

E-1258  
11-08



# CGHIS-2

**Non-Refrigerated Units**

## **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) 256-4206

215 Federal Avenue  
WI Phone (608) 424-3331

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

# Contents

<b>INTRODUCTION .....</b>	<b>1</b>
<b>WARNING LABELS &amp; SAFETY INSTRUCTIONS .....</b>	<b>2</b>
<b>PRE-INSTALLATION PROCEDURES .....</b>	<b>3</b>
INSPECTION FOR SHIPPING DAMAGE .....	3
<b>INSTALLATION INSTRUCTIONS .....</b>	<b>3</b>
REMOVING CASE FROM SHIPPING SKID .....	3
REMOVING THE PACKAGING MATERIAL .....	3
LEVELING THE CASE .....	4
GRILL REMOVAL .....	4
FRONT PANEL & PACKAGE SHELF REMOVAL .....	4
END PANEL REMOVAL .....	4
CLEANING .....	4
<b>ELECTRICAL INFORMATION &amp; GROUNDING .....</b>	<b>5</b>
<b>OPERATING INSTRUCTIONS .....</b>	<b>6</b>
INITIAL START-UP .....	6
CONTROLS .....	6
LIGHT REPLACEMENT .....	6
SHELVES .....	6
TILT-OUT FRONT GLASS .....	7
DOORS .....	7
PLACING PRODUCT INTO CASE .....	7
<b>CLEANING INSTRUCTIONS .....</b>	<b>8</b>
DAILY CLEANING .....	8
WEEKLY CLEANING .....	8
INTERIOR CLEANING .....	9
EXTERIOR CLEANING .....	9
<b>SERVICE INFORMATION .....</b>	<b>10</b>
PRE-SERVICE CHECKLIST .....	10
<b>SALE &amp; DISPOSAL .....</b>	<b>11</b>
OWNER RESPONSIBILITY .....	11
<b>ELECTRICAL DATA .....</b>	<b>11</b>
<b>REPLACEMENT PARTS .....</b>	<b>12</b>
<b>WIRING DIAGRAM .....</b>	<b>13</b>
<b>WIRING DIAGRAM - 220 VOLT .....</b>	<b>14</b>

---

---

# INTRODUCTION

---

---

Thank you for purchasing a Federal Industries display case. This manual contains important instructions for installing and servicing the Non-Refrigerated Curved Glass Hi-Style Display Case. 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:

**Warranty/Technical Service Department**

**Federal Industries**

**Toll Free (800) 356-4206**

**WI Phone (608) 424-3331**

**[geninfo@federalind.com](mailto:geninfo@federalind.com)**

---

---

# 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.

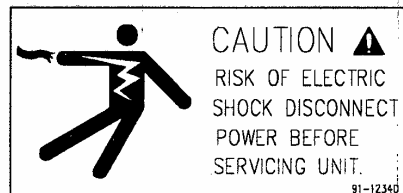
---

---

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.

---

---



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

---

---

# 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, 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 4 bolts that secure the case to the skid. The front panel will have to be removed to remove the 2 front bolts.

## Removing the Packaging Material

Remove the shipping tags that secures the doors, tilt-out front glass, and drawers. 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 and side 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 connection box.

### **Front Panel & Package Shelf Removal**

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

The same procedure is used to remove the front package shelf. The ends panels must be on the case before installing either the flat front or package shelf.

### **End Panel Removal**

The flat front or package shelf must be removed before removing the end panels. To remove the end panel used with the flat front, the front mounting bracket has to be removed. Then slide the panel forward and lift it off the case.

To remove the end panel used with the package shelf, slide the panel forward and lift it off the case.

### **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.

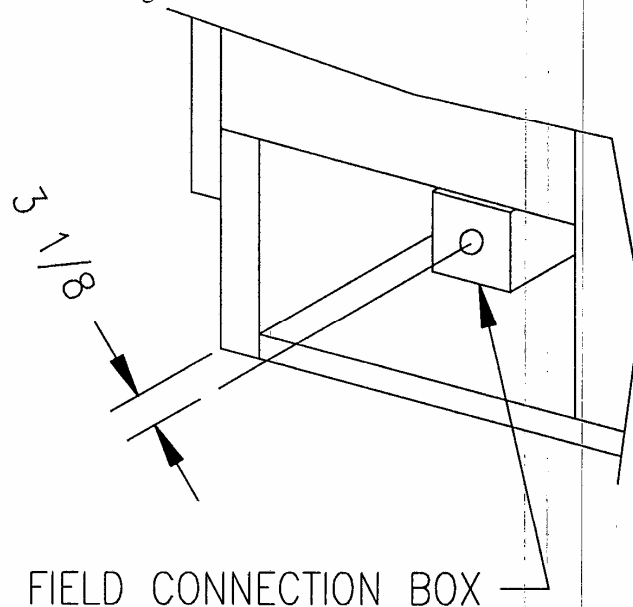
All electrical wiring hookups must be done in accordance with all applicable local, regional, or national electrical standards.

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 a power source. See the electrical data plate located at the rear of the case for proper circuit size and wire ampacity.

The electrical connection box is accessible from the rear of the case. See diagram below for location of the field wiring connection box.



---

---

# **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.

## **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.

## **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.

## **Shelves**

There are three tiers of fixed glass shelves. There are slots in the shelf brackets for locating the rear shelf support bars.

The bottom shelf support bar should be in the back set of shelf bracket slots. The front set of slots is used for the Model CGHIS-3.

Make sure there are four rubber pads on each shelf support and light housing. The glass shelves rest on the rubber pads. There are two glass shelves for each tier.

### **Tilt-Out Front Glass**

The front glass tilts out for easy cleaning of the case interior. Spring loaded folding arms assist in opening the glass and holds 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 pans.

When using rear service pullout drawers, do not place excessive downward pressure on drawers. Make sure that drawers slide freely and seal snugly when closed.

---

---

# 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. 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 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. Remove all shelves from the case by sliding them rearward and through the door opening.
3. Remove the shelf support bars by lifting one end and then the other off the shelf hanger then through the door opening.
4. Slide the rear service drawers to the open position.
5. Open the tilt-out front glass.
6. 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.*

7. Clean all shelves, shelf support bars, and the front air grill using warm soapy water and a brush. Rinse thoroughly and allow to dry.
8. 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.
9. Clean both sides of the doors, end glass, and interior of the front glass using any common window cleaner.



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

10. Reassemble the case in reverse order starting with Step 5.

## **Exterior Cleaning**

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



**CAUTION: Do not use alcohol based or solvent cleaners on the front or side 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**  
**Federal Industries**  
**Toll Free (800) 356-4206**  
**WI Phone (608) 424-3331**  
[geninfo@federalind.com](mailto: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.

### *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 sockets.

---

---

## 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

---

---

**CGHIS-2 IS 120 VOLTS, 1 PHASE, 60 HERTZ**

**AMPS**

Fan Motor	0.5
Lamp Circuit	1.3

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

---

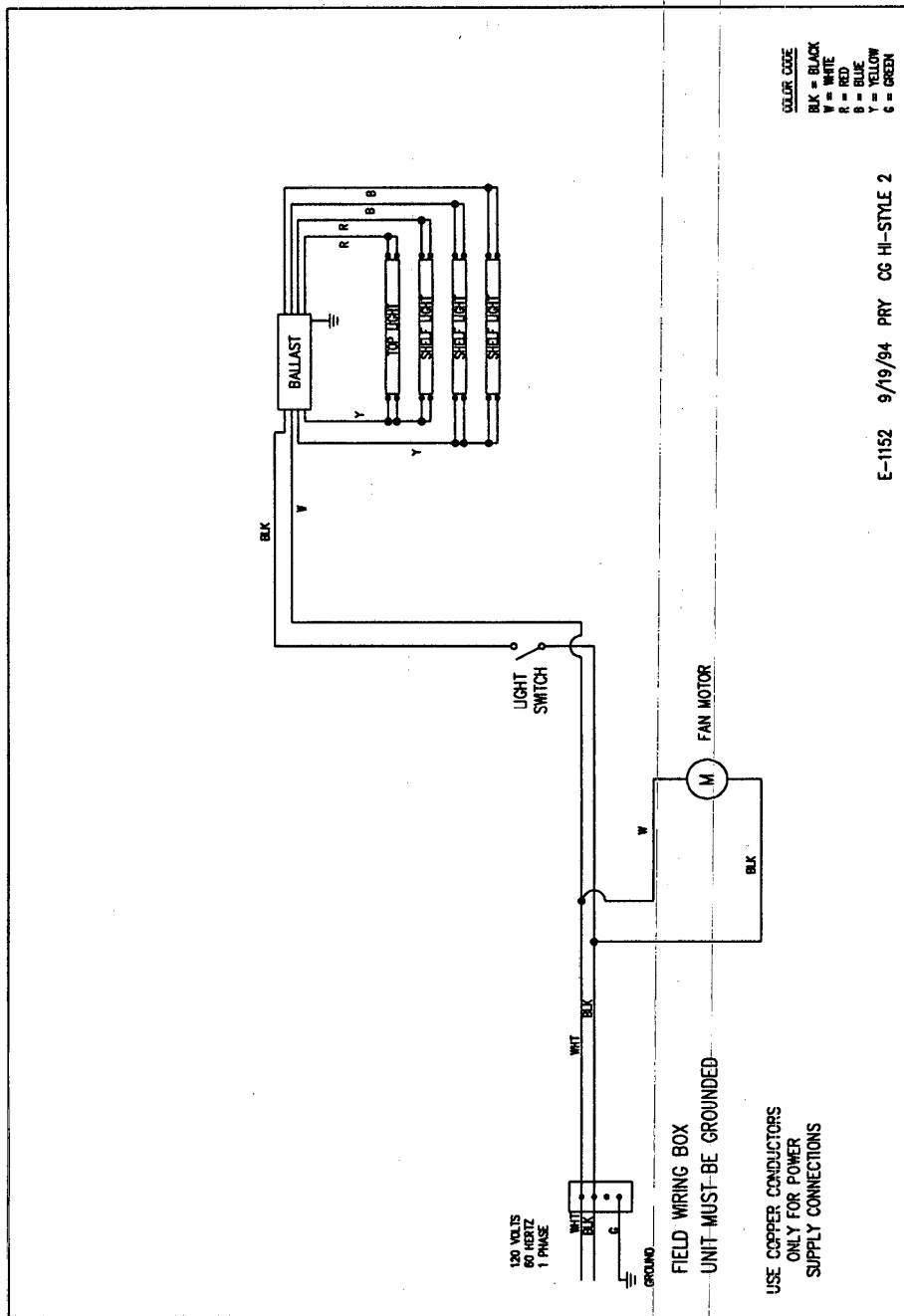
## REPLACEMENT PARTS

### MODEL CGHIS-2

---

Part Description	Part Number
<b><u>Electrical Components</u></b>	
Light Switch	41-11066
Ballast	39-12904
Light Bulb	42-11070
Light Socket (Spring Loaded)	42-10833
Light Socket (Fixed)	41-11628
<b><u>Misc. Components</u></b>	
Glass Shelf Top	56-12282
Glass Shelf Middle	52-12283
Glass Shelf Bottom	52-12284
Light Shield	42-30212
Glass End Clear	50-18461
Mirror End R.H.	55-18462-R
Mirror End L.H.	55-18462-L
Front Glass	SA4623
Door L.H. Clear	53-11164
Door R.H. Clear	53-11165
Door L.H. Mirrored	53-11166
Door R.H. Mirrored	53-11167
Decal – Electrical Hazard	91-10743
Decal – Slip Hazard	91-11175
Drawer Seal	56-11967
Front Glass Spring L.H.	66-12395
Front Glass Spring R.H.	66-12396

# WIRING DIAGRAM



# WIRING DIAGRAM

