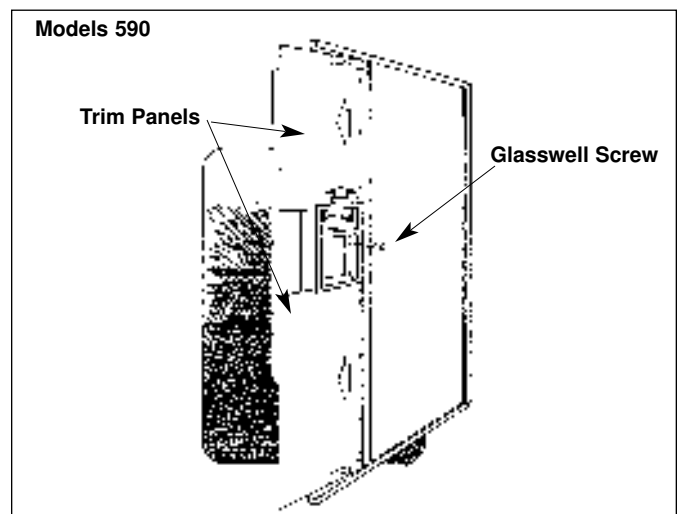


Figure 2-18. Door Trim Panels

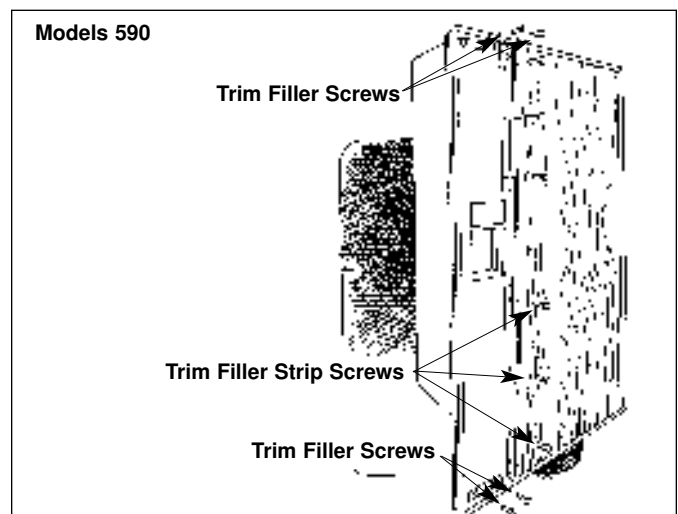


Figure 2-19. Door Trim Screws

4. Remove the six Phillips head screws securing the door dispenser assy., then remove the dispenser by pulling the bottom out and down.
5. Disconnect wiring harnesses and green ground wire from the dispenser.

**NOTE:** The door dispenser cannot be field repaired; it must be replaced.

6. To reassemble, reverse steps 1 - 5.

### Door Closer Assemblies

**GRAVITY TYPE CLOSER - Model 501R & 501F Prior To Serial No. 836000; Model 511 & 550 Regardless of Serial No.**

When the door is closed, the door closer cams (Figure 2-20) should not be totally bottomed-out. Both cams should be riding up and down on each other for the proper closure action.

**NOTE:** An Accessory Door Stop Package is available. See DSRH & DSLH in Service Parts Price Book.

### SPRING STOP/CLOSURE ASSY.

The spring door closer assy. allows the door to stop at 130° and utilizes a spring-assist door closing mechanism.

**NOTE:** An Accessory Door Stop Package is available which will stop the door at 87°, 90° or 105°. See DS90 and DS105 in Service Parts Price Book.

**NOTE:** Replacement door closer assemblies are supplied with replacement instructions.

### Door Adjustment

**NOTE:** The unit must be level before adjusting doors.

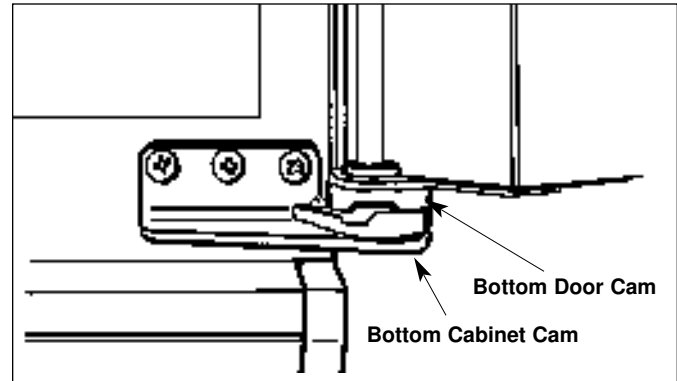


Figure 2-20. Gravity Door Closer

If unit is properly installed, blocked and leveled, it may still be necessary to adjust the door(s) from left to right and/or in and out. Adjustments are performed at the top and/or bottom door hinge(s). In each door hinge are two small Phillips head shipping screws that will need to be removed and discarded before adjustments are made. The remaining larger door hinge screws are then loosened, allowing door adjustment from left to right and/or in and out (Figure 2-21). After adjusting the door, the door hinge screws are tightened back down and the door seal checked for proper gasket sealing.

**NOTE:** If a side-by-side unit is properly installed and leveled, and the doors properly adjusted yet one door lines up higher than the other, a bottom hinge spacer (part no. 0183100) is available. The door hinge screws of the lower door hinge are loosened and the hinge spacer(s) inserted between the bottom door trim and the bottom door hinge (Figure 2-22). This will raise the door slightly. The door hinge screws are then tightened back down. Bottom hinge spacer (part no. 0183100) will **NOT** work on over-and-under units.

## Refrigerator Drawer and Freezer Basket Assemblies - All Models

The crisper drawer and roll-out basket drawer are similar in design. Replacement parts include fronts, windows, baskets and drawers (Figure 2-23).

1. Remove the screws from the bottom of the assembly front.

**NOTE:** These screws are not used on the crisper assy.

2. Release the tabs on the top corners of the fronts using a flat-blade screwdriver. Depress the tab and pull the front forward slightly so the tab will not relock, then repeat for the other side.
3. To reassemble, hold windows and slides in place (if used). Position the bottom of the front piece over the lower tabs, then secure to the top tabs. Install the screws (if used) through the bottom of the front piece.

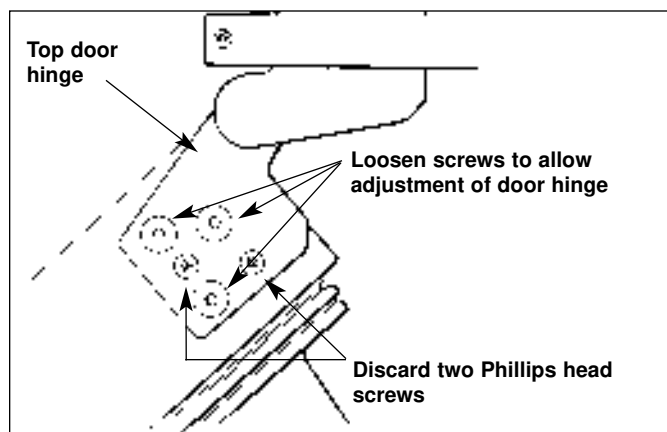


Figure 2-21. Door Adjustment

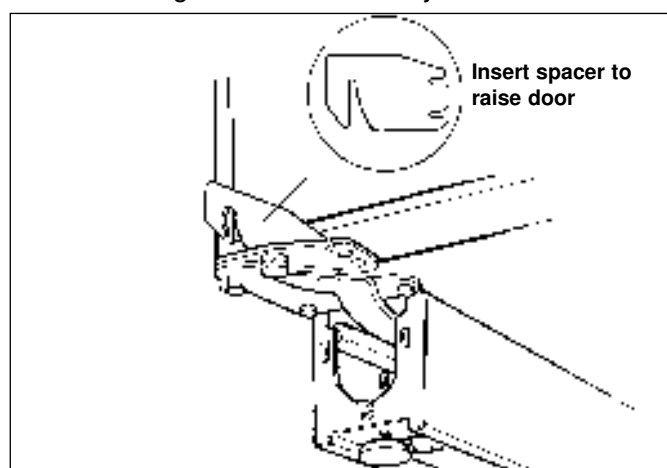


Figure 2-22. #0183100 Hinge Spacer Installation

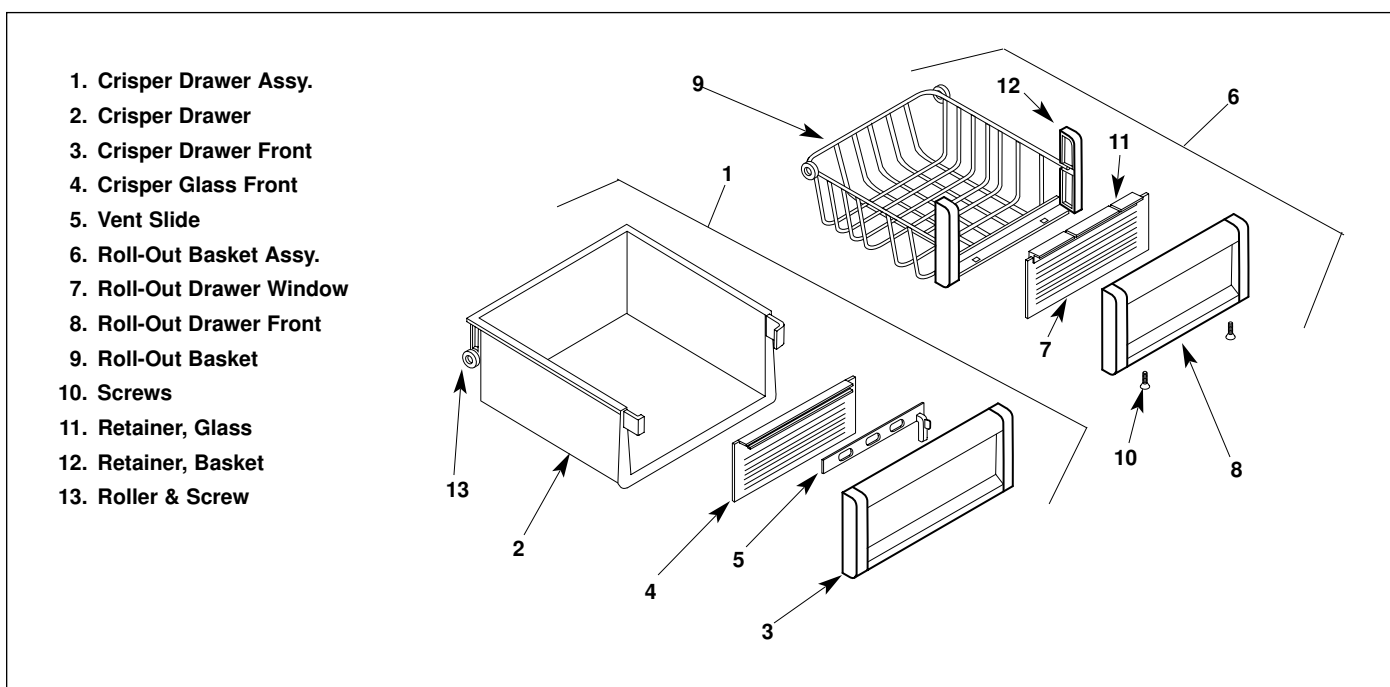


Figure 2-23. Crisper and Roll-Out Basket Assemblies

## FREEZER COMPONENTS

### ⚠ WARNING

**Always disconnect electrical power to equipment before attempting repairs.**

### Freezer Fan Motor - Model 501F

1. Remove the overhead light diffuser by grasping the back edge and pulling forward to release, then drop the front edge out of the channel. (Figure 2-24).
2. Remove the two screws from front of fan guard and lift out (Figure 2-25).
3. Tilt the evaporator cover out at the top and lift off of the posts at the bottom.
4. Remove the screws holding the fan shroud in place and disconnect the lighting electrical leads.
5. Remove the fan bracket screws and pull out the bracket and fan motor assy. (Figure 2-26).
6. Disconnect the motor electrical connection (Figure 2-26).
7. To reassemble, reverse steps 1-6.

**NOTE:** Clamp position should always be UP (Figure 2-27).

**NOTE:** As a service part replacement, white fan blade, part no. 3-15-006-0, must be used prior to S/N 663116/P679466. From S/N 663116/P679466 to M/P1004775, use the black fan blade, part no. 3-15-045-0. Starting with S/N M/P1004775, use grey fan blade, part no. 3-15-052-0.

**NOTE:** Fan blade position after Serial Number 1004775 is 1-5/8".

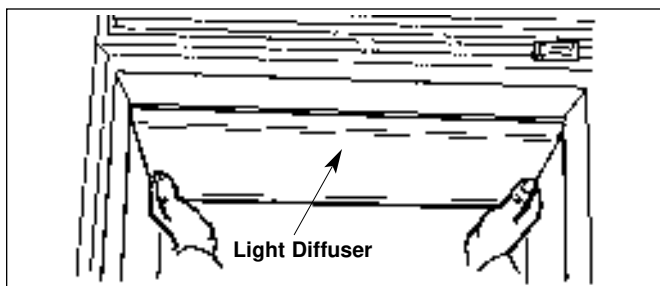


Figure 2-24. Light Diffuser

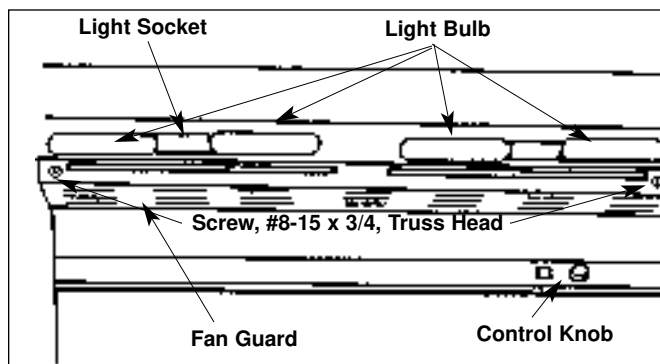


Figure 2-25. Fan Guard

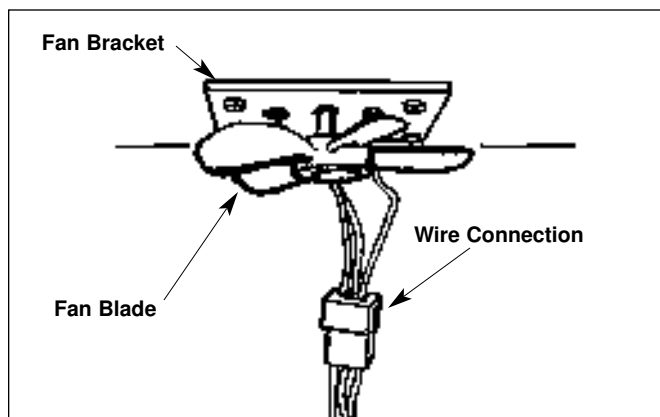


Figure 2-26. Evaporator Fan Blade Assy.

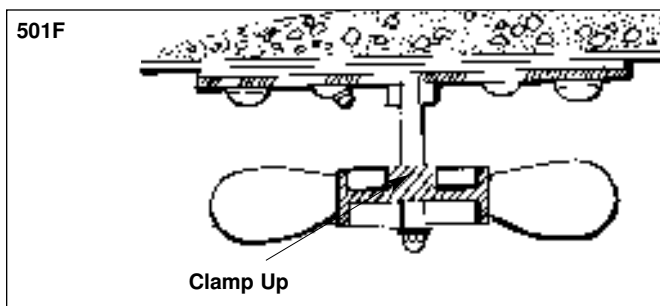


Figure 2-27. Evaporator Fan Assy.

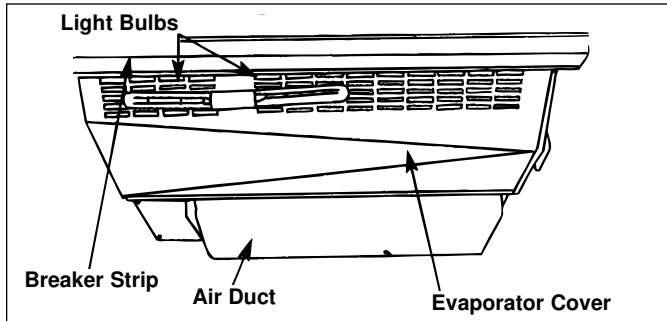


Figure 2-28. Model 511, 550 Freezer Compartment, Top

### Freezer Fan Motor - Models 511, 550

1. To access and remove the evaporator fan assembly, the freezer air duct and evaporator cover will need to be removed first (Figure 2-28).
2. Remove the mounting screws at the left side of the fan shroud. Tilt the front edge of the assembly down and disconnect the fan motor wiring from the wire harness (Figure 2-29).
3. Continue to tilt the assembly forward and pull out. The freezer evaporator fan can now be removed from the fan shroud.

**NOTE:** When reinstalling freezer evaporator fan assembly, the oblong holes in the rear flange of the fan shroud must be placed over the two upper white pegs in the rear wall.

### Freezer Fan Motor - Models 532, 542, 561

1. To access the freezer evaporator fan motor, remove the freezer duct/shelf (Figure 2-30). Remove the two #10-12 x 1/2 screws from the cover and raise up. Disconnect wire harness and continue to raise up until the top lip of the cover releases from the air diffuser. The fan motor is mounted behind the evaporator on the freezer fan shroud (Figure 2-31).
2. To remove fan, remove the screws (Figure 2-24) from the top of the shroud and pull the shroud forward. The fan assembly will now lift straight up from behind the evaporator (Figure 2-31).

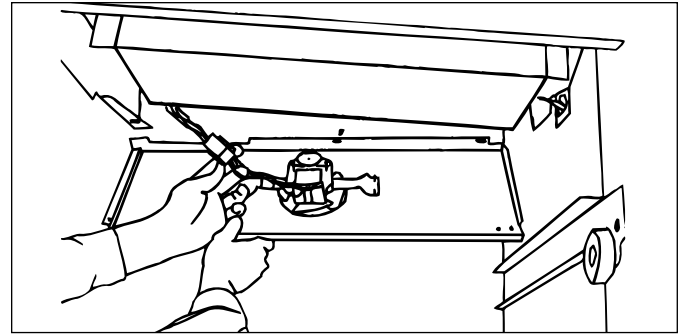


Figure 2-29. Model 511, 550 Freezer Assy.

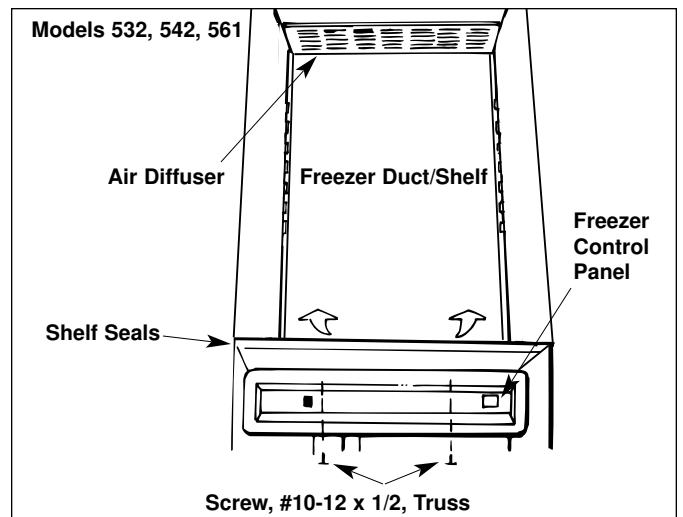


Figure 2-30. Freezer Duct/Shelf

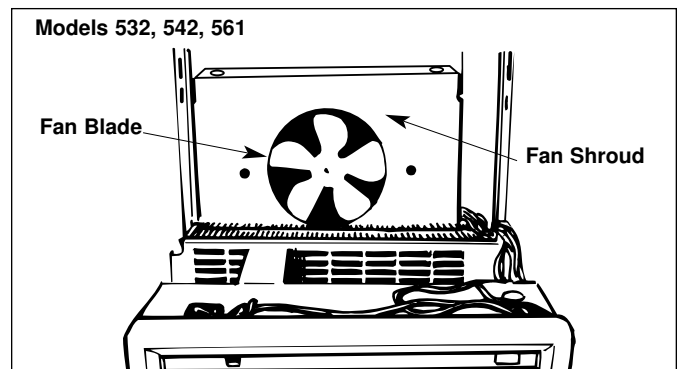


Figure 2-31. Freezer Fan

**NOTE:** When reinstalling the fan, angle the bottom of the fan shroud towards the back of the freezer and then raise the top of the shroud into position to secure at top. A properly installed shroud will be parallel to the evaporator.

3. Reinstall the freezer duct/shelf (Figure 2-30). Insert the top lip of the cover behind the air diffuser and then lower it. Be sure the cutouts in the cover line up with the tabs at the back.

## Freezer Fan Motor - Model 590

1. To access the freezer evaporator fan motor, lift off the freezer utility rack (Figure 2-32).
2. Remove the top diffuser. Remove front evaporator cover held in place with two screws at the top and two screws at the bottom (Figure 2-33).

**NOTE:** On Model 590, remember to remove screw just below water reservoir area before tilting evaporator cover forward.

3. Remove two screws, then pull fan motor assembly out (Figure 2-34).

**NOTE:** Fan motor wires are held in place by a clip on the side wall.

4. For reassembly, reverse steps 1 - 3.

**NOTE:** After fan motor is installed, make sure fan blade rotates freely.

Models 590

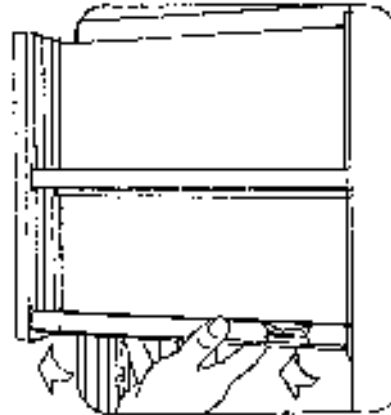


Figure 2-32. Freezer Utility Rack

Models 590

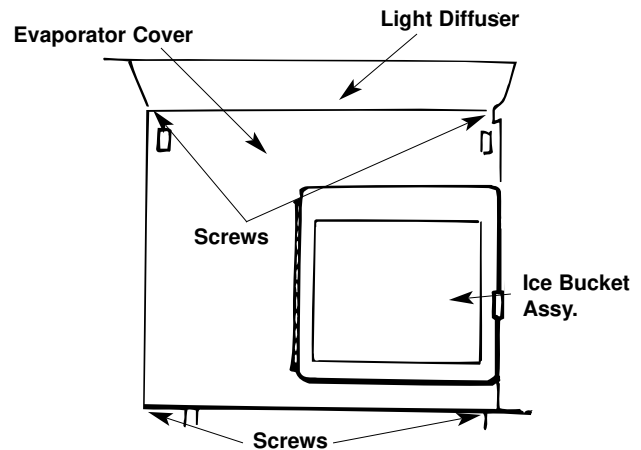


Figure 2-33. Evaporator Cover

Models 590

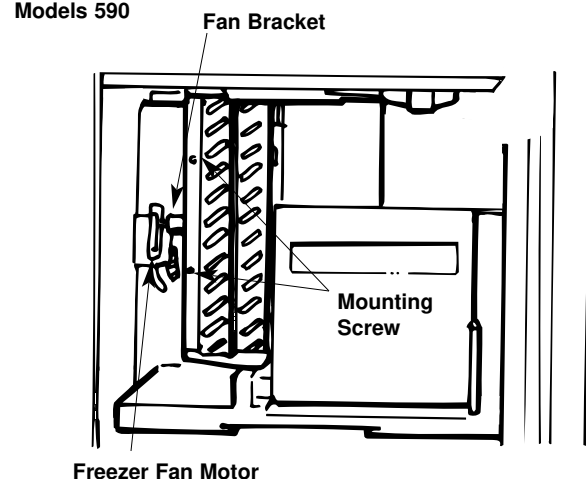


Figure 2-34. Freezer Fan Motor