Excellence Industries

# Owners Manual

## Glass Door Freezer

### Single and Double Door Models

GDF-9M, GDF-13, GDF-15,
GDF-22, GDF-43

R290

## CAUTIONARY INSTRUCTIONS FOR UNITS CHARGED WITH PROPANE (R290) REFRIGERANT

**⚠ WARNING**



**THIS UNIT IS CHARGED WITH PROPANE REFRIGERANT. PROPANE IS AN EXTREMELY FLAMMABLE AND EXPLOSIVE GAS. PLEASE READ CAREFULLY THIS MANUAL/GUIDE AND FOLLOW ALL SAFETY PRECAUTIONS CONTAINED HEREIN TO REDUCE A RISK OF FIRE AND/OR EXPLOSION. FAILURE TO FOLLOW THE SAFETY PRECAUTIONS MAY RESULT IN SERIOUS INJURY OR DEATH, AND/OR PROPERTY DAMAGE.**

- **DANGER - RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. DO NOT USE MECHANICAL DEVICES TO DEFROST REFRIGERATOR. DO NOT PUNCTURE REFRIGERANT TUBING.**
- **DANGER - RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. TO BE REPAIRED ONLY BY FACTORY AUTHORIZED TRAINED SERVICE PERSONNEL. DO NOT PUNCTURE REFRIGERANT TUBING.**
- **CAUTION - RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. CONSULT REPAIR MANUAL/OWNER'S GUIDE BEFORE ATTEMPTING TO SERVICE THIS PRODUCT. ALL SAFETY PRECAUTIONS MUST BE FOLLOWED.**
- **CAUTION - RISK OF FIRE OR EXPLOSION. DISPOSE OF PROPERLY IN ACCORDANCE WITH FEDERAL OR LOCAL REGULATIONS. FLAMMABLE REFRIGERANT USED.**
- **CAUTION - RISK OF FIRE OR EXPLOSION DUE TO PUNCTURE OF REFRIGERANT TUBING; FOLLOW HANDLING INSTRUCTIONS CAREFULLY. FLAMMABLE REFRIGERANT USED.**

Propane is approved for use as a refrigerant in commercial, self-contained units in Canada and USA under limited use conditions. It can be used in new equipment only, retrofitting is not allowed, with a limited charge of up to 150 grams (5.3 oz) per refrigeration circuit. Even though this is a small amount, it still presents a fire/explosion hazard if it leaks out of refrigerant containing parts. When mixed with air, a flammable propane-air mixture can be created and easily ignited by sparks, open flames, or hot surfaces. This is particularly true in confined zones. Propane is heavier than air and tends to settle at lower points.

To mitigate the risk, please follow the precautionary measures as follows:

- Avoid unit installation in areas with open flames (kitchens, repair garages or the like), or in vicinity of open flames or high surface temperatures.
- Avoid unit installation in confined spaces. Well ventilated areas are preferred. Keep clear all ventilation openings of obstructions.
- Do not rely on smell to detect potential leaks of propane refrigerant. Propane refrigerant is a high purity propane gas and does not contain any stenching agent(s). Stenching agents are typically used in fuel-grade propane and natural gas to detect their presence in air by relying on smell.
- All repairs must be performed in well ventilated areas.
- To minimize the risk of possible ignition due to incorrect parts or improper service, component parts shall be replaced with like components and servicing shall be done by service personnel authorized by Excellence Industries.
- Do not attempt to modify the unit or remove any functional part(s) from the unit.
- Handle the unit with care to avoid any damage.
- When transporting the unit, all appropriate safety considerations must be considered. Check with local Department of Transportation for detailed requirements pertaining to transportation of flammable gasses.

## ⚠ WARNING

MAKE SURE THE FREEZER IS DISCONNECTED FROM THE POWER SUPPLY BEFORE ANY SERVICE. PRESS THE FREEZER SWITCH TO THE "OFF" POSITION THEN UNPLUG THE POWER CORD FROM THE ELECTRICAL RECEPTACLE.

ALL SERVICE WORK MUST BE PERFORMED BY CERTIFIED, FACTORY AUTHORIZED SERVICE PERSONNEL ONLY. COMPONENT PARTS MUST BE REPLACED WITH LIKE COMPONENTS.

COMMERCIAL USE ONLY. NOT FOR HOUSEHOLD USE.

FOR INDOOR USE ONLY.

## ⚠ SAFETY PRECAUTIONS

READ ALL INSTRUCTIONS AND SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS NEAR THIS OR ANY OTHER APPLIANCE.

DO NOT TOUCH COLD SURFACES WITH DAMP OR WET HANDS. SKIN MAY STICK TO EXTREMELY COLD SURFACES.

DO NOT ALLOW CHILDREN TO CLIMB, HANG OR STAND ON FREEZER SHELVES.

KEEP FINGERS OUT OF PINCH-POINT AREAS.

DISCONNECT POWER TO THE UNIT PRIOR TO CLEANING OR REPAIRING.

BEFORE DISCARDING THIS OR ANY OTHER APPLIANCE, REMOVE THE DOORS OR LIDS TO REDUCE RISK OF CHILD ENTRAPMENT.

WHEN RECYCLING THE UNIT, REFRIGERANTS MUST BE HANDLED IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS.

## NOTICE

OPERATING THE FREEZER FOR 24 HOURS PRIOR TO LOADING PRODUCT IS RECOMMENDED

MONITOR FREEZER TEMPERATURE REGULARLY

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# Excellence Commercial Products

## *STANDARD WARRANTY - Within the Continental United States*

**Excellence Industries warrants to the user:**

ONE YEAR CABINET WARRANTY

The cabinet and all of its parts shall be free of defects in the material and workmanship under normal use and service for a period of one year from the date of purchase. Excellence Industries sole obligation under this warranty shall be limited, at its option, to either repair or replace any part of the cabinet determined by Excellence Industries to be defective. Excellence Industries will pay standard labor rates when service is dispatched through the Excellence Industries national service desk at 1-877-872-3797. Labor for outside service companies is only reimbursable with prior arrangements and written approval from Excellence Industries.

OPTIONAL ADDITIONAL FOUR-YEAR COMPRESSOR WARRANTY

In addition to the Excellence Industries Standard Warranty and in accord with the purchase of the optional Four-Year Compressor Contract, Excellence Industries agrees to replace the compressor with a compressor of like or one or similar design and capacity if it is determined by Excellence Industries that the compressor is inoperative due to defects in factory workmanship or material under normal use and service.

Excellence Industries obligation under the Four-Year Compressor Warranty Contract shall be limited to a period not to exceed five years from the date of installation. The Four-Year Compressor Warranty does not apply to any part of the cabinet or its finish, nor does it apply to the control, relay, fan or any electrical component.

Further terms of the contract cannot be considered valid if the compressor has been subjected to an accident, alteration, abuse, misuse, or damaged by shipping, delivery, flood, fire, or acts of God. The Four-Year Compressor Warranty Contract shall place no liability on Excellence Industries for any labor or labor costs in replacing the compressor, heat exchanger, drier, fan or replaceable parts of the cabinet. Excellence Industries shall only be obligated to furnish the replacement compressor.

LIMITED FIVE YEAR LEAK WARRANTY

The cabinet shall be free of insulation failures and refrigerant leaks within the insulated area of the cabinet for a period of five years from the date of installation or six years from the date of manufacture, whichever occurs first. Excellence Industries sole obligation under this warranty shall be limited to the following:

- Year one after purchase – Full replacement including freight.
- Year two after purchase – A new cabinet can be purchased by customer at 20% of the original purchase price. Customer to bear cost of freight from Excellence Industries warehouse.
- Year three after purchase – A new cabinet can be purchased by customer at 40% of the original purchase price. Customer to bear cost of freight from Excellence Industries warehouse.
- Year four after purchase – A new cabinet can be purchased by customer at 60% of the original purchase price. Customer to bear cost of freight from Excellence Industries warehouse.
- Year five after purchase – A new cabinet can be purchased by customer at 80% of the original purchase price. Customer to bear cost of freight from Excellence Industries warehouse.

At Excellence Industries discression, the company can demand return of the cabinet in question. Excellence Industries will pay any associated cost of freight to perform internal leak tests. If the unit is deemed to not have an internal leak, the customer must bear all the cost of freight both to and from Excellence Industries facilities and service.

**Do not Drill Holes in Cabinet**

Refrigeration tubing and wiring is routed through the cabinet walls. Leaks, wet insulation, or electrical problems caused by drilled holes are not covered by warranty. Any tampering with, drilling holes in or unauthorized modification to the cabinet will void all warranties.

**General:**

ABUSE, MISUSE, ACCIDENTS - Excellence Industries shall not be responsible for parts or assemblies, which upon inspection are determined by Excellence Industries to have been subjected to misuse, neglect, lack of maintenance, alteration, accident, abuse, damage during transit or delivery or by fire or flood.

CONSEQUENTIAL DAMAGES - IN NO EVENT SHALL EXCELLENCE INDUSTRIES BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, FOOD SPOILAGE OR PRODUCT SPOILAGE CLAIMS, NOR FOR ANY DELAY IN THE PERFORMANCE OF THIS WARRANTY DUE TO CAUSES BEYOND ITS CONTROL.

The standard warranty and any service contract related to the STANDARD WARRANTY shall apply only to the products sold and used within the boundaries of the Continental United States.

Users may file warranty claims either directly with Excellence Industries or with immediate seller from whom the cabinet was purchased. All claims must be supported by information concerning the alleged defect and specifically identified by the Serial Number of the cabinet.

THERE ARE NO OTHER, WARRANTIES EXPRESS, IMPLIED OR STATUTORY, EXCEPT THIS WARRANTY, WHICH IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING TO THE EXTENT PERMITTED BY LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

EXCELLENCE INDUSTRIES
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813-870-0340

*Effective January 1, 2016*

# INSTALLATION INSTRUCTIONS

**⚠ WARNING**

These freezers MUST be installed on a dedicated grounded circuit protected with a 15 Amp circuit breaker or a 15 Amp time delay fuse. Do not remove ground prong. If the cord or plug is damaged, replace with the same type. Refrigeration and electrical work must be performed by a qualified technician. Failure to follow these instructions can result in injury, death, fire, or electrical shock.

## POWER REQUIREMENTS:

All models require a 15 Amp dedicated and properly grounded 115V/60Hz/1Ph circuit with a NEMA 5-15P receptacle. Wiring should be sized according to the amperage rating stated on the serial plate. Failure to use a dedicated circuit may cause the circuit breaker to trip off and/or cause voltage drops. As a result, power to the freezer may be interrupted and freezing performance can be adversely affected which may cause equipment damage and/or product loss.

NEMA 5-15P



Voltage supply to the freezer must not vary more than ±10% of the nominal 115V, or performance may be affected. The warranty and liability does not cover damage resulting from excessive voltage variations.

- **DO NOT USE AN EXTENSION CORD**
- **DO NOT CUT, REMOVE OR BYPASS THE GROUNDING PRONG FROM THE PLUG**
- **DO NOT PLUG FREEZER INTO AN OUTLET CONTROLLED BY A WALL SWITCH**
- **ENSURE POWER CORD IS NOT CUT OR DAMAGED FROM PINCHING, KNOTTING, OR MISHANDLING**

**CABINET LOCATION:** An air space of at least 6" (15 cm) must be maintained on all sides of the freezer. Do not locate the freezer in a warm unventilated room exceeding 86°F (30°C) and 55%RH; do not place freezer in direct sunlight; do not place freezer under or near heat range or heating vent.

**CABINET LEVELING:** The freezer must be completely leveled side to side and front to back or slightly tilted front to back but never tilted forward. Once the freezer is placed in its final location, use a carpenter level to level the freezer. Proper leveling of the freezer is important for the door closing and water drainage during the defrost cycle. There are two leg levelers in the front that can be adjusted. First, loosen the nuts using an adjustable wrench. Second, turn levelers counter-clockwise to raise the freezer, or clockwise to lower, until they reach the leveled position. Lastly, tighten the nuts again to lock the legs.

**NOTICE:**

Failure to follow these instructions may void the warranty and/or cause loss of product.

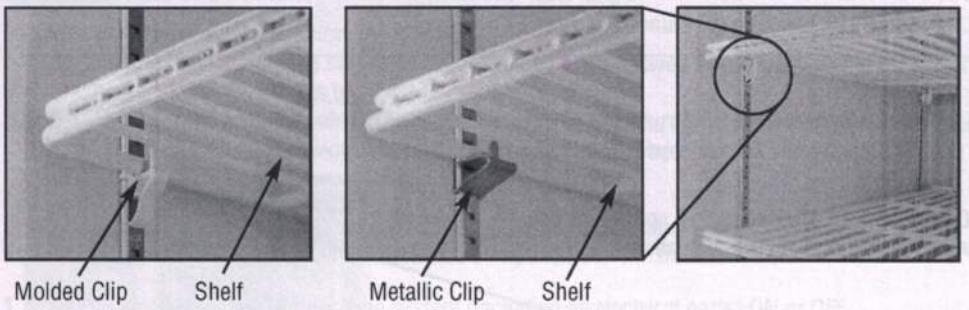
## PROTECTIVE DOOR FILM

The anti-fog glass door has a protective film on the inner side. After the unit has been installed, peel and remove the protective film covering the inner glass surface.



## SHELF AND BASKET, INSTALLATION AND ADJUSTMENT

The freezer is supplied with shelves and molded or metallic clips. The freezer has slotted pilasters to position the shelves according to the customer's needs.



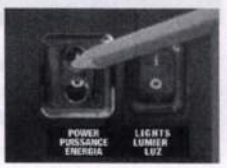

The clips can be removed at any time if a new position is chosen for the shelf or basket. To remove, grab the clip with your thumb and index finger, then push up the bottom surface until the clip is free. Once the clips are in place, put the shelf on top. Once the shelves are securely in place, baskets (if equipped) may be positioned on the shelves.

## OPERATING INSTRUCTIONS

**⚠WARNING**

Check with your power company if you are not certain of your power supply.
Before connecting to power supply the freezer should be upright and idle for at least 1 hour.

Once the unit has been installed and the power supply has been connected, press the power switch to the "ON" position using a pen or pencil.




The compressor will start to run after 6 minutes. This can be confirmed by listening for a slight humming or a slight vibration.

**NOTE:**
If the freezer is running and the power supply is interrupted, the freezer will not restart Immediately. There is a 6 minute delay for compressor protection.

Once the freezer is running, the inside temperature will start to cool down within a couple of minutes. Ensure that the freezer has reached the desired temperature (this will take between 2 to 3 hours) by checking the electronic control display readout before loading product. **It is strongly recommended to run the freezer empty for 24 hours before loading any products.**

# PRODUCT LOADING

**NOTICE:**

Ensure the freezer has reached the proper operating temperature before loading product. The electronic control displays the interior cabinet temperature.

Product loss is not covered under warranty.

For enhanced performance of the unit and to avoid spoilage of perishable products, follow these instructions:

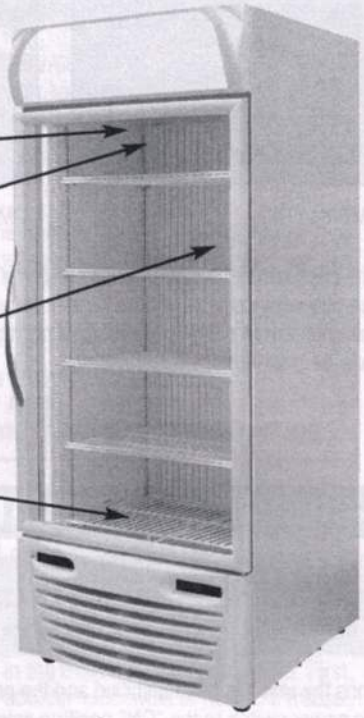
**DO** leave at least 6" (15 cm) free space between the fan and the product for air circulation.

**DO NOT** stock any products against the evaporator fan. See load limit labels inside the cabinet for reference.

**DO NOT** block the air space behind the grill. Free space is required for proper air circulation.

**AVOID** removing the bottom shelf from the inner bottom.

**DO NOT** overstock the unit.



## TEMPERATURE ADJUSTMENT AND SWITCH FUNCTIONS

Locate the electronic control on the right of the front bottom grill. The electronic control displays actual temperature inside the freezer. In addition, the electronic control turns the refrigeration system OFF when freezer reaches the set temperature, and turns the refrigeration system ON after the freezer temperature rises by 8°F or after 7 minutes, whichever lasts longer.

To adjust the set temperature, follow these steps:

1. Press and release P button; the set temperature and SP1 are displayed alternatively on the controller
2. Press the UP or DOWN buttons to adjust the set temperature.
3. Press P to store the adjusted value; The electronic control will return to cabinet temperature display. The U Button on the electronic controller is used for displaying cabinet and defrost temperatures (PR1 and PR2 parameters)

There are two switches located on the right hand side of the controller.
Their functions are to manually switch electronic components of the freezer.

1. POWER switch turns the refrigeration system (including all electrical parts) ON or OFF. (use a pen or pencil to press the power switch to the ON or OFF position).
2. LIGHT switch turns the internal and external lights ON or OFF.

### ELECTRONIC CONTROLLER




ELECTRONIC CONTROL POWER LIGHT

## CONTROLLER ALARMS AND SIGNALS

The electronic controller can detect and signal several alarm conditions: high/low freezer temperatures, door open and open or short-circuited temperature probes. If the alarm conditions last longer than pre-programmed time delays, the controller will turn ON an audio signal (buzzer). Also a LED light located in the upper left corner of the controller, next to the caution symbol, will glow in case an alarm is active.

Once the alarm conditions have been fixed, the controller will turn off the alarms on its own. Alarms can be disabled by pressing any controller button, during alarm conditions

| Message | Cause | Action |
|---|---|---|
| Pr1 d.SC | Cabinet temperature probe open | • Check connections<br>• Replace probe |
| Pr1 Short CC | Cabinet temperature probe short-circuited | |
| Pr2 d.SC | Defrost probe open | • Check connection<br>• Replace probe |
| Pr2 Short CC | Defrost probe short-circuited | |
| Int Error | Internal memory error | • Replace controller |
| StArt dELAY | Start up delay in progress | • Wait for 6 minutes |

## CONTROLLER ALARMS AND SIGNALS (CONT'D)

| Message | Cause | Action |
|---|---|---|
| HI ALArM | High temperature alarm in progress | • Check door<br>• See Troubleshooting (page 13) |
| LO ALArM | Low temperature alarm in progress | • Adjust set temperature |
| door oPEn | Door open | • Close door |
| CC CYCLE | "Turbo" mode active | • none |
| HI LO dELAY | Alarm delay after a restocking command | • Press the door switch 3 times repeatedly within 5 seconds to enable restocking. |

## CONTROLLER SYMBOLS AND FUNCTIONS




At the left side of the controller display are the following LED indicators:

1. Indicates compressor status:
   - Light on - Compressor cooling on
   - Light off - Compressor cooling off
   - Light flashing - Start-up delay in progress

2. Indicates defrost status:
   - Light on - Defrost in progress
   - Light flashing - Freezer in dripping mode

3. Indicates fan status:
   - Light on - Cabinet fan ON
   - Light off - Cabinet fan OFF
   - Light flashing - Start-up delay in progress after defrost.

4. Indicates the alarm status:
   - Light on - Alarm is on
   - Light off - Alarm is off
   - Light flashing - Alarm silenced or memorized

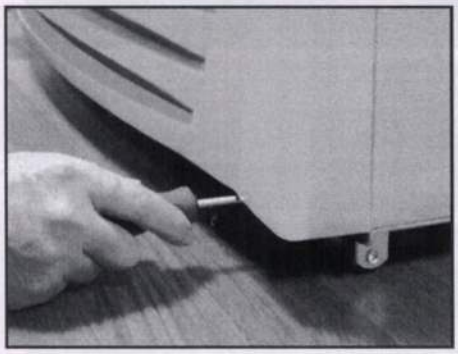
## MANUAL DEFROST

This freezer is designed for automatic defrost. Every eight hours the refrigeration system is turned OFF and the defrost/drain heaters are activated to melt the ice from the evaporator coil and drain pan. If the freezer is not leveled properly, the water may not drain out of the freezer, it will re-freeze and ice gradually builds up. Excessive ice buildup reduces cooling performance and may cause the failure of refrigeration system and product loss. Ice buildup may be noticed through the evaporator fan grill on the coil fins.

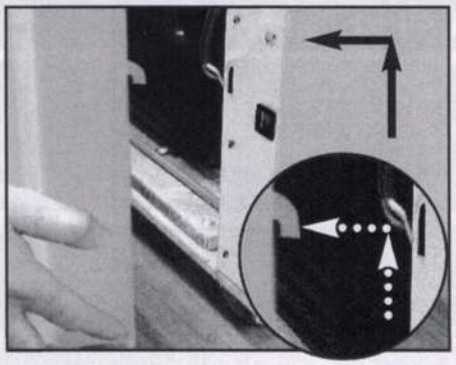
To perform a manual defrost, follow these steps:

1. Press the UP arrow button and hold it for 6 seconds until the defrost symbol illuminates.
2. Wait until the electronic control stops defrost (the defrost symbol disappears).
3. If ice is still noticeable on the evaporator, press the freezer switch to the "Off" position then disconnect the freezer from the power supply.
4. Take down the evaporator shroud and use a hair dryer to quickly melt the ice.
5. Make sure the freezer is leveled side to side, and front to back or slightly tilted front to back.
6. Replace the evaporator shroud.

## HOW TO REMOVE THE FRONT BOTTOM GRILL



With a screwdriver remove the bottom screws from the grill.



Grasp the bottom grill from the sides and slide it up and towards you to release the hooks.

To replace bottom grill, align hooks of the grill with slots and slide the grill back onto the freezer. Replace the bottom screws to secure the grill to the cabinet.

## CONDENSER CLEANING

The freezer is designed for minimal condenser cleaning. With the "lint free" condenser design, most dust and dirt will pass right through the condenser. To insure the proper operation, we recommend scheduled check-ups and cleaning every three to four months. This period may be shorter or longer depending on the location in which the freezer was installed. A dirty condenser can result in a voided warranty, part failure, product loss, and higher electrical cost. The steps to clean the condenser are as follows:

1. Remove the front bottom grill (see page 7)
2. Switch off power at freezer switch on control panel.
3. Unplug power cord from electrical receptacle.
4. Brush the dirt, dust and paper off the condenser coil plate, all the way to the fan. Use either a vacuum or blow with a compressed air supply if available.
5. When finished with cleaning, plug power cord back into receptacle.
6. Switch power back on at switch on control panel.
7. Replace bottom grill (see page 7)

**NOTE:**
The cleaning of the condenser is a service not covered under the warranty

## CABINET CLEANING

**⚠ WARNING**

To reduce the risk of fire, electrical shock or personal injury, disconnect the freezer from the power source before cleaning. Press the freezer switch to the "Off" position, then unplug the power cord from the receptacle. Keep liquids away from electrical and electronic components.

**⚠ CAUTION**

Do not apply hot water on cold glass components. Allow glass to warm sufficiently to prevent shattering.

**⚠ CAUTION**

Do not use ammonia or bleach based cleaners or abrasive type cleaners.
Do not use abrasive cleaning pads.

To clean the exterior whether it has the original finish or a decal package, use only a mild non-abrasive liquid cleaner, water and a soft cloth. For stainless steel parts, a commercial stainless steel polish and cleaner can be used. Always apply the cleaner to the soft cloth and then clean the freezer. Never apply the cleaner directly to the freezer. Excess liquid applied to the surface may seep into the electronic control and switches which can cause an electrical hazard or a malfunction.

**DO NOT USE** abrasive or caustic cleaners, scouring pads, solvents or flammable liquids.

### GENERAL

The freezer should be cleaned at regular intervals to meet a good standard of hygiene and to keep the freezer attractive as an effective point of purchase display.

### INTERIOR CLEANING

Use only mild non-abrasive liquid cleaner, water and a soft cloth for the entire freezer interior. Make sure to wipe off all residue.

# CABINET CLEANING (CONT'D)

## EXTERIOR CLEANING

Use only mild non-abrasive liquid cleaner, water and a soft cloth for the painted surfaces and a stainless steel polish and cleaner for the stainless steel surfaces if desired.

## CLEANING GLASS DOOR EXTERIOR

Due to the special coating on the glass, use only a mild, non-abrasive liquid cleaner, water, and a soft cloth. The same applies to the plastic door frame.

## ANTI FOG GLASS DOOR INTERIOR

The anti-fog glass door has a protective film on the inner side. After the unit has been installed, peel and remove the protective film covering the inner glass surface.

The Anti-Fog coating is a scratch resistant, permanent coating applied on the inner surface of the door glass. It prevents fogging and icing of cold glass surface after door opening and closing.

Cleaning can be performed using common household glass cleaners (Sidolin®, Windex®, Mr. Muscle®) and a tissue or paper towel. However, on very cold surfaces these cleaners may freeze. In these cases a mixture with 30% pure alcohol and water may be used.
At temperatures above 0°C, warm hand temperature water with a mild detergent can be applied.

**Do not use** abrasive cleaners or materials like Ajax®, Scotch Brite® or Steel Wool.
**Do not** contaminate the door with silicone.
**Do not use** tape, glue, stickers, attachments, magic markers or similar products on the coating.
**Do not use** razor blades or any other mechanical device to remove foreign residues or objects directly from the coating.

**Do not use** cleaners or materials that hinder the anti-fog performance by leaving residue or damaging the surface. Examples of these cleaners include: ArmorAll®, Tilex®, Bleach, Windex® No-Drip, Windex® Wipes, Pledge®, or any product containing silicone oils or waxes.

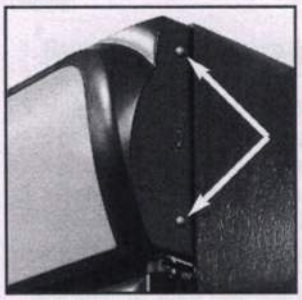
**Recommended cleaners** include: Greased Lightning®, Formula 409® Grease & Grime®, Fantastik®, Windex® Vinegar, Windex® Original, MicroClean Professional APC® (formerly Now® all purpose cleaner), Mean Green®, or Mr. Clean® (degreasing cleaners).

**Recommended cleaning** is with a soft dry or slightly damp towel, or with one of the degreasing cleaners listed above.

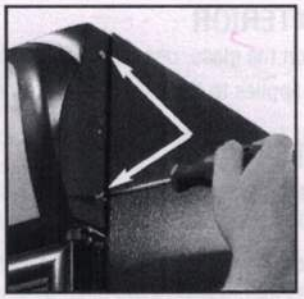
# ISD TRANS-LIGHT LED STRIP REPLACEMENT (IF EQUIPPED)

**⚠ WARNING**

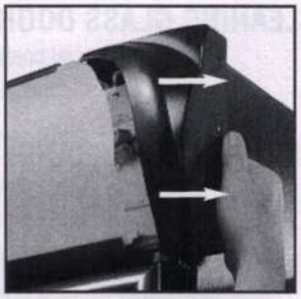
Make sure the freezer is disconnected from the power supply before any service. Press the freezer switch to the "Off" position then unplug the power cord from electrical receptacle. All service work must be conducted by a certified technician only.



Remove the plastic screw covers from the right hand side of the display.



With a screwdriver remove the two screws from the right hand side of the display.



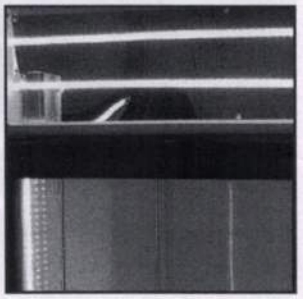
Slide the right hand display end cap from the display frame.



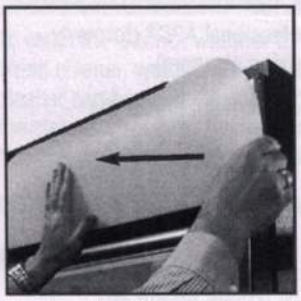
Slide the diffuser panel and graphic panel (if used) out of the frame channel.



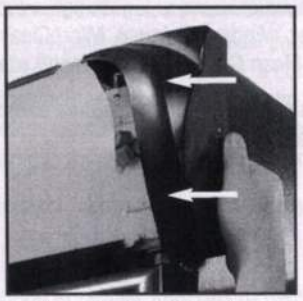
Disconnect LED strip wires from connectors and peel LED strips off freezer.



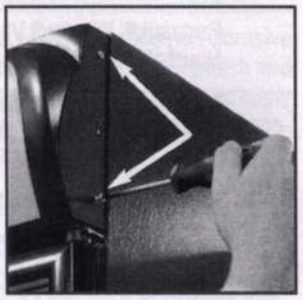
Install replacement LED strips at the same place and connect wires. Observe color coding.



Replace the diffuser panel and graphic panel (if used).

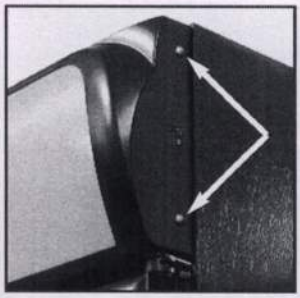


Replace the display end cap.



Replace the two screws on the display end cap.

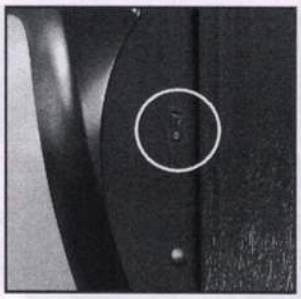
## ISD TRANS-LIGHT LED STRIP REPLACEMENT CONT'D



Replace the plastic screw covers on the display end cap.



Plug the freezer in and make sure the light switch on the bottom grill is in the 'ON' position.

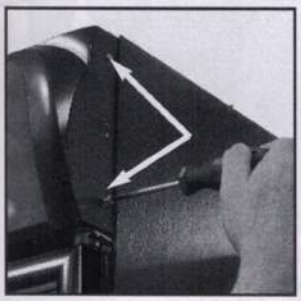


To turn the display lighting "ON" or "OFF", use the display light switch.

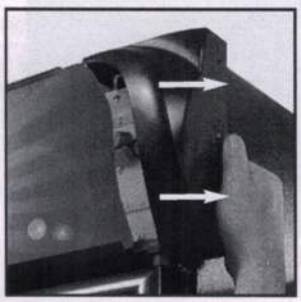
## GRAPHIC PANEL REPLACEMENT (IF EQUIPPED)

**⚠ WARNING**

Make sure the freezer is disconnected from the power supply before any service. Press the freezer switch to the "Off" position then unplug the power cord from electrical receptacle. All service work must be conducted by a certified technician only.



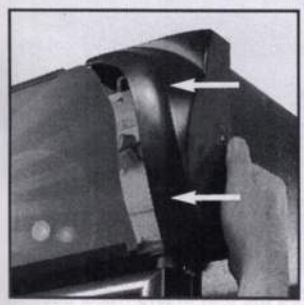
Remove the two plastic screw covers and the two screws from the right hand display end cap.



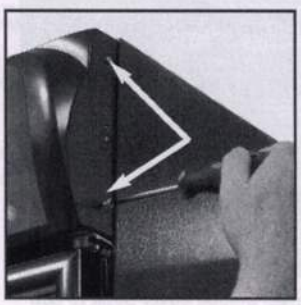
Slide the right hand display end cap from the display frame.



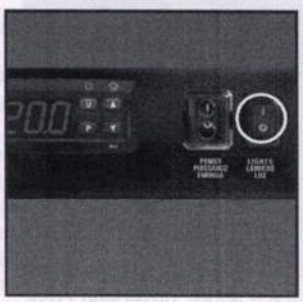

Slide out the old panel and replace with the new panel.



Replace the display end cap.



Replace the two screws and plastic screw covers on the display end cap. To turn the display lighting "ON" or "OFF", use the display light switch.



Plug the freezer in and make sure the light switch on the bottom grill is in the 'ON' position.

# INTERIOR LED STRIP REPLACEMENT

**⚠ WARNING**

Make sure the unit is disconnected from the power supply before any service. Press the power switch to the "Off" position then unplug the power cord from electrical receptacle. All service work must be conducted by a certified technician only.



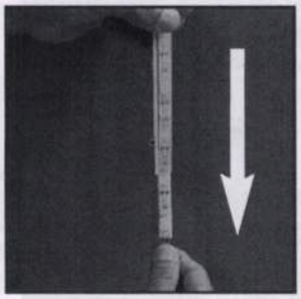
Remove silicone corner beads. Pry the screwdriver between plastic cover and cabinet frame. Pry from one end to the other.



Pry the screwdriver between plastic lens cover and cabinet frame.



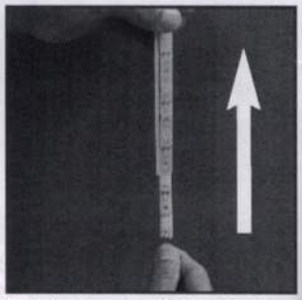
Carefully remove the plastic lens cover from cabinet frame.



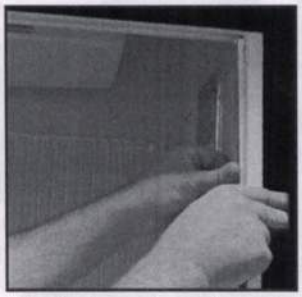
Slide faulty LED strip from plastic cover.



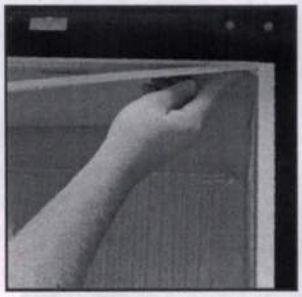
Locate the wire for the LED strip in the compressor compartment and disconnect from connectors.



Install the new LED strip into the plastic cover.



Attach wires, observing color coding. Press lens cover back to cabinet frame.



Snap plastic cover back to cabinet frame. Apply silicone at plastic cover corners.



Plug the unit in and make sure the light switch on the bottom grill is in the 'ON' position.

# TROUBLESHOOTING GUIDE

**⚠ WARNING**

Make sure the freezer is disconnected from the power supply before any service. Press the freezer switch to the "Off" position then unplug the power cord from electrical receptacle. All service work must be conducted by a certified technician only.

| Problem | Possible Cause | Action |
|---|---|---|
| Freezer not operating. | • Freezer switch located on the front grill turned off. | • Turn power switch on. |
| | • Fuse blown / circuit breaker tripped. | • Replace fuse/reset circuit breaker. |
| | • Power cord unplugged.<br>• Receptacle not working. | • Plug in power cord.<br>• Check receptacle. |
| | • Improper voltage supplied to cabinet / over load circuit. | • Remove extension cords or other equipment on the same circuit. |
| Freezer not getting cold but compressor is operating. | • Freezer located in direct sunlight or ambient (room) temperature is too hot. | • Move freezer away from direct sunlight.<br>• Room temperature is recommended not to exceed 86°F (30°C), 55% RH. |
| | • Condenser clogged with dust. | • See page 8 (Cleaning) |
| Condensing unit operating for a prolonged period or continuously. | • Freezer loaded with excessive amount of warm product.<br>• Prolonged door opening or door ajar. | • Allow enough time for product to cool down.<br>• Close door when not in use. Avoid prolonged door openings. |
| | • Door not closing properly. | • Level the unit (See page 2).<br>Check gasket condition.<br>Check the door spring. |
| | • Clogged condenser. | • Clean the condenser (See page 8). |
| | • Evaporator coil blocked with ice or frost. | • Defrost manually if required (See page 7). |
| Freezer cabinet temperature too high. | • Electronic control set too high. | • Adjust control setting (See page 5). |
| | • Poor air circulation in cabinet. | • Follow instructions for product loading (See page 4) |
| | • Insufficient clearance around cabinet or ambient temperature too high. | • Keep at least 6"(15 cm) free space around all sides of the freezer. Room temperature is recommended not to exceed 86°F (30°C), 55% RH. Make sure the air flow to the compressor is not obstructed. |
| | • Clogged condenser | • Clean the condenser (See page 8) |

# TROUBLESHOOTING GUIDE (CONT'D)

**⚠ WARNING**

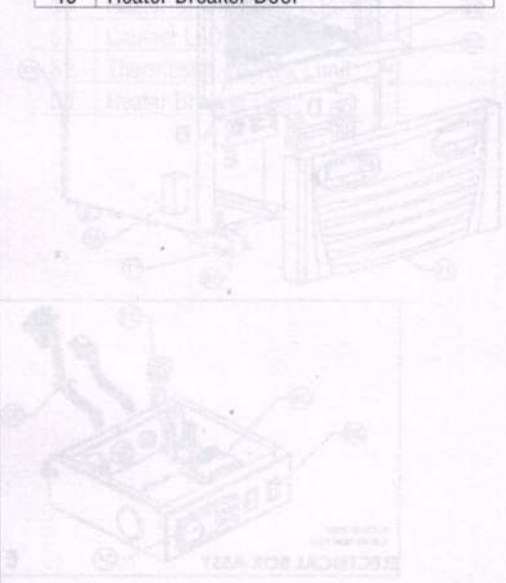
Make sure the freezer is disconnected from the power supply before any service. Press the freezer switch to the "Off" position then unplug the power cord from electrical receptacle. All service work must be conducted by a certified technician only.

| Problem | Possible Cause | Action |
|---|---|---|
| Condensation on glass door. | • Door not closing properly.<br>• Room humidity too high. | • Check the spring tension or any obstruction<br>• To prevent condensation, room humidity should be below 55%. |
| LED strips are not working. | • Light switch is off.<br>• Faulty LED strip. | • Check if the light switch is on.<br>• Replace the LED strip. (See page 12) |
| Cabinet is noisy. | • Part(s) loose<br>• Tubing vibrating | • Locate and tighten loose part(s).<br>• Ensure tubing is not in contact with other tubing or components. |
| Door does not close tight. | • Freezer is not leveled.<br>• Hinges are loose / not adjusted.<br>• Gasket is out of the groove. | • Level the unit (See page 2).<br>• Adjust / tighten the hinge screws.<br>• Check gasket condition. Adjust position or replace gasket. |
| Electronic control blank, flashing, or displaying incorrect characters. | • Wires disconnected at back of electronic control. | • See actions described in the controller section. (page 5) |
| Evaporator fan does not run. | • Fan wire disconnected.<br>• Door switch not working.<br>• Defrost probe not attached to the evaporator coil. | • Check wiring.<br>• Check door switch.<br>• Check the location of defrost probe. It should be pressed in between fins in the middle of the evaporator and close to the cabinet top |

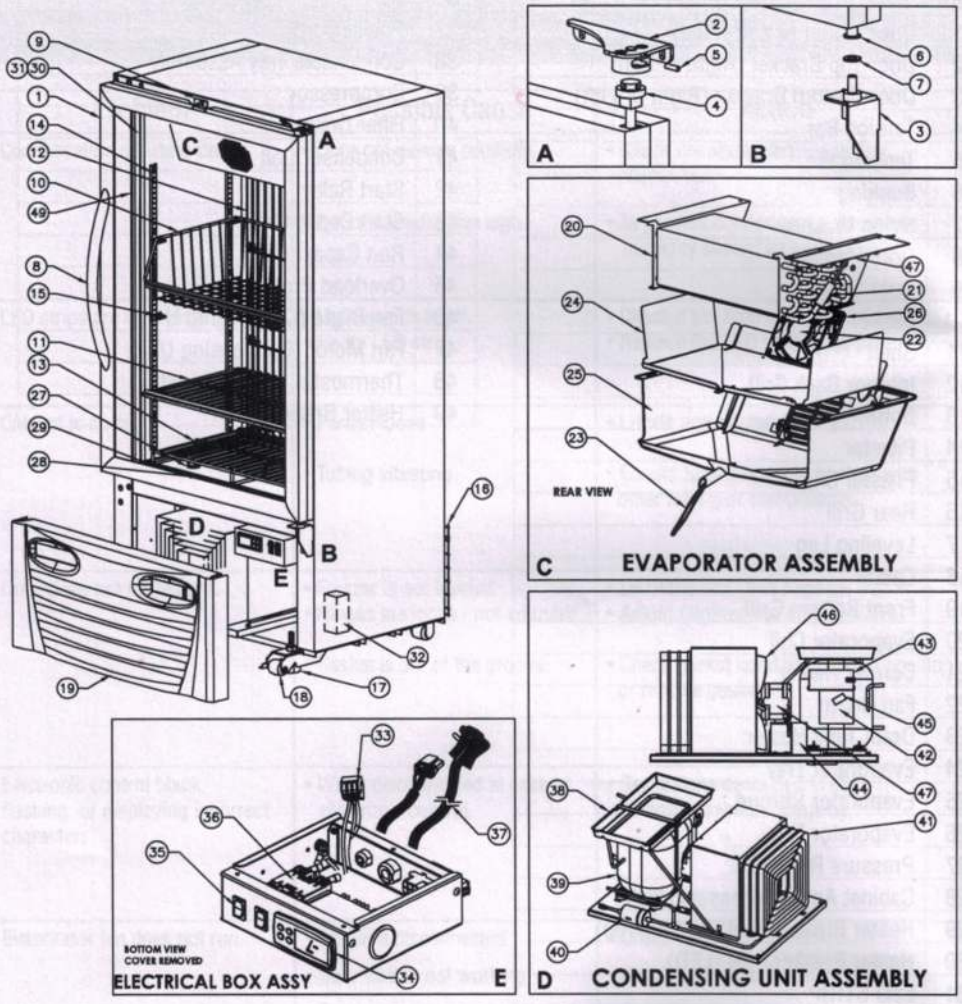
# PARTS LIST: GDF-9M

| No | Description |
|---|---|
| 1 | Door (Right or Left Hand) |
| 2 | Door Top Bracket (Right or Left) |
| 3 | Door Bottom Bracket (Right or Left) |
| 4 | Torsion Bar |
| 5 | Tension Pin |
| 6 | Bushing |
| 7 | Nylon Washer |
| 8 | Door Handle |
| 9 | Door Switch |
| 10 | Basket |
| 11 | Shelf |
| 12 | Interior Back Grill |
| 13 | Bottom Shelf |
| 14 | Pilaster |
| 15 | Pilaster Clip |
| 16 | Rear Grill |
| 17 | Leveling Leg |
| 18 | Caster |
| 19 | Front Bottom Grill |
| 20 | Evaporator Coil |
| 21 | Defrost Heater |
| 22 | Fan Guard |
| 23 | Drain Tube Heater |
| 24 | Evaporator Tray |
| 25 | Evaporator Shroud |
| 26 | Evaporator Fan |
| 27 | Pressure Relief Ball |
| 28 | Cabinet Anti-Condensate Heater |
| 29 | Heater Breaker Seal (Bottom/Top) |
| 30 | Heater Breaker Seal (LED) |
| 31 | LED STRIP |
| 32 | LED Driver (Interior Light) |
| 33 | 3 Pole Terminal block |
| 34 | Controller |
| 35 | Rocker Switch |
| 36 | Compressor Relay |

| No | Description |
|---|---|
| 37 | Power Cord |
| 38 | Condensate Tray Assembly |
| 39 | Compressor |
| 40 | Filter Drier |
| 41 | Condenser Coil |
| 42 | Start Relay |
| 43 | Start Capacitor |
| 44 | Run Capacitor |
| 45 | Overload Protector |
| 46 | Fan Blade (Condensing Unit) |
| 47 | Fan Motor (Condensing Unit) |
| 48 | Thermostat, Defrost Limit |
| 49 | Heater Breaker Door |



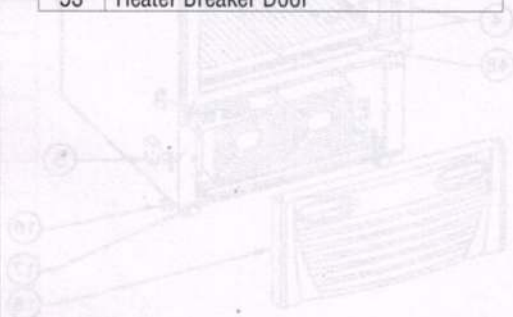
# ILLUSTRATION: GDF-9M



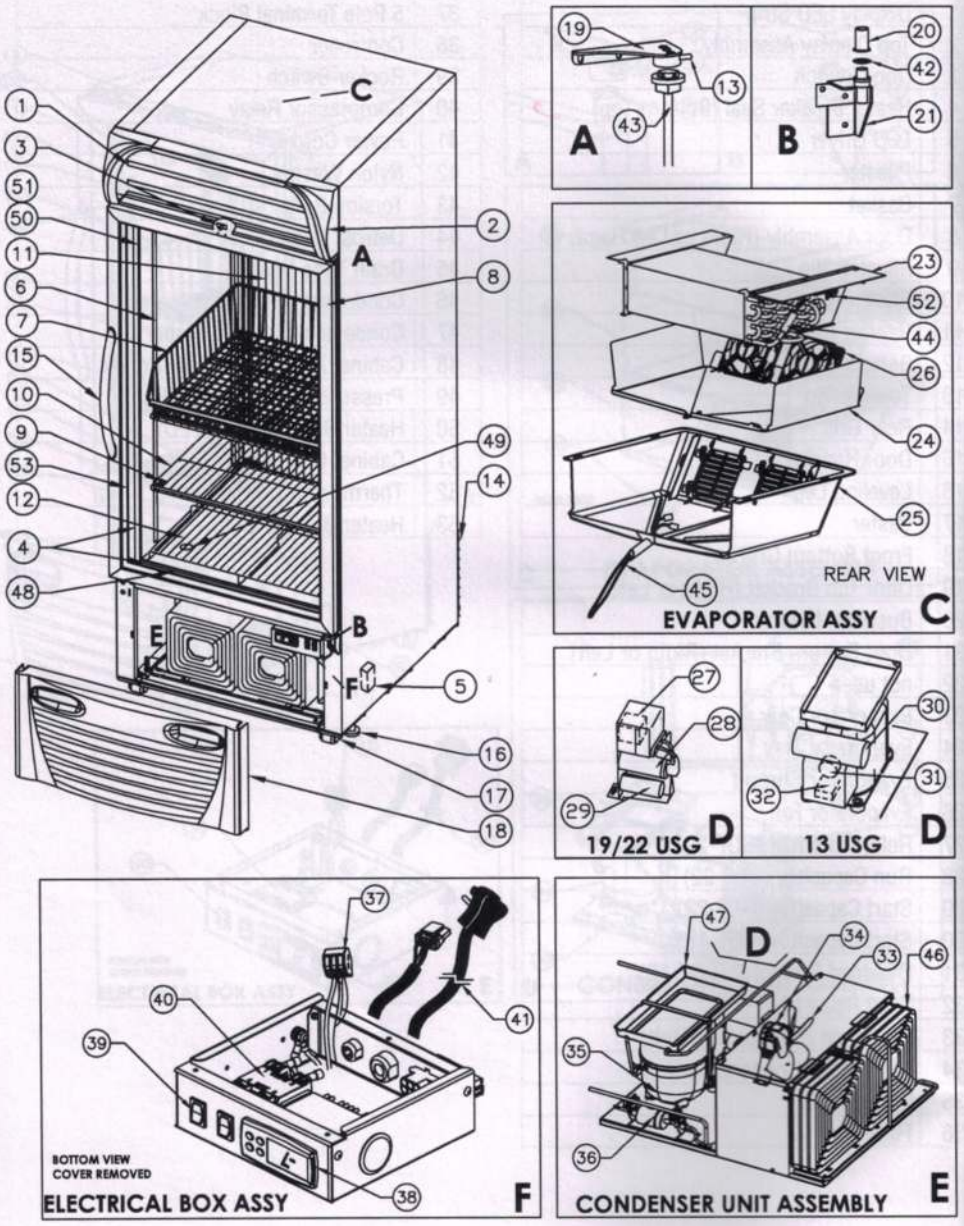
# PARTS LIST: GDF-13, GDF-22

| No | Description |
|---|---|
| 1 | Display LED Strip |
| 2 | Top Display Assembly |
| 3 | Door Switch |
| 4 | Heater Breaker Seal (Bottom/Top) |
| 5 | LED Driver |
| 6 | Pilaster |
| 7 | Basket |
| 8 | Door Assembly (Right or Left Hand) |
| 9 | Pilaster Clip |
| 10 | Shelf |
| 11 | Interior Back Grill |
| 12 | Bottom Shelf |
| 13 | Torsion Pin |
| 14 | Rear Grill |
| 15 | Door Handle |
| 16 | Leveling Leg |
| 17 | Caster |
| 18 | Front Bottom Grill |
| 19 | Door Top Bracket (Right or Left) |
| 20 | Bushing, Nylon |
| 21 | Door Bottom Bracket (Right or Left) |
| 22 | not used |
| 23 | Evaporator Coil |
| 24 | Evaporator Tray |
| 25 | Evaporator Shroud |
| 26 | Evaporator Fan |
| 27 | Relay Potential (GDF-22) |
| 28 | Run Capacitor (GDF-22) |
| 29 | Start Capacitor (GDF-22) |
| 30 | Start Capacitor (GDF-13) |
| 31 | Overload Protector (GDF-13) |
| 32 | Start Relay (GDF-13) |
| 33 | Fan Blade (Condensing Unit) |
| 34 | Fan Motor (Condensing Unit) |
| 35 | Compressor |
| 36 | Filter Drier |

| No | Description |
|---|---|
| 37 | 5 Pole Terminal Block |
| 38 | Controller |
| 39 | Rocker Switch |
| 40 | Compressor Relay |
| 41 | Power Cord |
| 42 | Nylon Washer |
| 43 | Torsion Bar |
| 44 | Defrost Heater |
| 45 | Drain Tube Heater |
| 46 | Condenser Coil |
| 47 | Condensate Tray Assembly |
| 48 | Cabinet Anti-Condensate Heater |
| 49 | Pressure Relief Ball |
| 50 | Heater Breaker Seal (LED) |
| 51 | Cabinet LED Strip |
| 52 | Thermostat, Defrost Limit |
| 53 | Heater Breaker Door |



# ILLUSTRATION: GDF-13, GDF-22

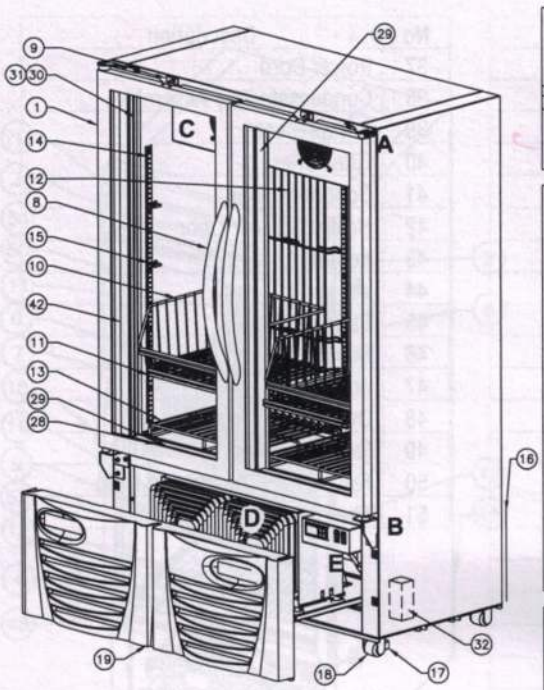


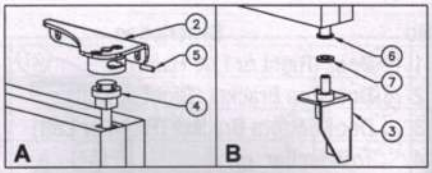
# PARTS LIST: GDF-15

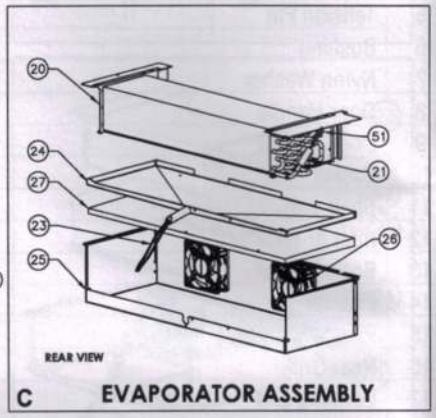
| No | Description |
|---|---|
| 1 | Door (Right or Left Hand) |
| 2 | Door Top Bracket (Right or Left) |
| 3 | Door Bottom Bracket (Right or Left) |
| 4 | Torsion Bar |
| 5 | Tension Pin |
| 6 | Bushing |
| 7 | Nylon Washer |
| 8 | Door Handle |
| 9 | Door Switch |
| 10 | Basket |
| 11 | Shelf |
| 12 | Interior Back Grill |
| 13 | Bottom Shelf |
| 14 | Pilaster |
| 15 | Pilaster Clip |
| 16 | Rear Grill |
| 17 | Leveling Leg |
| 18 | Caster |
| 19 | Front Bottom Grill |
| 20 | Evaporator Coil |
| 21 | Defrost Heater |
| 22 | not used |
| 23 | Drain Tube Heater |
| 24 | Evaporator Tray |
| 25 | Evaporator Shroud |
| 26 | Evaporator Fan |
| 27 | Evaporator Styrofoam Pad |
| 28 | Cabinet Anti-Condensate Heater |
| 29 | Heater Breaker Seal (Side and Bottom/Top) |
| 30 | Heater Breaker Seal (LED) |
| 31 | LED STRIP |
| 32 | LED Driver (Interior Light) |
| 33 | 3 Pole Terminal block |
| 34 | Controller |
| 35 | Rocker Switch |
| 36 | Compressor Relay |

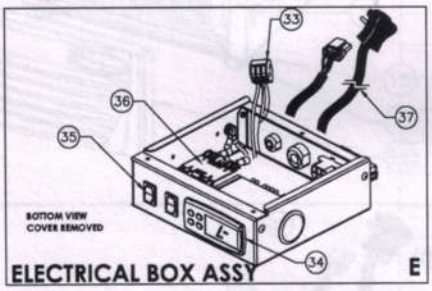
| No | Description |
|---|---|
| 37 | Power Cord |
| 38 | Condensate Tray Assembly |
| 39 | Compressor |
| 40 | Filter Drier |
| 41 | Condenser Coil |
| 42 | Heater Breaker Door |
| 43 | not used |
| 44 | not used |
| 45 | Start Relay |
| 46 | Start Capacitor |
| 47 | not used |
| 48 | Overload protector |
| 49 | Fan Blade (Condensing Unit) |
| 50 | Fan Motor (Condensing Unit) |
| 51 | Thermostat, Defrost Limit |

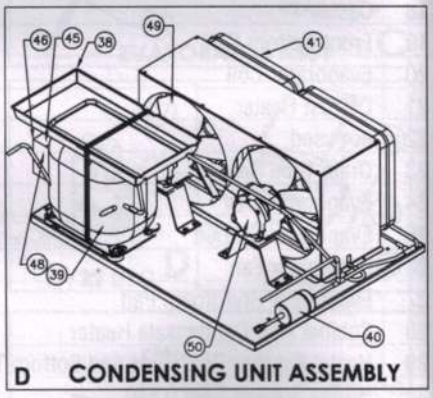
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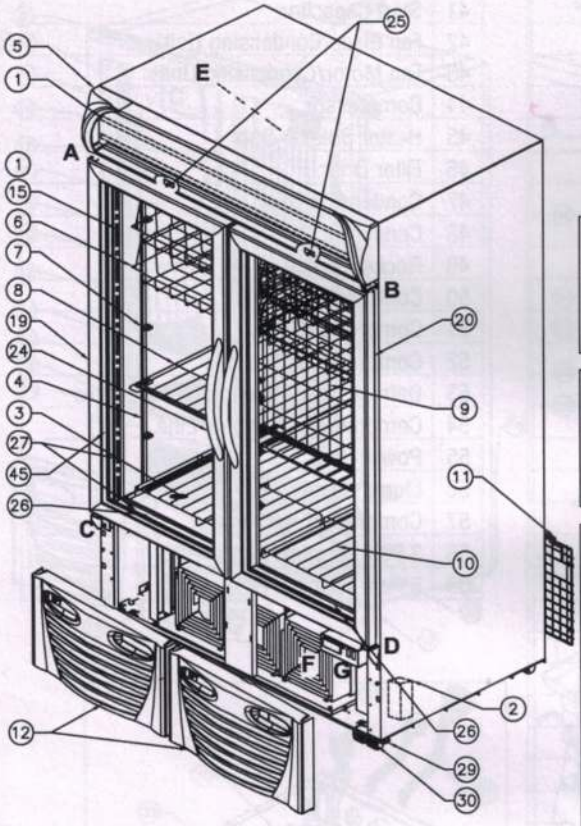



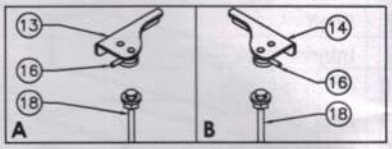
# PARTS LIST: GDF-43

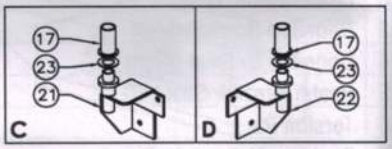
| No | Description |
|---|---|
| 1 | LED Strip |
| 2 | LED Driver |
| 3 | Pressure Relief Ball |
| 4 | Pilaster |
| 5 | Top Display Assembly |
| 6 | Basket |
| 7 | Pilaster Clip |
| 8 | Shelf |
| 9 | Interior Back Grill |
| 10 | Bottom Shelf |
| 11 | Rear Grill |
| 12 | Front Bottom Grill |
| 13 | Door Top Bracket (Left) |
| 14 | Door Top Bracket (Right) |
| 15 | Heater Breaker Seal LED |
| 16 | Torsion Pin |
| 17 | Bushing, Nylon (c/w Door) |
| 18 | Torsion Bar (c/w Door) |
| 19 | Door Assembly (Left) |
| 20 | Door Assembly (Right) |
| 21 | Door Bottom Bracket (Left) |
| 22 | Door Bottom Bracket (Right) |
| 23 | Nylon Washer |
| 24 | Door Handle |
| 25 | Door Switch |
| 26 | Cabinet Anti-Condensate Heater |
| 27 | Heater Breaker Seal (Bottom/Top) |
| 28 | Discharge Header |
| 29 | Leveling Leg |
| 30 | Caster |
| 31 | Evaporator Coil |
| 32 | Not Used |
| 33 | Defrost Heater |
| 34 | Evaporator Tray |
| 35 | Evaporator Styrofoam Pad |
| 36 | Drain Tube Heater |
| 37 | Evaporator Shroud |
| 38 | Evaporator Fan |
| 39 | Relay Potential |
| 40 | Run Capacitor |

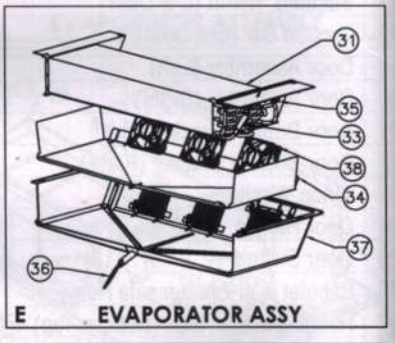
| No | Description |
|---|---|
| 41 | Start Capacitor |
| 42 | Fan Blade(Condensing Unit) |
| 43 | Fan Motor(Condensing Unit) |
| 44 | Compressor |
| 45 | Heater Breaker Door |
| 46 | Filter Drier |
| 47 | Condensate Tray |
| 48 | Condenser Coil |
| 49 | Rocker Switch |
| 50 | Controller |
| 51 | Compressor Relay |
| 52 | Compressor Contactor |
| 53 | Defrost Heater/Evaporator Fan Wires |
| 54 | Compressor Discharge Line |
| 55 | Power Cord |
| 56 | Liquid Header |
| 57 | Compressor Harness |
| 58 | 3 Pole Terminal Block |
| 59 | 5 Pole Terminal Block |

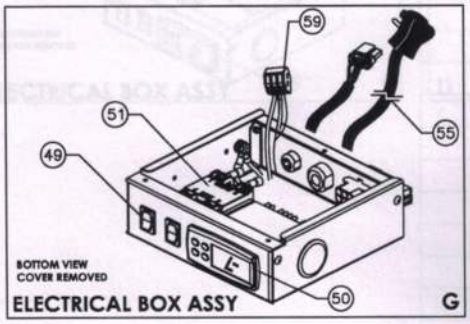
# ILLUSTRATION: GDF-43

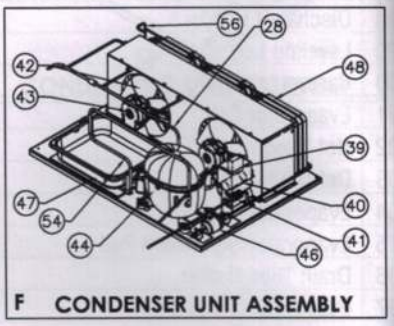


# WIRING DIAGRAM

