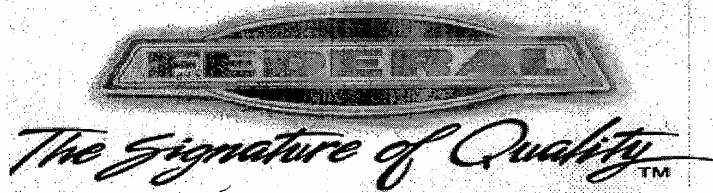
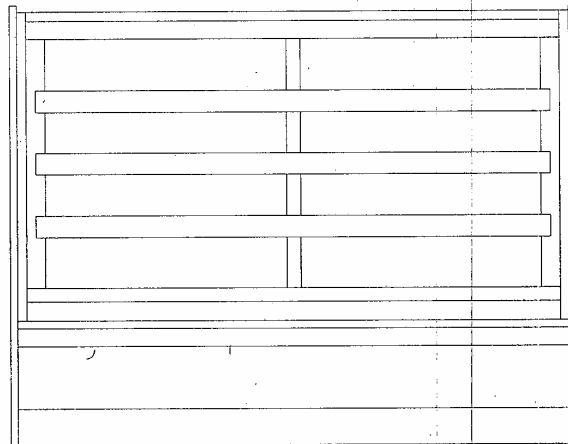
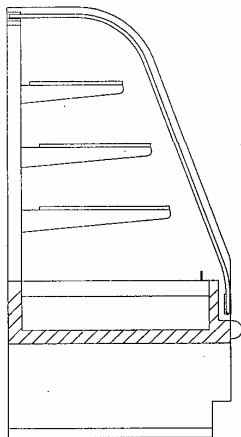


E-1316
0707



FCC-4, FCC-5, FCC-6 Non-Refrigerated 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

215 Federal Avenue
WI Phone (608) 424-3331

Belleville, WI 53508
Fax: (608) 424-3234

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INTRODUCTION

Thank you for purchasing a Federal Industries display case. This manual contains important instructions for installing and servicing the Chocolate & Confectionery 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 _____

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

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

Removing Case from Shipping Skid

 **CAUTION: Do not push against the curved glass, ends, 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 eight (8) bolts that secure the case to the skid.

Removing the Packaging Material

Remove the shipping tags that secure the doors and tilt-out front glass. 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 the front glass to seal properly. The leveled case can be sealed to the floor using an NSF Listed sealant.

Grill Removal



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

There is a removable slotted panel at the rear of the case. The panel allows access to the light ballast and the field wiring connection box. Remove this panel to make field wiring connections.

To remove the air grill, open the rear storage door and remove the two (2) screws along the right edge of the grill. The left end is supported by two (2) pins attached to the case end. Pick up the grill on either end and move it to the right to lift it off of the locating pins.

Front Panel

The flat front panel attaches to the case using screws and brackets that fit into pockets on the base front. To remove the panel, slide it upward to get the mounting brackets and screws out of the pockets.

Shelving

The case is equipped with three tiers of adjustable glass shelves. The deepest shelf is at the bottom and the shallowest at the top. Each tier is supported by three (3) shelf brackets.

Turn the shelf light switch "off".

Remove both rear doors from the track by lifting them upward until the bottom edge clears the lower door track and then outward.

To install the bottom shelf, put a 14" shelf bracket in the end shelf standard even with or above the bottom light socket and tighten the locking cam.

Then install a center shelf bracket in the center shelf standard and tighten the locking cam. The center shelf bracket has no end hook and is shorter than the end brackets in order to clear the shelf light housing.

Hang the shelf light assembly with the longest cord on the end shelf brackets.

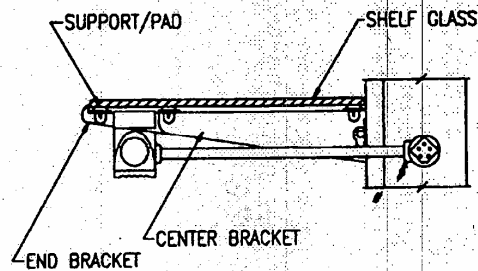
Plug the shelf light cord in the light socket. Make certain the light cord is completely inserted into the socket or arcing may result causing damage to the plug and socket.

Each shelf bracket gets two plastic supports with rubber pads. Put two single width supports on each end shelf bracket. Put two double width supports on the center shelf bracket.

Repeat the steps for the middle and top shelves.

Put the glass shelves on the support pads as shown for each tier. If the shelf is not in the proper position, it may disrupt the air flow in the case and cause product loss.

Reinstall both rear doors.



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.

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.

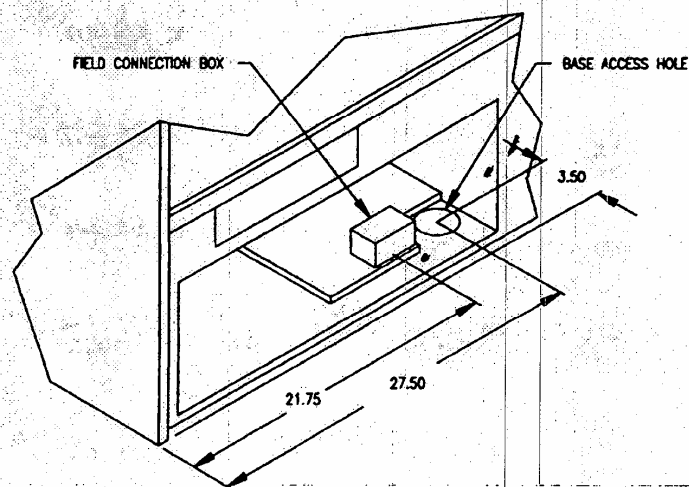
All of the case electrical connections must be performed only by a licensed electrician.

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

A separate circuit for each case is recommended to avoid the possibility of 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 at next to the temperature control for proper circuit size and wire ampacity.



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.

Chocolate/Confectionery Display Conditions

An air circulation fan is provided to reduce the heat buildup when the shelf lights are on.

Controls

Light Switch

This switch controls the power to the lighting circuit. The switch rocker is red in the "on" position, black in the "off" position.

Fan Switch

This switch controls the power to the air circulation fan below the display pans. The switch rocker is red in the "on" position, black in the "off" position.

Shelves

The case is furnished with three (3) tiers of glass shelves which are adjustable up and down. To reposition the shelves:

1. Turn the shelf light switch off.
2. Unplug the shelf light cord.
3. Remove the glass shelves and shelf light housing from the shelf brackets.
4. Grasp the shelf bracket and remove from existing slots in pilaster.
5. Reposition the shelf bracket to the desired slots.
6. Reinstall shelf light housing and glass shelves.
7. Plug the shelf light cord in the light socket.

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.

Tilt-Out Front Glass

The front glass tilts out for easy cleaning of the case interior and inner glass pane. Two cables at the top corners hold the glass in the open position.



CAUTION: Do not push the front glass to close it. Always hold onto the top edge when closing the front glass.

Doors

The doors can be removed by lifting the door up until the bottom clears the bottom track.

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

Placing Product Into Case

Do not overhang glass shelves with product or display trays. Overhanging the shelves will block the air flow and could cause product loss.

Do not block the slots along the front air grill or along the display deck backs.

Rear Storage Area

Looking at the back of the case, there is a lockable refrigerated storage compartment in the lower right corner. The door swings down when opened. The storage door should always be closed tightly to ensure proper operation of the display case.

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 light and fan switches and remove all product from case.

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

1. Clean all foreign materials from the door opening.
2. Wipe complete interior of case using a damp cloth.
3. The glass can be cleaned with common window cleaners. The remaining exterior surface should be wiped down using any ammoniated cleansers or soapy warm water.

Note: Detergents are not recommended.



CAUTION: Do not use alcohol based or solvent cleaners on the front or side glass.

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 fan switches and remove all product from case.

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. Remove all shelves from the case by sliding them rearward and through the door opening.
3. Unplug the shelf lights and lift one end then the other off the shelf brackets then through the door opening.
4. Remove the shelf brackets from the shelf standards.
5. Open the tilt-out front glass.
6. Open the door for the rear storage area.
7. Clean the entire interior of the case using warm soapy water. Wipe off all soapy water with a damp cloth and allow to dry.

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 brackets, and shelf light housings 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. Clean both sides of the doors and interior of the front glass using any common window cleaner.



CAUTION: Do not use alcohol based or solvent cleaners on the front glass.

Exterior Cleaning

1. Clean the front glass using any common window cleaner.



CAUTION: Do not use alcohol based or solvent cleaners on the front glass.

2. The exterior surfaces should be wiped down using any ammoniated cleansers or warm soapy water.

SERVICE INFORMATION



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:

**Warranty/Technical Service
Department**

Toll Free (800) 356-4206

WI Phone (608) 424-3331

geninfo@federalind.com

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,

Pre-Service Checklist (cont'd)

Lights Do Not Operate

Check for disconnected power supply.

Check for tripped breaker or blown fuse.

Check that light switch is on.

Be sure light is properly seated in the sockets.

Check that light cord(s) are tight in the sockets.

Case Temperature Too Warm

Turn on the air circulation fan.

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

Be sure the front glass is closed tightly and that the back doors and storage door are closed.

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.

ELECTRICAL DATA

FCC-4

FCC-5

FCC-6

ALL MODELS ARE 120 VOLTS, 1 PHASE, 60 HERTZ

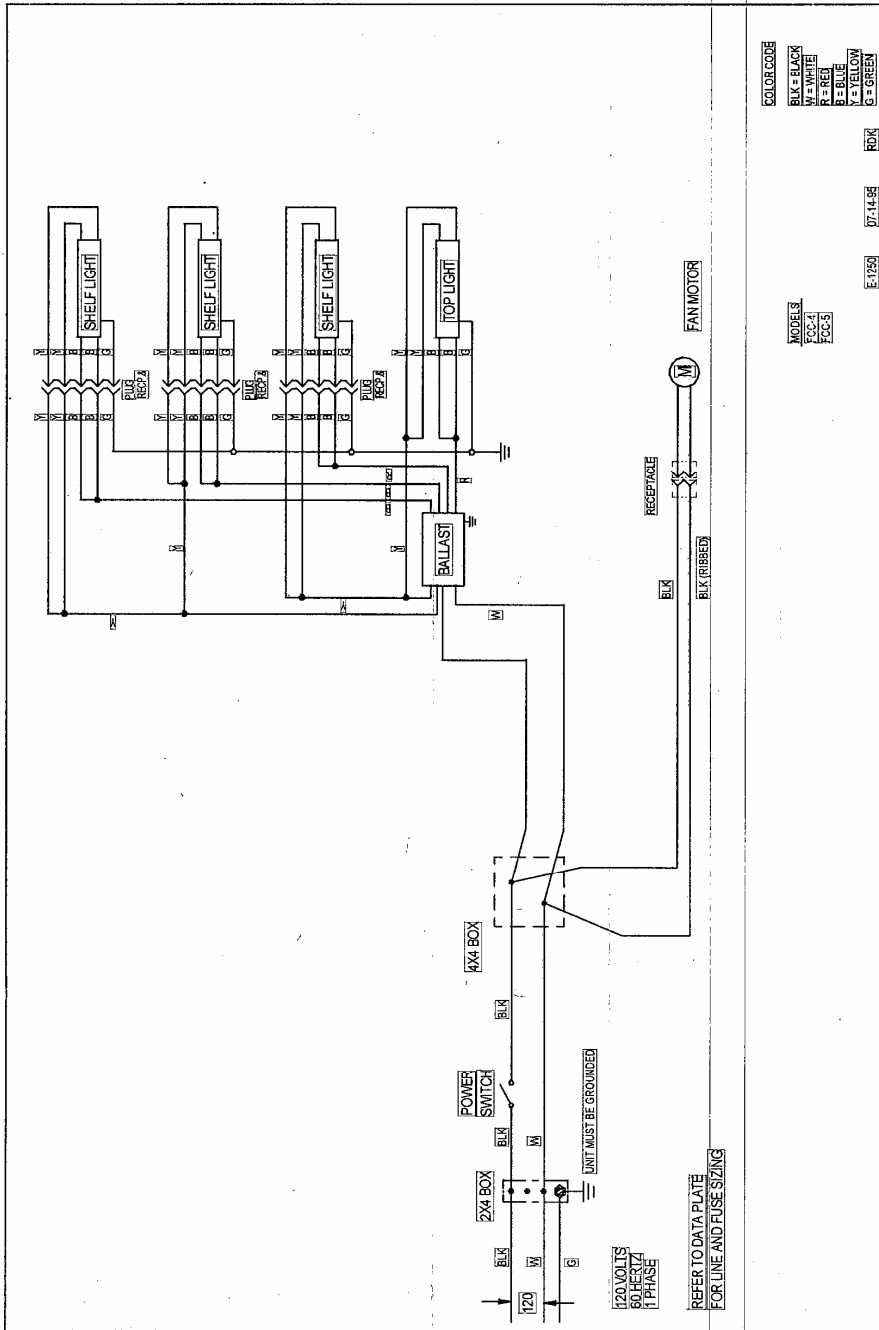
	AMPS	AMPS	AMPS
Fan Motor	0.2	0.2	0.2
Lamp Circuit	1.0	1.0	1.0

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

REPLACEMENT PARTS

MODEL FCC-4, FCC-5, FCC-6

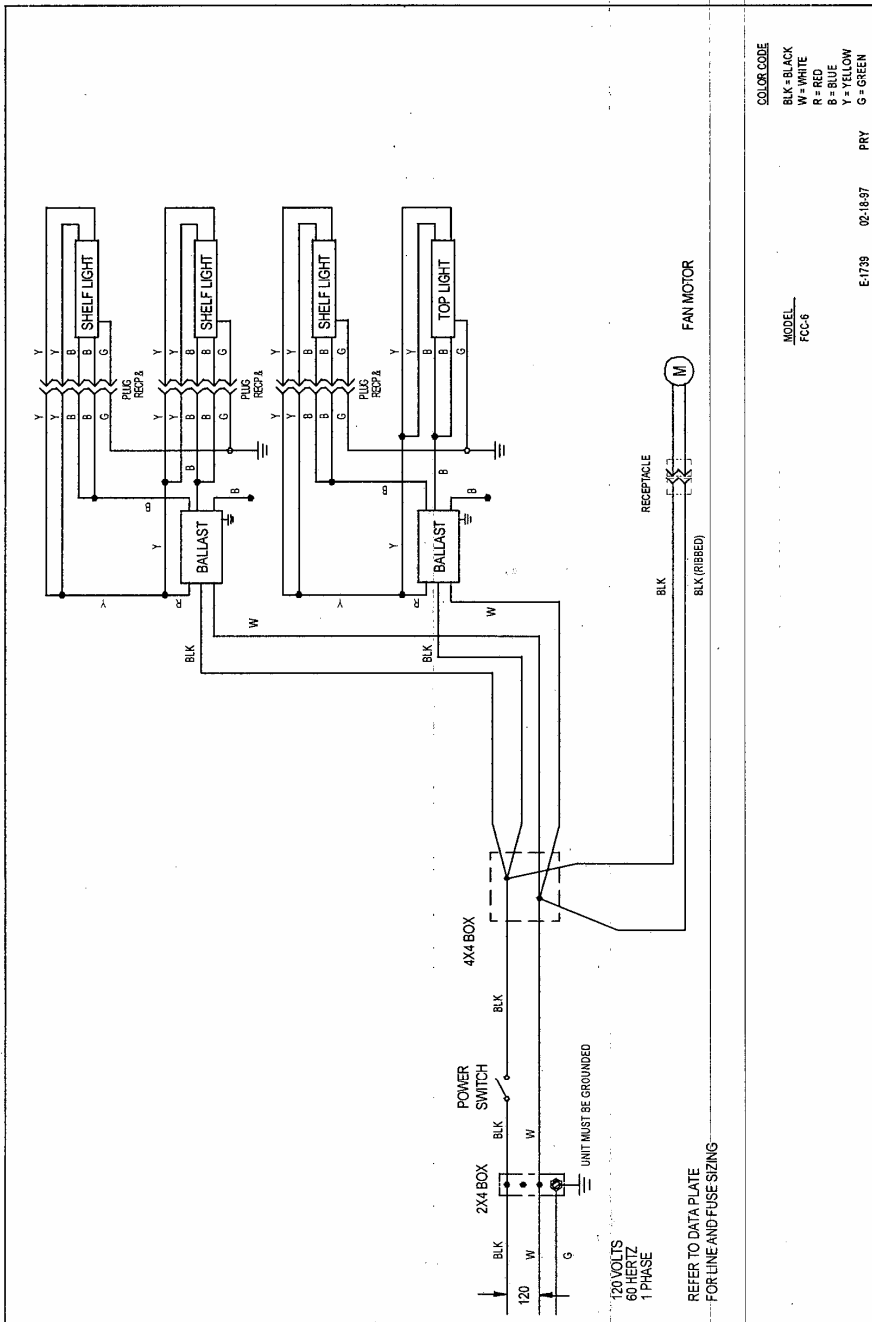
Part Description	Part Number		
<u>Electrical Components</u>	FCC-4	FCC-5	FCC-6
Power or Light Switch	41-11066	41-11066	41-11066
Ballast	39-12904	39-12904	39-12903
Light Bulb	42-11069	42-11070	42-11071
Light Socket (Stationery)	42-10834	42-10834	42-10834
Light Socket (Spring Loaded)	42-10833	42-10833	42-10833
Air Circulation Fan	41-11170	41-11170	41-11170
 <u>Misc. Components</u>	 FCC-4	 FCC-5	 FCC-6
Front Curved Glass	50-18464	50-18465	50-18466
Glass Shelf Top	52-12597	52-12600	52-12603
Glass Shelf Middle	52-12598	52-12601	52-12604
Glass Shelf Bottom	52-12599	52-12602	52-12605
Door R.H. – Reflective	53-12550	53-12552	53-12554
Door L.H. - Reflective	53-12551	53-12553	53-12555
Light Shield	42-30209	42-30209	42-30209
Shelf Support L/R Plastic	67-12647	67-12647	67-12647
Shelf Support Center Plastic	67-12648	67-12648	67-12648
Gray Shelf Pad	67-72586	67-72586	67-72586
Mirrored End – Left	55-18451-L	55-18451-L	55-18451-L
Mirrored End – Right	55-18451-R	55-18451-R	55-18451-R



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

MODELS
 FCC-4
 FCC-5

E-1350 07-14-95 RDK



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

MODEL
 FCC-6

E1739 02-18-97 PRY