1 Introduction

This product is a complete packaged unit ready to operate when plugged into an electrical source. It is not necessary to have a refrigeration serviceman set the unit in operation. The unit has been tested prior to shipment. Read all the instructions before proceeding with installation.

2 Inspection for Damage

Uncrate the product and remove all packing and crating materials. Inspect the product and parts thoroughly for damage or missing parts. File all claims for damage with the transportation company immediately. Do not file claims with the manufacturer.

3 Installation Instruction

- 1. The cabinet will pass through a standard 30" door opening.
- Inspect the interior, exterior and mechanical equipment for special instruction tags fastened at various points.
- 3. Move the cabinet into the desired location. Make sure the bottom of the cabinet is evenly supported. Thin shims under the points of rest can be used to equalize the distribution of weight. If the cabinet sets on an uneven floor, a slight rocking or vibration might result when the condensing unit is set in operation.
- Make certain the cabinet is located so the grill is unobstructed.
- 5. An automatic condensate evaporator eliminates the necessity for a floor drain. For proper elimination of condensation, wafers should be placed in the condensate tray located in the rear of the mechanical compartment in accordance with instructions packed with wafers.
- The condensing unit is shipped with all service valves open and ready for operation. Do not adjust the refrigerant valves or the temperature control.
- Use of electrical characteristics, other than those specified on the serial plate will cause permanent damage to the mechanism.
- Operate the unit for several hours to allow the cabinet to reach normal operating temperatures before storing product.

4 Maintenance Instructions

- Frequent cleaning of the interior and exterior with water and a good fungicidal detergent that eliminates harmful bacteria, stains and other foreign matter will keep the unit fresh and new looking.
- Shelves and/or drawers should be removed from the cabinet and thoroughly scrubbed. Clean door gasket periodically.

- 3. The unit cooler fan operates continuously when the door is closed and requires no lubrication. These models require no manual defrosting. The cooling coil automatically defrosts when the condensing unit is on the off cycle.
- 4. The condensing unit needs no oil or other lubrication. The finned condenser can become clogged with lint or dust. The openings between the fins should be kept clean. A vacuum cleaner or small test tube brush works well for this purpose. This should be accomplished on an annual basis. Failure to keep the condenser fins free of dirt and lint will result in erratic operation and may damage the refrigeration system.
- Annual inspection of the mechanical refrigeration equipment by a qualified serviceman is recommended. A qualified mechanic can frequently make adjustments that will prevent future breakdown.
- 6. The refrigeration system is charged with refrigerant. If the system is opened for any reason, extreme care should be taken to prevent the entry of moisture-bearing air. A new drier should be installed in the lines when the system is closed.

5 Operating Instructions

Defrosting Instructions

This model requires manual defrosting periodically. For the best performance, defrost the freezer when the ice around the walls reaches a thickness of approximately 1/4".

The refrigeration system must be left in operation during defrosting. Remove the contents and store them in another unit with similar operating temperatures. Remove grille from condensing unit compartment. Locate the "Hot Gas Defrost Valve." An identification tag has been placed on the valve at the factory and should not be removed. Open valve fully. When the walls are free of frost, clean interior as per items #1 and #2 of the maintenance instructions. Close valve fully. When the freezer reaches the proper temperature, the contents can be placed back into the freezer.

6 Installation and Removal of Drawers

The drawer slides in BBR6 models are pre-installed at the factory.

Installation

- 1. Slide each drawer into the slides mounted on the side walls.
- Align slot on lever with the tabs on the drawer slide. Lift lever to lock in place.

Removal

- 1. Push down level to unlock drawer from the drawer slides.
- 2. Pull clear of slides.

TROUBLESHOOTING SERVICE CHART

	SYMPTOM	POSSIBLE CAUSE	POSSIBLE CORRECTIVE STEP
	Compressor	1. Line disconnect switch open.	1. Close disconnect switch
A	will not start, no hum	2. Fuse blown or breaker tripped.	2. Check electrical circuits and motor windings for shorts or grounds. Investigate for possible overloading. Replace fuse or reset breaker after fault is corrected.
		3. Thermal overload tripped.	 Overloads are automatically reset. Checunit closely when compressor comes back o line.
		4. No cooling required	4. None. Wait until control calls for cooling
		5. Control contacts stuck in open position.	5. Replace control.
		6. Loose wiring.	6. Check all wiring junctions, tighten all terminal screws.
		7. Improper wiring	7. Check wiring against diagram.
		8. Liquid line solenoid valve will not open.	8. Repair or replace solenoid coil
		9. Motor electrical trouble.	9. Check motor for open windings, Short circuit or burn out.
		10. Liquid line solenoid will not open.	10. Repair or replace coil.
	Compressor	1. Low voltage to unit.	1. Determine reason and correct.
B	will not start, hums but trips on thermal overload.	2. Start capacitor failure or wrong.	2. Replace start capacitor.
		3. Run capacitor failure or wrong.	3. Replace run capacitor.
		4. Start relay failure or wrong.	4. Replace start relay.
		5. Motor electrical trouble.	5. Check motor for open windings, Short circuit or burn out.
		6. Internal mechanical trouble in compressor.	6. Replace compressor.
		7. Improper wiring	7. Check wiring against diagram.
		8. Excessively high discharge pressure.	8. See high discharge pressure symptom.
:eun	Compressor starts, but does not switch off of start winding.	1. Low voltage to unit.	1. Determine reason and correct.
C		2. Run capacitor failure or wrong.	2. Replace run capacitor.
		3. Start capacitor failure or wrong.	3. Replace start capacitor.
		4. Start relay failure or wrong.	4. Replace start relay.
		5. Motor electrical trouble.	5. Check motor for open windings, Short circuit or burn out.
		6. Internal mechanical trouble in compressor.	6. Replace compressor.
		7. Improper wiring.	7. Check wiring against diagram.
		8. Excessively high discharge pressure.	8. See high discharge pressure symptom.

	TROUBLESHOOTING SERVICE CHART					
	SYMPTOM	POSSIBLE CAUSE	POSSIBLE CORRECTIVE STEP			
D	Compressor starts and runs, but short cycles on overload protector.	Excessively high discharge pressure. Low voltage to unit.	See high discharge pressure symptom. Determine reason and correct.			
U		High voltage to unit. Thermal overload protector defective.	Determine reason and correct. Check current, Replace protector.			
		S. Run capacitor failure or wrong. Motor electrical trouble.	Replace run capacitor. Check motor for open windings, Short circuit or burn out.			
		7. Improper wiring causing additional current to pass through overload protector.	7. Check wiring diagram. Check for added fan motors, heaters, etc., connected to wrong side of protector.			
1977/19	Compressor	1. Differential set too close.	1. Widen differential.			
E	starts and	2. High discharge pressure.	2. See high discharge pressure symptom.			
	runs, but short cycles on temperature or pressure controls.	3. Low discharge pressure.	1. See low discharge pressure symptom.			
	Compressor runs long or continuously.	1. Shortage of refrigerant.	1. Leak check and repair.			
F		2. Control contacts stuck or frozen.	2. Clean contacts or replace control.			
		3. Refrigerated air space has an excessive load.	3. Determine reason and correct.			
		4. Dirty Condenser	4. Clean condenser.			
		5. Evaporator coil iced.	5. Defrost and check defrost circuit.			
		6. Restriction in refrigeration system.	6. Determine location and remove.			
		7. Evaporator fan motors not running.	7. Determine reason and correct. Check door switch.			
G	Compressor noisy or vibrating.	Flooding of refrigerant into crankcase.	Check expansion device and refrigerant charge.			
U		Improper piping support.	2. Relocate tubing or add hangers.			
		3. Worn compressor.	3. Replace compressor.			
		4. Loose parts or mounting.	4. Find and tighten.			
		5. Condenser fan blade loose or impeded.	5. Check and repair.			
1000 to 100	High Discharge pressure.	1. Non-condensables in system.	1. Remove the non-condesables.			
H		System overcharged with refrigerant.	2. Correct the charge.			
		3. Discharge shutoff valve partially closed.	3. Open valve.			
		4. Condenser fans not running.	4. Check electrical circuit.			
		5. Dirty condenser.	5. Clean.			
	Low discharge pressure.	Suction shutoff valve partially closed.	1. open valve.			
		Insufficient refrigerant in system. Low suction pressure.	 Check for leaks. Repair and add charge. See low suction pressure symptom. 			
		J				

	SYMPTOM	POSSIBLE CAUSE	POSSIBLE CORRECTIVE STEP
	High suction	1. Excessive load.	1. Reduce load or add additional equipment
J	pressure.	2. Expansion valve overfeeding.	2. Check remote bulb. Adjust superheat.
K	Low suction pressure.	Insufficient refrigerant in system.	1. Check for leaks. Repair and add charge.
		Restriction in refrigeration system. Most notably the liquid line filter drier or capillary.	2. Determine location and remove.
		3. Expansion valve malfunctioning.	3. Check and reset for proper superheat.
L	Suction line frosted or sweating.	Expansion valve passing excess refrigerant or is oversized.	Readjust valve or replace with smaller valve.
		2. Expansion valve stuck open.	Clean valve of foreign particles, and replace if necessary.
		3. Evaporator fan motors not running.	3. Determine reason and correct. Check door switch.
		System overcharged with refrigerant.	4. Correct the charge.
	Liquid line	1. Restriction in liquid line filter drier.	1. Determine location and remove.
M	frosted or sweating	2. Liquid line shutoff valve partially closed.	2. Open valve.
	Ice accumulating on ceiling around evaporator and/or on fan guards or blades.	1. Defrost duration too long.	1.Adjust defrost termination.
N		2. Fan delay not delaying fans after defrost period.	2. Defective fan delay thermostat. Replace
		3. Defective timer.	3. Replace.
		4. Too many defrost cycles per day.	4. Adjust timer for less defrost cycles.
^	Evaporator coil not clearing of frost during defrost cycle.	Coil temperature not getting above freezing point during defrost.	1. Check heater operation, or hot gas solenoid valve.
U		2. Not enough defrost cycles per day.	2. Adjust timer for more defrost cycles.
		3. Defrost cycle too short.	3. Adjust timer for longer defrost cycle.
		4. Poor door seal.	4. Adjust door latch, install new gasket.
		Defective timer or defrost thermostat.	5. Replace defective component.
	Ice accumulating in drain pan.	1. Defective heater.	1. Replace heater.
P		2.Unit not pitched properly.	2. Check and adjust if necessary.
(Edi		3. Drain line plugged.	3. Clean drain line.
		4. Defective drain line heater.	4. Replace heater.
		5. Poor contact between drain pan and heater element.	5. Repair.
		6. Defective timer or defrost thermostat.	6. Replace defective component.

NOTE: Jewett Refrigerators and Freezers are designed to operate in areas that are heated to 60° F (15.6° C). Installation in unheated areas may require a low temperature compressor protection kit for satisfactory operation.