



Installation, Operation and Troubleshooting Instructions Reach-In Refrigerator and Freezer Cabinets

For Models:

VR-1, VR-2, VR-3
VF-1, VF-2, VF-3

RS-1D-S7, RS-2D-S7, RS-3D-S7
FS-1D-S7, FS-2D-S7, FS-3D-S7



Manual Part No. 50707403

Rev. 00

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THANK YOU

Thank you for purchasing a Victory Refrigeration Reach-In Refrigerator Cabinet! This unit has passed our strict Quality Control Inspection and meets the high standards set by Victory Refrigeration. You have made a quality investment that with proper maintenance will give you years of service.

Please read the following installation and maintenance instructions before installing or using your unit. If you have any questions, please call our Customer Service Department at (856) 428-4200.

IMPORTANT INFORMATION - PLEASE READ

- * Please read these instructions carefully before installing or using. If recommended procedures are not followed, warranty claims will be denied.
- * Your Warranty Registration information is located on the next page of this manual. Please complete the card and submit it to Victory Refrigeration within 10 days of installation. Failure to properly register equipment can void the warranty.
- * Victory Refrigeration reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.
- * A detailed Owners Manual with a troubleshooting guide, parts lists and additional information can be ordered from the factory or may be downloaded free from the website at www.victory-refrig.com.

LIMITED WARRANTY

(Continental USA Only)

The Seller warrants to the original purchaser, equipment manufactured by Seller to be free from defects in material and workmanship for which it is responsible. The Seller's obligation under this warranty shall be limited to replacing or repairing at Seller's option, without charge, F.O.B. Seller's factory, any part found to be defective and any labor and material expense incurred by Seller in repairing or replacing such part, such warranty to be limited to a period of twelve (12) months from the date of installation, provided, however, installation occurs within six months of date of purchase and equipment is in normal use and service and is installed in accordance with manufacturer's recommendations and provided terms of payment have been fully met. All labor shall be performed during regular working hours. Overtime premium charges will be at Buyer's expense.

Proof of purchase must be supplied to Seller to validate warranty. This warranty is valid only if equipment is properly installed, started-up and inspected by the dealer or authorized Victory Service agent.

Removal or alteration of the serial/data plate from any equipment shall be deemed to release Seller from all warranty obligations or any other obligations, expressed or implied.

This warranty does not cover Thermostat or Defrost Timer calibration and/or adjustment, freight damage, normal maintenance items outlined in Owner's Manual, adjustment of door mechanisms or replacement of light bulbs, fuses or batteries. The warranty does not cover installation, start-up, normal maintenance, food loss, or other consequential damage.

Any repairs or replacement of defective parts shall be performed by Seller's authorized service personnel. Seller shall not be responsible for any costs incurred if the work is performed by other than Seller's authorized service personnel. Reimbursement claims for part(s) or labor service costs must be made in writing. Model, cabinet serial numbers and installation location must be shown on the claim. A receipted bill from the servicing agency must accompany the claim, together with full details of the service problems, diagnosis and work performed. Victory reserves sole discretion whether further documentation on a claim is to be submitted.

Seller shall not be liable for consequential damages of any kind which occur during the course of installation of equipment, or which result from the use or misuse by Buyer, its employees or others of the equipment supplied hereunder, and Buyer's sole and exclusive remedy against Seller for any breach of the foregoing warranty or otherwise shall be for the repair or replacement of the equipment or parts thereof affected by such breach.

The foregoing warranty shall be valid and binding upon Seller if and only if Buyer loads, operates and maintains the equipment supplied hereunder in accordance with the instruction manual provided to Buyer. Seller does not guarantee the process of manufacture by Buyer or the quality of product to be produced by the equipment supplied hereunder and Seller shall not be liable for any prospective or lost product or profits of Buyer.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER. SPECIFICALLY THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

The foregoing shall be Seller's sole and exclusive obligation and Buyer's sole and exclusive remedy for any action, whether in breach of contract or negligence. In no event shall Seller be liable for a sum in excess of the purchase price of the item.

You may register online at www.victory-refrig.com, fax this completed page to (856) 673-0038, or copy and mail form below to Victory.

NOTE: The following mail-in form or online registration must be filled out and forwarded to Victory by the installer or customer within 10 days after start-up. Failure to do this will invalidate the warranties. Retain this information for your records.



110 WOODCREST ROAD
CHERRY HILL, NJ 08003-3648
TEL: (856) 428-4200 : FAX: (856) 673-0038

Cabinet Model No. _____

Cabinet Serial No. _____

(Data plate information located inside cooler on the upper left wall)

**WARRANTIES NOT VALID UNLESS REGISTERED AT
FACTORY WITHIN 10 DAYS AFTER START-UP DATE.**

ORIGINAL DATE OF INSTALLATION _____

CUSTOMER/END USER NAME _____ PHONE _____

STREET _____ CITY _____ STATE _____ ZIP CODE _____

DEALER'S NAME _____ PHONE _____

STREET _____ CITY _____ STATE _____ ZIP CODE _____

INSTALLATION INSTRUCTIONS

Proper installation is the first step to operation. We recommend that your refrigerator or freezer be installed by an authorized Victory Certified Installer.

Receiving Shipment

All units are performance tested and thoroughly inspected prior to shipment. Upon leaving the factory, all units are in perfect condition. Upon receipt, examine the exterior of the shipment packaging for any signs of rough handling. If the cabinet is damaged, it should be noted on the delivery slip or bill of lading and signed. A claim must be filed immediately against the carrier indicating the extent and estimated cost of damage incurred.

Uncrating

***Tools Needed:** 3/4" Box Wrench 1 Adjustable Wrench 1 Level*

WARNING: Never lay your refrigerator or freezer down on either its back, front or sides. This allows compressor oil into the refrigerant lines which can damage the compressor at start-up. If the unit is laid down, it must be set upright for a minimum of 12 hours before starting the compressor. Failure to adhere to the above recommendation will void the warranty.

1. Split plastic wrap along one of the cardboard posts. Remove and discard all packaging material, tape and interior components.
2. Move cabinet as close to final location as possible before removing skid.
3. Remove the shipping skid by tipping the cabinet forward. Remove the shipping bolts with 3/4" box wrench while the cabinet is held in one direction. Repeat this procedure while the cabinet is held in the opposite direction.
4. Use extreme caution when removing the wooden skid, especially when the last bolt is removed. If not properly blocked, the skid will fall to the floor.

Locating Your New Storage Refrigerator or Freezer

Consider the following when selecting a location for your refrigerator or freezer:

1. **Clearance** - There must be a minimum clearance of 10" between the top of the refrigerator or freezer and the ceiling.
2. **Floor Load** - The floor on which the cabinet will rest must be free of vibration and suitably strong enough to support the combined weights of the cabinet plus the maximum product load.
3. **Ventilation** - The air cooled, self-contained refrigerator or freezer requires a sufficient amount of cool, clean air. Avoid placing the refrigerator near heat generating equipment

such as ovens, ranges, heaters, fryers, steam kettles, etc., and out of direct sunlight. Avoid locating the self-contained refrigerator in an unheated room, or where the room temperature may be below 55°F.

Installing Casters or Legs

Refrigerators and freezers are shipped with 1/2" single stud mounted legs or casters.

1. Casters / legs must be screwed by hand into the threaded holes located on the case bottom (**Note: Once the caster cannot be turned, take a 3/4" box wrench and tighten the nut in between the mounting plate and wheel of the caster until it is snug*).
2. Tilt the cabinet in one direction approximately eight inches and block it securely with several pieces of 2 x 4 lumber or other suitable material.
3. Screw in the two left or right casters/legs.
4. Repeat this procedure to install the other casters/legs.

Leveling

Cabinets must be leveled when installed. Failure to level your cabinet may result in doors not sealing, closing properly or condensate water not draining properly.

Casters - Cabinets with casters can be leveled by placing large flat washers in between 1/2" stud and holes located on the case bottom.

Legs - Rotate the foot of the leg with an adjustable wrench to achieve desired height for leveling.

Cabinet Cleaning

Prior to placing your new refrigerator/freezer and all shelves, pans and slides into operation, it is advisable that the interior be washed thoroughly with a mild detergent and water solution. Rinse with clear water and a sanitizing solution. Allow cabinet to air dry.

Installing Shelves

All cabinets with shelves are supplied with pilasters and shelf clip supports. Shelves are easily installed by inserting the shelf support clips into the pilasters so they fit tightly. Align the shelf so the smaller fill wires run from front to rear and rest the shelf on the clips.

Electric Supply

Wiring should be done by a qualified electrician in accordance with local electrical codes.

A separate ground wire must be supplied for all installations. A properly wired refrigerator or freezer will assure proper operation. Electrical supply requirements are on the cabinet serial/data plate. It is recommended that a direct, properly protected line of the proper size wire be installed from the main supply to your refrigerator or freezer. To assure that the correct voltage is being supplied, while the refrigerator or freezer is in operation take a voltage reading at the motor-compressor electrical connections, or as close to the motor-compressor as possible.

All refrigerator or freezer electrical systems are internally grounded.

Temperature Control

Temperature control should be set to maintain a temperature of 38°F (3.3°C) to 40°F (4.4°C) for refrigerators, and 0°F (-17°C) to -5°F (-20.5°C) for freezers.

Installation Checklist

After the cabinet has been installed, leveled and cleaned as described, refer to the following checklist prior to start-up.

- Check for proper electrical hook-up.
- Check exposed refrigeration line connections for leaks. Make sure refrigeration lines are not dented, kinked or rubbing.
- Check condenser fan for freedom to rotate without striking any stationary members.
- Check that cabinet is level.

Product Load

After the refrigerator or freezer has been started and reaches the proper storage temperatures, food may be loaded. For optimum energy efficiency, we recommend allowing a 1-1/2" clearance between the interior cabinet wall and product load.

COMMON REPLACEMENT PARTS

Part No.	Description	Quantity
50903601	Heat Exchanger Assembly 1 Section Refrigerator	1 per cabinet
50903901	Heat Exchanger Assembly 2 Section Refrigerator	1 per cabinet
50904001	Heat Exchanger Assembly 3 Section Refrigerator	1 per cabinet
50903701	Heat Exchanger Assembly 1 Section Freezer	1 per cabinet
50903801	Heat Exchanger Assembly 2 Section Freezer	1 per cabinet
10738601	Heat Exchanger Assembly 3 Section Freezer	1 per cabinet
50632101	Electronic Control, Refrigerator	1 per cabinet
50632102	Electronic Control, Freezer	1 per cabinet
50632301	Display, Blue, W/O Buttons	1 per cabinet
50632201	Temperature Sensor Cable 3 Pole 3 Ft.	1 per cabinet
50632203	Defrost Sensor Cable, 2 Pole 3 Ft.	1 per cabinet
50632303	Display Cable, 59"	1 per cabinet
50632304	Electronic Temperature Control Knob	1 per cabinet
50180701	Accumulator (1 Section Refrigerator & Freezer)	1 per cabinet
50293701	Accumulator (2 & 3 Section Refrigerator & Freezer)	1 per cabinet
50599402	Defrost Heater Safety Switch	1 per cabinet (freezer only)
50909501	Defrost Heater 1 Section Freezer 115V 300W	1 per cabinet (freezer only)
50909601	Defrost Heater 2 & 3 Section Freezer 115V 600W	1 per cabinet (freezer only)
50617102	Evaporator Coil, 84E10 (1 Section Refrigerator)	1 per cabinet
50616802	Evaporator Coil, 84E21 (2 Section Refrigerator)	1 per cabinet
50616802	Evaporator Coil, 84E21 (3 Section Refrigerator)	1 per cabinet
50617203	Evaporator Coil, 86E10 (1 Section Freezer)	1 per cabinet
50616902	Evaporator Coil, 86E21 (2 Section Freezer)	1 per cabinet
50616902	Evaporator Coil, 86E21 (3 Section Freezer)	1 per cabinet
50639401	Evaporator Fan Motor	1 per single section, 2 or 3 per two section
50910501	Drier, Filter	1 per cabinet
50879501	Door Gasket, Long Door	1 per door
50879502	Door Gasket, Half Door	1 per door
50520102	Hinge Barrel	2 per door
50520103	Hinge Base	2 per door
50520104	Hinge Shim	2 per door
50520105	Hinge Cover	2 per door
50520106	Hinge Cam	2 per door
10516501	Hinge Switch Ass'y, Door	1 per door
50110001	Lens, Interior	1 per cabinet

PERIODIC MAINTENANCE

Cabinet Cleaning

Victory Refrigeration recommends periodic internal and exterior cleaning as outlined below.

Daily Exterior Cleaning

1. Clean surface with a sponge and cleaning solution. Use a non-abrasive cleaner that does not contain chlorine.
2. Polish with a soft cloth, wiping with the grain of the metal.
3. Once a week wipe with a film cutting agent to maintain shine.

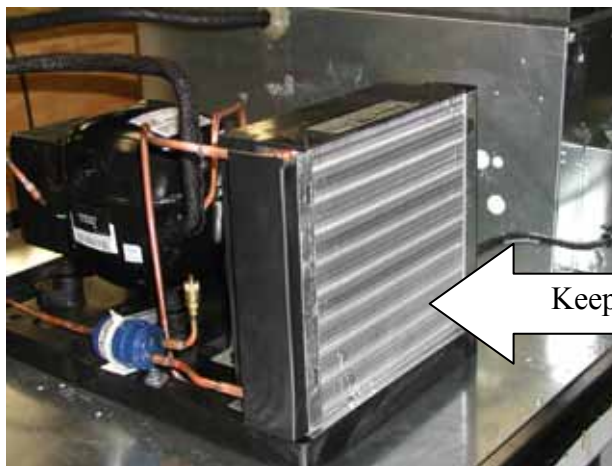
Weekly Interior Cleaning

1. Remove all food, food related items and shelves.
2. Turn the unit off.
3. Remove loose food particles from interior floors, walls and ceiling.
4. Scrub all interior surfaces with warm detergent solution 100 °F - 120°F (38°C - 39°C) and a nylon bristled brush.
5. Rinse with clear water and allow to air dry.
6. Reinstall shelves.
7. Return power (electrical) to unit by resetting circuit breaker.
8. Return food to cabinet when temperature indicator reaches safety zone.

Condenser Maintenance

To keep your cabinet running efficiently, it is recommended that you clean the condenser once every three months. However, once a month is recommended if the unit is located near cooking equipment which produces grease laden vapors, i.e. fryers, grills, steam kettles, etc.

1. Disconnect power by switching circuit breaker to "OFF" position.
2. Remove the front grill by removing the two (2) screws on the inside of the grill at each end, then lift the panel up and straight out.
3. Use a vacuum cleaner with proper brush attachments to clean the condenser, motor-compressor and related parts.
4. In extreme cases of dust and grease buildup, the condenser fins may require blowing out with compressed air or cleaning with a degreasing agent.
5. Turn circuit breaker to "ON" position.



WARNING: Failure to keep condenser clean may cause premature failure of motor-compressor which will NOT be covered by warranty.

Lubrication

Unless otherwise specified, all Victory refrigerators are equipped with oilless type motors. The motor-compressor is a sealed unit and is constantly lubricated when in operation. The condenser and the evaporator motors are equipped with lifetime oiled bearings which never need to be oiled.

Installing Replacement Door Gasket (if required)

Removing

Beginning at one corner, pry gasket loose from the retaining strip. Peel remainder of gasket from the door and discard.

Replacing

Before replacing, be sure the gasket and door are at room temperature. (If necessary, soak the gasket in warm water to make it more pliable.) Align new gasket frame on the door retainer strip. Starting at one corner, press each corner of the gasket into the retainer strip. Once started, the gasket can be easily inserted around the entire perimeter of the door by simply press rolling into place.

**“Door Gasket &
Retainer Strip”**



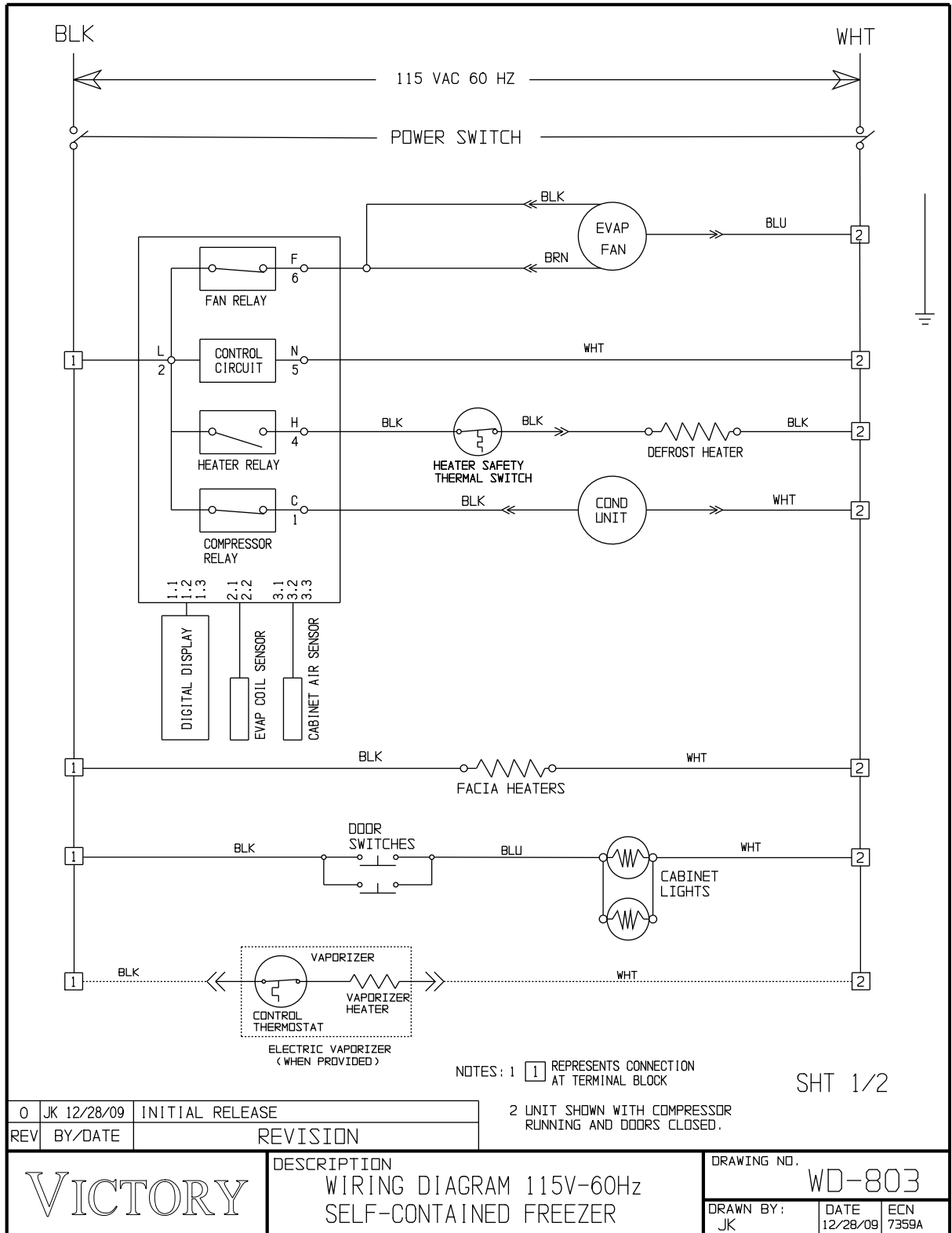
BEFORE CALLING SERVICE GUIDE FOR COMMON PROBLEMS

Caution: Disconnect Power Supply Prior To Attempting Any Service!

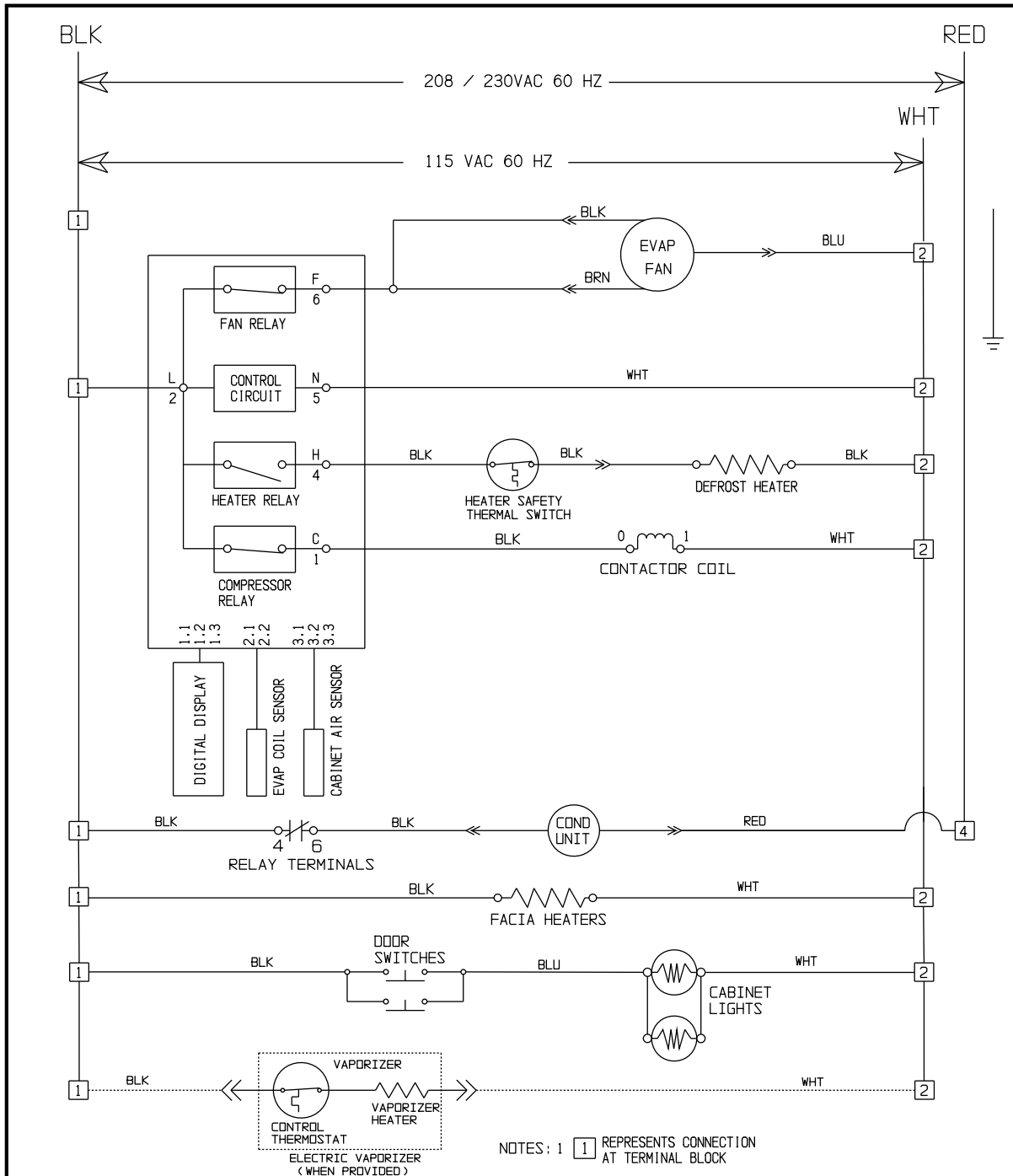
PROBLEM	POSSIBLE CAUSE	REMEDY
Cabinet not running	Fuse blown or circuit breaker tripped	Replace fuse or reset circuit breaker
	Power cord unplugged	Plug in power cord
	Main power switch turned off	Turn power switch on
	Improper voltage supplied to cabinet(voltage does not match Data-Plate)	Correct supply voltage (remove extension cords or other equipment on circuit, etc.
	Thermostat set too high	Set thermostat to lower temperature
	Cabinet in defrost cycle (Freezer models)	Allow defrost cycle to finish
Condensing Unit on Refrigerator or Freezer runs for prolonged period or continuously	Excessive amount of warm product loaded in cabinet	Allow adequate time for product to cool down
	No product in cabinet	Load cabinet with product
	Prolonged door opening or door ajar	Make sure door is closed when not in use. Avoid prolonged door openings
	Door gasket not sealing properly	Check door gasket condition. Adjust door or replace gasket
	Dirty condenser coil	Clean the condenser coil
	Improper air flow around Condensing Unit Evaporator coil blocked with ice	Insure adequate air space, relocate away from heat generating equipment, direct sunlight, or direct path of air conditioning or heating ducts
	Evaporator coil blocked with ice	Turn unit off and allow coil to defrost. Make sure thermostat is not set too cold and that door gasket is sealing properly
Refrigerator or Freezer cabinet temperature too high	Thermostat set too high	Set thermostat to lower temperature
	Poor air circulation in cabinet	Re-arrange product to allow proper air circulation
	Excessive amount of warm product loaded in cabinet	Allow adequate time for product to cool down
	Prolonged door opening or door ajar Dirty condenser coil	Make sure door is closed when not in use. Avoid prolonged door openings
	Dirty condenser coil	Clean the condenser coil
	Insufficient clearance around cabinet or excessively high ambient temperature	Insure adequate air space, relocate away from heat generating equipment (ovens, fryers, heating ducts, etc.), and out of direct sunlight
	Evaporator coil blocked with ice	Turn unit off and allow coil to defrost. Make sure thermostat is not set too cold and that door gasket is sealing properly
Cabinet is Noisy	Part(s) loose	Locate and tighten loose part(s)
	Tubing Vibrating	Insure tubing is free from contact with other tubing or components
Refrigerator is freezing product	Thermostat set too low	Set thermostat to higher temperature
	Cabinet overloaded with product	Remove or re-arrange product
Refrigerator or Freezer Compressor will not start - hums and trips on overload protector	Dirty condenser coil	Clean the condenser coil
	Excessive heat generated from nearby equipment	Relocate cabinet or adjust heat generating equipment
	Voltage to cabinet too high or too low	Check and correct supply voltage
Door won't close tight	Cabinet is not level	Level cabinet by adjusting legs or shimming casters
	Door is not seated properly in hinge	Adjust door hinges by lifting slightly or rotating and re-seating
Digital Thermometer displaying alarm code	E1: Sensor 1 defect	Call Factory
	E4: Compressor fault	Call Factory
	E5: Heater fault	Call Factory
	E6: Pot fault	Call Factory
	Ulo: Supply Voltage low	Check Supply Voltage
	Uhi: Supply Voltage high	Check Supply Voltage
	Hi: High Temperature Alarm	See Refrigerator or Freezer cabinet temperature too high Above
	Lo: Low Temperature Alarm	See "Refrigerator is freezing product" Above
E13: Communication error	Call Factory	

NOTES

1 & 2 SECTION FREEZER



3 SECTION FREEZER



NOTES: 1 [1] REPRESENTS CONNECTION AT TERMINAL BLOCK

2 UNIT SHOWN WITH COMPRESSOR RUNNING AND DOORS CLOSED.

SHT 1/2

0	JK 12/28/09	INITIAL RELEASE
REV	BY/DATE	REVISION

VICTORY

DESCRIPTION
WIRING DIAGRAM 115V/208-230V-60Hz
SELF-CONTAINED FREEZER

DRAWING NO. **WD-804**

DRAWN BY: JK	DATE 12/28/09	ECN 7359A
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