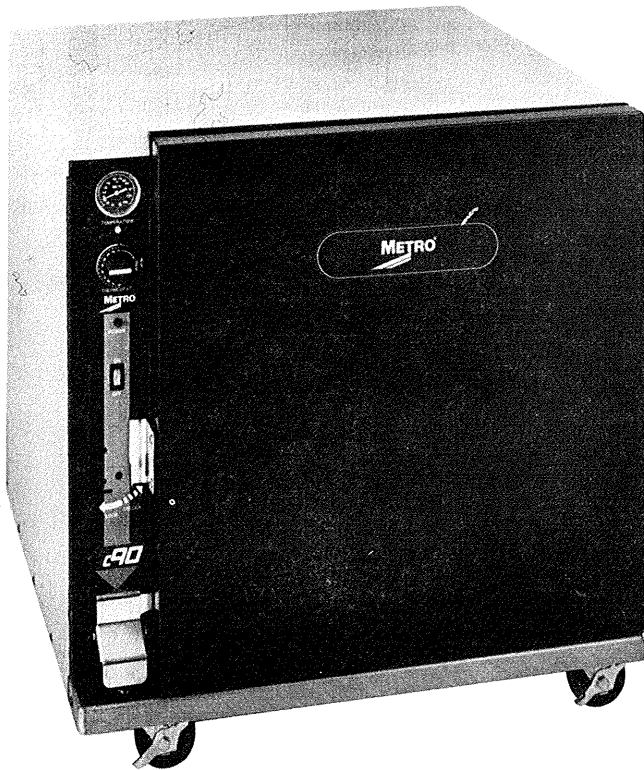


C190

L01-148*
Rev. A
9/95

USER MANUAL FOR THE METRO C190 SERIES INSULATED HEATED CABINET



InterMetro Industries Corporation
Wilkes-Barre, PA 18705
717-825-2741

TABLE OF CONTENTS

SECTION	PAGE
I. Introduction	
A. Identifying Your Cabinet	1
II. Operating Instructions	
A. Slide Racks	2
B. Cabinet Start-Up	3
III. Replacement Parts and Procedures	
A. Cabinet	4, 6-7
Door	5-7
B. Control Panel	8-9
IV. Wiring Schematic	10
V. Cleaning Instructions	11
VI. Maintenance	11
VII. Service Notes	15
VIII. Warranty and Warranty Card	12-13

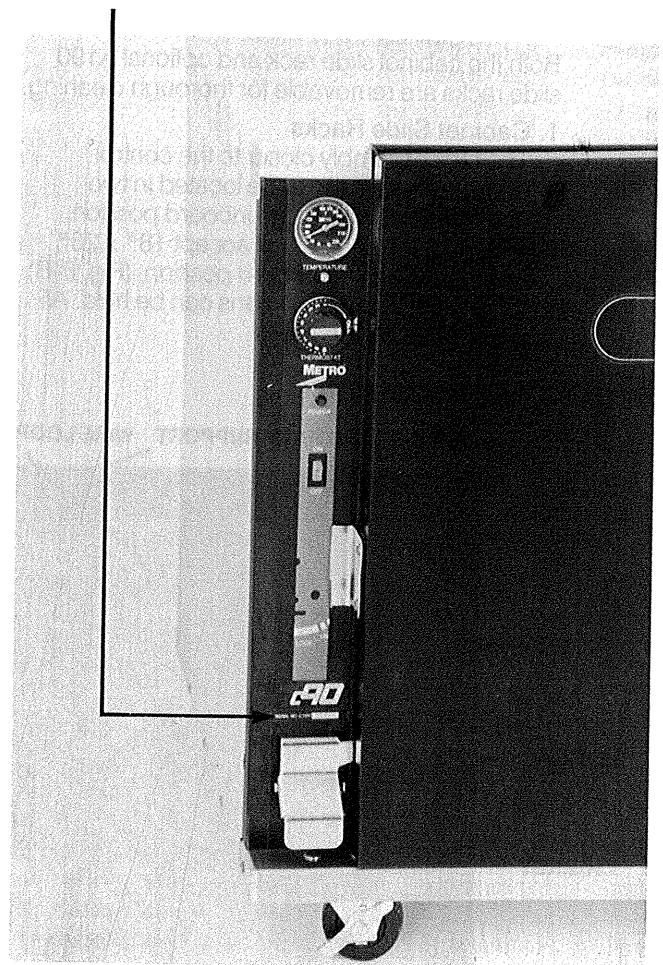
I. INTRODUCTION

A. IDENTIFYING YOUR CABINET

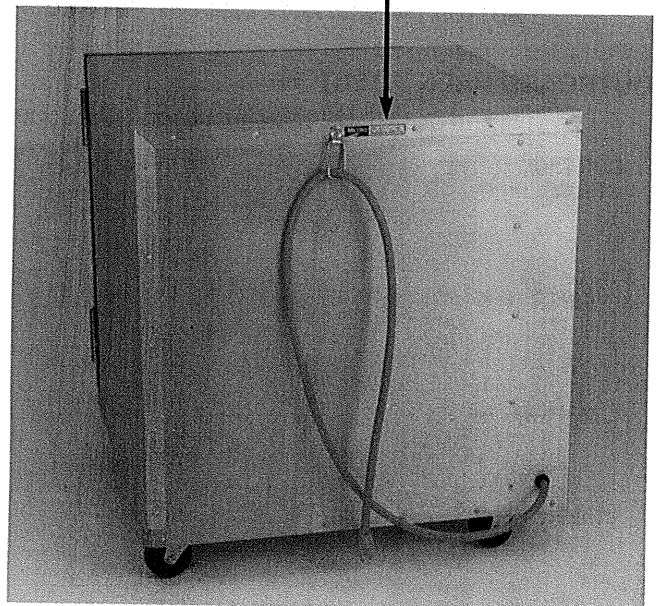
Your C190 cabinet has been shipped to you in one carton. The carton contains the cabinet with the slide racks already in place inside the cabinet.

There are two component numbers you should record for future reference: the cabinet model number and serial number. Refer to the photos at right to locate these numbers. It is recommended that these numbers be recorded in an appropriate place such as the inside of this manual for easy future reference. Also, please record the cabinet model number and serial number on the Warranty Card found on the back of this manual. Be sure to complete the remainder of the Warranty Card and return it to Metro within fifteen (15) days of delivery of the cabinet.

LOCATION OF
SERIAL NUMBER



LOCATION OF
MODEL NUMBER



NOTE: Please read this manual thoroughly before using your cabinet. If you should have questions, please contact our Metro customer service department, phone (717) 825-2741

II. OPERATING INSTRUCTIONS

A. SLIDE RACK ASSEMBLY

Both the cabinet slide rack and optional A190 slide racks are removable for thorough cleaning.

1. Cabinet Slide Racks

The rack assembly closer to the control panel has the ability to be located in two different locations. In the inboard position, (Fig. A-A) the cabinet will accept 18" x 26" bun pans. In the outboard position, (Fig. B-B) 12" x 20" steam table pans can be held. All pans are to be lip loaded.

INBOARD RACK POSITION

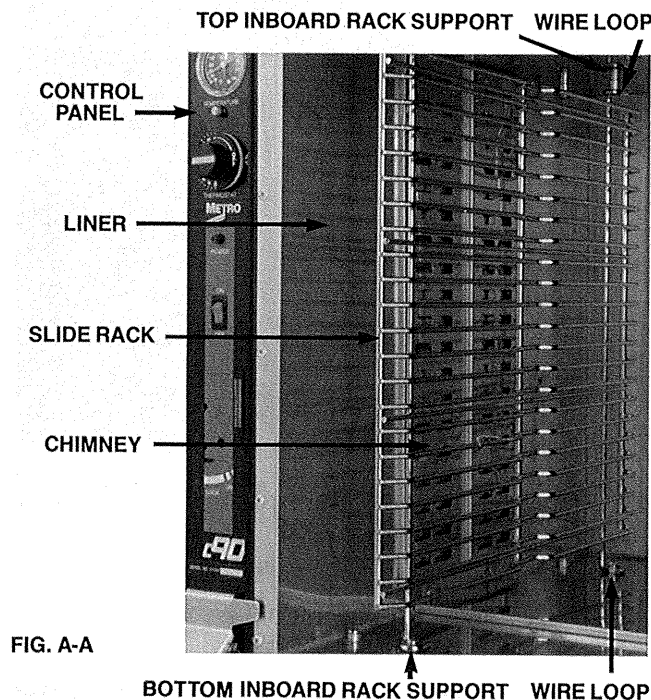


FIG. A-A

OUTBOARD RACK POSITION

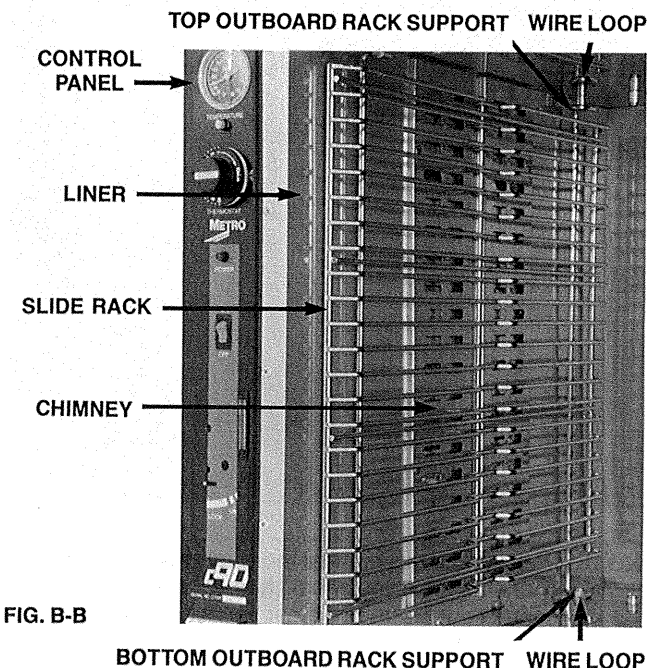


FIG. B-B

To Remove The Racks From The Cabinet:

- Lift rack upward until bottom wire loops are clear of the floor mounted supports. Tip rack, bringing bottom inward toward center of cabinet.
- When top of rack has cleared top supports, pull assembly from cabinet.
- Repeat for other slide rack.

To Install The Racks In The Cabinet:

- On the hinge side of cabinet, tip rack and guide top loop wires onto the top supports. Rotate rack bottom outward and lower loop control wires onto bottom supports.
- On the panel side, confirm pan size and type. For bun pans (18" x 26") tip the rack and install top loop wires onto the top supports closer to the center of the cabinet. Lower bottom loop wires onto the pair of bottom supports located closer to the center of the cabinet. (Fig. A-A) For steam table pans (12" x 20") install as per hinge side placing the rack on the outboard set of supports.

2. A190 Converta-Slide-Optional

Using a pair of these slides, the cabinet can accept **both** bun and steam table pans. The optional slides are designed to hold (18" x 26") bun pans. All bun pans are to be bottom loaded.

- Before installing the A190 slides, the standard cabinet slide racks must be located in the outboard position. (Fig. B-B)
- To mount slides, center the A190 slide rack front-to-back on the standard rack assembly.
- Tip the ledge or leg of the slide upward so the top short wire legs fall between cabinet slide wires. (Fig. C-C)
- Rotate downward locking short legs behind cabinet slide wires. Lower frame wire must rest on the top of the cabinet slide wire not below. (Fig. D-D)
- To remove, rotate unit upward until it is free of slide.

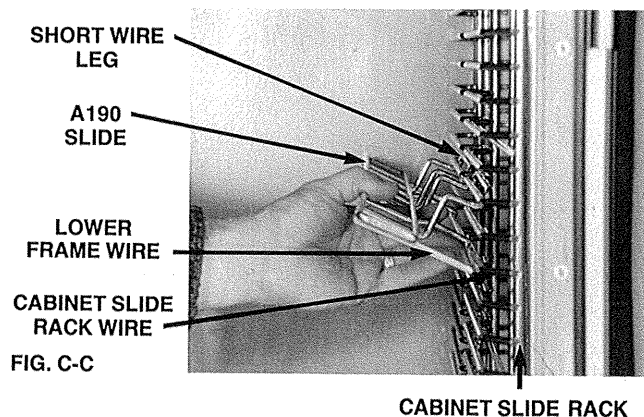


FIG. C-C

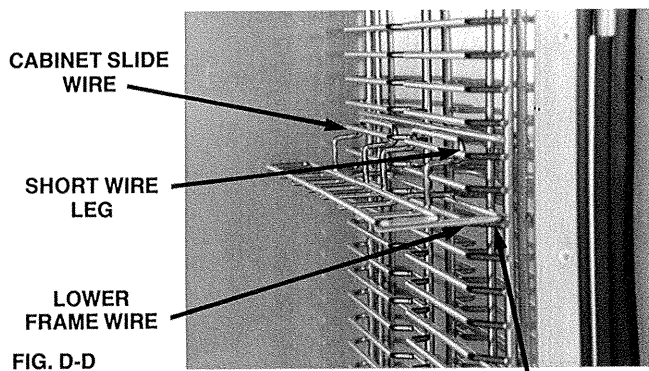


FIG. D-D

CABINET SLIDE WIRE

B. CABINET START-UP

1. A six-foot, three-wire grounded lead cord is supplied fixed to the cabinet. The cord cannot be separated from the cabinet.

CAUTION: With the POWER switch OFF, plug the lead cord into a standard grounded 15-amp, 125-VAC receptacle.

2. Set the thermostat dial to setting 10 = HIGH.
3. Snap the POWER switch to ON. The red POWER light will now glow as will the yellow indicator light indicating that power is on and that the heating element is activated and heating up.
4. Allow the cabinet to PREHEAT FOR APPROXIMATELY 30 MINUTES. After that time, the thermostat can be lowered to a setting of 6 or 7. In a room of average temperature (72°F), this should provide 150°F to 170°F. Adjustments to the temperature may be made as necessary.

NOTE: The POWER (red) light will glow as soon as the POWER switch is switched ON and will continue to glow until switched OFF. The yellow indicator light will go on and off as the thermostat cycles. If the yellow light is not illuminated, this indicates that the cabinet has achieved the preset TEMPERATURE level, NOT that the unit has been switched OFF.

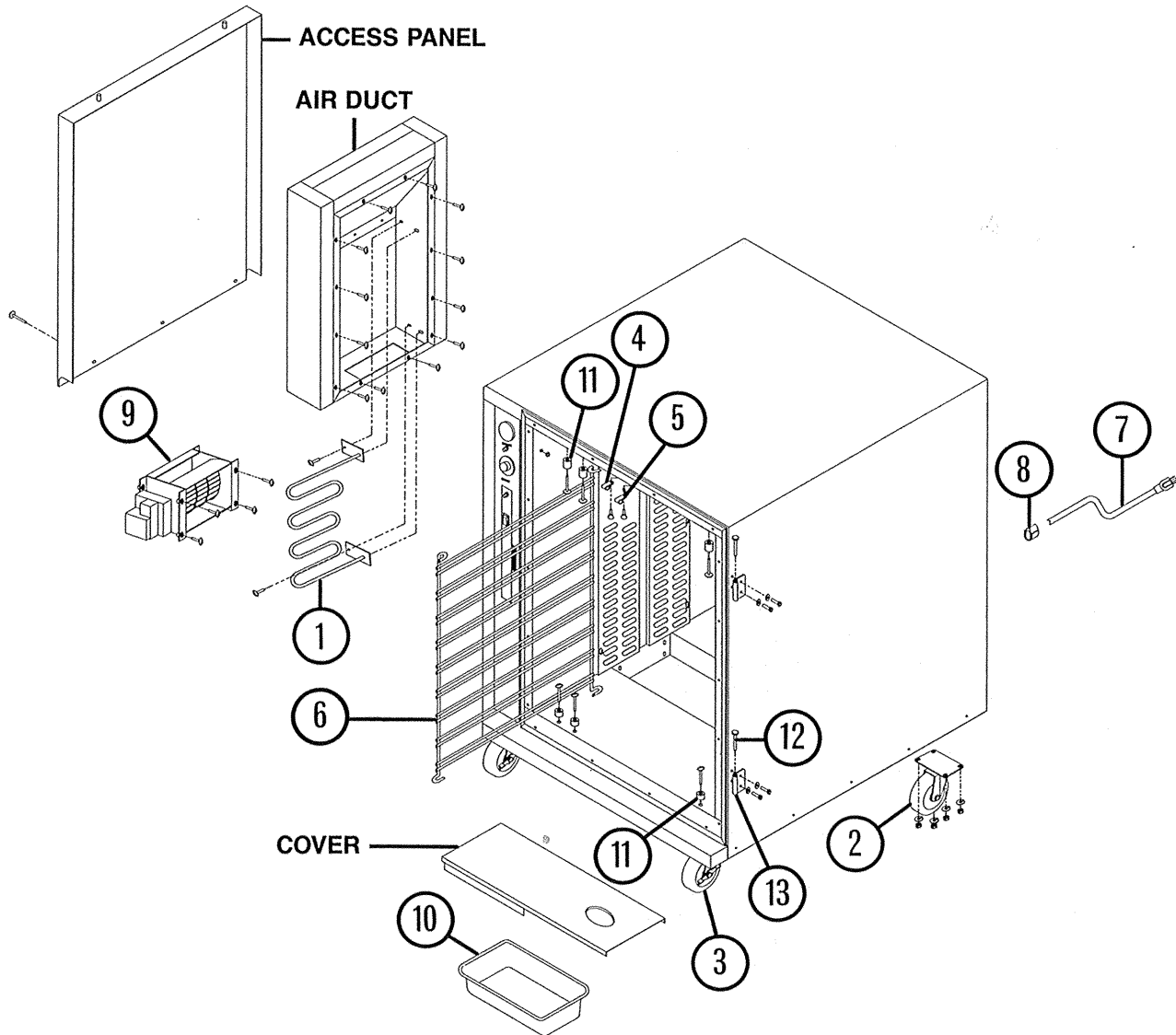
It is not necessary at the end of the operating day to disrupt the temperature setting in order to turn the unit OFF. By switching the POWER switch to OFF, the unit is no longer operating. By switching the POWER switch to ON when resuming operations, the cabinet will attain the preset level.

III. REPLACEMENT PARTS AND PROCEDURES

A. CABINET

1. Refer to C190 Series Cabinet Replacement Parts Diagram to identify the part(s) to be replaced.
2. Refer to the Replacement Procedure Chart on pages 6 and 7 for replacement instructions.

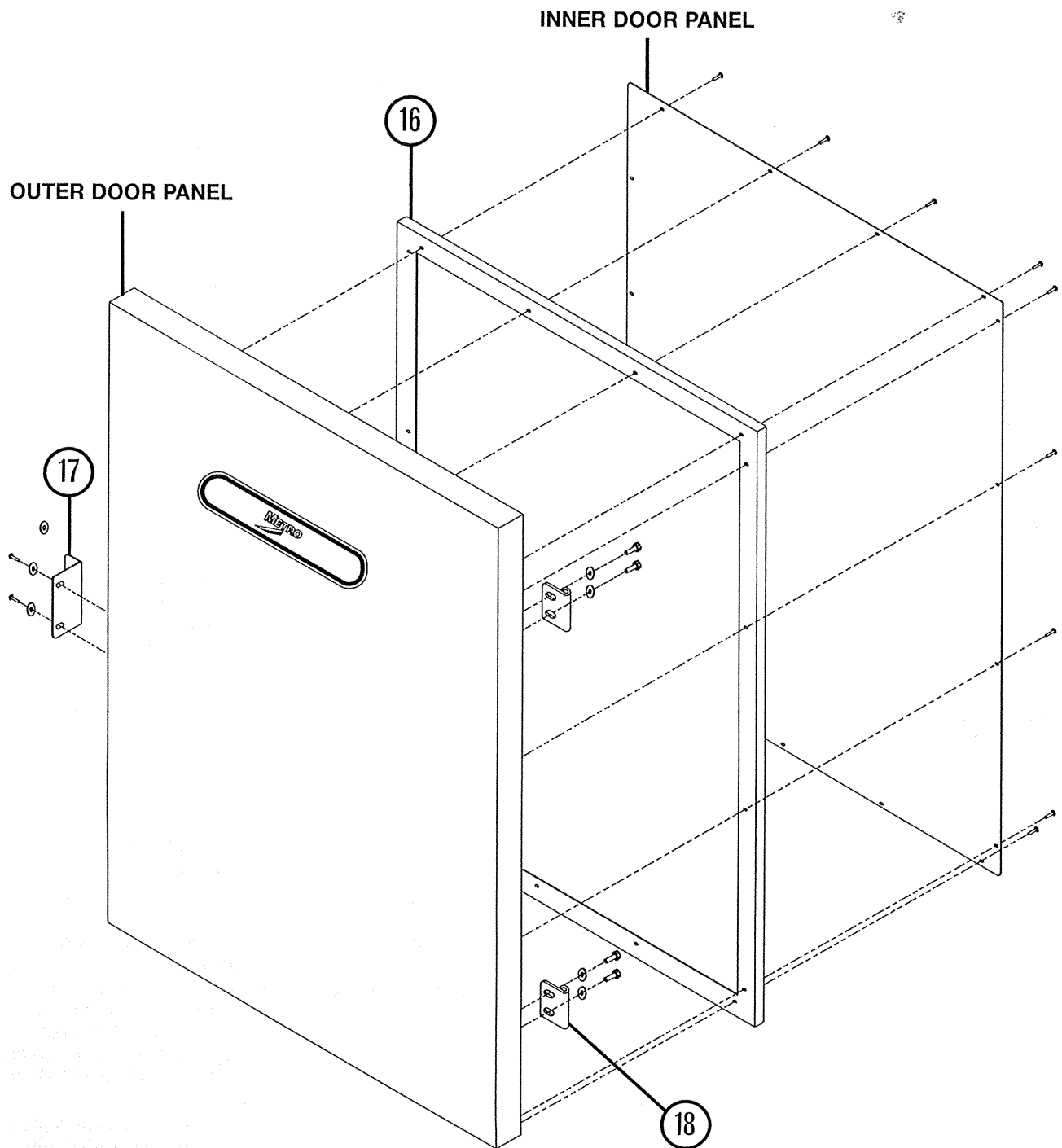
C190 Cabinet Replacement Parts Diagram



REPLACEMENT PARTS LIST

- | | |
|---------------------------|--------------------|
| 1. Heating Element | 8. Strain Relief |
| 2. Caster — without Brake | 9. Blower Assembly |
| 3. Caster — with Brake | 10. Water Pan |
| 4. Thermometer Bulb Clamp | 11. Rack Supports |
| 5. Thermostat Bulb Clamp | 12. Hinge Pin |
| 6. Slide Rack | 13. Cabinet Hinge |
| 7. Lead Cord | 14. Star Bushing |

C190 Door Replacement Parts Diagram



REPLACEMENT PARTS LIST

- 15. Complete Door Assembly
- 16. Door Gasket
- 17. Strike Plate
- 18. Hinge

C190 SERIES CABINET REPLACEMENT PROCEDURE CHART

CAUTION: Before any repair/replacement of parts, be certain to disconnect cord from power source.

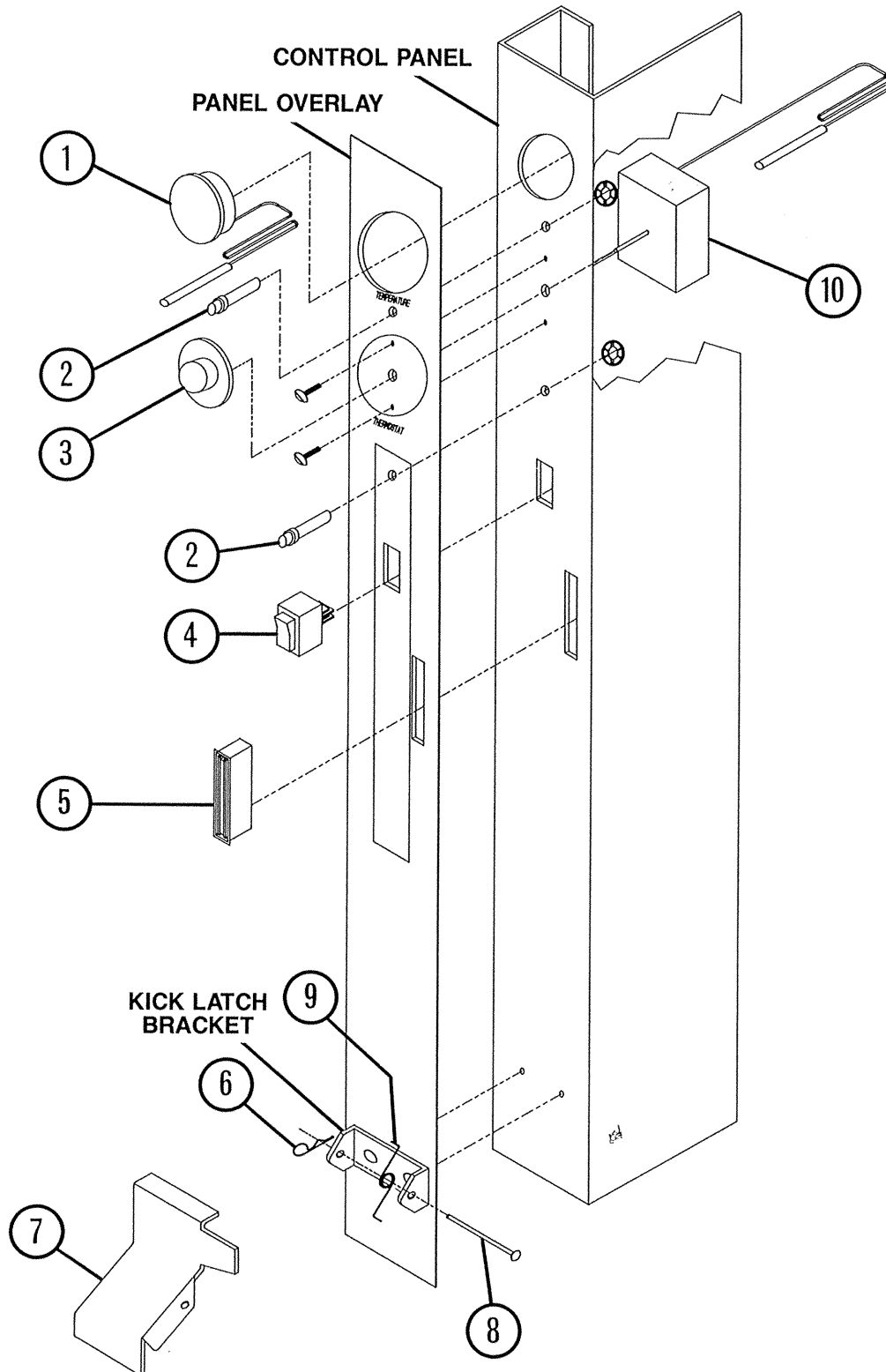
PART TO BE REPLACED	REPLACEMENT PROCEDURE
1. Heat Element	<ol style="list-style-type: none"> 1. Remove access panel on control panel side of cabinet. 2. Disconnect heating element wires. 3. Remove the slide rack closer to the control panel. 4. Remove 4 screws securing chimney to liner. 5. Separate air duct from cabinet by removing the screws located inside the cabinet near the louvers. 6. Remove screws securing element to air duct. 7. Replace element with part number RPC13-114.
2. Caster w/o Brake	<ol style="list-style-type: none"> 1. Lay cabinet over onto its back and remove mounting hardware. 2. Replace with part number B3.
3. Caster w/Brake	<ol style="list-style-type: none"> 1. Lay cabinet over onto its back and remove mounting hardware. 2. Replace with part number B3B.
4. Thermometer Bulb Clamp	<ol style="list-style-type: none"> 1. Remove clamp and replace with part number RPC06-222.
5. Thermostat Bulb Clamp	<ol style="list-style-type: none"> 1. Remove clamp and spacer and replace with part number RPC06-221 (Clamp), RPC11-129 (Spacer).
6. Slide Rack	<ol style="list-style-type: none"> 1. Replace with part number RPC190-RACK. 2 required per cabinet.
7. Lead Cord	<ol style="list-style-type: none"> 1. Remove access panel. 2. Remove green grounding wire from chassis. 3. Note the location of each cord wire (black and white) connection. Mark cabinet electrical wires if necessary. 4. Using wire cutters, cut the wires of the cabinet just below the wire joints. 5. Refer to "Strain Relief" for removal and replacement. 6. Replace cord with part number RPC13-017. Install ring terminal part number RPC13-012 to the green lead wire. 7. Slip the new cord through the opening and fasten green ground wire to chassis. 8. Using the wiring schematic, connect the cabinet wires by first stripping off 5/8" insulation and twisting the strands. Next, twist the cabinet wire to the proper cord wire and crimp on wire joining part number RPC13-085. No wire strands should be showing at the bottom of the joint.

PART TO BE REPLACED	REPLACEMENT PROCEDURE
	<ol style="list-style-type: none"> 9. Position the cord so that approximately 1" of the outer jacket is projecting through the cabinet enclosure. Then squeeze on a new strain relief part number RPC13-083. Be certain that the flats of the strain relief match the flats of the hole.
8. Strain Relief	<ol style="list-style-type: none"> 1. Remove access panel. 2. It is not necessary to disconnect and remove the lead cord. Using pliers, squeeze the strain relief from the inside and push it out through the mounting hole. Replace with part number RPC13-083. 3. Install new relief onto the cord, squeeze and insert into mounting hole. Be certain that the flats on the relief match the flats of the hole.
9. Blower Assembly	<ol style="list-style-type: none"> 1. Remove access panel. 2. Remove cabinet air duct cover and water pan. 3. Disconnect blower motor wires 4. Remove blower mounting hardware located inside cabinet air duct. 5. Replace blower with part number RPC13-087. 6. Mount new blower assembly and seal junction of blower and heating element air duct with an FDA food grade silicone. 7. Connect blower wires to the appropriate terminals. 8. Install access panel, water pan and air duct cover.
10. Water Pan	<ol style="list-style-type: none"> 1. Replace with part number RPC06-184.
11. Rack Supports	<ol style="list-style-type: none"> 1. Replace top supports with part number RPF07-055 and bottom supports with part number RPF07-056.
12. Hinge Pin	<ol style="list-style-type: none"> 1. Replace with part number RPF07-050.
13. Cabinet Hinge	<ol style="list-style-type: none"> 1. Replace with part number Hinge-0355.
14. Star Bushing	<ol style="list-style-type: none"> 1. Remove thermometer and thermostat bulb clamps and carefully push the bulbs out through the grommet being certain not to bend or kink the capillary tubes. 2. Pry out the bushing and replace with part number RPC06-189.
15. Complete Door	<ol style="list-style-type: none"> 1. Open door and swing open to 180° to clear cabinet hinge pins. Lift door off hinges. 2. Replace with part number RPC190-3000.

NOTE: Be certain to check door gasket seal is equal all around door before tightening the hinge screws. When door is properly adjusted, it will close properly when simply swung closed. (No hand pressure)

16. Door Gasket	1. Remove door.
	2. Lay complete door on flat surface (place cardboard or equiv. down first so as not to scratch or mark door surface). Remove fasteners retaining inner door panel and retain. Lift inner panel off and remove damaged door gasket. Carefully replace gasket with part number RPC13-331. Place inner panel over new gasket and fasten. Do not overtighten. See Complete Door for adjustment.
17. Strike Plate	1. Remove damaged strike plate and replace with part number C190-3400.
18. Hinge Door	1. Remove door.
	2. Remove damaged hinge and replace with part number RPHINGE-0355.
	3. Replace door.

C190 Control Panel Replacement Parts Diagram



REPLACEMENT PARTS LIST

- | | |
|------------------------------------|----------------|
| 1. Thermometer | 6. Cotter Pin |
| 2. Indicator Lights (RED) (YELLOW) | 7. Kick Latch |
| 3. Thermostat Knob | 8. Clevis Pin |
| 4. Power Switch | 9. Spring |
| 5. Magnetic Door Catch | 10. Thermostat |

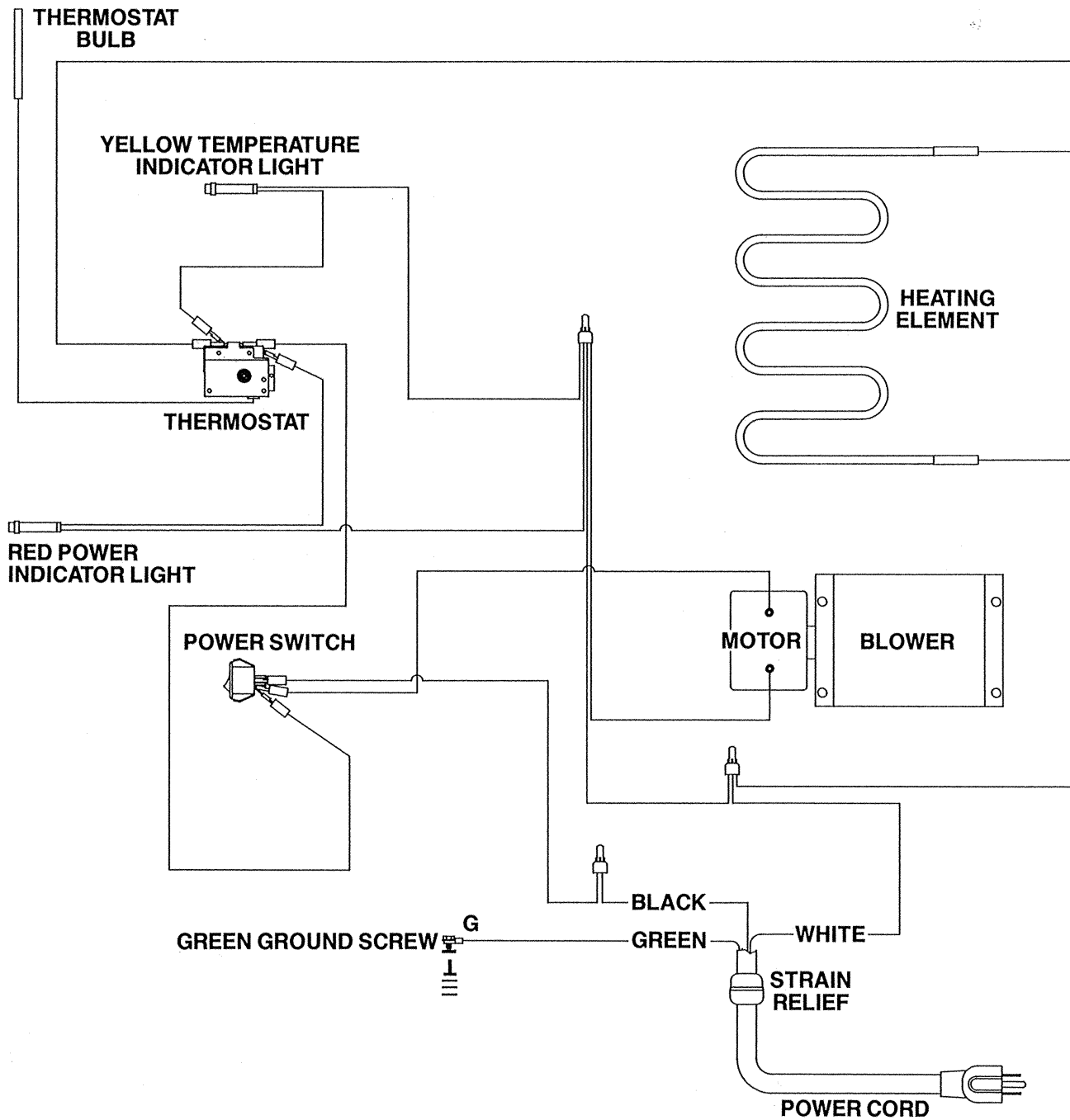
C190 CONTROL PANEL REPLACEMENT PROCEDURE CHART

CAUTION: Before any repair/replacement of parts, be certain to disconnect cord from power source.

PART TO BE REPLACED	REPLACEMENT PROCEDURE
1. Thermometer	<ol style="list-style-type: none"> 1. Remove access panel 2. Remove the screw retaining the bulb to the inner liner. 3. Push the thermostat bulb first, then the thermometer bulb through the hole in the cabinet side and out through the bushing in the outer wrapper. Replace thermometer with part number RPC13-109. Carefully uncoil new tubing and bulb and feed through the bushing in the cabinet side. CAUTION: DO NOT make sharp bends or kinks in the capillary tubing. 4. Seal the hole around the capillary tubing in the inside of the cabinet with a FDA grade silicone sealant. If inner grommet is damaged, replace with part number RPC07-044.
2. Indicator Lights (Red or Yellow)	<ol style="list-style-type: none"> 1. Note the location of each wire connected to the pilot lights. Mark them if necessary. 2. Disconnect the indicator wires. Clip the wires connected in the crimp-on wire joints (where used) leaving the cut wires as long as possible. 3. Using a small screwdriver, pry loose the retaining clip from the light body. Draw light and wires through control panel. 4. Install new light (Red - part number RPC13-064, Yellow - part number RPC13-105) and retaining clip with part number RPF02-042. 5. Strip the insulation from any wires that attach to a crimp-on wire joint so that $\frac{5}{8}$" of bare wire are exposed. If a spade connector is used, expose $\frac{3}{8}$" of bare wire. 6. Install new crimp-on wire joint(s), part number RPC13-085, connecting the correct wires together. Replace the spade connector, part number RPC13-027. Then install spade connector to the proper terminal.
3. Thermostat Knob	<ol style="list-style-type: none"> 1. Pull knob from shaft of thermostat and replace with part number RPC13-313.

PART TO BE REPLACED	REPLACEMENT PROCEDURE
4. Power Switch	<ol style="list-style-type: none"> 1. Remove access plate. 2. Note the location of each wire connected to the power switch, marking if necessary. Also note the orientation of numbers molded into the switch body of each terminal. 3. Remove wires from switch. 4. Depress plastic tabs on switch body and push it out through the control panel. 5. Install new switch part number RPC13-127. 6. Reconnect wires to correct terminals.
5. Magnetic Door Catch	<ol style="list-style-type: none"> 1. Remove access panel. 2. Remove old latch by pinching the top and bottom of the magnet housing from the inside of the control panel. Push the part out through the front. 3. Replace with part number RPC14-038 by inserting from front of control panel.
6. Cotter Pin	<ol style="list-style-type: none"> 1. Replace with part number RPF07-040.
7. Kick Latch	<ol style="list-style-type: none"> 1. Remove cotter pin, clevis pin, spring and defective latch. 2. Replace kick latch with part number RPC09-027.
8. Clevis Pin	<ol style="list-style-type: none"> 1. Replace with part number RPF05-017.
9. Spring	<ol style="list-style-type: none"> 1. Replace with part number RPC10-009.
10. Thermostat	<ol style="list-style-type: none"> 1. Remove access panel. 2. Remove the screw retaining the bulb to the inner liner. 3. Carefully push the thermostat bulb through the hole in the cabinet side. If required — replace grommet with part number RPC07-044 and thermostat with part number RPC13-113. Attach wires to correct terminals. 4. Carefully uncoil new tubing and bulb and feed through the bushing in the cabinet side. CAUTION: DO NOT make sharp bends or kinks in the capillary tubing. 5. Coil the unused portion of the capillary tube near the top of the control panel BEING CAREFUL TO KEEP THE TUBE CLEAR OF ANY ELECTRICAL TERMINALS. 6. Seal the hole around the capillary tubing in the inside of the cabinet with a FDA grade silicone sealant.

IV. WIRING SCHEMATIC



V. CLEANING INSTRUCTIONS

Your C190 series cabinet has been listed by the National Sanitation Foundation (NSF) which means that it has been designed and constructed in a way that promotes a sanitary condition, i.e. sanitary materials and easy cleanability. To maintain a sanitary condition and obtain the best cabinet performance, Metro strongly suggests that the cabinet be thoroughly cleaned on an adequate regular basis — daily if necessary.

A. REMOVAL OF INTERIOR COMPONENTS FOR CLEANING

All interior components are removable, without tools, for thorough, unobstructed cleaning.

1. Make sure the lead cord is NOT plugged into outlet. A cord keeper is provided for storing the cord when not in use. If just switched OFF, let the cabinet cool to a safe temperature.
2. If necessary, the door may be removed by simply lifting it from its cabinet-mounted hinges. Do not place the door against an object that may scratch the door or damage the gasket.
3. The slide racks may be removed by lifting them from their respective supports.
4. After cleaning, simply reverse the above steps to reassemble the cabinet.

B. SPECIFIC CLEANING INSTRUCTIONS

1. Do not immerse the cabinet when cleaning. Instead, use a damp cloth and a drying towel. BE SURE TO THOROUGHLY DRY THE UNIT BEFORE RETURNING IT TO USE.

C. GENERAL CLEANING INSTRUCTIONS

1. LIGHT SOIL
If routine (daily) cleaning is practiced, a mild soap and warm water should be sufficient to keep the unit clean.
2. HEAVIER SOIL
If cleaning has been postponed, solvent or emulsion type cleaners that can be applied with bare hands will give excellent results. Such cleaners are available under various brand names and detergent suppliers can recommend materials appropriate for use on natural and epoxy-coated aluminum and stainless steel interior liner.

NOTE: For every cleaning method, best results are always obtained when the cleaner and technique are matched to the soil conditions involved. To ensure using the proper cleaner for natural and epoxy-coated aluminum and stainless steel, contact your detergent representative.

VI. MAINTENANCE

A. CABINET MAINTENANCE — ALL MODELS

Your C190 series cabinet has been designed to require very little maintenance. With normal use, cleaning is the only form of maintenance that need be done on a regular basis. Keeping the casters free of dirt build-up will go a long way in prolonging their life.

If your cabinet is rolled over rough surfaces or transported over-the-road, the various threaded fasteners, i.e., screws and nuts, should be periodically inspected and tightened if necessary, particularly the hinge and caster fasteners.

B. CONTROL PANEL MAINTENANCE

The control panel of your cabinet has also been designed to require very little maintenance. With normal use, cleaning is the only form of maintenance that need be done on a regular basis. No maintenance is required on the electrical components.

Warranty

WARRANTY, EXCLUSION OF WARRANTIES AND LIMITATION OF LIABILITY.

InterMetro Industries Corporation (hereinafter referred to as "Seller") warrants to the original purchaser that all products in its catalog, or custom products, delivered hereunder will be free from defects in workmanship and material. THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This Warranty shall be for a period of one (1) year from the date of shipment from Seller's warehouse or factory. If any product delivered hereunder does not meet the Warranty specified above, providing the product has not been altered in any way by anyone other than Seller's factory-authorized representative, and assuming normal and proper use and maintenance, Seller will, at its option, repair or replace any part or material it determines, upon inspection, to be defective; provided, however, that a charge for labor will be made except during a period of ninety (90) days from the date of original shipment from Seller's warehouse or factory. No product, or part thereof, is to be returned to Seller without prior written approval from Seller's factory. All exchanges and replacement shipments will be F.O.B. Seller's factory. Warranties for equipment or articles not manufactured by the Seller are solely the warranties of the manufacturers thereof and they are hereby assigned to the purchaser without recourse to the Seller.

SELLER'S LIABILITY FOR ANY CLAIM OF ANY KIND, WHETHER BASED ON CONTRACT, NEGLIGENCE OR STRICT LIABILITY IN TORT, AND BY WHOMEVER MADE, FOR ANY DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL LOSS, DAMAGE OR INJURY, RESULTING TO THE PURCHASER OR ANY THIRD PARTIES, arising out of, connected with or resulting from this Agreement, or from the performance or breach thereof, or from the manufacture, sale, delivery, resale, installation, inspection, repair or use of any product covered by or furnished under this Agreement, WHETHER OR NOT CAUSED BY SELLER'S NEGLIGENCE, SHALL IN ALL EVENTS BE EXCLUSIVELY LIMITED TO THE COST OF CORRECTING DEFECTIVE, DAMAGED OR NON-CONFORMING PARTS OR MATERIAL AS HEREIN PROVIDED, and upon the expiration of one (1) year, all such liability shall terminate.

SELLER DOES NOT AUTHORIZE any person to assume for it any obligations or liabilities greater than or different than those set forth in this Warranty. The terms under which any of Seller's products may be resold must be limited in accordance with this Warranty.

THIS AGREEMENT, and all the rights and obligations arising hereunder, shall be construed in accordance with, and be governed by, the law of the Commonwealth of Pennsylvania, U.S.A.

TO INSURE WARRANTY implementation, return the completed registration card within 15 days of cabinets' receipt to: InterMetro Industries Corp., Wilkes-Barre, Pa. 18705.



InterMetro Industries Corporation
Wilkes-Barre, PA 18705

Thank you for purchasing a Metro Mobile Heated Cabinet. We are certain you will be more than satisfied with its quality and performance. Please fill in the warranty information space below so we may register your warranty. Also, so that we may learn more about our customers and hopefully be of continued service in the future, please take a moment to fill in the customer information space below.

Thank You

CUT ALONG DOTTED LINE

CUSTOMER INFORMATION

1. Which one of the following best describes your establishment?

- a. ☐ Full Service Restaurant
- b. ☐ Fast Food Restaurant
- c. ☐ Hotel/Motel
- d. ☐ Hospital/Nursing Home
- e. ☐ College/University
- f. ☐ School
- g. ☐ Employee Feeding
- h. ☐ Other _____

WARRANTY INFORMATION:

Cabinet Model No. _____
Serial No. _____
Date Purchased _____
Customer Name _____
Address _____

Phone No. _____

For warranty coverage, this card must be returned to Metro.

FOLD HERE — DO NOT DETACH

2. Please indicate the two product benefits that were of major interest to you.

- a. ☐ Accessibility to controls without opening door.
- b. ☐ All components within cabinet removable for cleaning.
- c. ☐ Better control of conditions in cabinet.
- d. ☐ Aesthetic quality (styling).
- e. ☐ Other (in addition to above two) _____

- b. ☐ Overall quality
- c. ☐ Price
- d. ☐ Availability
- e. ☐ Other _____

3. Main factor that led to your decision to purchase this product?

- a. ☐ Product operating and functional features

4. Three sources that led to the purchase of this product — in the order of their impact (1 – being most impact; 3 – being least impact).

- a. ☐ Trade Journal Ad
- b. ☐ Trade Show
- c. ☐ Sales Call
- d. ☐ Direct Mail
- e. ☐ Previous Purchase
- f. ☐ Other _____

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IF MAILED
IN THE
UNITED STATES

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FIRST CLASS

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WILKES-BARRE, PA.

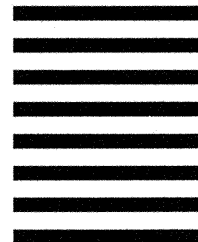
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INTERMETRO INDUSTRIES CORPORATION

Attn.: Customer Service

P.O. Box A

Wilkes-Barre, PA. 18705-9990



VII. SERVICE NOTES

VII. SERVICE NOTES