

Protector®Multi-Hazard Double Glove Box

Model 115V, 5065520

Model 230V, 5065522

INSTRUCTION MANUAL

NOTE: This is a supplement to Labconco Instruction Manual 50937 Multi-Hazard Single Wide Glove Box. All information in that manual also pertains to the double glove box except:

- Shipping List
- Electrical Specifications
- Dimensional Data
- Electrical Diagrams

Information on the above topics plus additional installation instructions applicable to the double glove box is contained in this manual.

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PREFACE

Thank you for displaying confidence in us by selecting a Labconco Protector® Multi-Hazard Double Glove Box. Our design engineers, fabricators, assemblers and inspectors have utilized their skills and years of experience to ensure that the new Labconco Multi-Hazard Double Glove Box meets our high standards of quality and performance.

IMPORTANT NOTICE

This manual should be read carefully by all the end users in order to become familiar with the operation of the Labconco Protector Multi-Hazard Double Glove Box. Recommendations are made within the manual to help you obtain maximum performance and life from your product.

We have included sections on initial set up, operation, maintenance and troubleshooting to provide you with all the tools necessary to achieve maximum performance.

If you have questions or concerns, do not hesitate to call us at 1-800-821-5525 for assistance.

Components Shipped

Carefully check the contents of the carton for damage that might 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(s) should contain the following:

Catalog #	Description
5065520	115V, 60 Hz Multi-Hazard Double Glove Box
or	
5065522	230V, 50 Hz Multi-Hazard Double Glove Box
5005600	Glove Kit – 2 Pair, Neoprene, size 9-3/4 (includes four O-rings)
1965600	O-rings Clamps (4)
1337100	Power Cord – 115V models only
1334100	Power Cords (2) – 230V models only
1291000	Cord Connector (4) – 230V models only
5093700	Instruction Manual, Multi-Hazard Single Glove Box
5135400	Instruction Manual, Multi-Hazard Double Glove Box

INTRODUCTION

General Description

The Protector Multi-Hazard Double Glove Box is equipped with a blower, air damper and filter system that provide versatility for many particular applications. The variable speed blower provides air volumes between 10 and 50 CFM and negative glove box pressure up to 1.5 inches H₂O gauge. The air damper provides a means for operating the glove box at a more negative pressure when the blower is running at low speed (low air volume). The filtering system consists of one inlet HEPA and one exhaust HEPA filter (both rated at 99.99% efficient on 0.3 micron particulates). A “roughing” prefilter is also provided to capture room air particles and extend the life of the inlet HEPA filter.

Optional Filters: (for installation between exhaust HEPA and blower).

Charcoal Filter: (Cat. No. 5065300) contains 4 lbs. of Barnebey and Sutcliffe type 787 impregnated, activated carbon for removal of gaseous radioisotopes.

Additional Exhaust HEPA Filter Kit (Cat. No. 5065200) same as filter shipped with unit, plus an extended length tube for connection to blower.

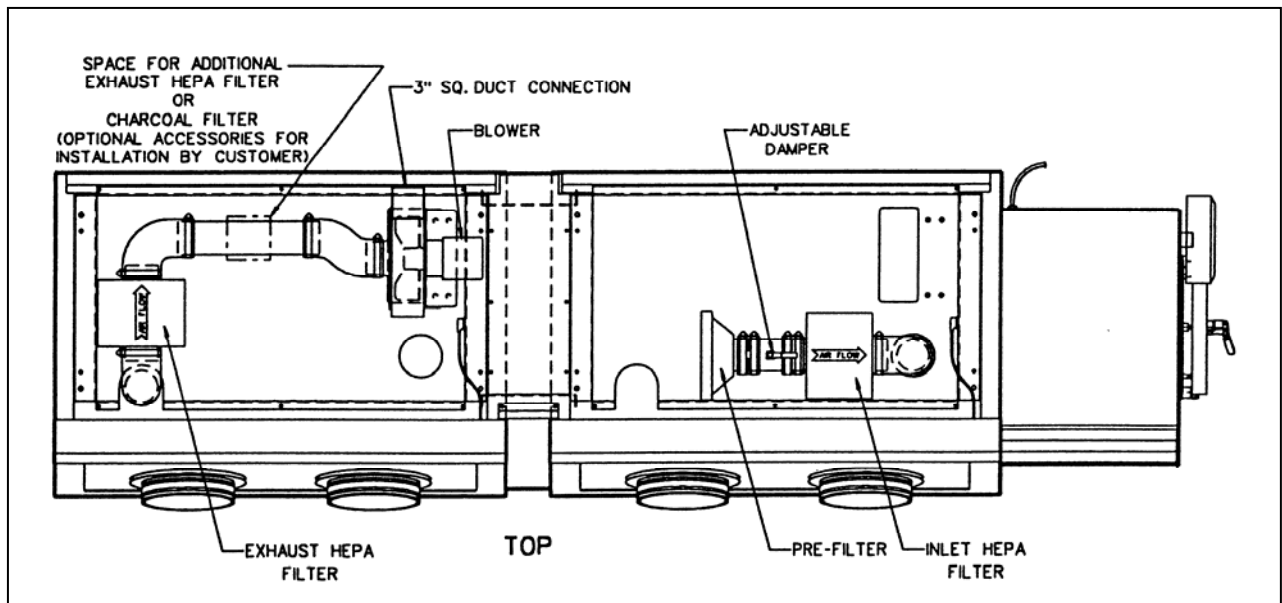


Figure 1

Environmental Conditions

This equipment is designed to be safe under the following conditions:

- Indoor use
- Altitude up to 6562 Ft. (2000m)
- Temperature 41° to 104° (5° to 40°)
- Maximum relative humidity 80% for temperatures up to 88°F (31°C) decreasing linearly to 50% relative humidity at 104° (40°C)
- Main supply voltage fluctuations not to exceed $\pm 10\%$ of the nominal voltage
- Transient over voltages according to Installation Categories II (Over voltage Categories per IEC 1010)
- Pollution degrees 2 (Normally only non-conductive foreign matter, solid, liquid, or gaseous (ionized gases), that may produce a reduction of dielectric strength or surface resistivity occurs. Occasionally, however, a temporary conductivity caused by condensation must be expected), in accordance with IEC 664

INTRODUCTION

Component Identification

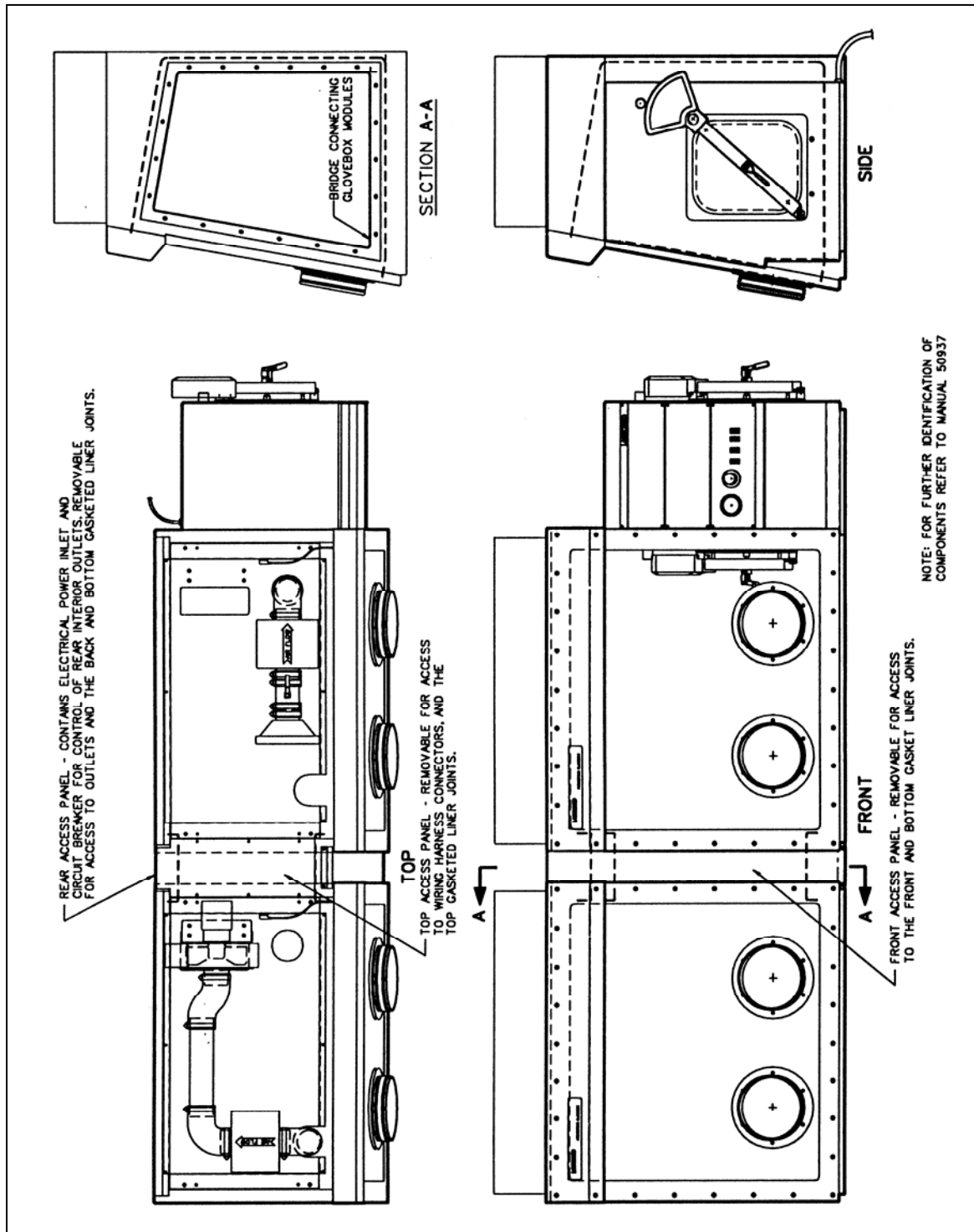


Figure 2

Location

The double glove box should be placed on a stable, level base stand near an appropriate electrical receptacle. (See Electrical Specification). The stand should be approximately 30" deep x 104" wide, capable of supporting 1000 pounds minimum, or two separate stands, each capable of supporting 500 pounds. If two stands are used, the stand for the right hand module should be 30" deep x 57-3/4" wide and the left module stand should be 30" x 41-1/2" wide. The stand top surface height should be 36" to 37" from the floor to provide a comfortable working position through the glove ports. **NOTE:** Specially designed mobile stands for the double glove box are available from Labconco. See Figure 3.

INSTALLATION

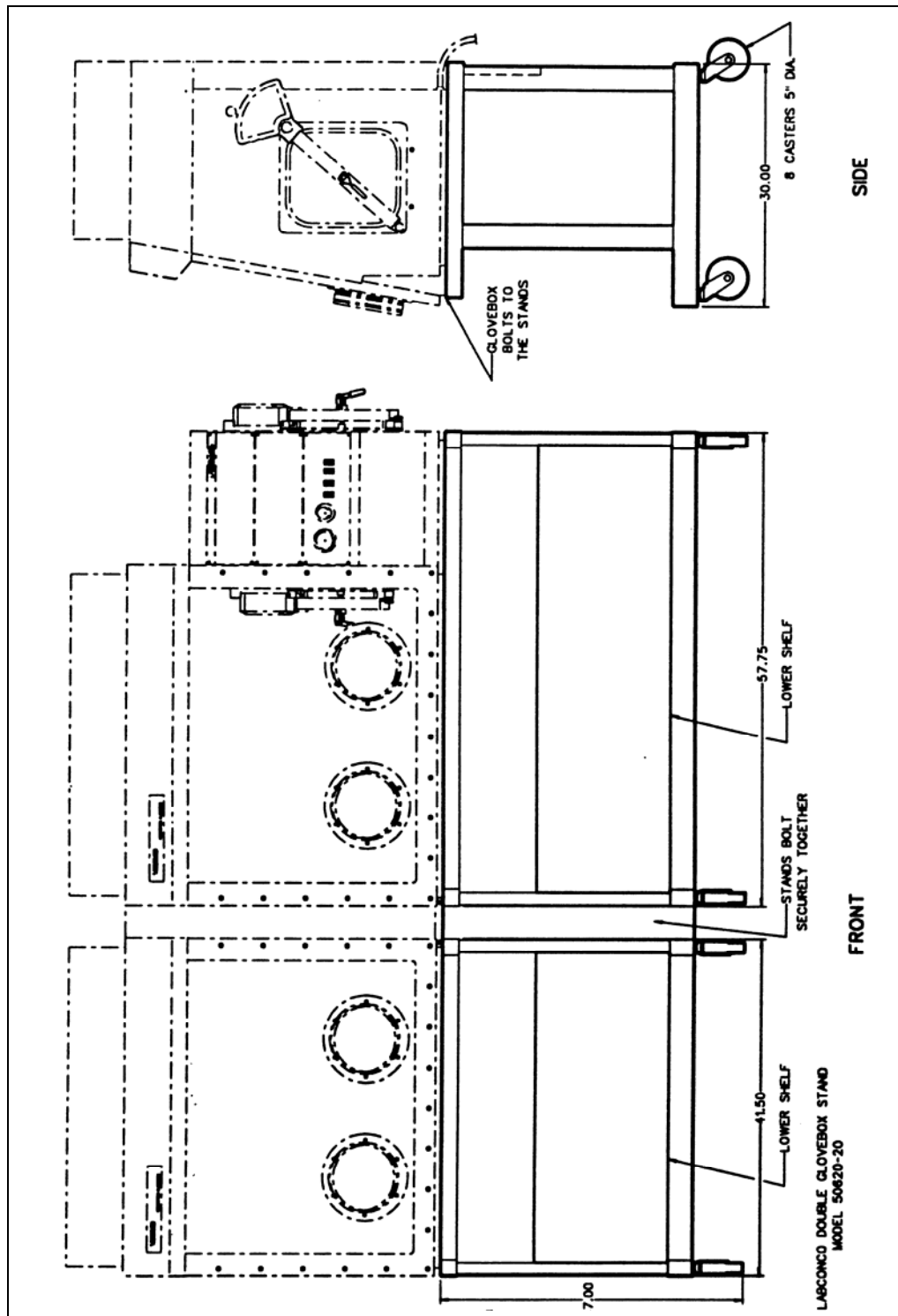


Figure 3

Assembly

The Labconco Double Glove Boxes are joined together at the factory (unless otherwise specified by customer) and require no additional assembly other than installation of the gloves. Refer to Labconco Instruction Manual #5093700.

Double Glove Boxes that are shipped in two modules are joined at the factory to verify fit and to allow helium leak testing. They are then separated and shipped in two separate crates.

For information on Labconco authorized service to provide reassembly and leak testing at your facility, call our Product Service Team at 1-800-821-5525.

For reassembly follow these instructions:

Step 1. Place glove box modules on level base stand. If two separate stands are used, see Figure 4, to be sure that each stand is level and adjusted to same height.

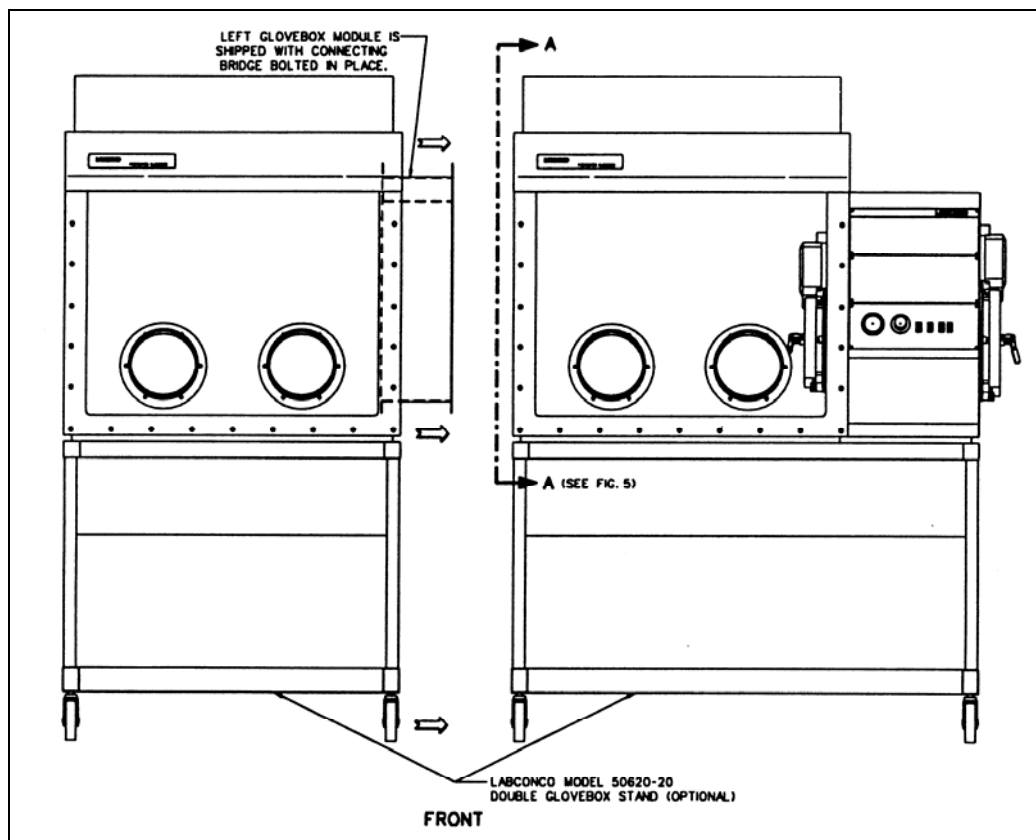


Figure 4

INSTALLATION

Step 2: Place the Channel Gasket (P/N 5130500) over the threaded studs on the left end of the right glove box module as shown in Figure 5. Make sure that both sides of the gasket are free of lint, dust, and any other particles that could prevent a good seal.

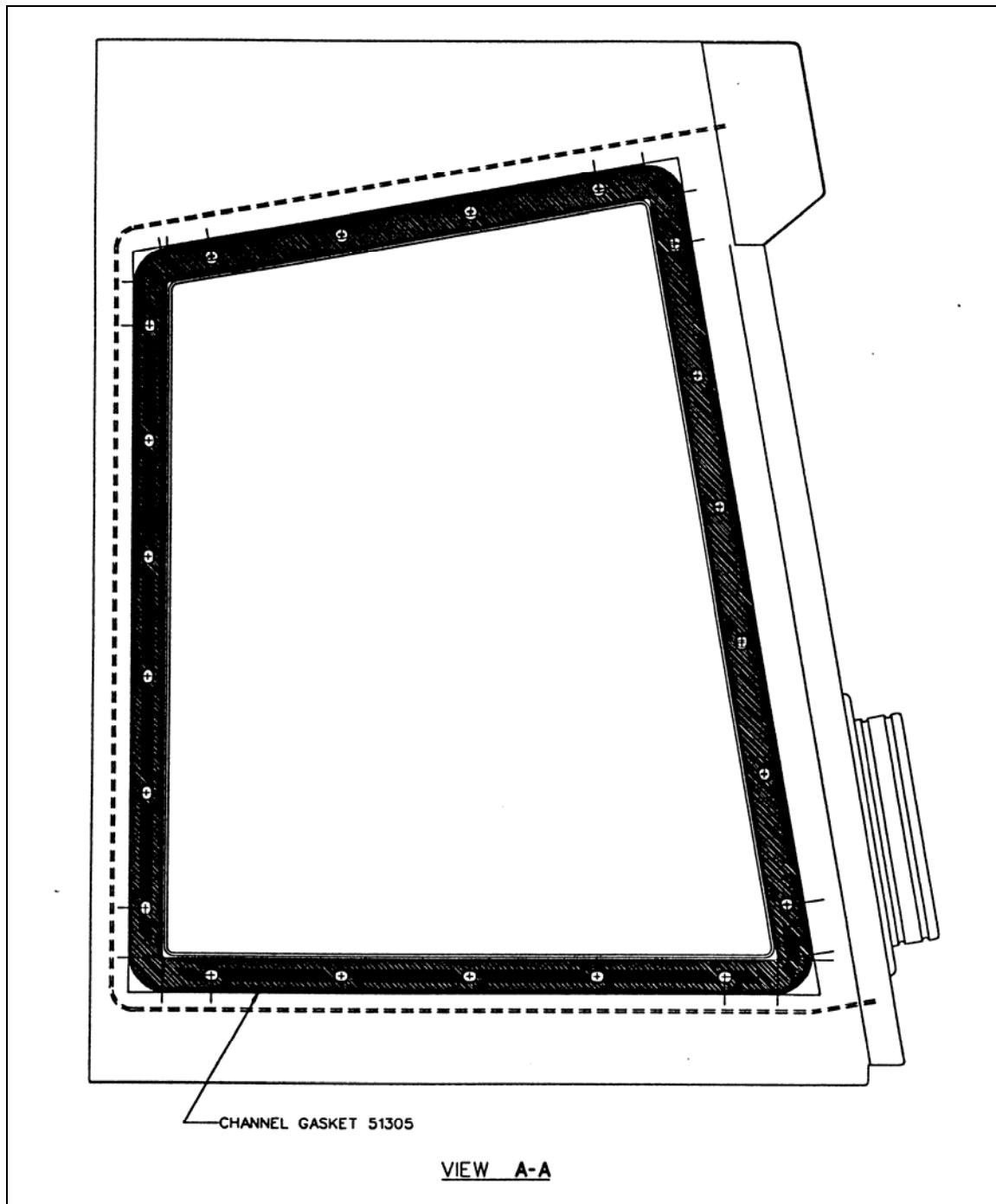


Figure 5

Step 3: Carefully slide the two glove box modules together, taking care to guide the threaded studs into the holes in the flange of the connecting bridge. See Figure 6 and 6A

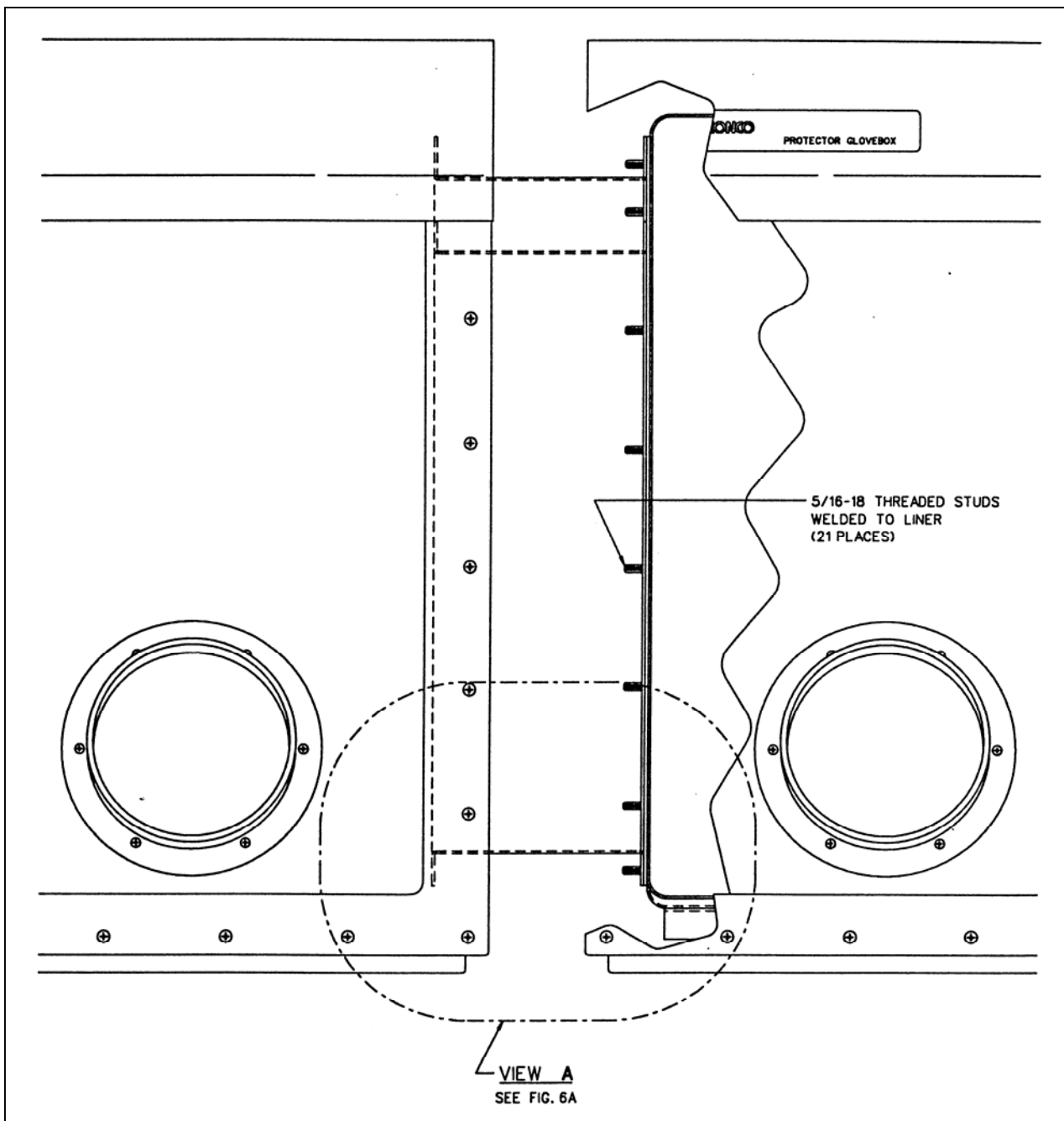


Figure 6

INSTALLATION

Step 4: Assemble the flat washers, lockwashers, and 5/16-18 hex nuts onto the threaded stud (21 places) as shown in Figure 6A. Using a 1/2" socket (3/8" drive) with a 3" extension and a ratchet wrench, tighten the hex nuts evenly around the perimeter of the connecting bridge. **NOTE:** The threaded studs have flanged heads that control the amount of gasket compression. Tighten the nuts uniformly until the connecting bridge flange seats firmly against the flanged heads of the studs.

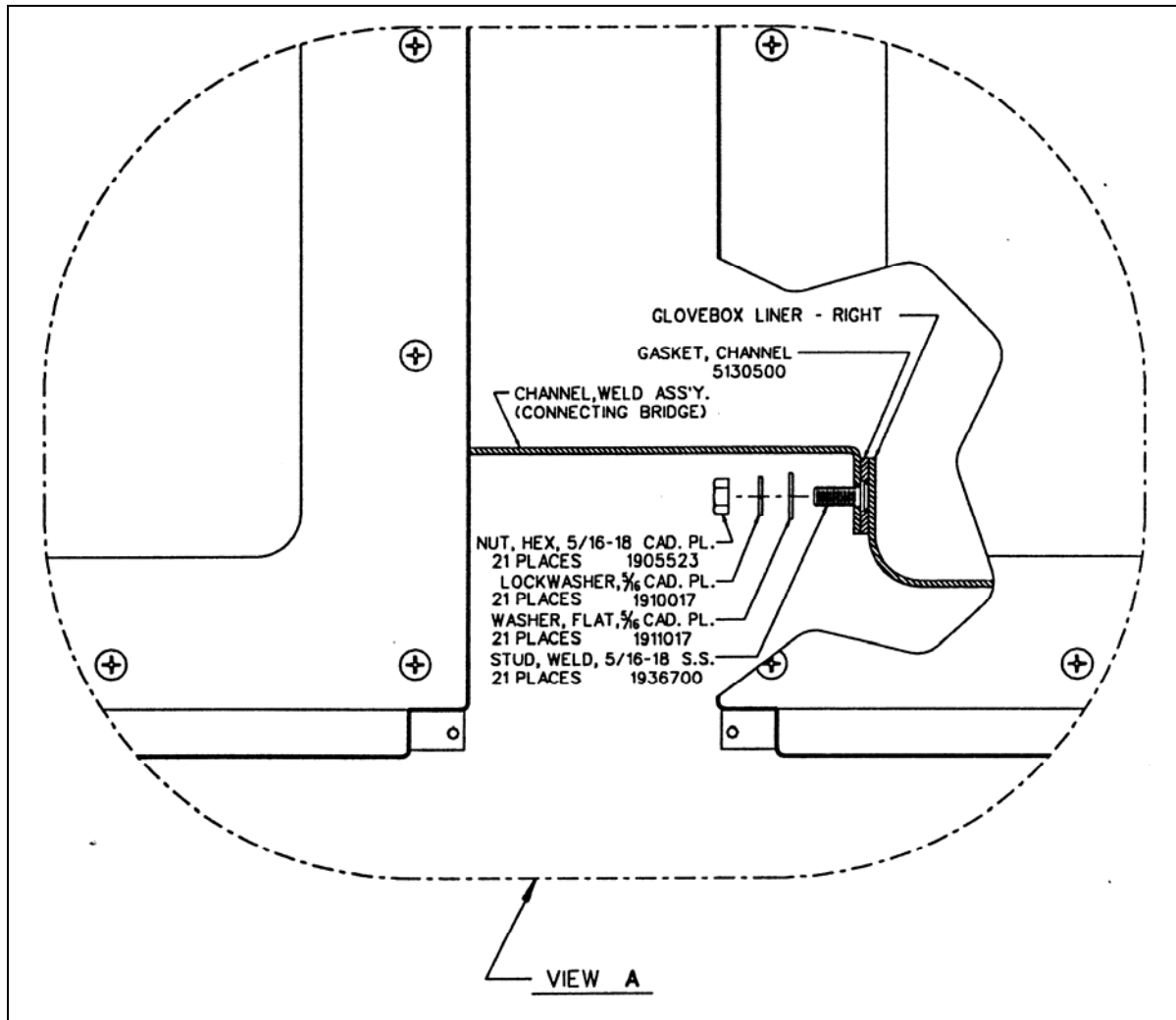


Figure 6A

Step 5: Make connections for electrical systems at the top between the two glove box modules as shown in Figure 7

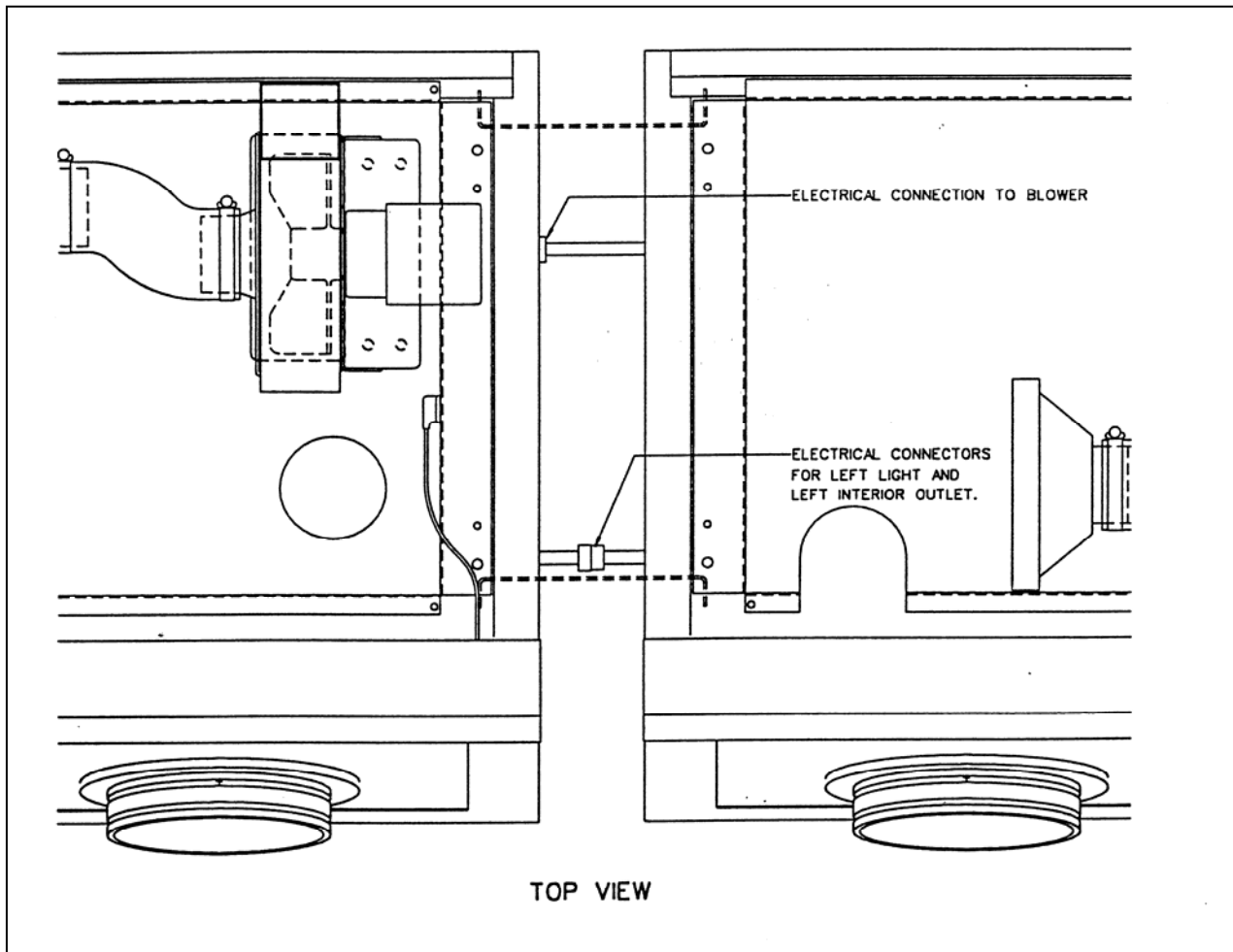


Figure 7

INSTALLATION

NOTE: If leak testing of the double glove box is planned, it should be done at this time.

Step 6. Installation of rear center electrical panel. See Figure 8

- a. Plug the wiring connector on the panel to the mating connector from the rear interior outlets.
- b. Fasten the panel to the glove box back with 10-24 x 1/2" Phillips head screws (6 places).

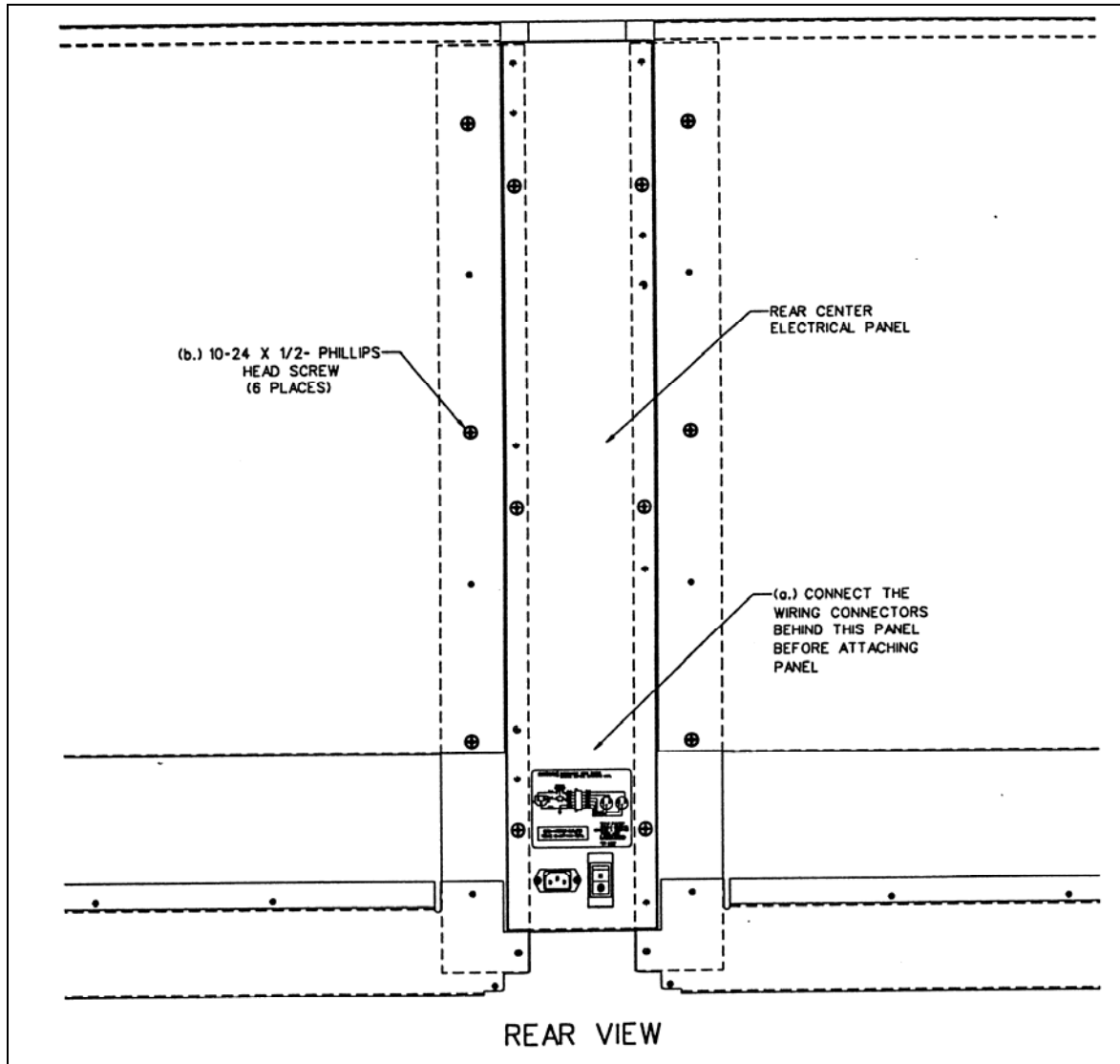


Figure 8

Step 7: Installation of the front center panel.

Position the panel behind the window frame edges and fasten at the bottom with 10-24 x 1/2" Phillips head screws (2 places). See Figure 9. Also fasten the panel at the top with the same type screws (2 places). See Figure 10.

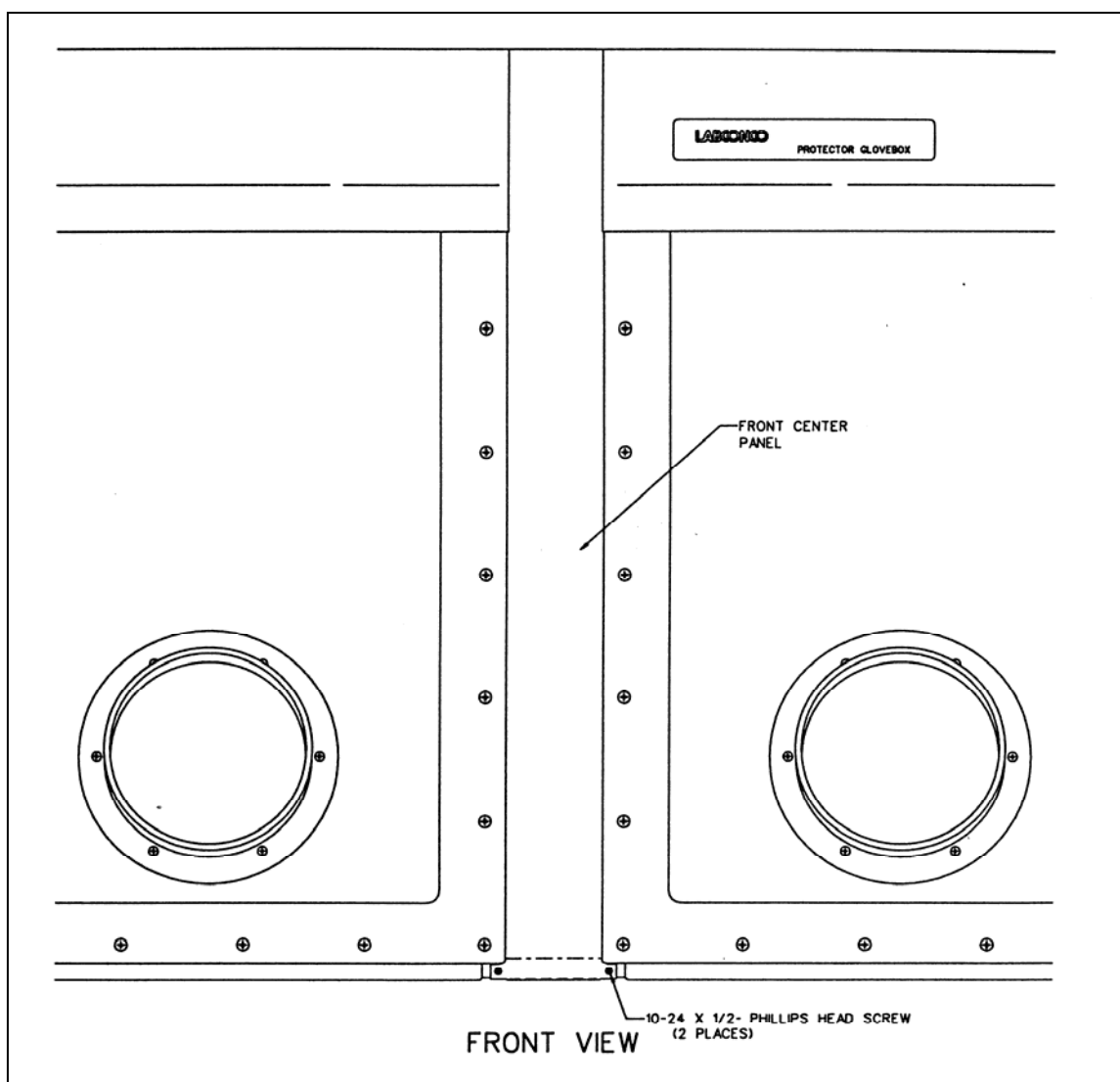


Figure 9

INSTALLATION

Step 8: Installation of the top center panel. See Figure 10

Position the panel at top as shown and fasten with #8 x 1/2" Phillips head sheet metal screws (6 places).

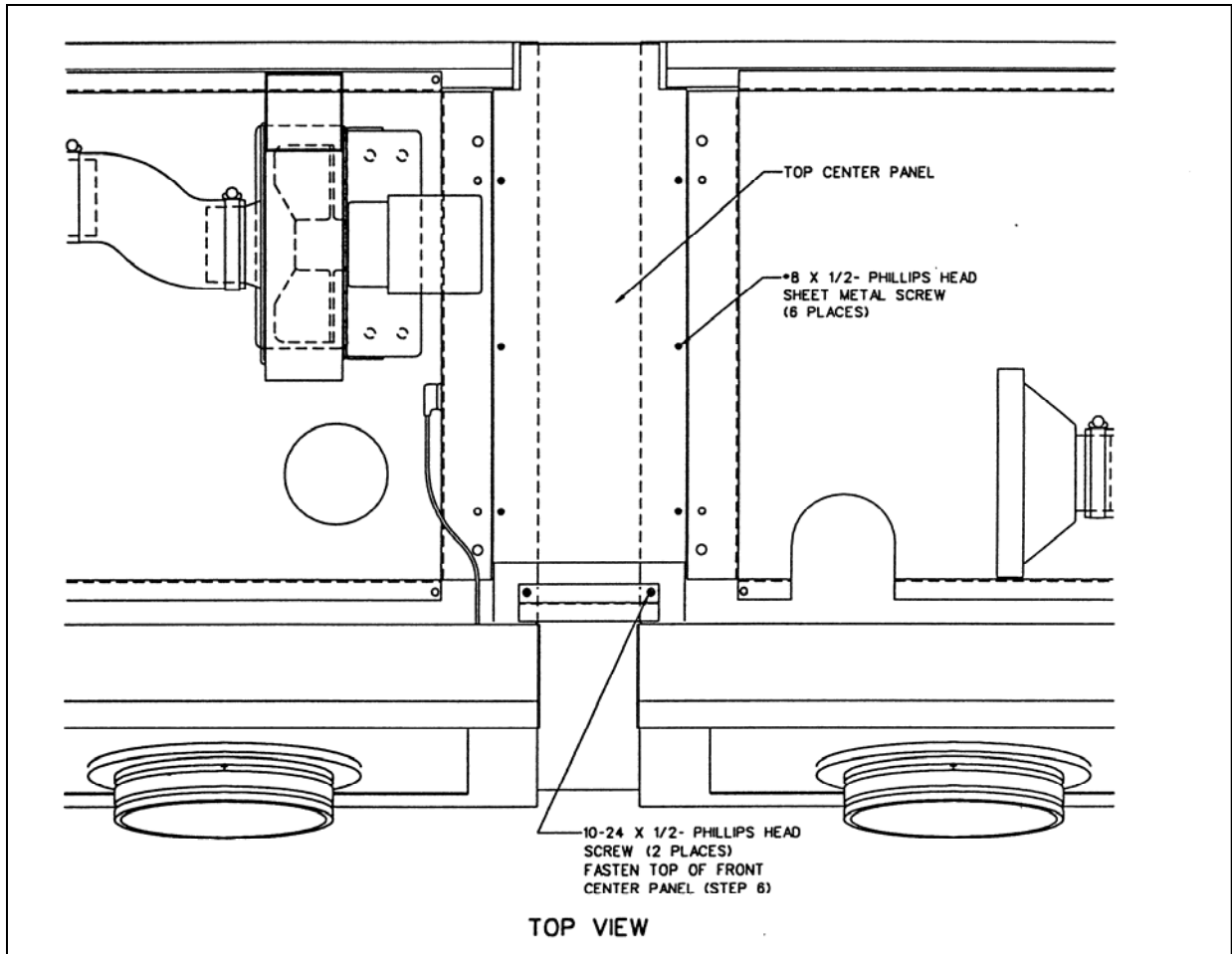


Figure 10

NOTE: Refer to Instruction Manual 5093700 for additional information on installation and operation.

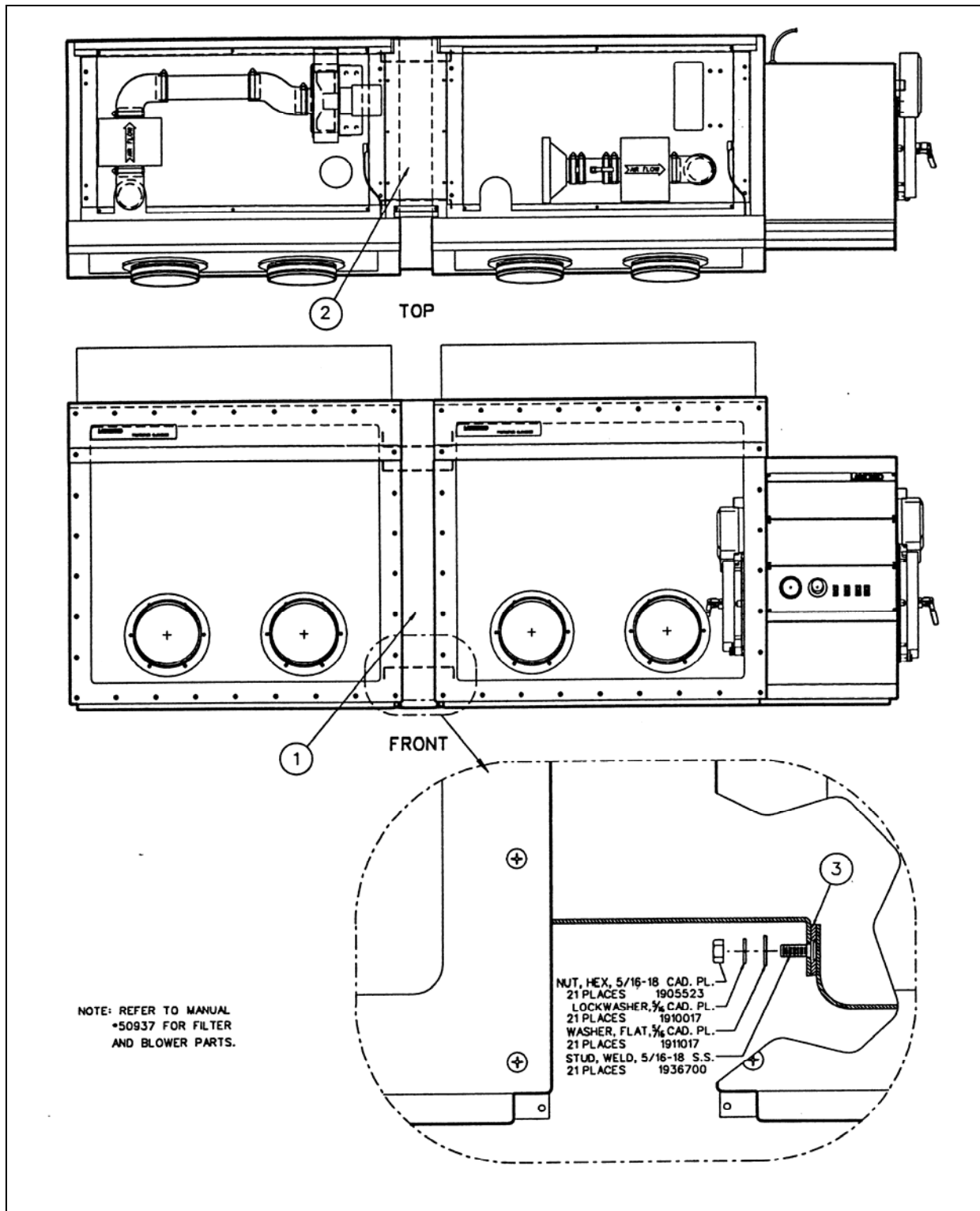


Figure 11

REPLACEMENT PARTS

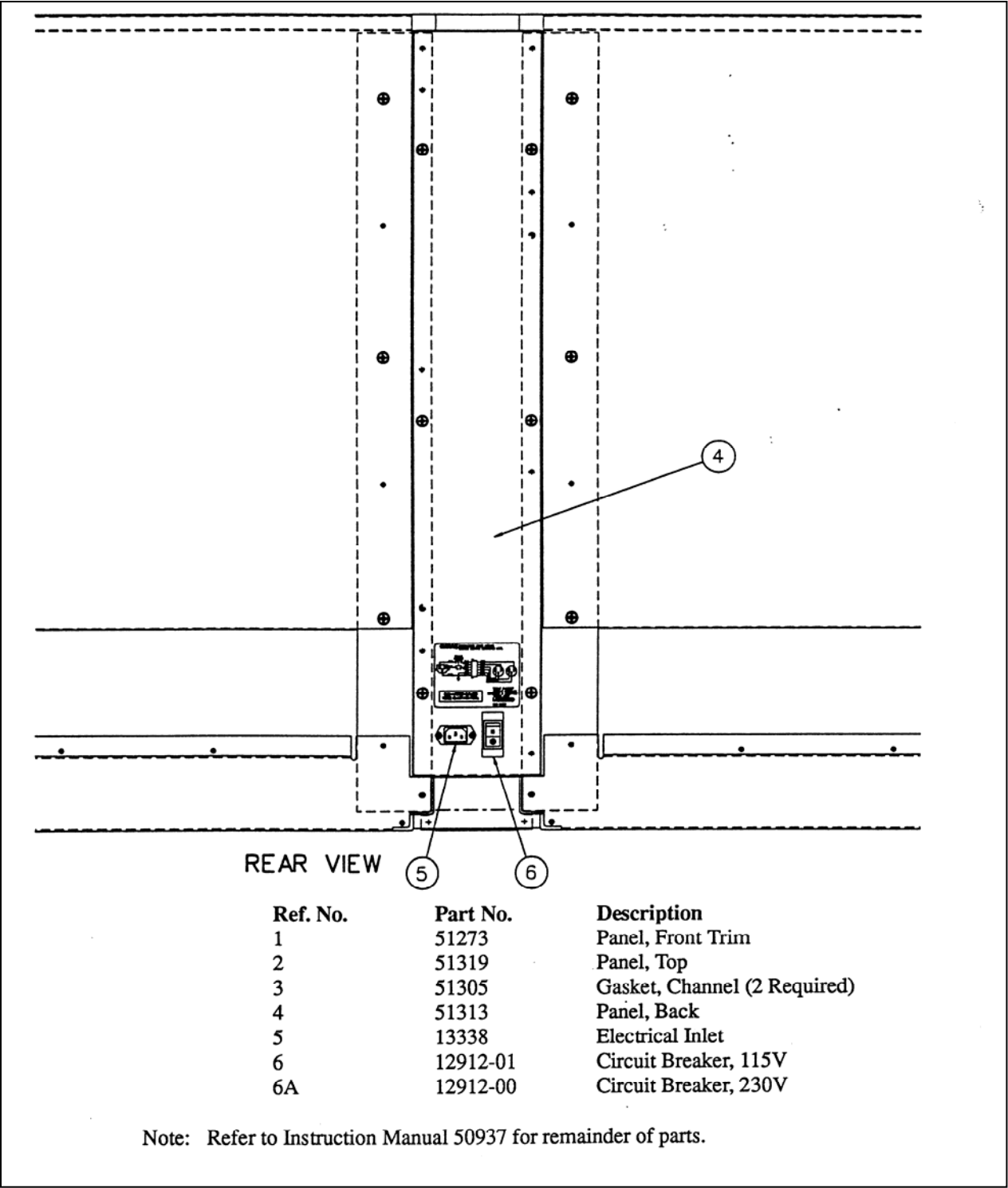


Figure 12

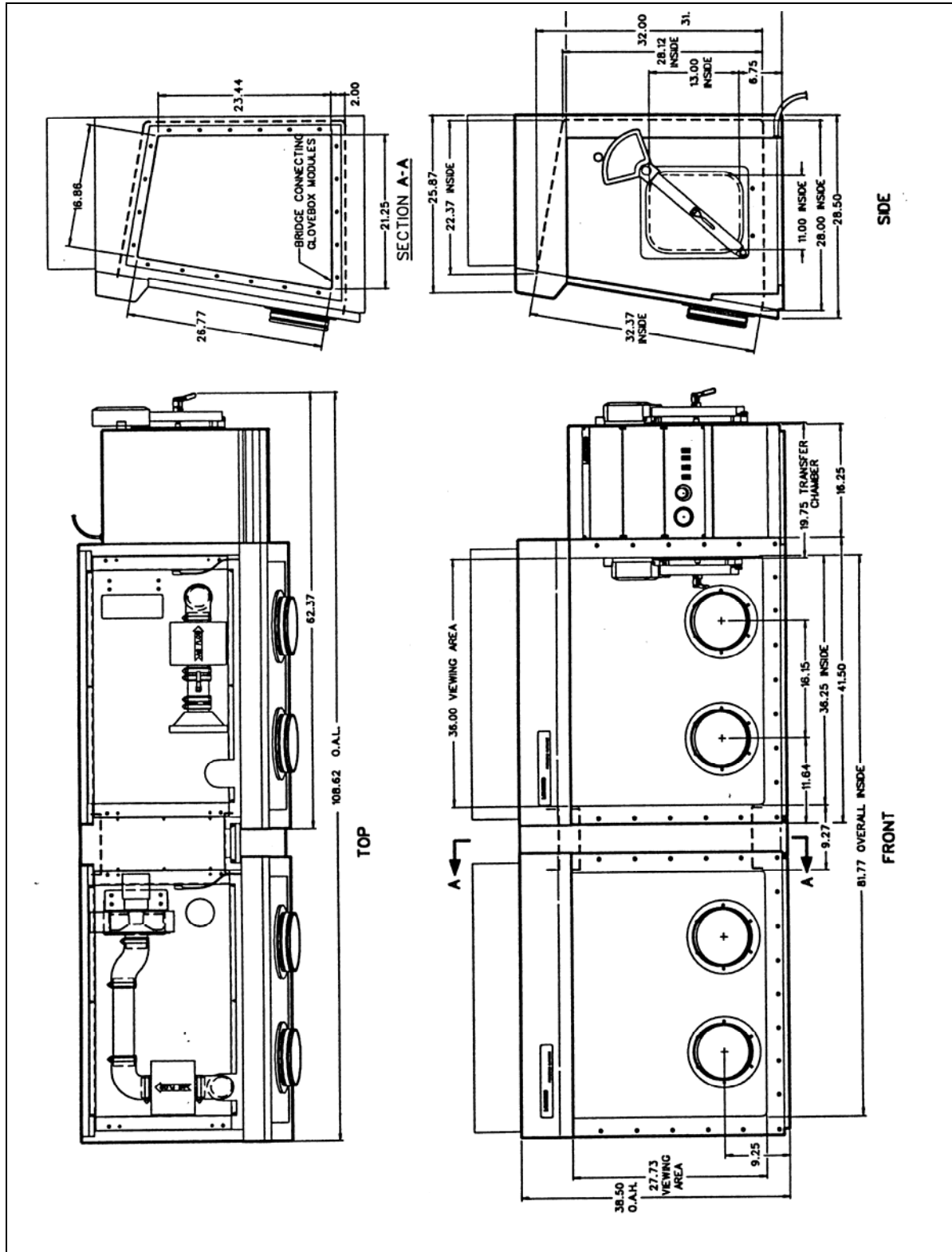


Figure 13

ELECTRICAL SPECIFICATIONS

Double wide glove boxes are equipped with two separate electrical systems and two power supply cords.

115V Model – 5065520:

Main System – 115V, 60 Hz, 15 Amp

Circuit Breakers: 1 – 10 Amp
 1-3 Amp

The 10 Amp circuit breaker controls one 115 volt interior outlet (located on left and right wall) and two 30 watt fluorescent lamps.

The 3 Amp circuit breaker controls the blower.

Auxiliary System – 115V, 60 Hz, 15 Amp

Circuit Breaker: 15 Amp

Controls two 15 Amp outlets located at interior rear.

230V Model – 5065522:

Main System – 230V, 60 Hz, 10 Amp

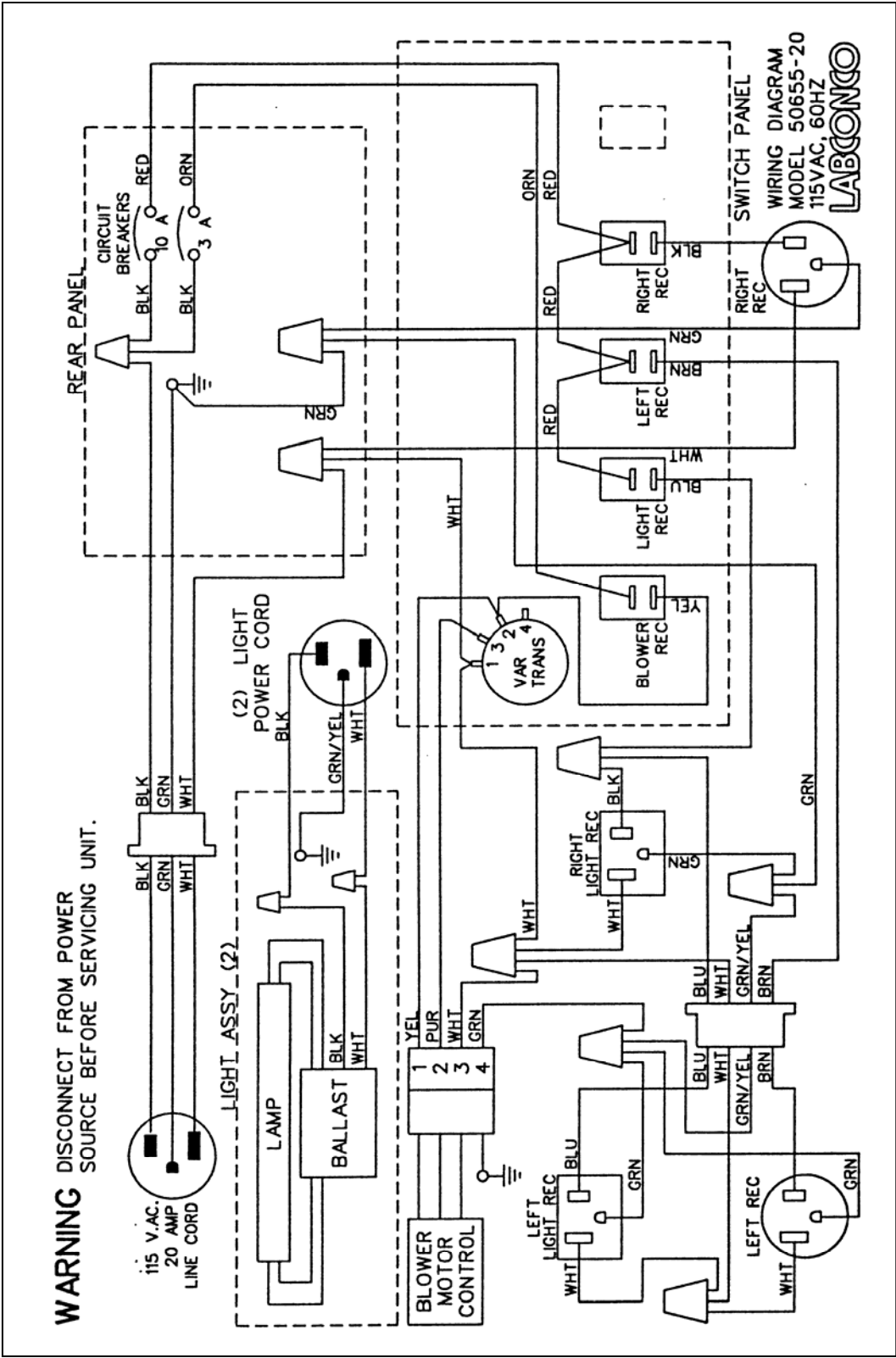
Circuit Breakers: One 10 ampere circuit breaker controls the two 230 volt interior outlets (located on left and right wall), two 30 watt fluorescent lamps and the 115 volt blower (powered through a transformer).

Auxiliary System – 230V, 50 Hz, 10 Amp

Circuit Breaker: 10 Amp

Controls two 10 ampere outlets located at interior rear.

115 V Model 5065520

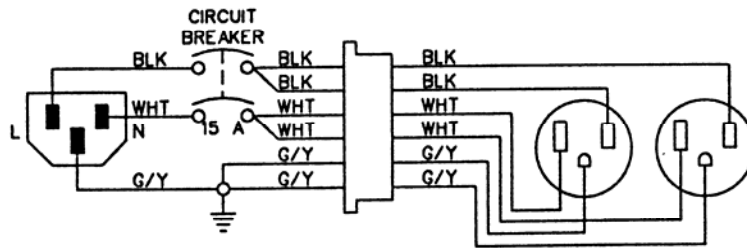


230V Model 5065522



115 V Model 50655-20

WARNING DISCONNECT FROM POWER SOURCE BEFORE SERVICING UNIT.

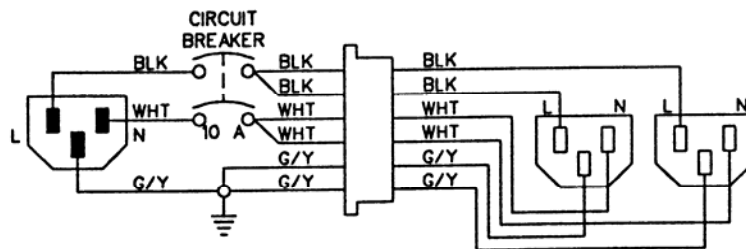


BACK INTERIOR OUTLETS
115VAC 15 AMP MAX. TOTAL

WIRING DIAGRAM
115VAC, 60HZ
LABCONCO

230 V Model 50655-22

WARNING DISCONNECT FROM POWER SOURCE BEFORE SERVICING UNIT.



BACK INTERIOR OUTLETS
230VAC 10 AMP MAX. TOTAL

WIRING DIAGRAM
230VAC, 50HZ
LABCONCO

WARRANTY

We are committed to providing our customers with quality equipment and service after the sale. Part of this objective involves keeping you informed of changes and new product additions. We, therefore, request that you take a moment to fill out the product registration card so we may know your location as well as some of the reasons that prompted you to purchase our product.

Labconco provides a warranty on all parts and factory workmanship. The warranty includes areas of defective material and workmanship, provided such defect results from normal and proper use of the equipment.

The warranty for all Labconco products will expire one year from date of installation or two years from date of shipment from Labconco, whichever is sooner, except the following:

- Purifier® Delta® Series Biological Safety Cabinets carry a three-year warranty from date of installation or four years from date of shipment from Labconco, whichever is sooner.
- Carts carry a lifetime warranty.
- Glassware is not warranted from breakage when dropped or mishandled.

This limited warranty covers parts and labor, but not transportation and insurance charges. In the event of a warranty claim, contact Labconco Corporation or the dealer who sold you the product. If the cause is determined to be a manufacturing fault, the dealer or Labconco Corporation will repair or replace all defective parts to restore the unit to operation. Under no circumstances shall Labconco Corporation be liable for indirect, consequential, or special damages of any kind. This statement may be altered by a specific published amendment. No individual has authorization to alter the provisions of this warranty policy or its amendments. Lamps and filters are not covered by this warranty. Damage due to corrosion or accidental breakage is not covered.

WARNING: 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 urged 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.

SHIPPING CLAIMS

If a shipment is received in visibly damaged condition, be certain to make a notation on the delivering carrier's receipt and have their agent confirm the damage on your receipt. Otherwise, the damage claim may be refused.

If concealed damage or pilferage is discovered, notify the carrier immediately and retain the entire shipment intact for inspection. Interstate Commerce Commission rules require that the claim be filed with the carrier within 15 days after delivery.

NOTE: Do not return goods. Goods returned without prior authorization will not be accepted. Labconco Corporation and its dealers are not responsible for shipping damage. Claims must be filed directly with the freight carrier by the recipient. If authorization has been received to return this product, by accepting this approval, the user assumes all responsibility and liability for biological and chemical decontamination and cleansing. Labconco reserves the right to refuse delivery of any products, which do not appear to have been properly cleaned and/or decontaminated prior to return.

CONTACTING LABCONCO

If you have any questions that are not addressed in this manual, or if you need technical assistance, please contact Labconco's Sales Information Department at 1-800-821-5525, and Service Information at 1-800-522-7658 or 1-816-333-8811, between the hours of 7:00 a.m. and 6:00 p.m. Central Standard Time.

Labconco's mailing address is:

Labconco Corporation
8811 Prospect Avenue
Kansas City, Missouri 64132-2696

Fax # 816-363-0130

Visit Labconco through the Internet at:

<http://www.labconco.com>

or

email: labconco@labconco.com

DECLARATION OF CONFORMITY

Application Council Directive(s): 73/23/EEC, 89/336/EEC

Standard(s) to which conformity is declared: EN61010, EN55022, EN50082-1

Manufacturer's Name: Labconco Corporation

Manufacturer's Address: 8811 Prospect Avenue
Kansas City, MO 64132 USA

Importer's Name: See Shipping/Customs Documents*

Importer's Address: See Shipping/Customs Documents for your equipment

Type of Equipment: Laboratory Equipment – Glovebox Safety Enclosure, Multi-Hazard
Gloveboxes: Model No. 50650-02 and 50655-02, 50655-22 Double
Wide.

Controlled Atmosphere: Models 50600-02, 50601-02 and -22, 50700-02 and -22, 50701-02, 50800-02, and
50801-02 and -22. Also includes controlled atmosphere models with -9147 special, with Regenerative
Drying Tray.

This equipment is sensitive to electrostatic discharge when an 8K Volt air spark is applied to the front panel
of the unit according to the Electro-Static Discharge Tests of IEC 801-2. If this occurs, normal operation of
the unit can be restored by resetting the unit using the power switch. To prevent this malfunction,
personnel operating this equipment should use a wrist strap that is properly bonded to earth ground.

Serial No.: Various – See Individual Declaration

Year of Manufacture: 1999 and subsequent

I, the undersigned, hereby declare that the equipment specified above conforms to the
above Directive(s) and Standard(s).

See individual Declaration of Conformity which
will be signed by the importer for your country.

Place:

(Signature)

Date:

(Full Name)

(Position)

*An individual version of this declaration is included with your shipping/customs
documentation.