E2197
R134A

SNR-48SS-2, SNR-59SS-2, SNR-77SS-2

Self-Contained & Remote Models

INSTALLATION & OPERATION INSTRUCTIONS

KEEP THIS MANUAL FOR FUTURE REFERENCE

Engineering and technical data are subject to change without notice.

FEDERAL INDUSTRIES
Toll Free 1(800) 356-4206

P.O. Box 290
WI Phone (608) 424-3331

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Contents

INTRODUCTION

Thank you for purchasing a Federal Industries display case. This manual contains important instructions for installing and servicing the Series '90 Refrigerated Self-Serve Display Cases. A repair parts list and wiring diagram are also included in the manual. Read all of these documents carefully before installing or servicing your case.

NOTICE

Read this manual before installing your case. Keep this manual and refer to it before doing any service on the equipment. Failure to do so could result in personal injury or damage to the case.

NOTICE

Installation and service of the electrical components in the case must be performed by a licensed electrician.

The portions of this manual covering electrical components contain technical instructions intended only for persons qualified to perform electrical work.

DANGER

Improper or faulty hookup of electrical components in the case can result in severe injury or death.

All electrical wiring hookups must be done in accordance with all applicable local, regional, or national standards.

Serial Number

Record the model and serial numbers of the case for easy reference. Always refer to both model and serial numbers in your correspondence regarding the case.

Case Model _____ Serial Number _____
Condensing Unit Model _____ Serial Number _____

This manual cannot cover every installation, use, or service situation. If you need additional information, call or write us:

CUSTOMER SERVICE DEPARTMENT
Federal Industries
215 Federal Avenue
Belleville WI 53508
Toll Free (800) 356-4206 / WI Phone (608) 424-3331

WARNING LABELS & SAFETY INSTRUCTIONS

This is the safety-alert symbol. When you see this symbol on your case or in the manual, be alert to the potential for personal injury or damage to your equipment.

Be sure you understand all safety messages and always follow recommended precautions and safe operating practices.

Notice to Employers

You must make sure that everyone who installs, uses, or services your case is thoroughly familiar with all safety information and procedures.

Important safety information is presented in this section and throughout the manual. The following signal words are used in the warnings and safety messages:

DANGER: Severe injury or death **will** occur if you ignore the message.

WARNING: Severe injury or death **can** occur if you ignore the message.

CAUTION: Minor injury or damage to your case **can** occur if you ignore the message.

NOTICE: This is important installation, operation, or service information. If you ignore the message, you may damage your case.

The warning and safety labels shown throughout this manual are placed on your Federal Industries case at the factory. Follow all warning label instructions. If any warning or safety labels become lost or damaged, call our customer service department at 1(800)356-4206 for replacements.

DANGER
HIGH VOLTAGE. Turn power off before servicing. May have more than one disconnect switch.

This label is located on the back of the display case.

CAUTION
HAZARDOUS MOVING PARTS. DO NOT OPERATE UNIT WITH DISPLAY PANS REMOVED.

This label is located below the display pan.

⚠ CAUTION

Floor surface around case may become slippery.

Excess condensation can occur and run onto the floor if case is operated in an environment above recommended temperature and humidity levels.

Case is designed to operate in an environment not to exceed 75°F.

PRE-INSTALLATION PROCEDURES

Inspection for Shipping Damage

You are responsible for filing all freight claims with the delivering truck line. Inspect all cartons and crates for damage as soon as they arrive. If damage is noted to shipping crates or cartons or if a shortage is found, note this on the bill of lading (all copies) prior to signing.

If damage is discovered when the case is uncrated, immediately call the delivering truck line and follow up the call with a written report indicating concealed damage to your shipment. Ask for an immediate inspection of your concealed damage item. Crating material must be retained to show the inspector from the truck line.

INSTALLATION INSTRUCTIONS

Locating the Display Case

The case should be located where it is not subjected to the direct rays of the sun, heating ducts, grills, radiator, or ceiling fans, nor should it be located near open doors or main door entrances. Also, avoid locations where there is excessive air movement or air disturbances. Failure to do this will cause warm interior case temperature.

The condenser air inlet is located at the rear of the case. Do not block this inlet and do not locate the air inlet near a source of heat.

Removing Case from Shipping Skid

CAUTION: Do not push against the front glass, end glass, doors, or door frames when removing the case from the skid or moving the case. Case damage or glass breakage could result.

Move the case as near as possible to the final location before removing it from the shipping skid.

Remove the four (4) bolts that secure the case to the skid. Do not remove the shipping brackets from the case. The brackets are intended to be used as hand grips for locating the case. Remove the brackets when the case is in the final location.

Removing Packaging Material

Remove the brackets that held the case to the shipping skid.

Remove the plastic ties that hold the wire shelves and shelf brackets in place.

Remove the shipping tags that secure the doors. If it is necessary to remove tape residue from plastic materials, use cleaning compounds recommended in the cleaning section of this manual.

Leveling the Case

The case must be level for proper drainage of defrost condensate to the condensate evaporator.

Four leg levelers are provided for leveling the case.

The leg levelers can be turned in and the case can be placed with the base frame on the floor. Seal unit to the floor using an NSF Listed Sealant.

Grill Removal

DANGER: Electric shock hazard. Do not operate unit with panels removed.

The front of the case has a removable base panel to access the front leg levelers from the inside of the case. Normally it is not necessary to remove the panel to install the case. This panel must be in place for proper operation of the case.

There are three (3) removable panels on the back of the case. The left side panel allows access to the lamp ballasts, the pressure control, and the field wiring connection boxes. Remove this panel to make field wiring connections.

The center panel allows access to the pullout condensing unit (self-contained units).

The right side panel houses the power switch and light switch. Removing this panel allows access to the terminal board, switches, condensate evaporator, and solid state defrost timer (self-contained units). Normally it is not necessary to remove this panel to install the case.

Condensate Evaporator

This case is furnished with an electric condensate evaporator. A separate 115 volt power supply is required for this device on self-contained units. Plumbing connections are not required.

The condensate evaporator is located behind the control panel box and is accessible from the rear of the case.

The condensate evaporator can be removed from the case and the condensate drain can be plumbed to a drain to conserve energy if desired. Disconnect the condensate evaporator wires at the condensate evaporator to remove. This must be done by a qualified electrician.

This is an open merchandiser and at times can produce a large amount of condensate water. To ensure that adequate evaporator capacity is available, a high wattage heater is used. The heater turns off automatically when the water level in the pan drops.

Check that the float is positioned correctly and that the switch operates at time of installation.

Make sure that the drain line has not been dislodged during shipment and that the drain trap terminates properly over the water reservoir.

Lights

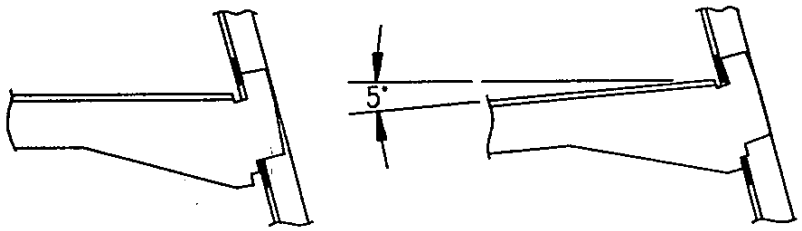
Make certain that the light cord plugs are completely inserted into the sockets or arcing may result causing damage to the plugs and sockets.

The ballasts used on this case allow removal of one or more shelf lights without affecting the remaining lights.

When plugging or unplugging light cords, turn the light switch to the "off" position.

Shelving

Put the shelf support assembly in the desired shelf standard slots.

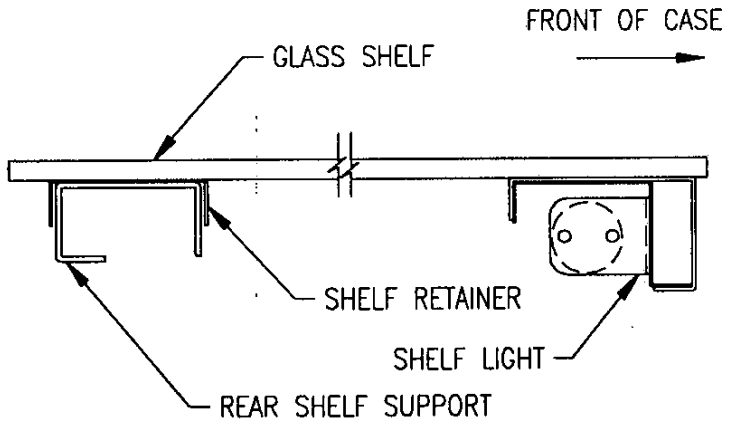


Plug the shelf light cords in the appropriate light socket. Make certain that the light cords are completely inserted into the sockets or arcing may result causing damage to the plugs and sockets.

Put the metal shelves on the support assembly. If the shelf is not in the proper position, it may disrupt the air flow in the case and cause product loss.

Optional Glass Shelves

Put the glass shelves on the rear shelf support and shelf light housing as shown. The shelf retainer should sit over the rear shelf support. If the shelf is not in the proper position, it may disrupt the air flow in the case and could cause product loss.



Reinstall both rear doors.

Cleaning

For initial setup, clean the case as outlined in the weekly cleaning section.

ELECTRICAL INFORMATION & GROUNDING

This Case Must Be Grounded

DANGER: Improper or faulty hookup of electrical components in the display case can result in severe injury or death.

All case electrical connections must be performed only by a licensed electrician.

All electrical wiring hookups must be done in accordance with all applicable local, regional, or national electrical standards.

A separate circuit for each display case is recommended to prevent other appliances on the same circuit from overloading the circuit and causing malfunction.

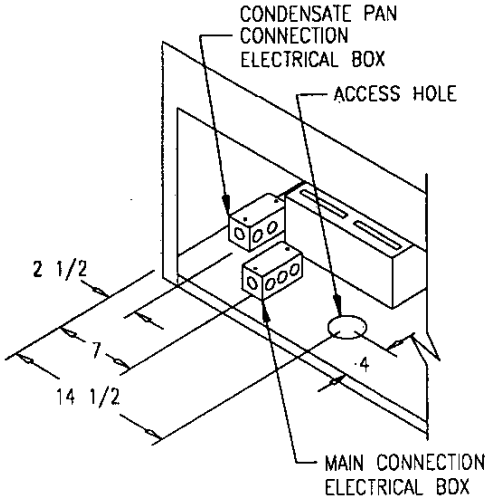
The electrical service must be grounded upon installation.

This unit is designed for permanent connection to power source. See the electrical data plate located next to electrical junction box for proper circuit size and wire ampacity.

Self-contained unit requires two (2) 115 volt power supplies. One power connection supplies voltage to the entire refrigeration and lighting systems. The second power source supplies power to the condensate evaporator assembly.

Remote units require one (1) 115 volt power supply because the refrigeration compressor system is wired separately in a remote location.

A 7/8" diameter hole is provided in the back of the case for field wiring connection. An access hole is also provided in the unit base for running power supply up through the floor. See diagram below.



OPERATING INSTRUCTIONS

Initial Start-Up

After all the checks outlined in the installation section of this manual have been made, the case is ready to be put into service. On self-contained models, the service valves on the refrigeration system are backseated when the unit leaves the factory.

Series '90 Refrigerated Self-Serve cases are designed to operate at 40° to 42° F under maximum ambient conditions of 75° F and 55% relative humidity.

Nearly all open refrigerated merchandisers operate better when loaded with product than they do when empty. If a check is made of the case operating temperatures, perform this check with product in the case.

Controls

Light Switch

The light switch is located on the rear control panel. This switch operates the lights only. If shelf lights are installed, they are also controlled by this switch.

Power Switch

The power switch controls power to the entire case with the exception of the condensate evaporator. This switch is also located on the rear control panel.

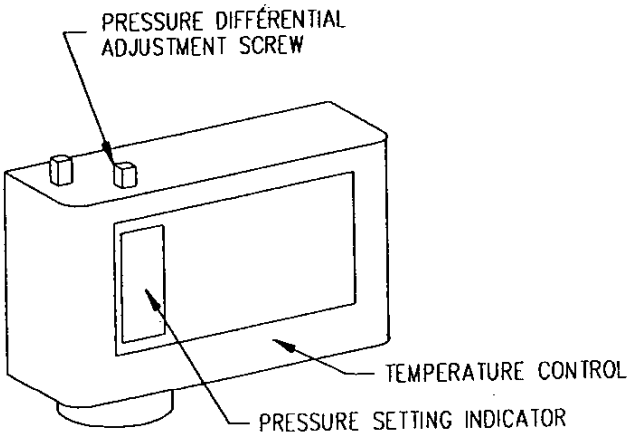
Defrost Timer

A solid state timer is included with self-contained models. The timer will initiate a 20 minute defrost if the compressor runs for two (2) hours continuously without turning off. This timer is not adjustable. It is located behind the control panel cover.

Temperature Control

This device is supplied with self-contained models only. Remove units must be controlled using the same setting described below. The dual pressure control is located on the left side of the base on self-contained units. The low pressure control portion of the device controls the temperature of the case. The low pressure control is factory set to cut in (turn compressor on) at 32 PSIG and cut out (turn compressor off) at 12 PSIG. This setting will give an operating temperature of 40° to 42° F.

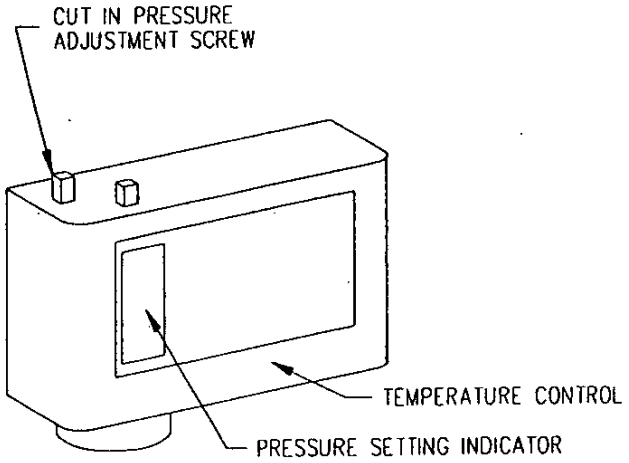
If a warmer or colder temperature is desired, the cut out pressure can be raised or lowered by changing the pressure differential setting. Turn the pressure differential adjustment screw (or knob) clockwise for a colder setting and counter clockwise for a warmer setting. It is advisable not to turn the adjustment more than 1/2 turn at a time. After each minor adjustment, allow the case to run at least four hours before making further adjustments.



The high pressure control portion of this devise is factory set at 385 PSIG. This is a safety device and is not adjustable.

Under normal conditions, the evaporator coil will clear itself of frost during the off cycles.

If the unit cycles but does not clear itself of frost during the off cycle, the cut in pressure should be raised to allow more time for front to clear. Turn the cut in pressure adjustment screw counterclockwise to raise the cut in pressure. Do not adjust more then ½ turn at a time and allow the unit to run for four (4) hours minimum before further adjustments.



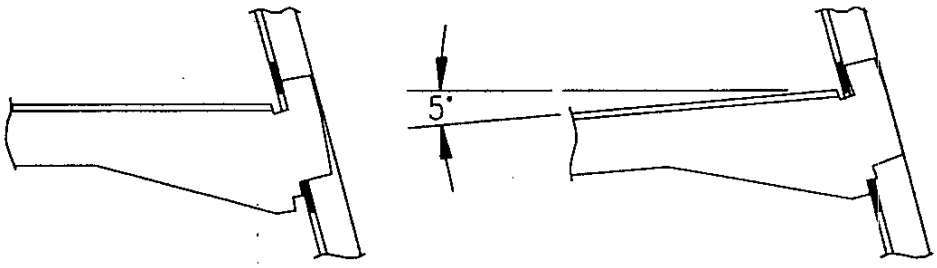
Shelves

The shelves are adjustable up and down in 2" increments. To reposition the shelves:

1. Turn the shelf lights off.
2. Unplug the shelf light cord.
3. Remove all shelves from the shelf supports.
4. Grasp the shelf support at each end.
5. Tip the front of the shelf support up until it can be removed from the shelf standard.
6. Reposition the shelf as desired.

The shelves can be installed horizontally or slanted downward at 5°. To change the shelf slant:

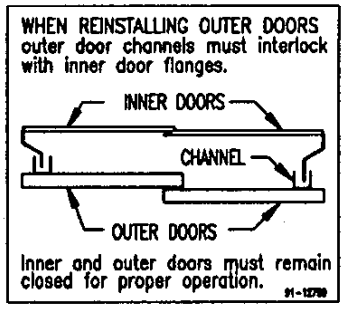
1. Remove the shelves from the shelf support.
2. Grasp the shelf support at each end.
3. Lift the shelf support up at the back until the brackets can be repositioned in the shelf standard slots. See diagram below.



Doors

The inner and outer doors can be removed by lifting the door up until the bottom clears the bottom tracks.

Upon reinstallation of outer door, "U" shaped channel on outer doors must interlock with flange on inner door. The inner doors must be kept shut for proper operation of case.



Clean the door track frequently for easy door operation. A very light film of lubricant, such as PAM, will help the doors slide easily.

Light Replacement

The light fixtures use a spring loaded socket on one end. To remove a light, push the bulb toward the spring-loaded socket until the opposite end drops out of the socket.

The bulbs are furnished with plastic safety light shields. Make certain the light shields are always in place to safeguard against bulb breakage.

When replacing lights, use direct equivalents to the original bulbs.

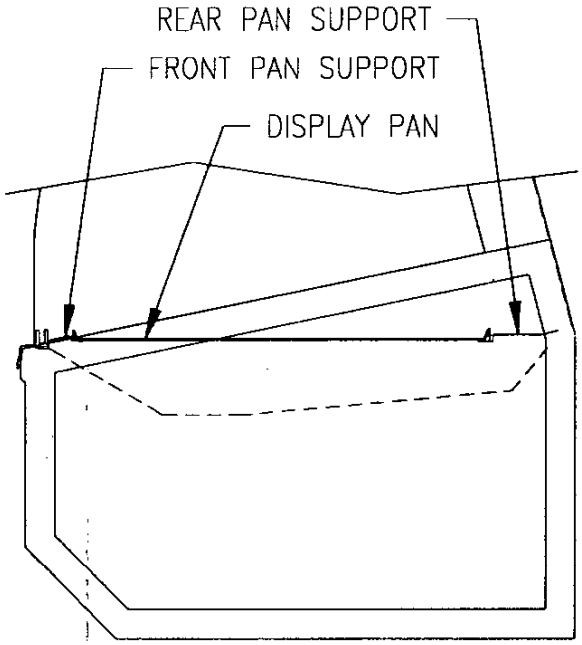
Placing Product into Case

Do not overhang the wire shelves with product or display pans. Overhanging the shelves will block the refrigerated air flow and could cause product loss.

Do not block the slots along the front or rear of the case display floor.

CASE SHOULD BE STOCKED WITH PRE-CHILLED PRODUCT ONLY.

The display pans are removable for cleaning and can become dislodged in shipment. To ensure proper air flow and performance of the case, make sure that the display pans are positioned as shown. Check that the pans are installed properly before placing product on the display pans.



Periodic Maintenance

Cleaning Condenser Coil (Self-Contained Units)

Turn power switch off.

Remove the rear grill and vacuum the front surface of the condenser coil. This should be done every one to two months as necessary.

CLEANING INSTRUCTIONS

Daily Cleaning

The case should be cleaned thoroughly, as described in the weekly cleaning section, before it is used for the first time.

NOTICE: Avoid splashing or soaking any electrical components with water to prevent electrical damage to the case.

NOTICE: Shut off lights and power switches and remove all product from case. Allow sufficient time for the unit to reach room temperature before proceeding with cleaning.

Note: For major spills or foreign material buildup use complete weekly cleaning instruction.

1. Clean all foreign materials from the door opening.

2. Clean interior surfaces (EXCLUDING CLEAR & WHITE ACRYLIC PANELS) with mild detergent and water. Do not use abrasive cleansers on case interior.

3. (CLEAR & WHITE ACRYLIC PANELS) Lightly dust (not wipe) surface with a soft, clean cloth. Then the surface can be wiped carefully with a soft, wet cloth or chamois. The cloth or chamois must be kept free of grit by frequently rinsing in clean water. Grease and oil may be removed with kerosene. Do not use window sprays or kitchen scouring compounds. DO NOT use solvents such as Acetone, Benzene, Carbon Tetrachloride, and lacquer thinner. A spray wax such as Pledge or Maguire's Polish can be applied and wiped with a clean, soft cloth. The wax tends to fill in and hide small scratches.

4. Plastic exterior surfaces (EXCLUDING CLEAR & WHITE ACRYLIC PANELS) can be cleaned with any ammoniated household cleaner. Stains can be removed by scrubbing with TRIALENE Soap, Ethyl CELLOSOLVE, CARBONA, or similar solvent based cleaning fluids. The surfaces must be thoroughly rinsed with water after using solvent based cleaners.

Weekly Cleaning

This procedure is recommended on a weekly basis. It may need to be performed more often if necessary to maintain a clean, sanitary case. The case should be cleaned to this procedure before using the first time.

NOTICE: Avoid splashing or soaking any electrical components with water to prevent electrical damage to the case.

NOTICE: Shut off light and power switches and remove all product from case. Allow sufficient time for the unit to reach room temperature before proceeding with cleaning.

Interior Cleaning

1. Remove rear doors from track by lifting door upward until the bottom of the door clears the lower door track and then outward. Remove the inner door in the same manner.

2. Lift up the front glass to the fully open position.

3. Remove all shelves from the case.

4. Unplug the shelf lights and lift the shelf support assembly out of the shelf standard slots.

5. Remove the two (2) thumb screws holding the shelf standard to the side wall and take the shelf standard out of the case.

6. Lift the display pans up and take them out of the case.

7. Clean the entire interior of the case as described under the "Daily Cleaning" section.

Note: Depending on the amount of usage and spillage of foreign material, some fasteners may have to be removed and parts disassembled to allow proper cleaning of the unit.

8. Clean all shelves, shelf support assemblies, shelf standards and display pans using warm soapy water and a brush. Rinse thoroughly and allow to dry.

9. Clean all foreign material from inner and outer rear door tracks using warm soapy water and a brush. Apply a light film of lubricant, such as PAM, to make the doors operate smoother.

10. Reassemble the case in reverse order starting with Step 6.

Exterior Cleaning

1. Plastic exterior surfaces can be cleaned with any ammoniated household cleaner. Stains can be removed by scrubbing with TRIALENE Soap, ETHYL CELLOSOLVE, CARBONA, or similar solvent based cleaning fluids. The surfaces must be thoroughly rinsed with water after using solvent based cleaners.

2. Lightly dust (not wipe) surface with a soft, clean cloth. Then the surface can be wiped carefully with a soft, wet cloth or chamois. The cloth or chamois must be kept free of grit by frequently rinsing in clean water. Grease and oil may be removed with kerosene. Do not use window sprays or kitchen scouring compounds. DO NOT use solvents such as Acetone, Benzene, Carbon Tetrachloride, and lacquer thinner. A spray wax such as Pledge or Maguire's Polish can be applied and wiped with a clean, soft cloth. The wax tends to fill in and hide small scratches.

SERVICE INFORMATION

⚠ DANGER
HIGH VOLTAGE. Turn power off before servicing. May have more than one disconnect switch.

Before any service work is performed on the case, make sure all power is disconnected to the case.

Service problems or request for repair parts from authorized service agencies, trained service personnel, or owners should be referred to:

CUSTOMER SERVICE DEPARTMENT
Federal Industries
215 Federal Avenue
Belleville WI 53508
Toll Free: (800) 356-4206 / WI Phone (608) 424-3331
Fax: (608) 424-3234

Pre-Service Checklist

You may avoid the cost and inconvenience of an unnecessary service call by first reviewing this checklist of frequently encountered situations that can cause unsatisfactory case performance.

⚠ CAUTION: Before servicing case turn off power at the main breaker of fuse box.

Case Does Not Operate

Check for disconnected power supply.

Check for tripped breaker or blown fuse.

Check that the power switch is not "off".

Pre-Service Checklist

Lights Do Not Operate

Check that light switch is on.

Be sure light is properly seated in the sockets.

Check that light cords are tight in the sockets.

Case Temperature Too Warm

Check that the cold air inlet and outlet slots are not blocked.

Be sure inner and outer rear doors are interlocked correctly and closed.

Check for a blocked or dirty condenser coil.

Check that there are no outside air disturbances in or around case. These disturbances can be caused by nearby doors or entrances, overhead ceiling fans, air handling vents, direct sunlight, or other heat sources. The location of open merchandisers is critical to case performance.

Make sure that warm product is not being loaded into case interior. All product must be pre-chilled prior to loading for proper case performance. Warm product can cause excessive compressor run time and frosting and icing of evaporator coil.

Check low pressure control for proper settings.

Check cold air flow. Lack of or no air flow inside case may indicate a blocked evaporator coil or defective evaporator fan. Contact a qualified service company if there is no air flow inside the case.

Overflow of Condensate Evaporator

Check that there is a power supply to the condensate evaporator assembly. On all self-contained models, this assembly is on a separate electrical circuit.

Check that the float is positioned correctly inside the water reservoir.

Check that the drain line is properly located over the water reservoir.

Check room ambient conditions. The room environment should not exceed 75° F ambient and 55% humidity conditions.

Special Service Situations

There are rare occasions when the refrigerant charge must be evacuated from a case in order to perform service work. In those situations, Federal Industries recommends that the refrigerant charge be evacuated into a recovery system to prevent the possibility of hydrochlorofluorocarbons (HCFC's) from being released into the atmosphere. The release of HCFC's into the atmosphere is a potential source of ozone depletion.

If moisture or liquid is observed around or under a Federal Industries case, an immediate investigation should be made by qualified personnel to determine the source of the moisture or liquid. The investigation made should determine if the case is malfunctioning or if there is a simple housekeeping problem.

Moisture or liquid around or under a case is a potential slip/fall hazard for persons walking by or working in the general area of the case. Any case malfunction or housekeeping problem that creates a slip/fall hazard around or under a case should be corrected immediately.

SALE & DISPOSAL

Owner Responsibility

If you sell or give away your Federal Industries case you must make sure that all safety labels and the Installation-Service Manual are included with it. If you need replacement labels or manuals, Federal Industries will provide them free of charge. Contact the customer service department at Federal Industries at (800) 356-4206.

The customer service department at Federal Industries should be contacted at the time of sale or disposal of your case so records may be kept of its new location.

If you sell or give away your Federal Industries case and you evacuate the refrigerant charge before shipment, Federal Industries recommends that the charge be evacuated into a recovery system to prevent the possibility of HCFC's from being released into the atmosphere. The release of these HCFC's is a potential source of ozone depletion.

REFRIGERATION & ELECTRICAL DATA

SELF-CONTAINED MODELS

	SNR-48SS-2	SNR-59SS-2	SNR-77SS-2
Refrigerant Charge (R134A)	1.375 lbs.	1.78 lbs.	1.78 lbs.

ALL MODELS ARE 115 VOLT, 1 PHASE, 60 HERTZ, 2 WIRE

	AMPS	AMPS	AMPS
Compressor			
RLA	8.8	10.1	10.1
LRA	58.8	68.0	68.0
Condenser Fan Motor	0.5	1.4	1.4
Evaporator Fan Motor	0.3ea. (2)	0.3 ea. (2)	0.3 ea (2)
Lights	0.9	0.9	0.9
Condensate Evaporator (Separate Elec. Circuit)	10.0	10.0	10.0

Refer to the rating plate data attached to the rear of the case for Maximum Fuse Size and Minimum Circuit Ampacity.

REFRIGERATION & ELECTRICAL DATA

REMOTE MODELS

	SNR-48SS-R-2	SNR-59SS-R-2	SNR-77SS-R-2
Refrigerant Charge	R134A	R134A	R134A

ALL MODELS ARE 115 VOLT, 1 PHASE, 60 HERTZ, 2 WIRE

	AMPS	AMPS	AMPS
Evaporator Fan Motor	0.4 ea. (1)	0.4 ea. (1)	0.4 ea. (2)
Lights	1.2	1.3	1.7
Condensate Evaporator	10.0	10.0	10.0

Refer to the rating plate data attached to the rear of the case for maximum Fuse Size and Minimum Circuit Ampacity.

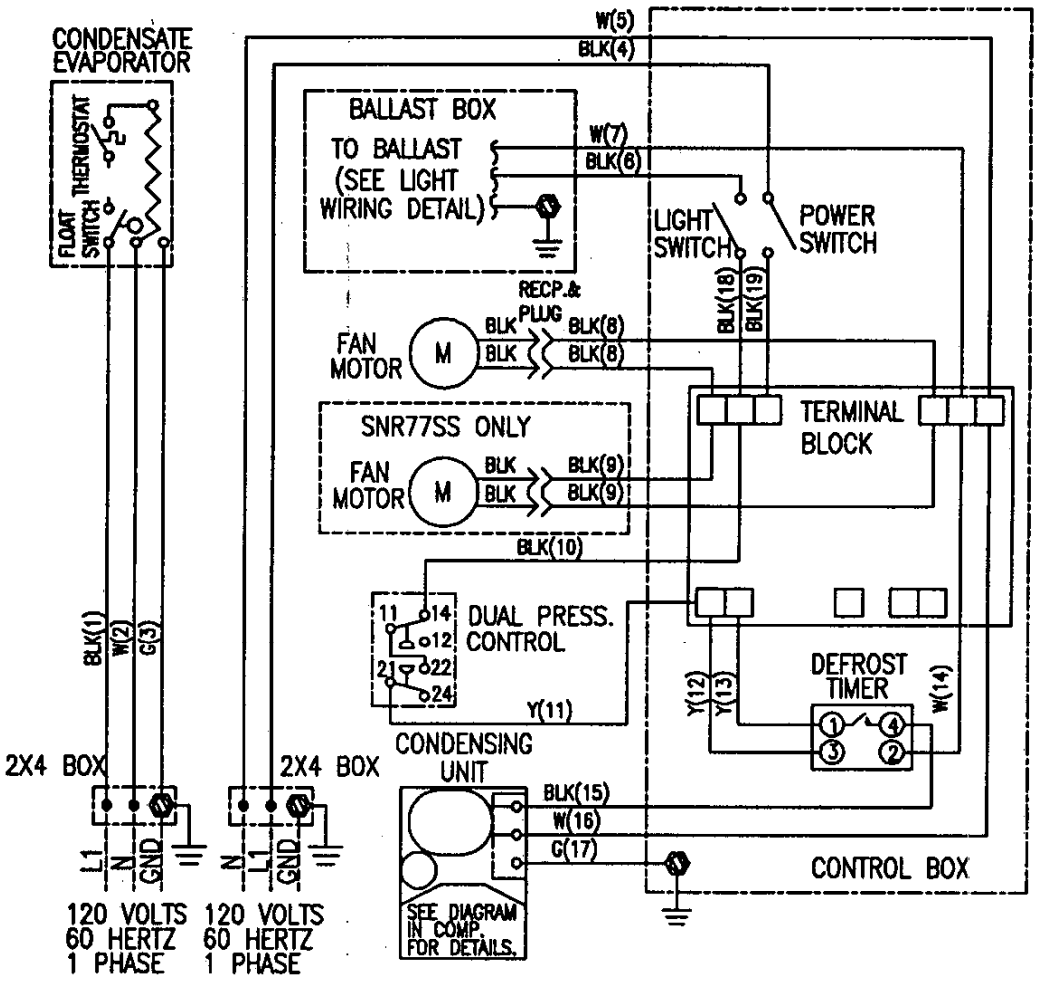
REPLACEMENT PARTS
MODELS SNR-48SS-2, SNR-59SS-2, & SNR-77SS-2

Part Description	Part Number		
Refrigeration System	**SNR-48SS-2**	**SNR-59SS-2**	**SNR-77SS-2**
Condensing Unit(self-contained Only	30-14218	30-14219	30-14219
Compressor (Replacement)	30-11212	30-11213	30-11213
Evaporator Coil	33-50053	33-11499	33-50037
Expansion Valve	32-12625	32-12625	32-12625
Evaporator Fan Motor	41-32501	41-32501	41-32501
Evaporator Fan Blade	72-11450	72-13316	72-12254
Filter Drier	32-12626	32-12391	32-12391
Dual Pressure Control	32-51009	32-51009	32-51009
Defrost Timer (self-contained Only)	41-17321	41-17321	41-17321
Electrical Components			
Power Switch	41-11066	41-11066	41-11066
Light Switch	41-11066	41-11066	41-11066
Terminal Block	45-11056	45-11056	45-11056
Ballast	39-12903	39-12903	39-12903
Light	42-11069	42-11070	42-11071
Light Cord (w/Receptacle)	43-12269	43-12269	43-12269
Light Cord (w/Plug)	43-11878	43-11878	43-11878
Light Socket (Stationery)	42-10834	42-10834	42-10834
Light Socket (Spring Loaded)	42-10833	42-10833	42-10833
Condensate Evaporator			
Entire Assembly	SA-1878-1	SA-1878-1	SA-1878-1
Float Assembly (Float & Rod)	72-13023, 06-13024	72-13023, 06-13024	72-13023, 06-13024
Safey Thermodisc Assembly	SA-1880	SA-1880	SA-1880
Heating Element	40-13020	40-13020	40-13020
Float Switch	41-13022	41-13022	41-13022

REPLACEMENT PARTS
MODELS SNR-48SS-2, SNR-59SS-2, & SNR-77SS-2

Part Description	Part Number		
Misc. Components	**SNR-48SS-2**	**SNR-59SS-2**	**SNR-77SS-2**
White Top Shelf	M-10514-1	M-10514-2	M-10514-3
White Bottom Shelf	M-10514-4	M-10514-5	M-10514-6
Glass Top Shelf	52-13607	52-13609	52-13611
Glass Bottom Shelf	52-13608	52-12610	52-13612
End Glass – Clear L.H.	15-12757-L	15-12757-L	15-12757-L
End Glass – Clear R.H.	15-12757-R	15-12757-R	15-12757-R
Eng Glass – Mirrored L.H.	15-12758-L	15-12758-L	15-12758-L
End Glass – Mirrored R.H.	15-12758-R	15-12758-R	15-12758-R
Front Glass – Clear	15-12762	15-12763	15-12764
White Hood Top	15-12759	15-12760	15-12761
Lamp Shield	42-30212	42-30212	42-30212
Door L.H. – White	53-12701	53-12703	53-12705
Door R.H. – White	53-12702	53-12704	53-12706
Leg Leveler	65-11116	65-11116	65-11116
Inner Door – L.H.	M-10530	M-10531	M-10532
Inner Door – R.H.	M-10442	M-10443	M-10444
Inner Door Glide Plastic Ext.	15-12669	15-12669	15-12669
Decal – Electrical Hazard	91-10743	91-10743	91-10743
Decal – Slip Hazard	91-11175	91-11175	91-11175

WIRING DIAGRAM - MAIN WIRING SELF-CONTAINED



UNIT MUST BE GROUNDED

COLOR CODE

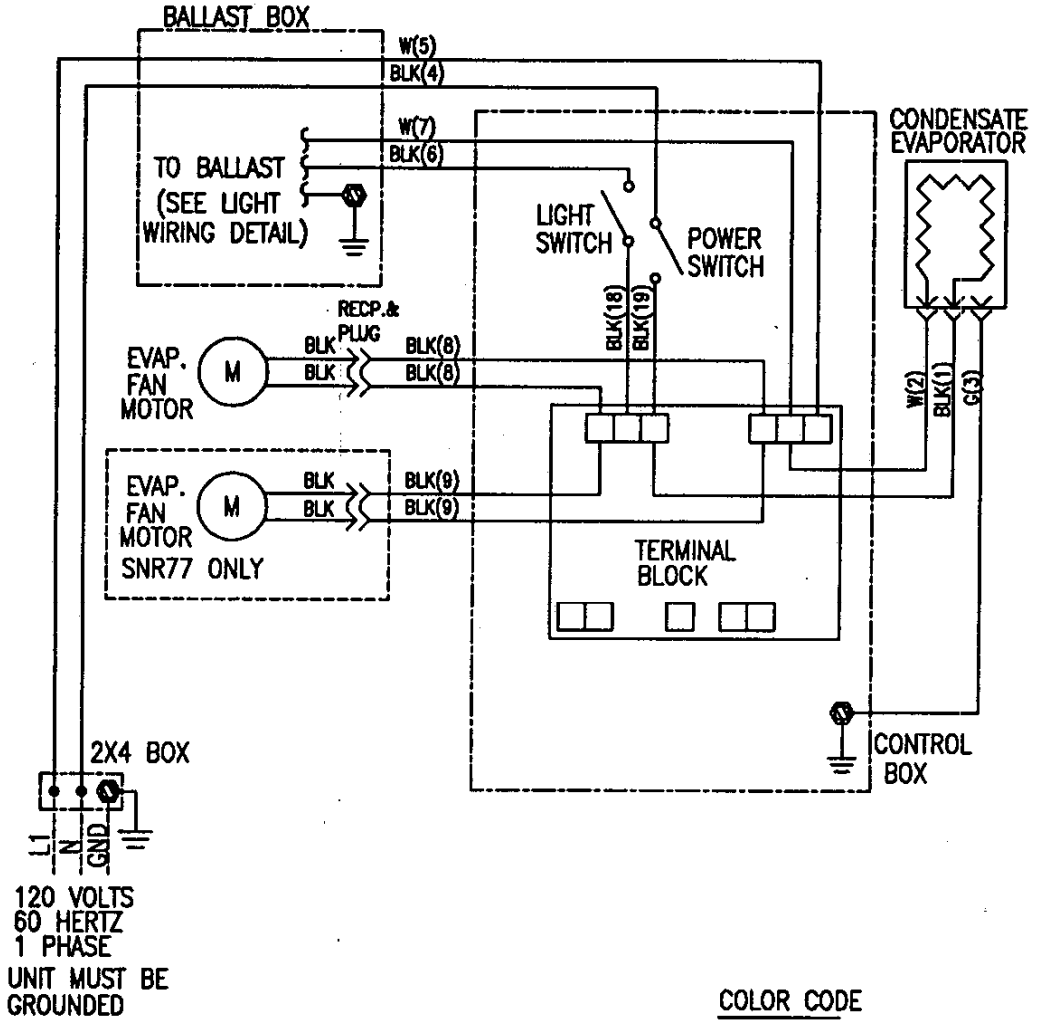
BLK = BLACK
W = WHITE
R = RED
B = BLUE
Y = YELLOW
G = GREEN

------- FIELD WIRED
——— FACTORY WIRED

SNR48SS,SNR59SS,SNR77SS

E-1211 04/23/96 SES WIRING, SNR SELF CONTAINED SELF SERVE120V

WIRING DIAGRAM- MAIN WIRING REMOTE



COLOR CODE

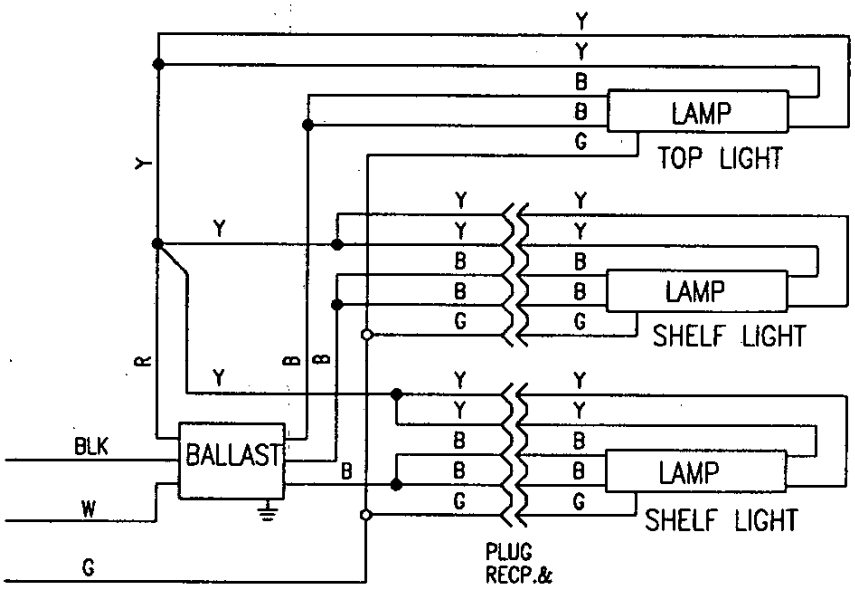
BLK = BLACK
W = WHITE
R = RED
B = BLUE
Y = YELLOW
G = GREEN

------- FIELD WIRED
——— FACTORY WIRED

SNR48SS,SNR59SS, & SNR77SS

E-1278 4/22/96 SES WIRING, SNR REMOTE SELF SERV 120V

WIRING DIAGRAM- LIGHTS (48" & 59")

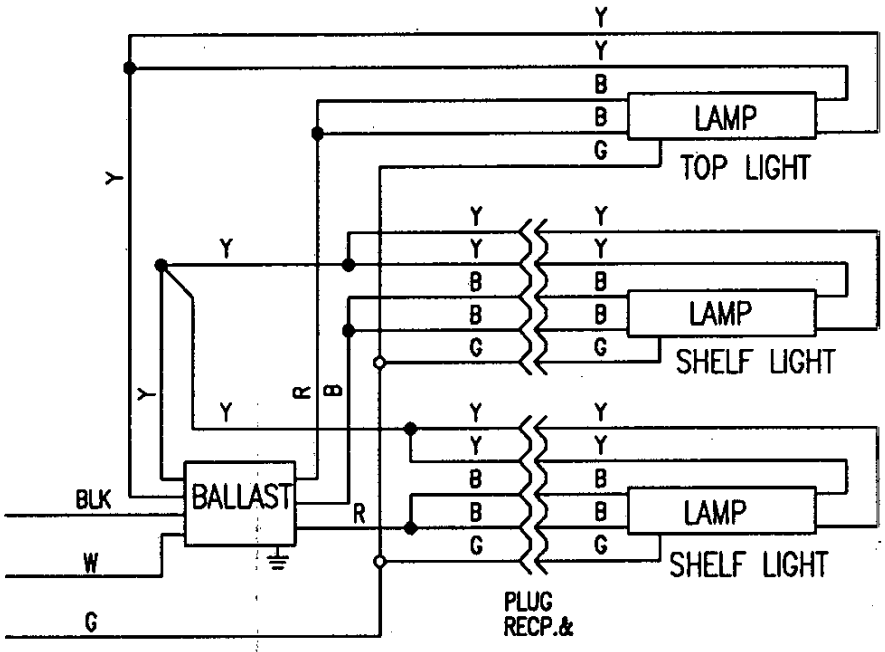


COLOR CODE

BLK = BLACK
W = WHITE
R = RED
B = BLUE
Y = YELLOW
G = GREEN

(3) F017T8, F025T8, F032T8
E-1324 11/20/95

WIRING DIAGRAM- LIGHTS (77")



COLOR CODE

BLK = BLACK
W = WHITE
R = RED
B = BLUE
Y = YELLOW
G = GREEN

(3) F040T8
E-1325 2/26/96