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User's Manual

Guardian™ Jr. Airflow Monitor

Models

Applies primarily to older Models 4865000, 4865001
Some operation and troubleshooting information applies for newer 97432 Series
See separate Instruction Sheets for installation on newer 97432 Series

To receive important product updates,
complete your product registration card
online at **register.labconco.com**

Please read the User's Manual before operating the equipment.

Warranty

Labconco Corporation provides a warranty to the original buyer for the repair or replacement of parts and reasonable labor as a result of normal and proper use of the equipment with compatible chemicals. Broken glassware and maintenance items, such as filters, gaskets, light bulbs, finishes and lubrication are not warranted. Excluded from warranty are products with improper installation, erratic electrical or utility supply, unauthorized repair and products used with incompatible chemicals.

The warranty for Guardian™ Jr. Airflow Monitors will expire one year from date of installation or two years from date of shipment from Labconco, whichever is sooner. Warranty is non-transferable and only applies to the owner (organization) of record.

Buyer is exclusively responsible for the set-up, installation, verification, decontamination or calibration of equipment. This limited warranty covers parts and labor, but not transportation and insurance charges. If the failure is determined to be covered under this warranty, the dealer or Labconco Corporation will authorize repair or replacement of all defective parts to restore the unit to operation. Repairs may be completed by 3rd party service agents approved by Labconco Corporation. Labconco Corporation reserves the rights to limit this warranty based on a service agent's travel, working hours, the site's entry restrictions and unobstructed access to serviceable components of the product.

Under no circumstances shall Labconco Corporation be liable for indirect, consequential, or special damages of any kind. This warranty is exclusive and in lieu of all other warranties whether oral, or implied.

Returned or Damaged Goods

Do not return goods without the prior authorization from Labconco. Unauthorized returns will not be accepted. If your shipment was damaged in transit, you must file a claim directly with the freight carrier. Labconco Corporation and its dealers are not responsible for shipping damages.

The United States Interstate Commerce Commission rules require that claims be filed with the delivery carrier within fifteen (15) days of delivery.

Limitation of Liability

The disposal and/or emission of substances used in connection with this equipment may be governed by various federal, state, or local regulations. All users of this equipment are required to become familiar with any regulations that apply in the user's area concerning the dumping of waste materials in or upon water, land, or air and to comply with such regulations. Labconco Corporation is held harmless with respect to user's compliance with such regulations.

Contacting Labconco Corporation

If you have questions that are not addressed in this manual, or if you need technical assistance, contact Labconco's Customer Service Department or Labconco's Product Service Department at 1-800-821-5525 or 1-816-333-8811, between the hours of 7:30 a.m. and 5:30 p.m., Central Standard Time.

Part #4861400, Rev. J
ECO L427

TABLE OF CONTENTS

Chapter 1: Introduction

Thank you for displaying confidence in us by selecting a Labconco Guardian Jr. Airflow Monitor. Our design engineers, assemblers and inspectors have utilized their skills and years of experience to ensure that the new Guardian Jr. Airflow Monitor meets our high standards of quality and performance.

Components Shipped

Carefully check the contents of this package for damage that may have occurred in transit. Do not discard the carton or packing material until all components have been checked against the following component list and the equipment has been installed and tested.

As shipped, the carton should contain the following:

Model 4865000 – Guardian Jr. Airflow Monitor – 115V 50/60 Hz

Qty	Part Number	Description
1	4854900	Alarm Module
1	4860600	Power Supply Assembly, 115V
2	1885608	Machine Screw 632 x ½ (Black)
1	4854800	Elbow, Tubing Connector
1	1548104	Probe
1	1919200	Velcro Loop, 1" wide
1	1919300	Velcro Hook, 1" wide
1	1344000	Strain Relief
5	1342200	Tie, Cable
1	4861400	Manual, Instruction
1	3605201	Wire, Assembly (White) 50" long
1	4861500	Wire, Assembly Jumper
2	1346800	Base, Wire Tie
2	1342300	Tie, Cable

Model 4865001 – Guardian Jr. Airflow Monitor – 230V 50/60 Hz

Qty	Part Number	Description
1	4854900	Alarm Module
1	4860601	Power Supply Assembly, 230V
2	1885608	Machine Screw 632 x ½ (Black)
1	4854800	Elbow, Tubing Connector
1	1548104	Probe
1	1919200	Velcro Loop, 1" wide
1	1919300	Velcro Hook, 1" wide
1	1344000	Strain Relief
5	1342200	Tie, Cable
1	4861400	Manual, Instruction
1	3605201	Wire, Assembly (White) 50" long
2	1346800	Base, Wire Tie
2	1342300	Tie, Cable

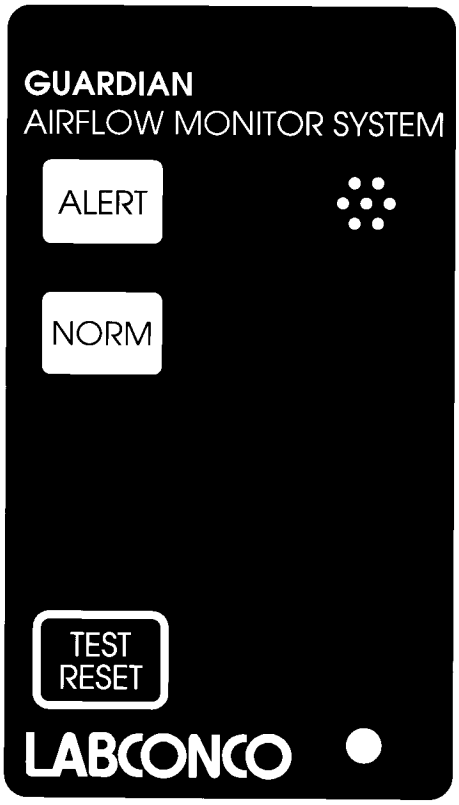
General Description

The Guardian Jr. Airflow Monitor is designed to continuously monitor airflow through fume hoods. This permanently installed device provides both visual and audible alarms to alert the user of abnormal airflow conditions. A green light on the front of the monitor indicates normal flow conditions. When flow conditions lower than the set point are encountered, a red light is activated along with an audible alarm.

A test button is provided at the front of the monitor to allow the user to check the operation of the alarm.

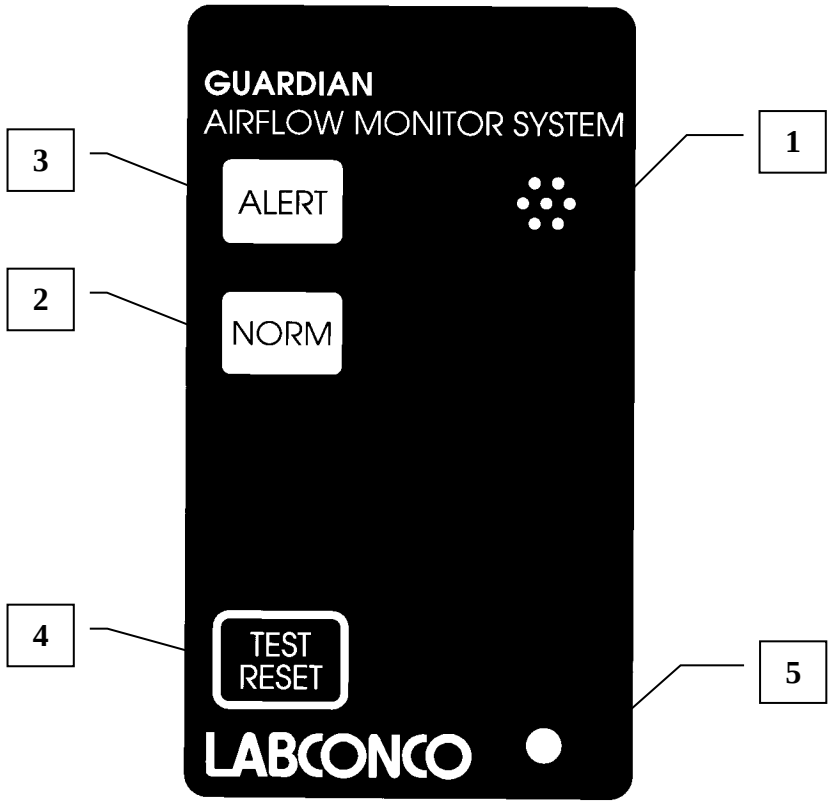
Performance

The Guardian Jr. Airflow Monitor is designed for operation on all new non-explosion proof remote and integral style Protector Fume Hoods. It is also set up for operation for both the new Basic 47 and 70 inch style fume hoods. The monitor itself is available both as a field installed kit or a factory installed option.



Component Identification

1.	Air Inlet	A portion of the air coming into the hood passes through the air inlet and across the flow sensors.
2.	Normal Flow Indicator	This green light indicates normal flow conditions.
3.	Alarm Indicator	This red light is activated approximately 6 seconds after the low flow set point is reached.
4.	Test/Reset Button	If no alarm is present, this button will cause the red lamp to light and the audible alarm to sound. If an alarm is present, the button will silence the audible alarm.
5.	Adjustment for Alarm Set Point	This potentiometer is used to set the low flow indicators for the alarm.



Chapter 2: Installation

Disconnect your fume hood from its electrical service prior to beginning the installation of your new monitor.

The installation of your monitor is separated into two segments, the alarm module and the power supply assembly. Installation is as follows:

Alarm Module

1. Remove the right hand corner cover panel from your Protector Fume Hood. This is achieved by removing the service fixture knobs, if provided, and then removing the three Phillips head screws retained in the corner cover. Remove the black outlet cover plate located in the top electrical position on this panel.
    a. If installing the alarm on either the Basic 47 or Basic 70 inch hood, you would need to remove the right side access panel on the hood to gain access in removing the blank outlet cover plate.
2. Reinstate the corner cover panel to the hood using the screws that were removed in Step 1.
3. On the Protector Fume Hoods only, attach the molded rubber elbow connector directly to the back port connection on the alarm module assembly.
4. Thread the gray colored power supply lead wire assembly through the backside of the corner post and out through the electrical cutout in the corner cover. Attach directly to the connector located on the back of the power module assembly.
5. Insert the clear tubing (9 ft.) through the backside of the corner post and out through the electrical cutout in the corner cover. Attach the tubing directly to the elbow connector, cut to length, **NO** kinks, (Protector Hood) or the connector located on the back of the power module assembly.

6. Locate the alarm module in the electrical cutout in the corner cover or side panel of your hood, being careful not to pinch either the electrical wiring or sensor tube. Lock the bottom of the alarm module in place by sliding the bottom edge of the assembly down over the edge of the cutout. Next, secure the top of the alarm with the two #6-32 screws. Mounting holes for these screws are located underneath the black label surrounding the electrical cutout. Leave the label in place and secure directly through it to the corner cover.
7. Route the wiring and plastic tubing up the backside of the corner posts and attach as shown. Refer to Installation Drawings.

   NOTE: Make sure to keep the tubing and wiring out of the travel area of the sash weights.

Power Supply Module

1. Locate the power supply module on the top of the fume hood liner assembly and use the supplied Velcro strips to secure in place.
2. Drill a 3/8" diameter hole in the hood exhaust collar or blower housing, depending upon your specific model of fume hood. Refer to Installation Drawings for exact locations.
3. Insert the velocity probe into the open end of the vinyl tubing and position the probe in the 3/8" diameter hole drilled in Step 2. **Place the end of the airflow hose with the nozzle inside the hose near the exhaust duct as the nozzle helps regulate airflow properly.** RTV the probe in position to complete your installation.
4. Locate caution label directly above the alarm on the appropriate corner cover.

Electrical Connections

1. Note the separate green wire that is routed with the low voltage power supply lead wires (gray colored cable) that come from the power supply module. Route the separate green wire to the outlet box on the hood that powers the hood lighting fixtures. Route the green wire noted above into the rear connector on this outlet box and connect to a secure earth screw inside the outlet box. This green wire provides earth ground to the alarm module to make it less susceptible to electrical noise created by the fluorescent lights.
2. Route the power supply module AC voltage lead wires (black and white wires) down between the fume hood liner and outside wall to the back of the header panel. On standard Protector Fume Hoods, run this wiring inside the header panel through the access hole provided in the right side corner post. Remove the header panel cover plate to gain access for specific wiring connections. Instructions for wiring connections for each style of hood is as follows:

Protector Hoods

115 Volt: Locate the black wire, which connects from the incoming AC power (in the junction box) to the hood light switch. Disconnect this black wire from the light switch terminal and connect the solid black wire in wiring harness #48610. This black wire will have two extra terminals attached – one of these terminals should be reconnected to the light switch terminal. The other terminal should be connected to the unused blower switch terminal located near the center of the blower switch. Next, connect the black/white wire, which is a part of harness #48610 to the remaining blower switch terminal. The final wiring step involves the white wire, which is part of #48610. Locate the white wire that connects to the fluorescent lamps and find the point where it connects, via removable terminals, to the white wire from the junction box. Disconnect the removable terminal and use the white wire (part of #48610) to reconnect the white wires. The other attached white wire provides a connection to the air monitor power supply module.

230 Volt: Locate the black wire, which is connected to the hood blower switch. Disconnect this black wire from the blower switch terminal and connect to the blue wire of #48611 using the attached terminal. Reconnect the remaining terminal of the blue wire (part of #48611) to the original blower switch terminal. Locate the white wire on the blower switch, which is adjacent to the blue wire just connected above. Disconnect this white wire from the blower switch terminal and connect to the brown wire in wiring harness #48611. Reconnect the remaining terminal on this brown wire to the blower switch terminal where the white wire was originally removed.

8 Foot, 230 Volt Hoods with External Blower

230 Volt: Locate the blue wire, which is connected to the blower switch. Disconnect this blue wire from the blower switch terminal and connect to the blue wire in wiring harness #48611 using the attached terminal. Reconnect the remaining terminal of the blue wire (part #48611) to the original blower switch terminal. Locate the brown wire on the blower switch, which is adjacent to the blue wire just connected above. Disconnect this brown wire form the blower switch terminal and connect to the brown wire in wiring harness #48611. Reconnect the remaining terminal on this brown wire to the blower switch terminal where the brown wire was originally removed.

Basic 47 and 70 Fume Hoods

115 Volt: Locate the black wire, which connects from the incoming AC power (in junction box) to the hood light switch. Disconnect this black wire form the light switch terminal and connect to the solid black wire, which is part of #48610. This black wire will now have two extra terminals attached – one of these terminals should be reconnected to the light switch terminal. The other terminal should be connected to the

unused lower switch terminal located near the center of the blower switch. Next, connect the black/white wire, which is a part of wiring harness #48610 to the remaining blower switch terminal. Next connect the white wire from wiring harness #48610 to the terminal of the supplied white wire labeled #48616. After this is done, route the stripped end of this white wire along with the yellow blower switch wires into the hood junction box. Tie this white wire inside the junction box to the other white wires from the blower, light, etc., using a wire nut. Insulate the unused terminal on the white wire of wiring harness #48610 by removing the terminal, stripping the wire and installing a wire nut.

230 Volt: Locate the black wire, which is connected to the hood blower switch. Disconnect this black wire from the blower switch terminal and connect to the blue wire of wiring harness #48611 using the attached terminal. Reconnect the remaining terminal of the blue wire in harness #48611 back to the original blower switch terminal location. Locate the white wire on the hood blower switch, which is adjacent to the blue wire just connected above. Disconnect this white wire form the blower switch terminal and connect to the brown wire of harness #48611. Reconnect the remaining terminal on this brown wire to the blower switch terminal where the white wire was originally removed.

Perchloric Acid Hoods

Locate the black wire, which is tied to wiring harness #48610. Cut the tie and discard the black wire, which features 3 terminals, as it is not required. Locate the white wire in wiring harness #48610. Connect the terminal of this white wire back to the terminal of the white wire #48616.

After this is done, route the stripped end of this white wire along with the yellow blower switch wires into the hood junction box. Tie this white wire inside the junction box to the other white wires from the blower, light, etc., using a wire nut. Insulate the unused terminal on the white wire wiring harness #48610 by removing the terminal, stripping the wire and installing a wire nut.

Locate the yellow wire on the hood blower switch. Remove the yellow wire from the blower switch and connect the black wire #48615 to the blower switch terminal where the yellow wire was located. Reconnect the yellow wire to one of the remaining terminals of the black wire #48615 and connect the black/white wire from #48610 to the final remaining terminal of the black wire #48615.

Radioisotope Hoods

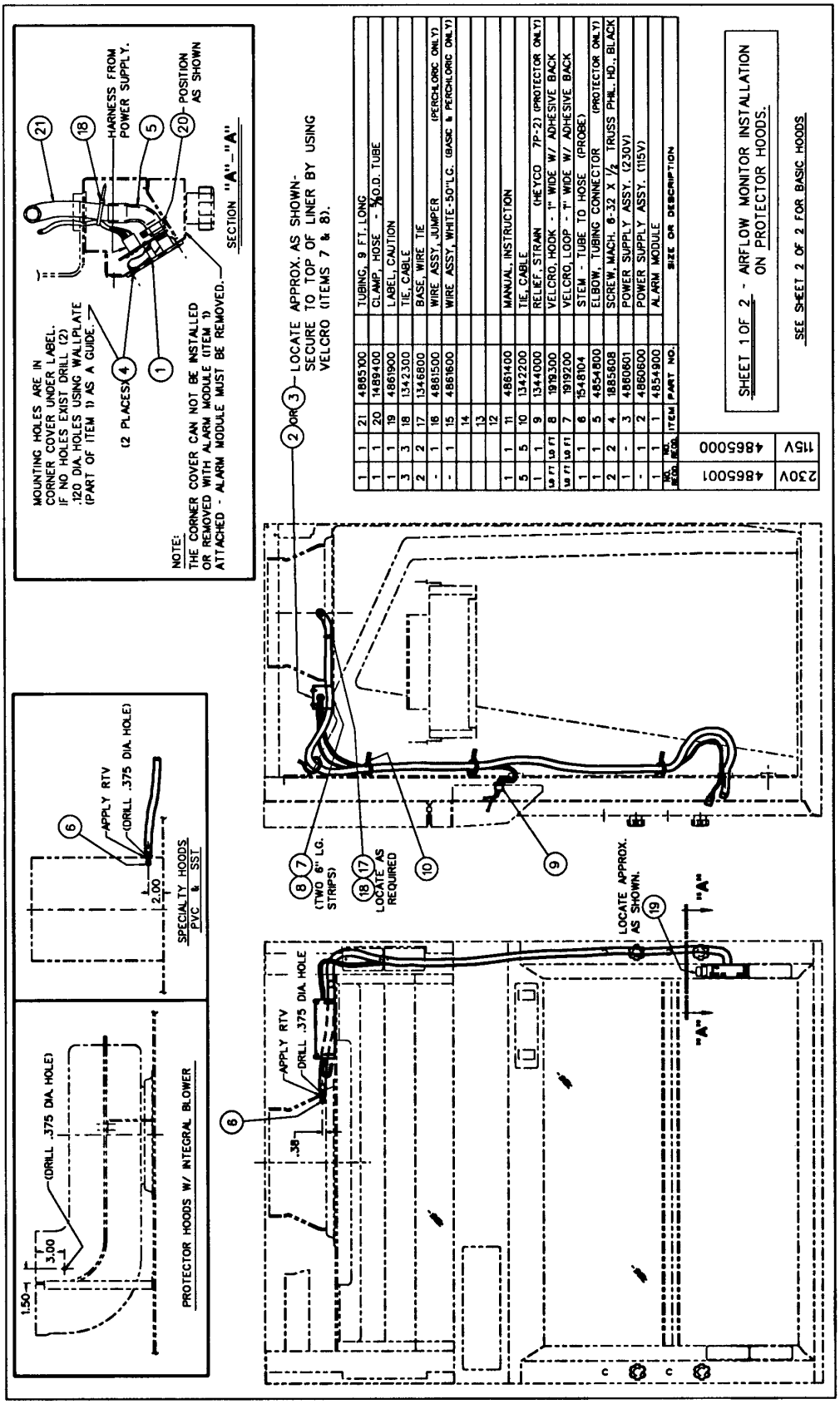
115 Volt: Locate the black wire, which connects from the incoming AC power (in the junction box) to the light switch. Disconnect this black wire from the light switch terminal and connect to the solid black wire, which is

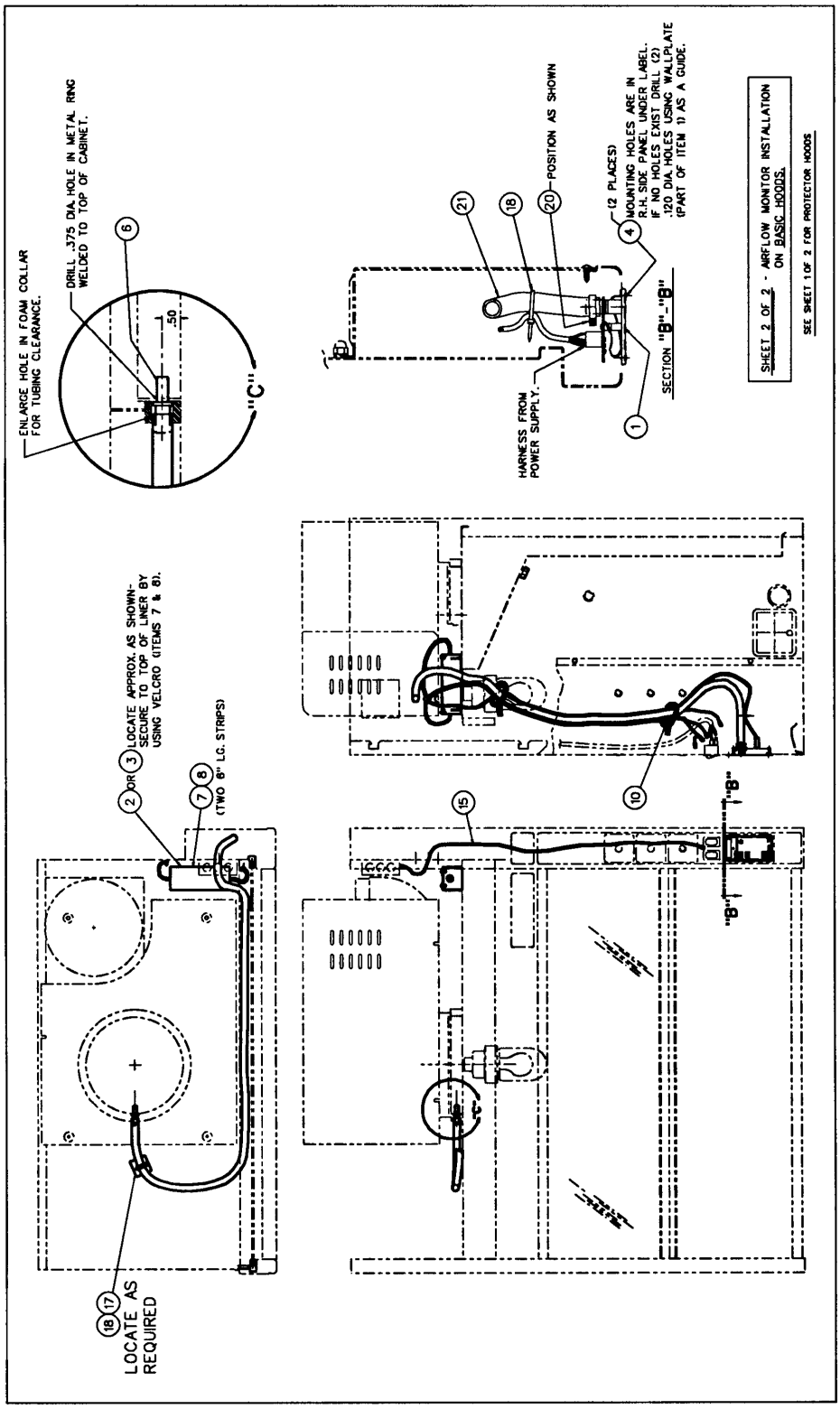
part of wiring harness #48610. This black wire will have two extra terminals attached – one of these terminals should be reconnected to the light switch terminal. The other terminal should be connected to the unused blower switch terminal located near the center of the blower switch. Next, connect the black/white wire, which is a part of harness #48610 to the remaining blower switch terminal. The final wiring step involves connecting the white wire in the wiring harness #48610 to the terminal of the supplied white wire labeled #48616. After this is done, route the stripped end of this white wire along with the yellow blower switch into the junction box following the same path as the yellow blower wires. Tie this white wire inside the junction box to the other white wires from the blower, lights, etc., using a wire nut.

Initial Adjustment/Set-up

Each alarm module and fume hood is unique and needs to be individually calibrated in the field. The procedure for the adjustment is as follows:

1. Double check the installation to make sure that monitor and power supply are properly installed.
2. Allow 10 minutes for the monitor to warm up once power has been connected.
3. Determine the low flow set point for your monitor. This is the value where the monitor will first indicate a low flow condition. The red light will be on for this value. Refer to your industrial hygiene officer for the proper low flow set point.
4. Adjust your fume hood airflow to the low flow set point as been previously determined.
5. Using a properly calibrated thermoanemometer, determine the velocity through the face of the fume hood by taking a detailed velocity traverse. Divide the face area of the fume hood into equal increments. One reading per square foot of face area is normally recommended for an accurate traverse. Compute the average velocity for this area.
6. If the red light alarm is on, slowly turn the adjustment screw counterclockwise until the green light is activated. If the green light is on, slowly turn the adjustment screw clockwise until the red light comes on. Slowly turn the adjustment screw back counterclockwise until the green light is activated. It is important that these adjustments be done in small increments, at intervals about 10 seconds apart to allow for delayed reaction of the alarm itself.
7. Readjust the fume hood airflow to its normal levels.
8. Note: If the low airflow volume cannot be adjusted, then a 1/4 to 1/3 of a turn counterclockwise can be adjusted to set the airflow volume alarm condition at 20-25% below normal operating levels.


SHEET 1 OF 2 - AIRFLOW MONITOR INSTALLATION ON PROTECTOR HOODS.
SEE SHEET 2 OF 2 FOR BASIC HOODS
115V 4865000
230V 4865001
MOUNTING HOLES ARE IN CORNER COVER UNDER LABEL. IF NO HOLES EXIST DRILL (2) .120 DIA. HOLES USING WALLPLATE (PART OF ITEM 1) AS A GUIDE.
(2 PLACES)
HARNESS FROM POWER SUPPLY.
POSITION AS SHOWN
SECTION "A"-"A"
NOTE: THE CORNER COVER CAN NOT BE INSTALLED OR REMOVED WITH ALARM MODULE (ITEM 1) ATTACHED - ALARM MODULE MUST BE REMOVED.
LOCATE APPROX. AS SHOWN- SECURE TO TOP OF LINER BY USING VELCRO (ITEMS 7 & 8).
SPECIALTY HOODS PVC & SST
APPLY RTV
(DRILL .375 DIA. HOLE)
2.00
PROTECTOR HOODS W/ INTEGRAL BLOWER
1.50
3.00
.38
(TWO 6" LG. STRIPS)
LOCATE AS REQUIRED
LOCATE APPROX. AS SHOWN.
"A"
QTY. REQ. FOR 115V | QTY. REQ. FOR 230V | ITEM | PART NO. | SIZE OR DESCRIPTION
1 | 1 | 21 | 4865300 | TUBING, 9 FT. LONG
1 | 1 | 20 | 1489400 | CLAMP, HOSE - 3/8 O.D. TUBE
1 | 1 | 19 | 4861900 | LABEL, CAUTION
3 | 3 | 18 | 1342300 | TIE, CABLE
2 | 2 | 17 | 1346800 | BASE, WIRE TIE
- | 1 | 16 | 4861500 | WIRE ASSY, JUMPER (PERCHLORIC ONLY)
- | 1 | 15 | 4861600 | WIRE ASSY, WHITE-50"LG. (BASIC & PERCHLORIC ONLY)
14
13
12
1 | 1 | 11 | 4861400 | MANUAL, INSTRUCTION
5 | 5 | 10 | 1342200 | TIE, CABLE
1 | 1 | 9 | 1344000 | RELIEF, STRAIN (HEYCO 7P-2) (PROTECTOR ONLY)
AS REQ'D | AS REQ'D | 8 | 1919300 | VELCRO, HOOK - 1" WIDE W/ ADHESIVE BACK
AS REQ'D | AS REQ'D | 7 | 1919200 | VELCRO, LOOP - 1" WIDE W/ ADHESIVE BACK
1 | 1 | 6 | 1543104 | STEM - TUBE TO HOSE (PROBE)
1 | 1 | 5 | 4854800 | ELBOW, TUBING CONNECTOR (PROTECTOR ONLY)
2 | 2 | 4 | 1885608 | SCREW, MACH. 6-32 X 1/2 TRUSS PHIL. HD., BLACK
1 | - | 3 | 4860801 | POWER SUPPLY ASSY. (230V)
- | 1 | 2 | 4860600 | POWER SUPPLY ASSY. (115V)
1 | 1 | 1 | 4854900 | ALARM MODULE


ENLARGE HOLE IN FOAM COLLAR FOR TUBING CLEARANCE.
DRILL .375 DIA. HOLE IN METAL RING WELDED TO TOP OF CABINET.
6
.50
"C"
21
18
20
POSITION AS SHOWN
4
(12 PLACES) MOUNTING HOLES ARE IN R.H. SIDE PANEL UNDER LABEL. IF NO HOLES EXIST DRILL (2) .120 DIA. HOLES USING WALLPLATE (PART OF ITEM 1) AS A GUIDE.
HARNESS FROM POWER SUPPLY.
1
SECTION "B"-"B"
SHEET 2 OF 2 - AIRFLOW MONITOR INSTALLATION ON BASIC HOODS.
SEE SHEET 1 OF 2 FOR PROTECTOR HOODS
2 OR 3 LOCATE APPROX. AS SHOWN- SECURE TO TOP OF LINER BY USING VELCRO (ITEMS 7 & 8).
7 8 (TWO 6" LG. STRIPS)
10
15
"B"
"B"
18 17 LOCATE AS REQUIRED

Chapter 3:
Normal Operation

Alarm Activation

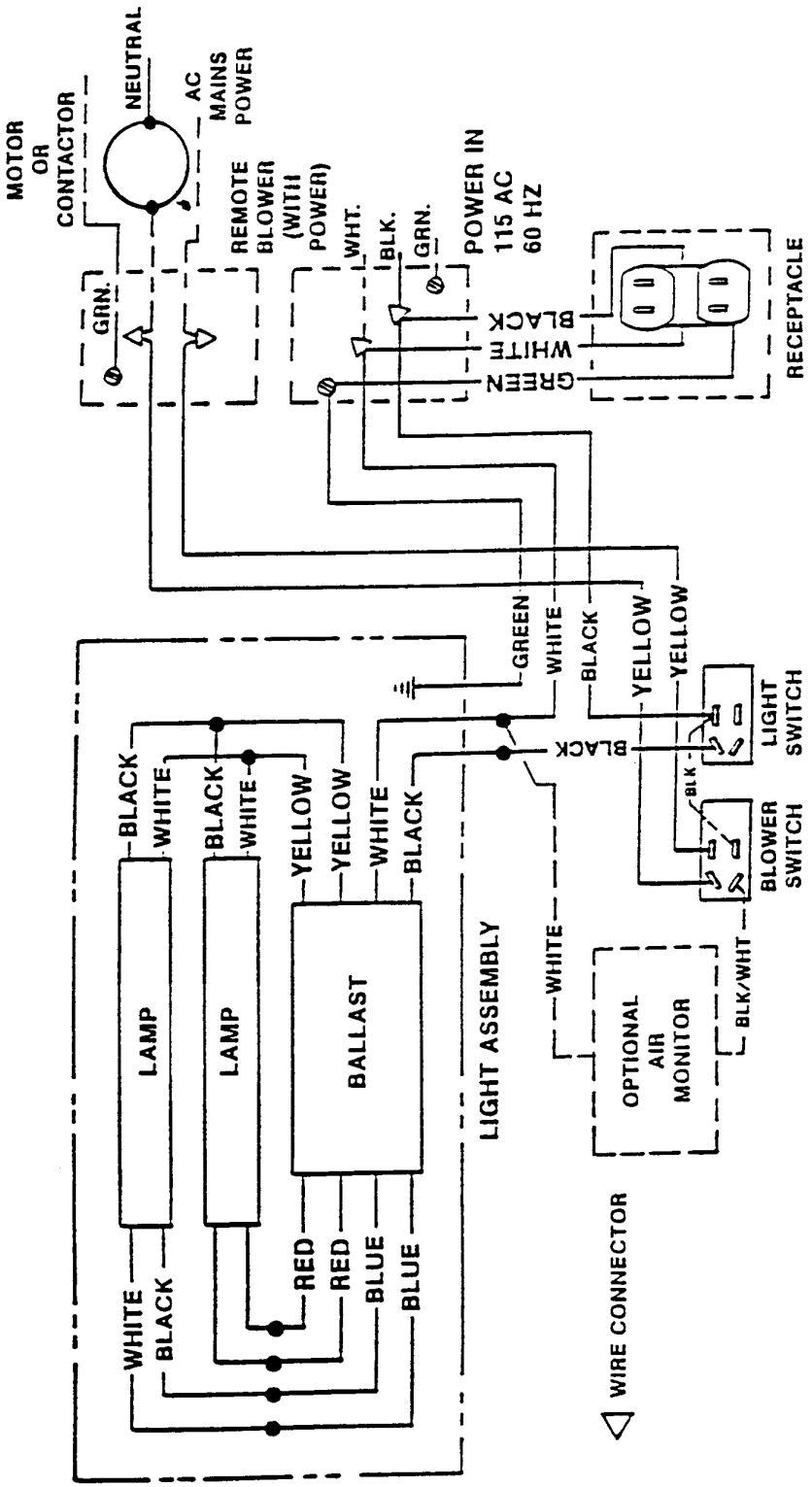
The audio and visual alarm will activate approximately six seconds after an alarm condition is detected. To temporarily mute the audible alarm, press and release the test/reset button.

NOTE: After an alarm condition has been detected, the red light will stay on. The audible alarm will remain muted until airflow returns to normal levels.

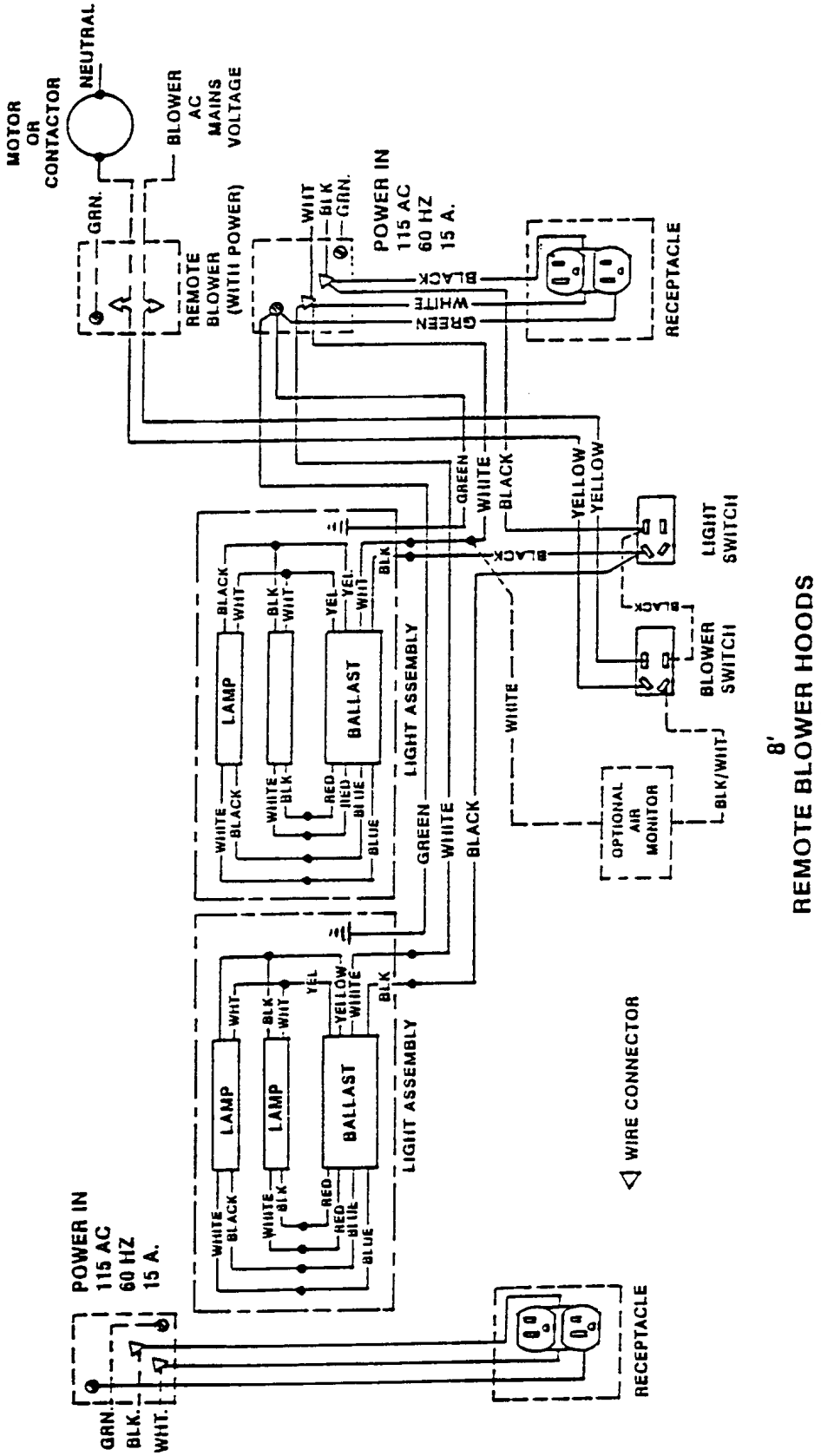
Alarm Test

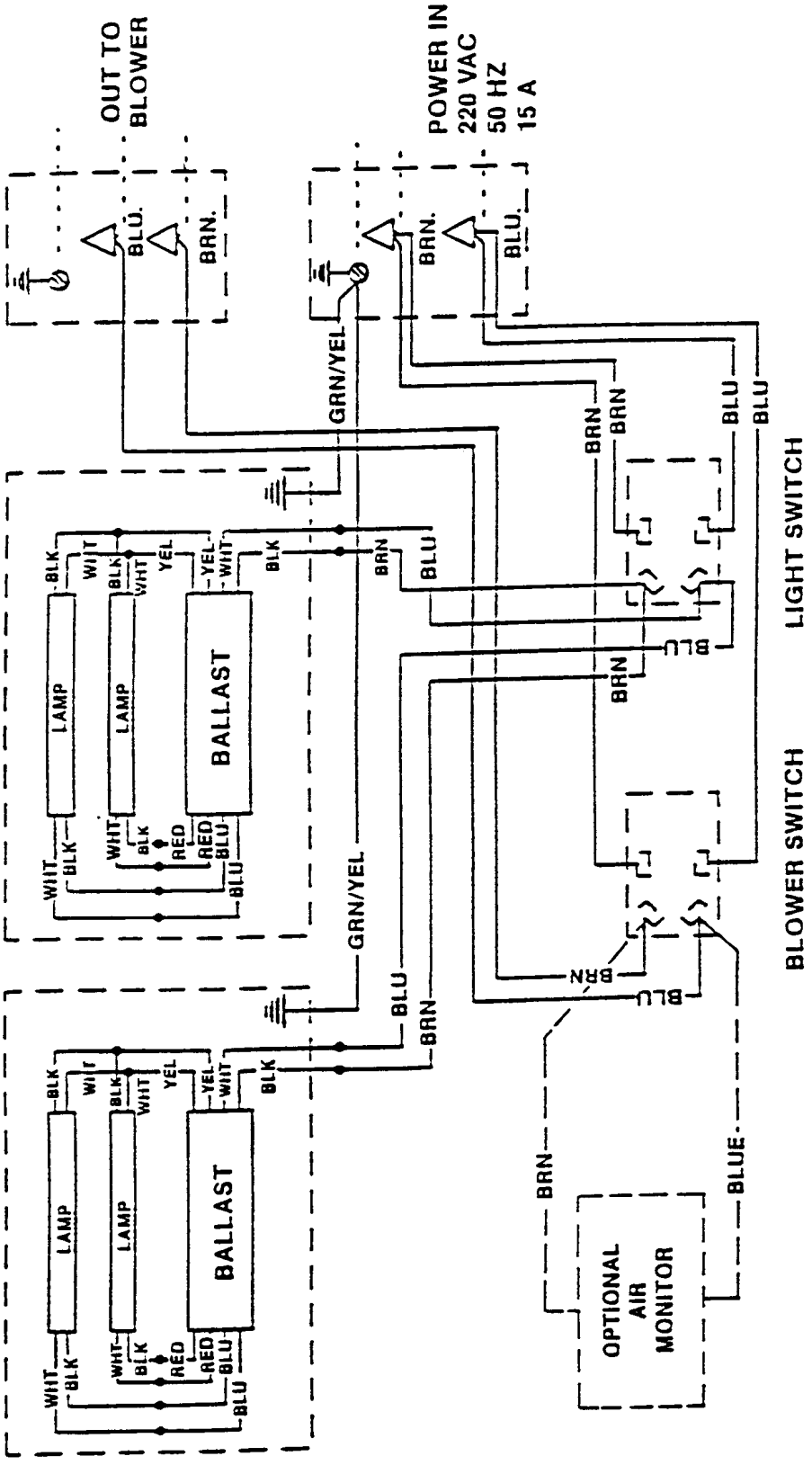
When no alarm is present, the alarm can be tested by pressing the test/reset button. While the button is pressed, the alarm light and audible alarm will be activated.

Chapter 4:
Electrical Wiring Diagrams

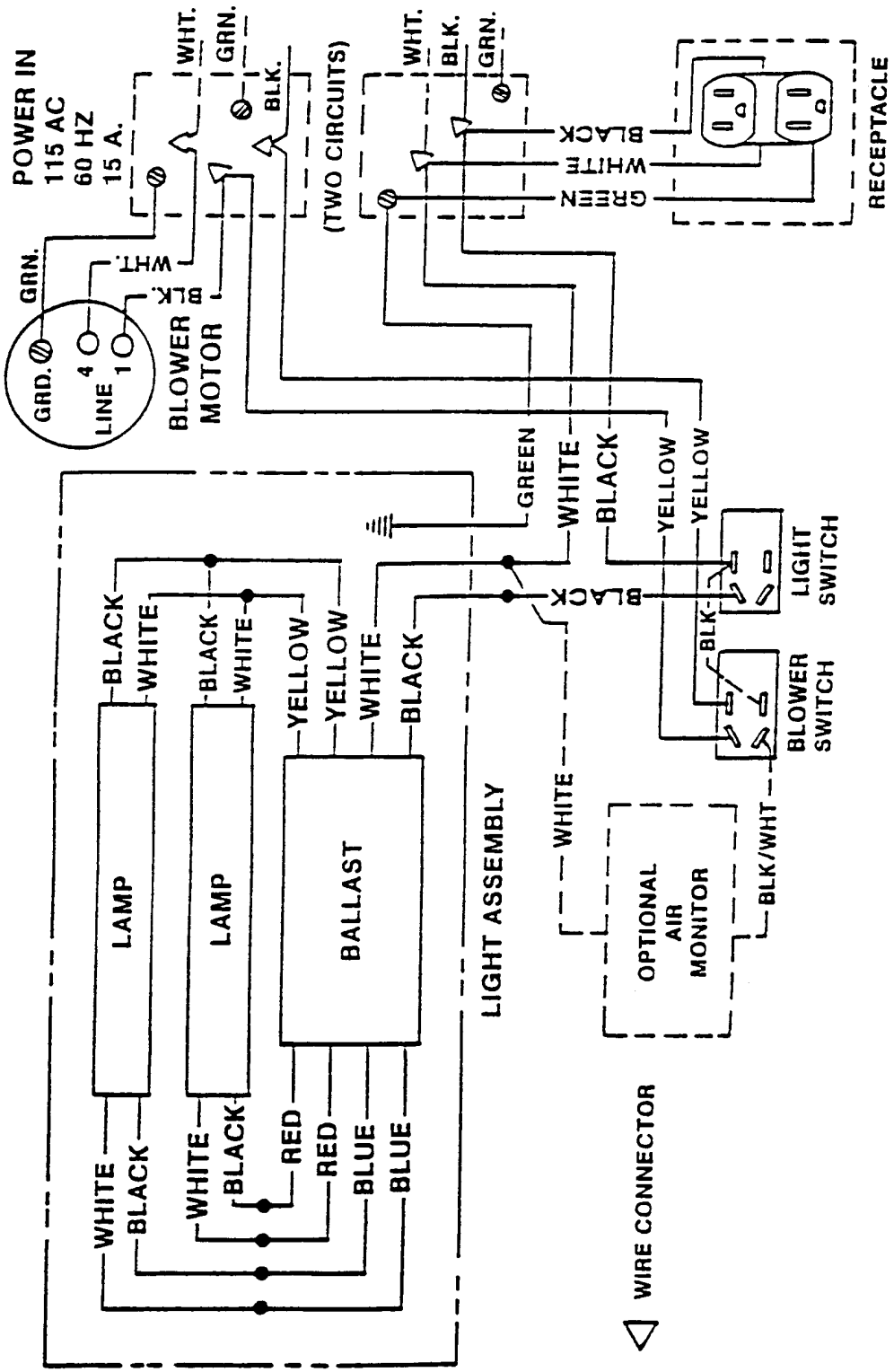


REMOTE BLOWER HOOD
115 V

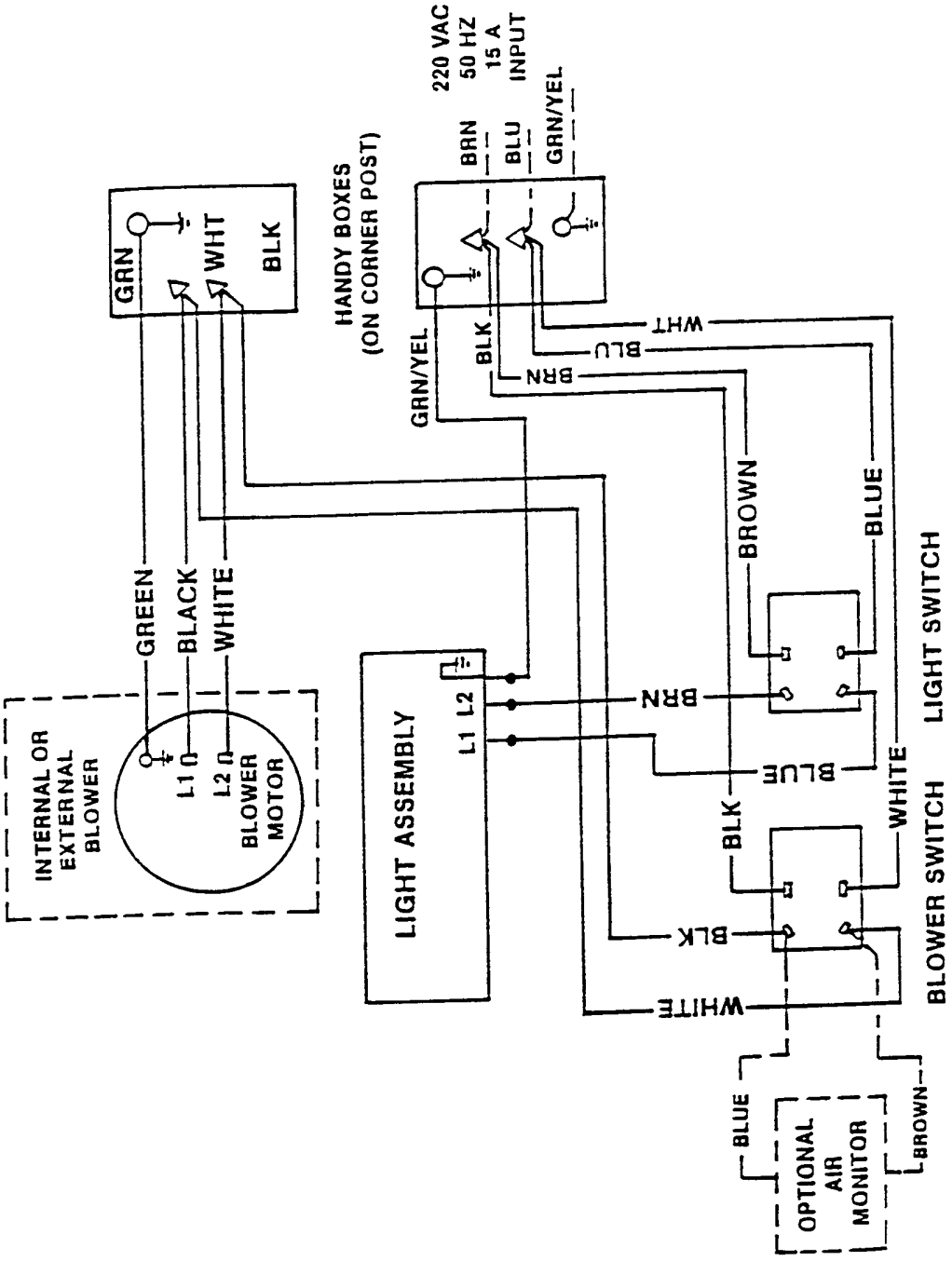

MOTOR OR CONTACTOR
NEUTRAL
BLOWER AC MAINS VOLTAGE
GRN.
REMOTE BLOWER (WITH POWER)
WHIT
BLK
GRN.
POWER IN 115 AC 60 HZ 15 A.
BLACK
WHITE
GREEN
RECEPTACLE
GREEN
WHITE
BLACK
YELLOW
YELLOW
LIGHT SWITCH
BLACK
BLACK
BLOWER SWITCH
LAMP
LAMP
BALLAST
LIGHT ASSEMBLY
WHITE
BLACK
WHITE
BLK
RED
BLUE
YEL
WHIT
BLK
WHITE
BLACK
WHITE
BLK
RED
BLUE
YEL
WHIT
BLK
YELLOW
WHITE
BLK
WHITE
BLACK
WHITE
BLK
RED
BLUE
WHITE
BLACK
WHITE
BLK
RED
BLUE
GREEN
WHITE
BLACK
WHITE
BLACK
OPTIONAL AIR MONITOR
BLK/WHIT
WIRE CONNECTOR
8'
REMOTE BLOWER HOODS
117 V
POWER IN 115 AC 60 HZ 15 A.
GRN.
BLK.
WHT.
RECEPTACLE

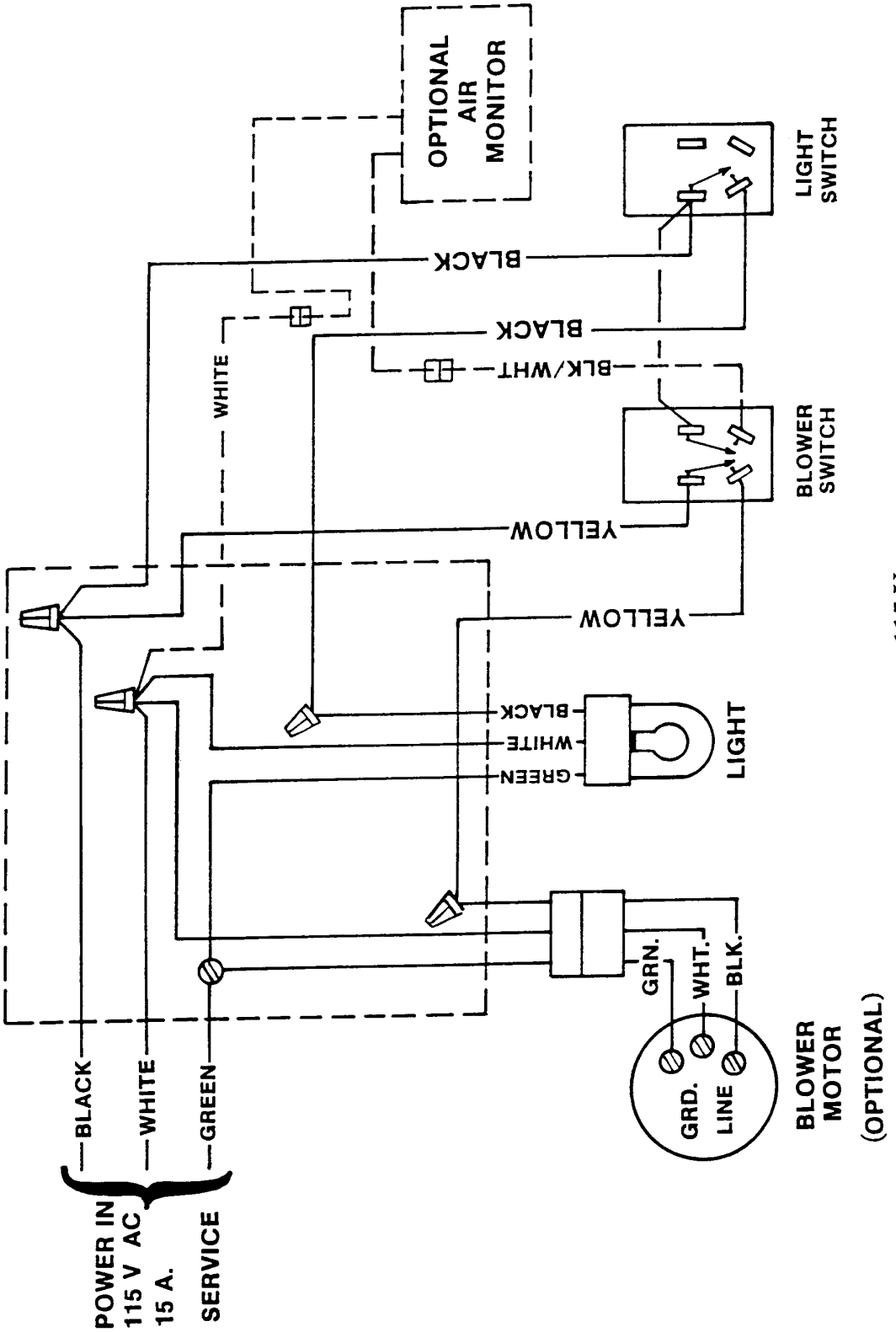


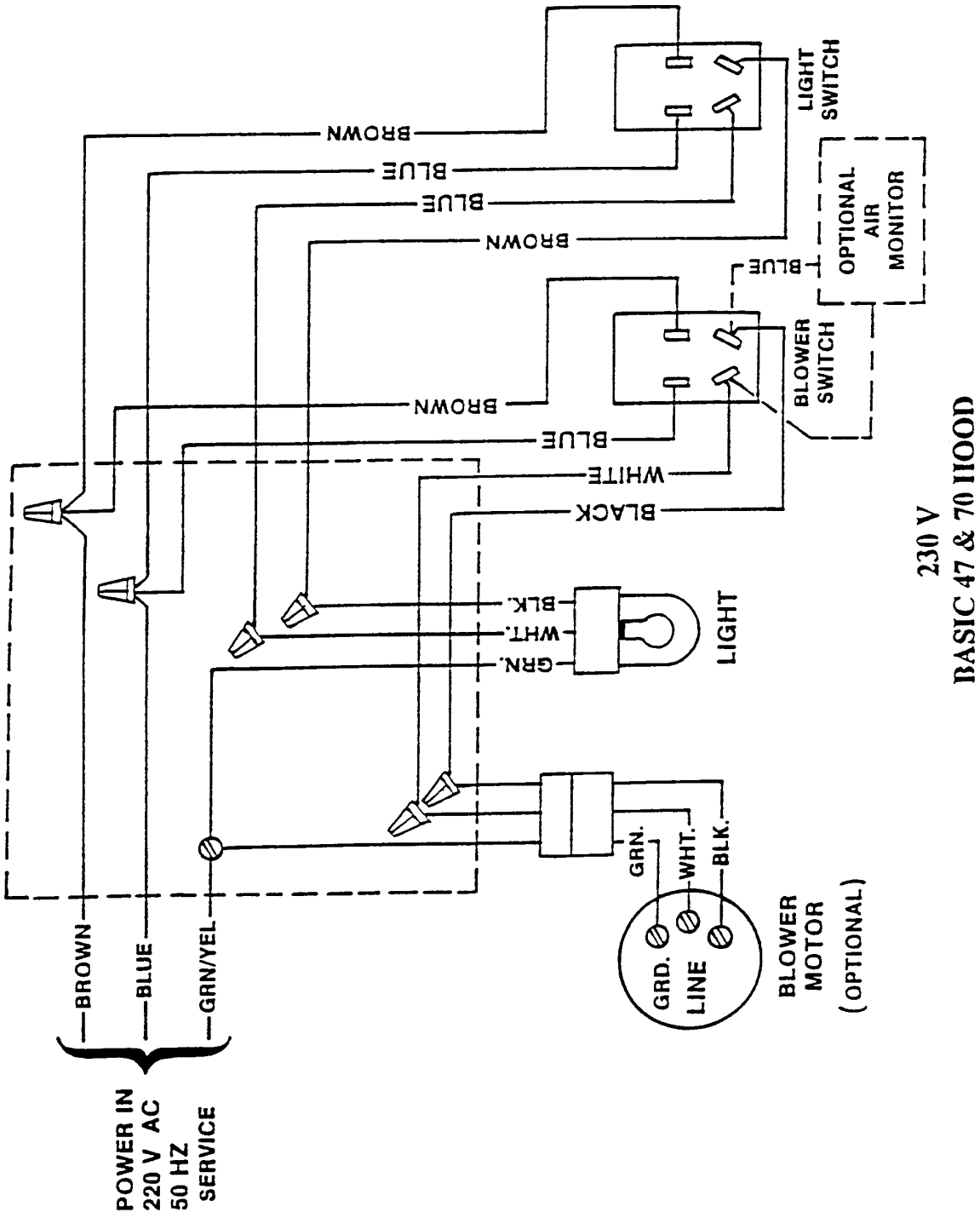
8' 230 V HOODS
EXTERNAL BLOWER

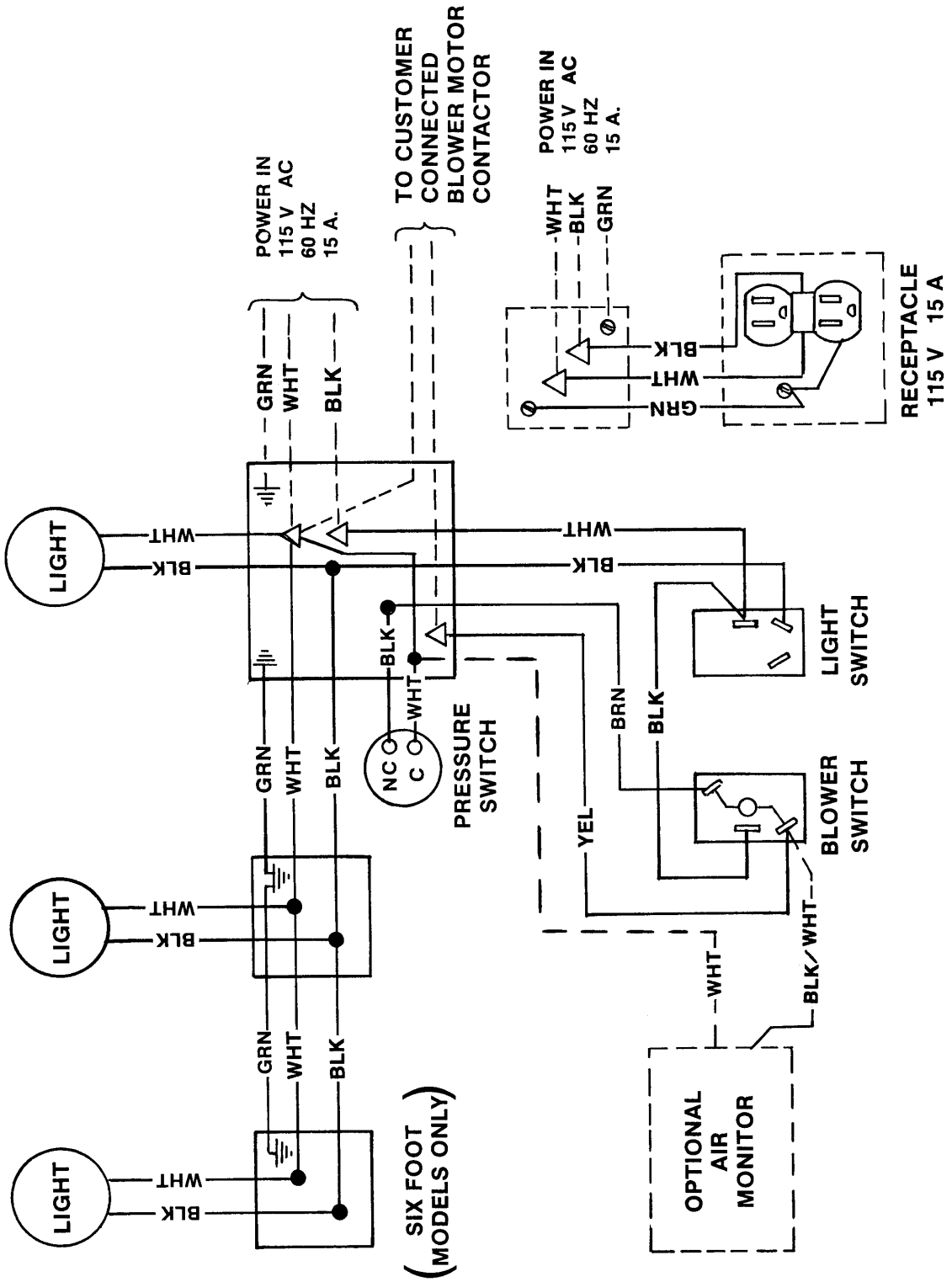


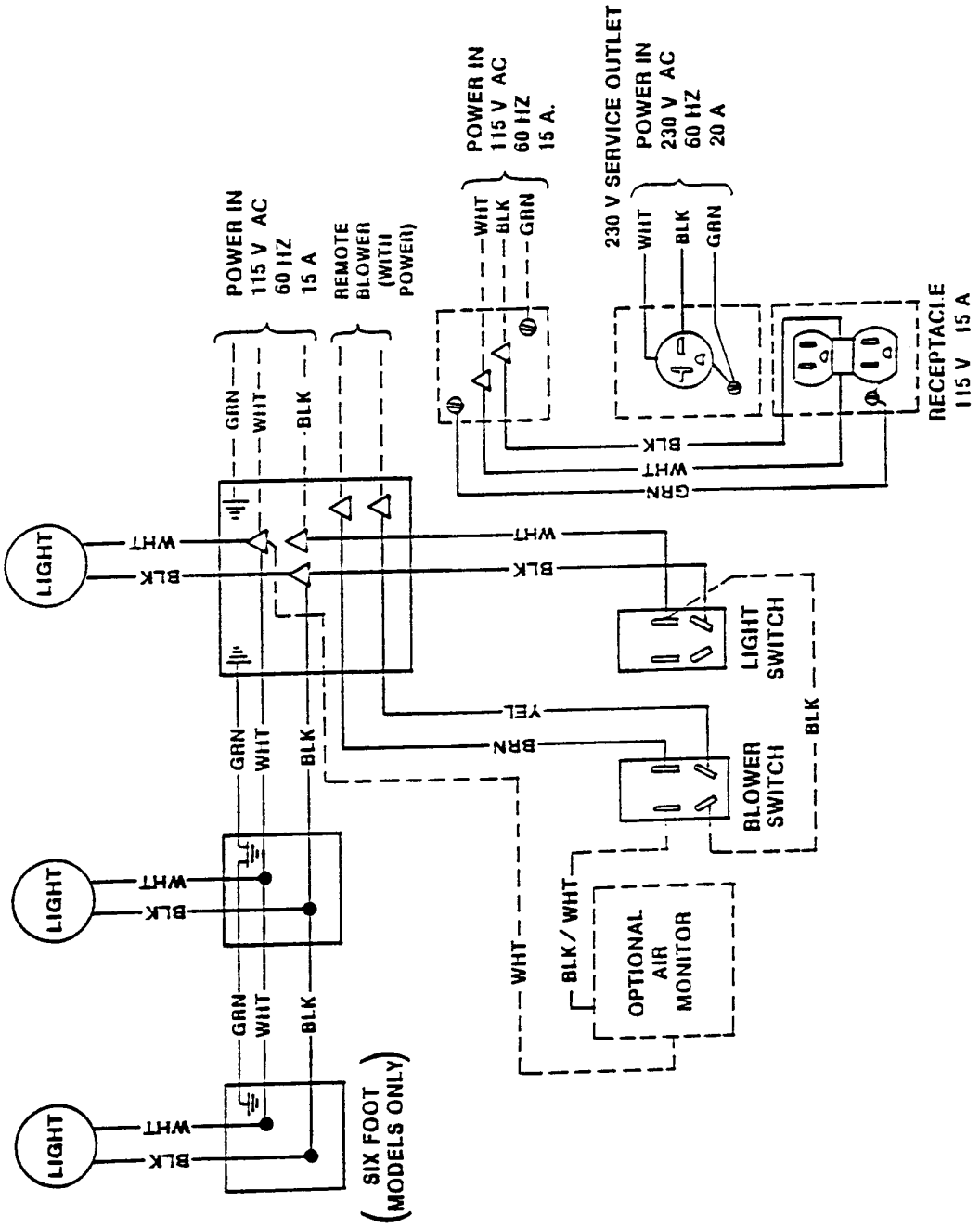
4'-5'-6'
INTEGRAL BLOWER HOODS
115 V


220 VAC
50 HZ
15 A
INPUT
BRN
BLU
GRN/YEL
HANDY BOXES
(ON CORNER POST)
GRN
WHT
BLK
GREEN
BLACK
WHITE
INTERNAL OR
EXTERNAL
BLOWER
L1
L2
BLOWER
MOTOR
LIGHT ASSEMBLY
L1 L2
BRN
BLUE
BROWN
BLUE
LIGHT SWITCH
BLK
WHITE
BLOWER SWITCH
BLUE
BROWN
OPTIONAL
AIR
MONITOR
230 V-50 HZ
INTEGRAL BLOWER HOODS


OPTIONAL AIR MONITOR
LIGHT SWITCH
BLACK
BLACK
BLK/WHT
WHITE
BLOWER SWITCH
YELLOW
YELLOW
BLACK
WHITE
GREEN
LIGHT
GRN.
WHT.
BLK.
GRD.
LINE
BLOWER MOTOR
(OPTIONAL)
BLACK
WHITE
GREEN
POWER IN
115 V AC
15 A.
SERVICE
115 V
BASIC 47 & 70 HOOD


BASIC 47 & 70 HOOD
230 V
LIGHT SWITCH
OPTIONAL AIR MONITOR
BLOWER SWITCH
BROWN
BLUE
BLUE
BROWN
BLUE
BROWN
BLUE
WHITE
BLACK
BLK.
WHT.
GRN.
LIGHT
GRN.
WHT.
BLK.
GRD.
LINE
BLOWER MOTOR
(OPTIONAL)
BROWN
BLUE
GRN/YEL
POWER IN
220 V AC
50 HZ
SERVICE


POWER IN
115 V AC
60 HZ
15 A.
TO CUSTOMER
CONNECTED
BLOWER MOTOR
CONTACTOR
POWER IN
115 V AC
60 HZ
15 A.
WHT
BLK
GRN
RECEPTACLE
115 V 15 A
GRN
WHT
BLK
LIGHT
WHT
BLK
BLK
WHT
NC
C
PRESSURE
SWITCH
BRN
BLK
LIGHT
SWITCH
YEL
BLOWER
SWITCH
LIGHT
LIGHT
LIGHT
SIX FOOT
(MODELS ONLY)
WHT
BLK/WHT
OPTIONAL
AIR
MONITOR
PERCHLORIC HOOD



RADIOISOTOPE HOOD
WIRING DIAGRAM

Chapter 5: Troubleshooting

Symptom	Suggested Recommendations
No Lights	Power supply not plugged into proper voltage; plug in power supply. Monitor rear connection is disconnected; verify that the connector is correctly installed.
No Audible Alarm	Alarm has been silenced using test/reset button.
Wrong Alarm Set Point	Potentiometer was not properly adjusted. Repeat calibration steps outlined in this manual.
Continuous Alarm	Blower speed has changed. Performance traverse to verify that the calibration has not changed. Check blower speed, adjust if required. Check calibration using traverse technique, recalibrate monitor as instructed if required.
Audible Disable Will Not Stay On	An alarm condition must be continuously present before the audible alarm can be silenced. If flow conditions fluctuate near the alarm set point, the alarm will automatically reset itself. Action should be taken to bring the fume hood airflow into proper operating parameters.
Constant Audible Alarm	Check airflow and calibration.

If problems persist with the Guardian Jr. Airflow Monitor, contact Labconco Product Service directly at 1-800-522-7658, for assistance.