

7200 **Service Manual**

P a r t s L i s t

Part No. 066317

Rev. A

March, 2004

Preface

This Parts List is intended to provide information necessary to service the Puritan Bennett *7200 Series* Ventilatory System, models *7200ae*, *7200spe*, *7200e*, *7200a*, *7200sp* and *7200spi*. The Parts List covers the ventilator configurations currently supported by Puritan Bennett, including variations in language, electrical requirements, exhalation compartment, software level, options and required and optional accessories.

The Parts List and Service Manual are intended for use by certified biomedical electronic technicians or personnel with equivalent experience and training in servicing ventilatory equipment. It is recommended that the user complete the Puritan Bennett Technical Training class for the *7200 Series* Ventilatory System for proper parts ordering.

NOTE:

This manual covers the ventilator configurations currently supported by Puritan Bennett, it is not all inclusive and may not be applicable to your ventilator. This information is presented to support qualified individuals in servicing the ventilator. This information is not intended to be used for major repair and overhaul work.

Summary of Contents

Section A - General Information

Includes information about ventilator parts, a list of Service Kits, ordering information and instructions for how to use this parts list. Abbreviations used in the Parts List are listed here.

It is recommended to review the service kits in this section before ordering because the kits may provide a cost effective solution over ordering an individual part.

Section B - 7200 Series Ventilatory System Accessories

The ventilatory system components and systems accessories are illustrated in this section. Part numbers are also listed.

Section C - Ventilator Major Subassemblies

The major subassemblies for the ventilatory system are shown with illustrations and part numbers.

Sections D-L

Illustrations and parts breakdowns for the ventilator's major subassemblies and accessories are listed here.

Sections M-O

Illustrations and parts breakdowns for system components referenced in Section 2 are listed here.

Section P

Illustrations and parts breakdowns for the 7202 Display, PCB Assembly, and Swivel Arm Assembly.

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General Information

A.1 Introduction

Continuous improvements have been made to the *7200 Series Ventilatory System* and its components. The effect of these improvements is differences in service part numbers between earlier and later ventilator versions.

Part number differences also exist among ventilator configurations, influenced by software language, input voltage and frequency, regulatory agency standards, exhalation valve type, software level, and the installed options and accessories. When you order service parts, use care to order the correct parts for the ventilator version and configuration. Review Sections A.1.1 and A.1.2 for further details.

After consulting this *Parts List*, if you are still unsure about the correct part to order or if you need additional technical information, contact your Puritan Bennett representative.

A.1.1 General Configuration Identification

Identification of ventilator model suffix, serial number, installed options, accessories, software, and upgrades is required for proper parts ordering, service, and maintenance.

Puritan Bennett logo. Ventilators and accessories manufactured by Puritan Bennett are identified by corporate logos, trademarks, or trade names of Puritan Bennett. Some ventilator parts are identified with the names of suppliers to Puritan Bennett. All ventilatory system parts are assigned Puritan Bennett part numbers.

Programmed identification. The best way to determine the ventilator model, options, and software, is to use the procedure for “Viewing Ventilator Software Information”. Refer to Section 1.3.3 in the *7200 Series Ventilatory System Service Manual* for details.

NOTE:

If the ventilator is non-operational, use the information below to determine ventilator configuration.

Product identification/nameplate. The electrical rating label provides further ventilator identification, including essential electrical product data.

Serial number plate. A serial number plate is affixed to the ventilator. Assigned serial numbers are never changed and are part of the serialized lot batch control system.

Part number and markings. Parts are, to the extent possible, ink-stamped, marked, or placed in bar-coded plastic bags with identifying part numbers.

Upgrade labels. Whenever Puritan Bennett modifies the ventilator or accessory, the ventilator's documentation is updated. In some cases, a label is affixed (for example, the MegaCPU label). In addition, EPROMS have software revision level markings. See Figure A-1.

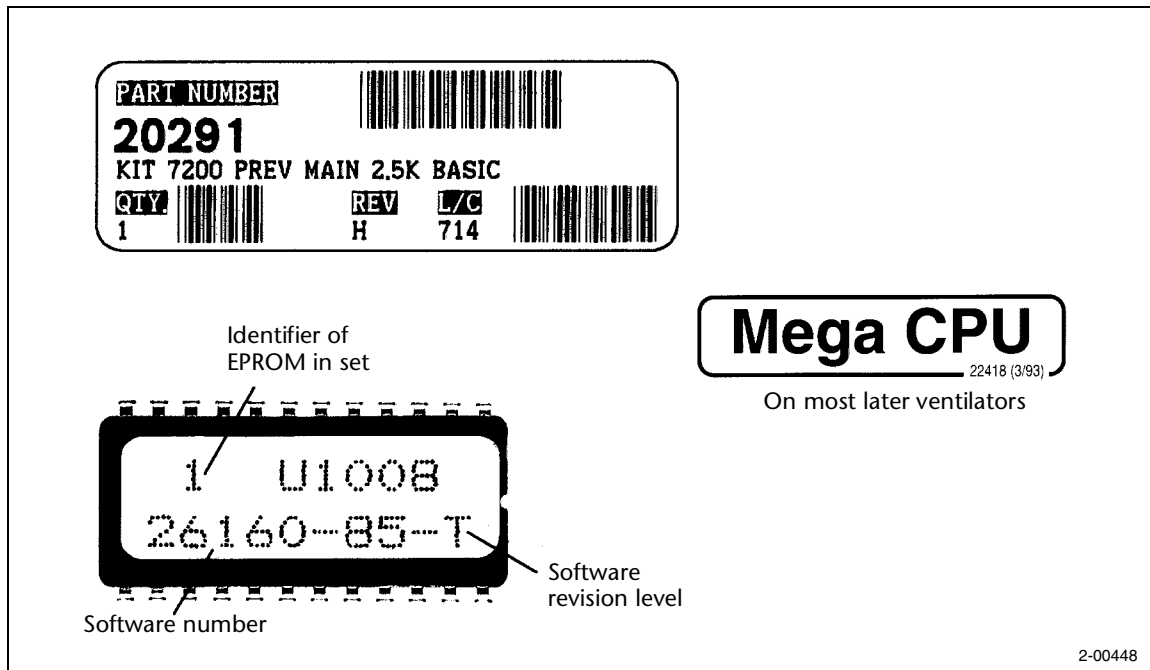


Figure A-1. Part Numbering Marking and Upgrade Labels (samples shown)

Engineering change (E/C) record. This label, affixed to the top cover under the ventilator top cabinet panel, serves as a repository for equipment control data. See Figure A-2.

Always the same as number on Serial Number Plate

Ventilator burn-in test hours recorded by Puritan Bennett

E/C RECORD		
MEDICAL EQUIPMENT		
9271029	F	
SN	E/C REV	
216	5/21/99	
ELAPSED TIME	DATE INSPECTED	BY
UPDATE RECORD		
UPDATE NO.	DATE	BY
UPDATE RECORD		
UPDATE NO.	DATE	BY
For service information and assistance, call Nellcor Puritan Bennett National Service Desk: 1-800-NELLCOR		
NELLCOR PURITAN BENNETT.		
4-010998-00 (03/98)		

2-00449

Figure A-2. E/C Record Label (sample shown)

Regulatory labels. Classification, category, warning, and caution labels are affixed to the ventilator, indicating that the ventilator meets standards or guidelines of various regulatory agencies.

Rail tags and option tabs. Rail tags are installed to each ventilator guardrail to identify installed options. On later ventilators, option tabs are installed on the console keyboard to identify installed options. See Figure A-3.

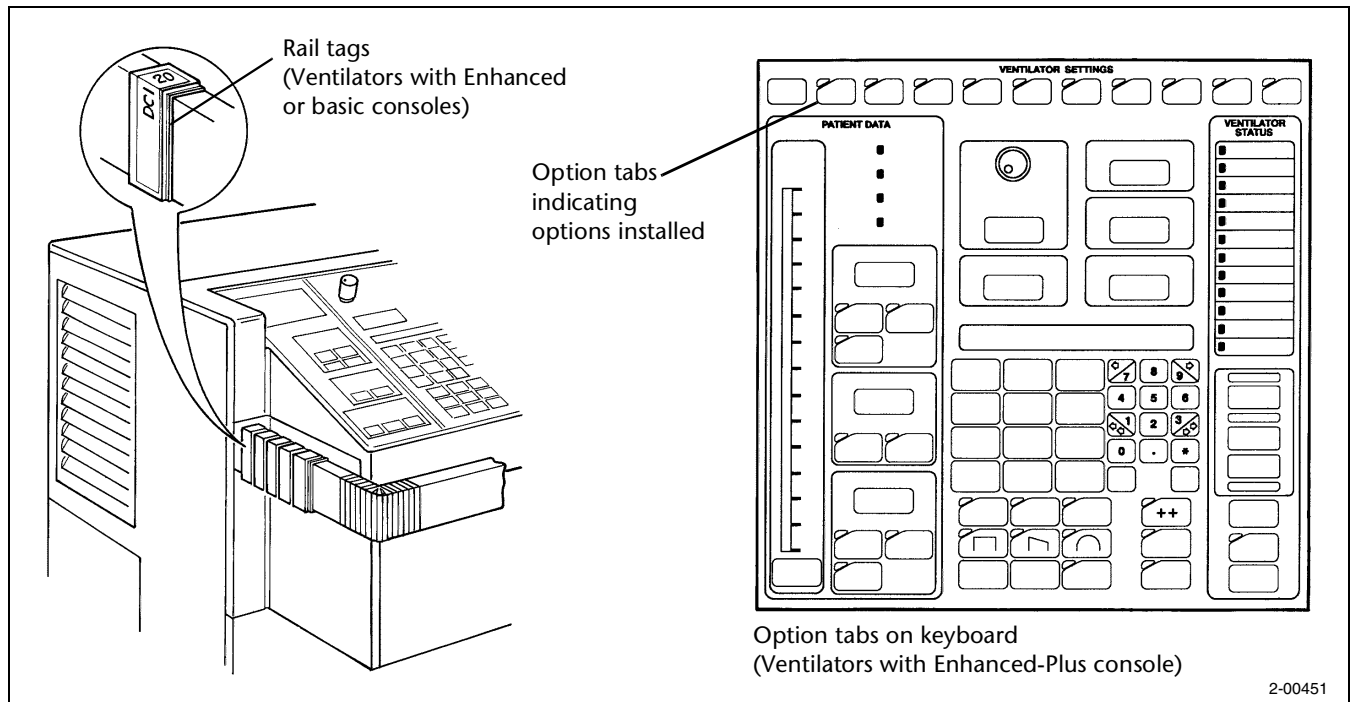


Figure A-3. Rail Tags and Option Tabs

Informal identification. As a convenience, the terms “earlier,” “intermediate,” “later,” and “latest” versions are used to identify the chronological progression of the ventilator and its parts. The terms are informal and are not substitutes for the software/hardware document control system and serialized lot-batch control system.

Sales order/shipping document. The sales order or shipping document lists the model number with an itemized list of options, accessories, and other pertinent data. Reviewing and retaining a copy of this record will facilitate correct service of the ventilator. It is recommended that copies of these documents be kept with the ventilator *Parts List*. See Figure A-4.

MALLINCKRODT Mallinckrodt Inc. 2200 Faraday Avenue Carlsbad, California 92008 Tel 760.603.5300 Fax 760.603.5901		Shipper Number Shipper Date Page	
SHIPPER Ship To:		2310	
HAPPY HOSPITAL GETTING BETTER LANE SOMEWHERE, USA		HAPPY HOSPITAL GETTING BETTER LANE SOMEWHERE, USA	
Customer	Customer P.O. Number	Order Number	Sales Order Date
Product No.	Description	Serial Lot Number	Current Ship
PE7200EM01332	7200 MICROPROCESSOR VENTILATOR	4200173587	25
	4-025734-00	4200171815	
	4-035470-00	4218470931	
	7200 MICROPROCESSOR VENTILATOR	4200173588	
	4-025734-00	4200171815	
	4-035470-00	4218470931	
	7200 MICROPROCESSOR VENTILATOR	4200173589	
	4-025734-00	4200171817	
	4-035470-00	4218470931	
	7200 MICROPROCESSOR VENTILATOR	4200173579	
	4-025734-00	4200171853	
	4-035470-00	4218470931	
	7200 MICROPROCESSOR VENTILATOR	4200173573	
	4-025734-00	4200171815	
	4-035470-00	4218470931	
Comments		Freight Charges	Picked by
		Carrier	# Pieces
		Received by	Weight
			Date
			901558

2-00452

Figure A-4. Sample Shipping Document

Technical Support. For unresolved matters or questions, consult Technical Support (Section A.2.1).

A.1.2 Special Configuration Identification

The terms EMI (electromagnetic interference)¹ and CSA (Canadian Standards Association) are used throughout this manual to distinguish certain subassemblies and components. The terms mean that these subassemblies and components meet the recommended standards of these agencies at the publication date of the *Parts List*.

Unlike EMI, electrostatic discharge (ESD)¹ sensitive parts are not identified in the *Parts List*. The ESD identification is in the product literature that is included with the product.

Regulatory compliance is a shared responsibility of Puritan Bennett and the user. If new or retroactive regulatory requirements are imposed in your area which affect the 7200 Series Ventilatory System, please notify Puritan Bennett.

A.2 Ordering Information

This information is intended to provide general guidance only. For specific requirements, contact Puritan Bennett, as described in Section A.2.1.

A.2.1 Service Requests

In the USA, direct requests for parts, literature, ventilator service, technical support or service training to 1-(800) 635-5267.

Outside of the USA, contact your Puritan Bennett representative or call (510) 463-4420.

A.2.2 Warranty

All new 7200 Series Ventilators are warranted against defects in material and workmanship under conditions of normal use, as detailed in the Puritan Bennett Corporation Warranty (form AA-256). All ventilators serviced by Puritan Bennett are warranted against defects in parts and labor under conditions of normal use, as stipulated in the service order.

A.2.3 Return and Exchange Policy

Returns for exchange or credit may vary with each item. Returned items require a Returned Goods Authorization (RGA) number from a Puritan Bennett representative. ESD-sensitive components must be returned in ESD-safe packaging. Refer to *The 7200 Series Ventilatory System Service Manual*, Section 8 ("Repair: Introduction") and Section 21 ("Repacking and Storage").

1. Under rare conditions, EMI can temporarily have an adverse effect on ventilator functions. In addition, electronic parts may be sensitive to ESD and may sustain permanent damage if not handled properly. Refer to the *7200 Series Ventilatory System Service Manual* for theory of operation, safe and proper use storage, and disposal.

A.3 Using This Parts List

This *Parts List* is divided into sections. These sections include drawings of the ventilator, its subassemblies and system accessories. Alphabetical and Numerical Part Indexes are included.

The indexes list Part Numbers, a Description of the part, the Figure the part appears in and the Item Number. The Item Number refers to the number or callout, that a part is given, which identifies it on the figure.

For example, in Section B on page 3, Item number 10 is listed. It appears in the column for Figure B-2. Its part number (4-020808-00) is listed in the Part Number column. Its description, "Tee, adapter, collector vial (internal exhalation valve configuration)" is listed in the Description column. Additional references and information about the item may appear in the Description column.

A.3.1 How To Find a Part Number

To find the correct part, follow these general guidelines:

- If you know the functional area in which the part is located, refer to the appropriate section in the *Parts List* and follow the figure references until the correct part number is located.
- If you don't know the functional area of a ventilator part, refer to the illustrations of the major subassemblies in Section 3. From this information, you can determine the functional area and section number where the part is located. Refer to the appropriate section in the *Parts List* and follow the figure references until you locate the correct part number.
- If you are looking for a part number for a ventilator accessory, refer to the appropriate illustration in Section 2 and follow the figure references until you locate the correct part number.
- If you know the part number, look it up in the "Numerical Part Index" to find where the part is used. The two columns to the right of the "Description" list the Figure number the item appears in and its number in the figure. For example, the Figure reference C-2 means the part appears in Figure 2, in section C. The Item number "14" means the part is item 14 in Figure C-2.
- If you know the part description or the key word of the part description, look it up in the Alphabetical Part Index to find the part number.

A.3.2 How to Use the Parts Lists and Figures

For each part list/figure combination, note the following:

- The number in the "Item Number" column in the *Parts List* refers to the item callout number in that figure.
- The number in parentheses following the item number on the figure is the quantity of that part.
- Parts not illustrated are described as "Not shown" in the *Parts List*.
- The small 10-digit number at the bottom of each figure is an internal reference number and is not related to an orderable part number.
- Parts not identified with a part number are not orderable, even though the part may be illustrated or have a part description.

A.4 Abbreviations

The abbreviations, acronyms, codes, and symbols used in this *Parts List*, along with their meanings, are listed in Table A-1. Some of these are unique to this *Parts List* and may differ from conventional abbreviations and acronyms and their meanings.

Table A-1: List of Abbreviations

Abbreviation	Meaning
A	ampere
ac	alternating current
assy.	assembly
ATG	auto-test global (Extended Self-Test)
BMET	biomedical engineering technician
BTN	button
CFM	cubic feet per minute
CD	size code for caplugs
CM	cubic meters
cmH ₂ O	centimeters of water
comp.	compressor or compartment
CPU	central processing unit
CR PL	chrome-plated
CSA	Canadian Standards Association
dc	direct current
DCI	Digital Communications Interface option
DIA	diameter
dig.	digital
DISS	Diameter Index Safety System
E/C record	equipment control record
EMI	electromagnetic interference
EPROM	erasable programmable read-only memory
ESD	electrostatic discharge
EXCH	exchange
EXH	exhalation
EX LK	external lock
EXT	external
FIL	fillister-head
HEX	hexagonal
Hz	hertz
ICN	Interface de Communication Numérique
ID	inside diameter
IEC	International Electrotechnical Commission
in.	inch

Table A-1: List of Abbreviations (continued)

Abbreviation	Meaning
IN LK	internal lock
INT	internal
I/O	input/output
J	jack
K	thousand
KNR	knurled
LOC	lock
M	meter
MP	microprocessor
NI PL	nickel plated
NPRN	neoprene
OD	outside diameter
O ₂	oxygen
P	plug
PAL	programmable array logic
PAN	panel
PCB	printed circuit board
ped.	pedestal
PEEP	positive end expiratory pressure
PH	panhead
PLN	plain
P/N	part number
RC	size code for caplugs
RECT	rectangular
RFI	radio frequency interference
RGA	returned goods authorization
RND	round
RF	radio frequency
SOC	socket
SPU	single-patient use
SR	split-ring
SST	stainless steel
STL	steel
TB	tubing
THD	threaded
V	volts
ZC PL	zinc-plated

A.5 Reference Designators

Reference designators (see Table A-2) are used in this *Parts List* as a reference to a component's functional description and location as identified in the *7200 Series Ventilatory System Service Manual*, Section 2. When ordering, always use the actual part number of an electrical or pneumatic component, as part numbers and reference designators may not always be the same.

Table A-2: Electrical and Pneumatic Component Reference Designators

Reference Designator	Part
AC	Air capacitor
CV1 or CV2	Oxygen or air check valve
CV3	Safety valve check valve
CV4	Compressor check valve
CV5	Exhalation check valve
CV6 and CV7	Exhalation pilot pressure check valves
DP	Differential pressure transducer
F1/F3	Oxygen or air inlet filter
F2/F4	Oxygen or air inlet filter (coarse)
F5	Compressor inlet filter
F6	Compressor outlet filter
F7	Pilot pressure filter
F8	Damping restrictor filter
F9	Patient pressure bacteria filter
F10 or F11	Oxygen or air screen filter
JV	Jet venturi
PS1 or PS2	Oxygen or air pressure switch
PS3	Compressor pressure switch
PS4	BUV pressure switch
PSOLs	Proportional solenoid valves
Q1/T1	Oxygen flow sensors
Q2/T2	Air flow sensors
Q3/T3	Exhalation flow sensors
R1 and R2	Safety valve pilot restrictors
R3	Adjustable restrictor
R4	Damping restrictor
R5	P2 inlet damping restrictor
R6 and R7	Exhalation pilot pressure restrictors
REG1 or REG2	Oxygen or air regulator
REG3	Compressor back pressure regulator
REG4	Safety valve back pressure regulator
REG5	PEEP/CPAP regulator

Table A-2: Electrical and Pneumatic Component Reference Designators (continued)

Reference Designator	Part
SOL1	Oxygen nebulizer solenoid valve
SOL2	Air nebulizer solenoid valve
SOL3	Cross-over solenoid valve
SOL4	Exhalation pilot control solenoid valve
SOL5	Safety valve solenoid valve
SOL6	DP autozero solenoid valve
SOL7	PEEP/CPAP solenoid valve
SOL8	P1 autozero solenoid valve
SOL9	Compressor unloading solenoid valve
SV/CV3	Safety valve/check valve assembly

A.6 Service Kits

The following kits are available to upgrade the ventilator to the current factory configuration, to enhance its capabilities, or to perform periodic maintenance. Ordering information for replacement part kits can be found within the appropriate section of this *Parts List*. Each kit contains detailed installation instructions and illustrations.

A.6.1 7200 Series Upgrade Kits

Kits are available to upgrade the 7200 Series Ventilator. These require installation by Puritan Bennett service personnel. Contact your Puritan Bennett representative for details.

A.6.2 Enhanced-Plus Console Kit

Replaces the basic or enhanced keyboard with a reorganized keyboard that allows the operator to more easily select options. Refer to Figure I-2 for kit parts list.

- 4-032110-00 Console kit, Enhanced-Plus, English
- 4-032112-00 Console kit, Enhanced-Plus, French
- 4-032113-00 Console kit, Enhanced-Plus, German
- 4-032114-00 Console kit, Enhanced-Plus, Italian
- 4-032115-00 Console kit, Enhanced-Plus, Japanese
- 4-032111-00 Console kit, Enhanced-Plus, Spanish

A.6.3 7200ae Ventilator Upgrade Kit for the 7250 Metabolic Monitor

Modifies a 7200ae Ventilator, so it can be used with a 7250 Metabolic Monitor. Contents include a Q3 flow sensor with matched EPROM and a modified ventilator top panel. Later ventilators do not require this kit, but require only a modified ventilator top panel kit.

- 4-027541-00 Kit, 7200ae Ventilator upgrade for 7250 Metabolic Monitor

A.6.4 Modified Top Panel Kit

Modifies a 7200ae Ventilator so it can be used with a 7250 Metabolic Monitor. This kit is used in place of the 4-027541-00 upgrade kit in a ventilator that already has a Q3 EPROM. See Figure C-2 and Figure C-3 for a parts breakdown.

- 4-026592-00 Kit, ventilator top panel, modified

A.6.5 7250 Metabolic Monitor Accessory Startup Kit

Contains all parts needed to install the 7250 Metabolic Monitor to a modified ventilator. See Figure C-2 or Figure C-3 for a parts breakdown.

4-031343-00 Kit, 7250 Metabolic Monitor accessory startup

A.6.6 Ventilator Appearance Kit

Includes contents of rail cover appearance kit, plus rail bumpers and powder-coated pedestal base covers and top panel. Refer to Table A-3 for kit parts list.

Table A-3: Ventilator Appearance Kit Parts

Part Number	Quantity	Description
4-010986-00	--	Kit, ventilator appearance
4-001056-00	4	Washer, EX LK, #6, ZC PL (For attaching top cabinet panel) (shown in Figure C-2 or Figure C-3)
--	1	Cover, rail, long (Shown in Figure K-2 or Figure K-3)
--	2	Cover, rail, short (Shown in Figure K-2 or Figure K-3)
--	1	Cover, pedestal, front (Shown in Figure M-3 or Figure N-3)
--	1	Cover, pedestal, rear (Shown in Figure M-3 or Figure N-3)
4-019377-00	1	Seal, console cabinet (Shown in Figure C-2 or Figure C-3)
4-019748-00	1	Panel, top cabinet (Shown in Figure C-2 or Figure C-3)
4-002825-00	4	Stud, ball, 0.250 HEX, 6-32 (For attaching top cabinet panel) (Shown in Figure C-2 or Figure C-3)
4-019475-00	2	Corner, guard rail (Shown in Figure K-2 or Figure K-3)

A.6.7 Cabinet and Pedestal Kits

These kits include the cabinet, pedestal (if applicable), back panel, top panel, insulation, and appropriate labels and hardware. See Figure K-2 and Figure K-3 for parts breakdowns of 4-017120-00 and 4-017121-00 assemblies.

4-017120-00 Ventilator cabinet assembly, 100/115 V and earlier 220/240 V

4-017121-00 Ventilator cabinet assembly, later 220/240 V (EMI)

4-021225-00 Kit, cabinet and pedestal, 100/115 V (non-EMI)

4-021226-00 Kit, cabinet and pedestal, 220/240 V (EMI)

A.6.8 7200a Display and DCI Interface Kit

Adds to the 7200a the cabling needed for the 7202 Display or the DCI option. See Figure J-6 or Figure J-9 for a parts breakdown.

4-025106-00 Kit, Display and DCI interface, 7200a

A.6.9 7202 Display Compatibility Kit

Permits 7202 Displays already in use to accept the 7200ae Graphics option (Option 60). Not required for Displays shipped after January 1991.

4-017180-00 Kit, 7202 Display compatibility, English

A.6.10 7202 Display Upgrade Kit

Upgrades 7202 Displays already in use to accept the 7200ae Graphics option (Option 60). Additionally, redesigned housing converts existing 7202 Displays to equivalent of those shipped after January 1991.

4-018253-00 Kit, 7202 upgrade, English

A.6.11 Exhalation Compartment Upgrade Kit

Replaces the front-loading exhalation compartment with the bottom-loading version. An additional upgrade from external exhalation valve to internal valve may be obtained at the same time.

4-018702-00 Kit, exhalation compartment upgrade, 115 V

4-018701-00 Kit, exhalation compartment upgrade, 220/240 V

4-018703-00 Kit, exhalation compartment upgrade, 100 V

4-018704-00 Kit, internal exhalation valve (available only in conjunction with front-loading to bottom-loading exhalation compartment upgrade)

A.6.12 Rail Cover Appearance Kit

Includes covers and bumpers. See Figure K-2 and Figure K-3 for a parts breakdown.

4-018733-00 Kit, rail cover appearance

A.6.13 Fan Door Kit

Can be used to add louvered door to earlier ventilator models or to replace door (left panel) assembly. Includes all components that comprise fan door, except fan. Door is powder-coated. See Figure K-2 and Figure K-3 for a parts breakdown.

4-026080-00 Kit, fan door

A.6.14 Pulsed Audio Alarm Kit

Changes the audio alarm from one with a continuous tone to a pulsed tone. See Figure I-2, Figure I-3, or Figure I-4 for a parts breakdown. Includes 24-inch long harness.

4-018049-00 Kit, audio alarm, pulsed

A.6.15 Caster Upgrade Kit

Upgrades side-brake casters to top-locking casters for the pedestal or compressor pedestal. The kit includes spacer plates and four casters (two with brakes, two without brakes).

4-018255-00 Kit, caster

A.6.16 Stop Bracket Kit

Modifies the ventilator cooling fan door to allow the operator to access the electronics cooling fan filter. The stop bracket kit must be used with a modified back panel (with screws holding side door in place). See Figure K-2 for a parts breakdown.

4-018413-00 Kit, stop bracket

A.6.17 Pedestal Bumper Kit

Replaces the one-piece early-style bumper with the multipiece bumper with ribbed corners. See Figure M-3 and Figure N-3 for a parts breakdown.

4-026209-00 Kit, pedestal bumper

A.6.18 Flex Arm Reinforcement Kit

Order if ventilator is a 1983, 1984, or 1985 version.

4-018071-00 Kit, flex arm reinforcement

A.6.19 Ventilator Unit Preventive Maintenance Kits

Order the following kits to perform ventilator unit preventive maintenance. See Table A-4, Table A-5, and Table A-6 for a parts breakdown and service interval.

4-020291-00 Kit, preventive maintenance, 2,500-hour, ventilator unit, basic keyboard

4-020271-00 Kit, preventive maintenance, 2,500-hour, ventilator unit, enhanced/
Enhanced-Plus keyboard

4-020803-00 Kit, preventive maintenance, 10,000-hour, ventilator unit, 100 V

4-020790-00 Kit, preventive maintenance, 10,000-hour, ventilator unit, 115 V

4-020804-00 Kit, preventive maintenance, 10,000-hour, ventilator unit, 220/240 V

**Table A-4: 2,500-Hour Ventilator Unit Preventive Maintenance Kit Parts List
(Basic Keyboard)**

Part Number	Quantity	Description
4-020291-00	--	Kit, preventive maintenance, 2,500-hour, ventilator unit, basic keyboard
4-008467-00	2	O-ring, bowl (for water trap and filter assembly with plastic head and spring-loaded, push-type drain valve)
4-016176-00	2	O-ring, bowl (intermediate version water trap)
4-016177-00	2	O-ring, bowl (latest version water trap)
4-018055-00	2	Filter element, inlet (oxygen/air) (Finite) [F1/F3] (for water trap and filter assembly with metal head and stopcock-type drain valve)
4-019351-00	2	Screw, flat, 2-56 x 0.343, black oxide (bezel mounting)
4-020282-00	2	Filter element, inlet (oxygen/air) [F1/F3] (for water trap and filter assembly with plastic head and spring-loaded push-type drain valve)
4-020285-00	2	O-ring replacement kit (for water trap and filter assembly with metal head and spring-loaded push-type drain valve)
--	1	Label, preventive maintenance record
--	1	Instructions, kit, preventive maintenance, 2,500-hour, ventilator unit, basic keyboard
4-030198-00	2	Lamp, alarm, 12 V

**Table A-5: 2,500-Hour Ventilator Unit Preventive Maintenance Kit Parts List
(Enhanced/Enhanced-Plus Keyboard)**

Part Number	Quantity	Description
4-020271-00	--	Kit, preventive maintenance, 2,500-hour, ventilator unit, enhanced/Enhanced-Plus keyboard
4-008467-00	2	O-ring, bowl (for water trap and filter assembly with plastic head and spring-loaded, push-type drain valve)
4-016176-00	2	O-ring, bowl (intermediate version water trap)
4-016177-00	2	O-ring, bowl (latest version water trap)
4-018055-00	2	Filter element, inlet (oxygen/air) (Finite) [F1/F3] (for water trap and filter assembly with metal head and stopcock-type drain valve)
4-020282-00	2	Filter element, inlet (oxygen/air) [F1/F3] (for water trap and filter assembly with plastic head and spring-loaded, push-type drain valve)
4-020285-00	2	O-ring replacement kit (for water trap and filter assembly with metal head and spring-loaded, push-type drain valve)
--	1	Label, preventive maintenance record
4-022295-00	1	Instructions, kit, preventive maintenance, 2,500-hour, ventilator unit, enhanced/Enhanced-Plus keyboard

Table A-6: 10,000-Hour Ventilator Preventive Maintenance Kit Parts List

Part Number	Quantity	Description
4-020803-00	--	Kit, preventive maintenance, 10,000-hour, ventilator unit, 100 V
4-020790-00	--	Kit, preventive maintenance, 10,000-hour, ventilator unit, 115 V
4-020804-00	--	Kit, preventive maintenance, 10,000-hour, ventilator unit, 220/240 V
4-000034-00	2	Filter, inlet (oxygen/air) [F2/F4]
4-000314-00	1	Restrictor, 0.020 ID, gold (damping) [R4]
4-003791-00	1	Filter, bacteria, nebulizer, with tube (Used in 4-020803-00 kit only)
4-006308-00	1	Filter, bacteria, OmniFilter (Used in 4-020803-00 kit only)
4-008467-00	2	O-ring, bowl (later version water trap)
--	1	Tube, extruded, 3/16 ID x 3/8 OD (Bulk item P/N 4-008575-00 precut to 11.5 in. (29.2 cm))
4-011413-00	1	Capacitor assembly, air [AC]
4-011905-00	2	Filter, bacteria, pilot pressure [F7]/damping restrictor [F8]
4-012411-00	1	Switch, power
4-016176-00	2	O-ring, bowl (intermediate version water trap)
4-016177-00	2	O-ring, bowl (latest version water trap)
4-018055-00	2	Filter element, inlet (oxygen/air) (Finite) [F1/F3] (for water trap and filter assembly with metal head and stopcock-type drain valve)
4-018129-00	1	Valve assembly, exhalation (for bottom-loading compartment) (Used in 4-020803-00 kit only)

Table A-6: 10,000-Hour Ventilator Preventive Maintenance Kit Parts List (continued)

Part Number	Quantity	Description
4-019344-00	1	Valve assembly, solenoid, exhalation pilot control [SOL4]
4-019351-00	2	Screw, flat, 2-56 x 0.343, black oxide (for bezel on basic keyboard)
4-019587-00	2	Nut and spacer, nylon, white, 0.500 TB
4-019588-00	2	Grab ring, 303 SST, 0.500 TB
4-019589-00	2	O-ring, BUNA-N, 0.500TB
4-020276-00	1	Regulator assembly, oxygen
4-020277-00	1	Regulator assembly, air
4-020282-00	2	Filter element, inlet (oxygen/air) [F1/F3] (for water trap and filter assembly with plastic head and spring-loaded, push-type drain valve)
4-020285-00	2	O-ring replacement kit (for water trap and filter assembly with metal head and spring-loaded, push-type drain valve)
	1	Includes one of the following fans, depending on type of kit ordered (see above):
4-020303-00	--	Fan, 100 V, 80 CFM, 4-1/2 inches
4-019135-00	--	Fan, 115 V, 80 CFM, 4-1/2
4-021216-00	--	Fan, 220/240 V, 80 CFM, 4-1/2 inches (with motion detector)
--	1	Label, preventive maintenance kit
4-020719-00	2	Filter, screen (oxygen/air) [F10/F11]
	1	Includes one of the following instruction sheets, depending on type of kit ordered (see above):
--	--	Instructions, kit, preventive maintenance, 10,000-hour, ventilator unit, 115/220/240 V
--	--	Instructions, kit, preventive maintenance, 10,000-hour, ventilator unit, 100 V
4-021526-00	1	Battery kit
4-030198-00	2	Lamp, alarm, 12 V (for alarm summary display on basic keyboard)

A.6.20 Compressor Compartment Preventive Maintenance Kits

Order the following kits to perform compressor compartment preventive maintenance. See Table A-7 and Table A-8 for a parts breakdown.

- 4-020292-00 Kit, preventive maintenance, 2,500-hour, compressor compartment
- 4-020798-00 Kit, preventive maintenance, 10,000-hour, compressor compartment, 100 V 50 Hz
- 4-020799-00 Kit, preventive maintenance, 10,000-hour, compressor compartment, 100 V 60 Hz
- 4-020791-00 Kit, preventive maintenance, 10,000-hour, compressor compartment, 115 V 60 Hz
- 4-020801-00 Kit, preventive maintenance, 10,000-hour, compressor compartment, 220/240 V 50 Hz

4-020802-00 Kit, preventive maintenance, 10,000-hour, compressor compartment,
220 V 60 Hz

Table A-7: 2,500-Hour Compressor Compartment Preventive Maintenance Kit Parts List

Part Number	Quantity	Description
4-020292-00	--	Kit, preventive maintenance, 2,500-hour, compressor compartment
4-000004-00	1	Cable tie, large
4-019006-00	1	Filter, compressor inlet [F5]
--	1	Label, preventive maintenance record
--	1	Instructions, kit, preventive maintenance, 2,500-hour, compressor compartment

Table A-8: 10,000-Hour Compressor Compartment Preventive Maintenance Kit Parts List

Part Number	Quantity	Description
4-020798-00	--	Kit, preventive maintenance, 10,000-hour, compressor compartment, 100 V 50 Hz
4-020799-00	--	Kit, preventive maintenance, 10,000-hour, compressor compartment, 100 V 60 Hz
4-020791-00	--	Kit, preventive maintenance, 10,000-hour, compressor compartment, 115 V 60 Hz
4-020801-00	--	Kit, preventive maintenance, 10,000-hour, compressor compartment, 220/240 V 50 Hz
4-020802-00	--	Kit, preventive maintenance, 10,000-hour, compressor compartment, 220 V 60 Hz
	1	Includes one of the following pulsation damper assemblies, depending on kit selected:
--	--	Pulsation damper assembly, 50 Hz
--	--	Pulsation damper assembly, 60 Hz
4-000004-00	8	Cable tie, large
--	1	Tube, extruded, 3/8 ID x 5/8 OD, 16 ft (Bulk item P/N 4-008588-00 precut to 16 ft (50 Hz units) or 14.5 ft (60 Hz units))
4-019362-00	1	Tube, connector
4-020702-00	4	Tee, barb, white, nylon, 1/2 ID TB (for pulsation damper)
4-000614-00	1	Flex tube, tracheostomy
4-019757-00	2	Elbow, outlet filter
4-003966-00	2	Screw, BTN, 10-32 x 3/8, black oxide
4-018059-00	1	Wire kit, compressor
4-019006-00	1	Filter, compressor inlet [F5]
4-019007-00	1	Filter, compressor outlet [F6]
	1	Includes one of the following compressor/motor assemblies, depending on kit selected:
--	--	Compressor/motor assembly, 115 V 60 Hz

Table A-8: 10,000-Hour Compressor Compartment Preventive Maintenance Kit Parts List (continued)

Part Number	Quantity	Description
4-019383-00	--	Compressor/motor assembly, 100 V 50 Hz
4-019382-00	--	Compressor/motor assembly, 100 V 60 Hz
4-019053-00	--	Compressor/motor assembly, 240 V 50 Hz
4-019374-00	--	Compressor/motor assembly, 220 V 60 Hz
4-019471-00	4	Mount, shock
	--	Includes one of the following fans, depending on kit selected:
4-020304-00	1 (115 V units)	Fan, 115 V, 106 CFM, 4-1/2 inches
	2 (100 V units)	
4-020305-00	2	Fan, 230 V, 106 CFM, 4-1/2 inches
--	1	Label, preventive maintenance record
--	1	Instructions, kit, preventive maintenance, 10,000-hour, compressor compartment

A.6.21 Ventilator Unit Spare Part Kit

This kit is designed to provide optimum service capabilities while maintaining costs at a minimum. See Table A-9 for a parts breakdown.

Table A-9: Spare Parts Kit Parts List

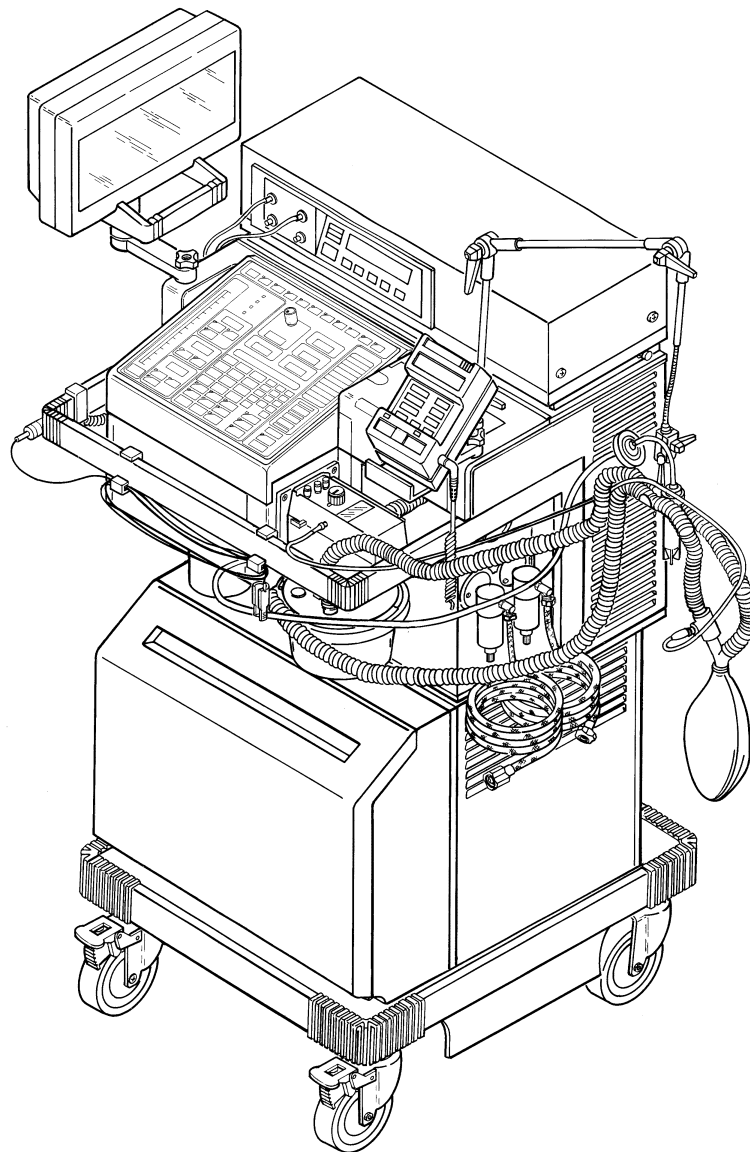
Part Number	Quantity	Description
4-000003-00	10	Cable tie, small
4-000004-00	25	Cable tie, large
4-000016-00	2	O-ring (for gas supply inlet assemblies)
4-000034-00	2	Filter, inlet (oxygen/air) [F2/F4]
4-000875-00	3	Screw, FIL, 8-32 x 1/2 (for gas inlet assemblies)
4-011905-00	2	Filter, bacteria (nebulizer filter, pilot pressure filter [F7], damping restrictor filter [F8], or patient pressure filter [F9])
4-019006-00	1	Filter, compressor inlet [F5]
4-019007-00	1	Filter, compressor outlet [F6]
4-019111-00	1	Switch, pressure, BUW [PS4]
4-019245-00	1	Valve assembly, solenoid, DP autozero [SOL6] or P1 autozero [SOL8]
4-019250-00	1	Regulator assembly, PEEP/CPAP [REG5]
4-018256-00	1	Sensor, exhalation [Q3/T3], with EPROM
4-019341-00	1	Valve assembly, solenoid, safety valve [SOL5] or PEEP/CPAP [SOL7]
4-019351-00	2	Screw, flat, 2-56 x 0.343, black oxide (for bezel on basic keyboard)

Table A-9: Spare Parts Kit Parts List (continued)

Part Number	Quantity	Description
4-019475-00	2	Corner, guard rail
4-019535-00	1	Sensor, flow, air, with EPROM [Q2/T2]
4-019536-00	1	Sensor, flow, oxygen, with EPROM [Q1/T1]
4-019994-00	1	Lacquer, spray, light gray
4-019995-00	1	Lacquer, spray, blue
4-019996-00	1	Lacquer, spray, charcoal
4-020276-00	1	Regulator assembly, oxygen
4-020277-00	1	Regulator assembly, air
4-020278-00	1	Water trap and filter assembly, oxygen
4-020279-00	1	Water trap and filter assembly, air
4-020282-00	2	Filter element, inlet (oxygen/air) [F1/F3] (for water trap and filter assembly with plastic head and spring-loaded, push-type drain valve)
4-020285-00	2	O-ring replacement kit (for water trap and filter assembly with metal head and spring-loaded, push-type drain valve)
	1	Includes one of the following valve kits, depending on kit selected:
4-020290-00	--	Valve kit, safety relief/back pressure (for all configurations but German)
4-019864-00	--	Valve kit, safety relief/back pressure (for German configurations)
4-020719-00	2	Filter, screen (oxygen/air) [F10/F11]
4-030198-00	10	Lamp, alarm, 12 V (for alarm summary display on basic keyboard)
4-040106-00	1	Adhesive, silicone, RTV-732, 3 oz

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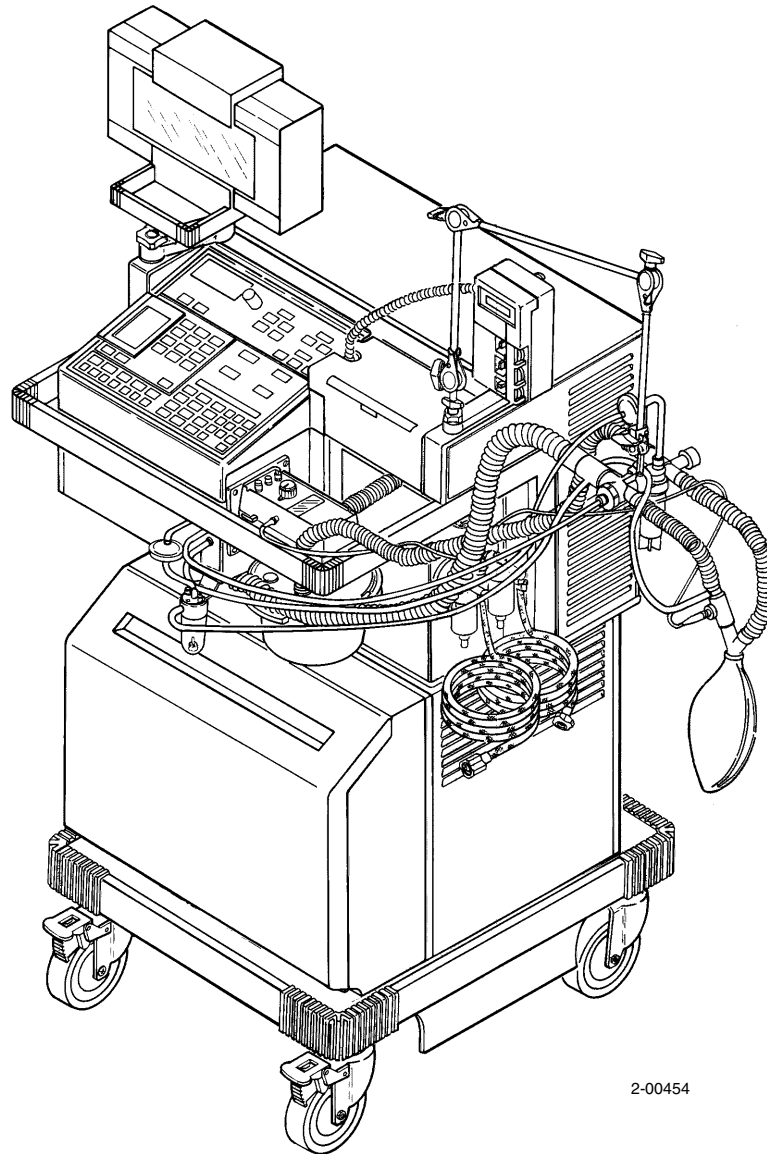
7200 Series Ventilatory System



2-00453

With Internal Exhalation Valve

Figure B-1. 7200 Series Ventilatory System (Sheet 1 of 2)



2-00454

With External Exhalation Valve

Figure B-1. 7200 Series Ventilatory System (Sheet 2 of 2)

B.1 7200 Series Ventilatory System Assemblies and Accessories

Table B-1: 7200 Series Ventilatory System Assemblies and Accessories Parts List

Item Number (Figure B-2)	Part Number	Description
--	--	7200 Series Ventilatory System (Refer to Section A for EMI information.) Model 7200ae Ventilator (Refer to Section C for further detail.) Model 7200spe Ventilator (Refer to Section C for further detail.) Model 7200e Ventilator (Refer to Section C for further detail.) Model 7200a Ventilator (Refer to Section C for further detail.) Model 7200sp Ventilator (Refer to Section C for further detail.) Model 7200spi Ventilator (Refer to Section C for further detail.)
1	--	Ventilator assembly (Refer to Section C for further detail.)
2	4-032006-00	Flex arm assembly (later version). (Refer to Figure B-5 for further detail.)
	--	Flex arm assembly (earlier version). (Not stocked. Order the individual component parts (Figure B-4) or a flex arm assembly (P/N 4-032006-00).)
3	4-001375-00	Support arm assembly (Refer to Figure B-4 for further detail.)
4	4-011355-00	Lung assembly, test, 120 cmH ₂ O
5	4-006598-00	Caplug, RC, red polyethylene (air)
6	4-006597-00	Caplug, CD, red polyethylene (oxygen)
7	--	(Not applicable.)
8	4-001474-00	Hose assembly, high pressure, DISS oxygen female x female, 10 ft (3.05 m) (green hose connector)
9	4-006541-00	Hose assembly, high pressure, DISS air female x female, 10 ft (3.05 m) (black hose connector)
10	4-020808-00	Tee, adapter, collector vial (internal exhalation valve configurations)
11	4-019161-00	Tee, adapter, collector vial (external exhalation valve configurations)
12	4-020809-00	Vial, collector (internal exhalation valve configurations)
13	4-019145-00	Vial, collector (external exhalation valve configurations)
14	4-006306-00	Filter assembly, OmniFilter
15	4-003443-00	Coupling, bacteria filter
16	4-006308-00	Filter, bacteria, OmniFilter
17	4-019415-00	Water trap assembly, patient pressure (external exhalation valve configurations). (Refer to Figure B-6 for further detail.)
18	4-011905-00	Filter, bacteria (patient pressure) [F9] (external exhalation valve configurations)
19	4-003351-00	Tube, 0.187 ID x 0.312 OD x 3.5 inches long, translucent clear (external exhalation valve configurations)
20	4-019003-00	Ventilator pedestal assembly (Refer to Section N for further detail.)

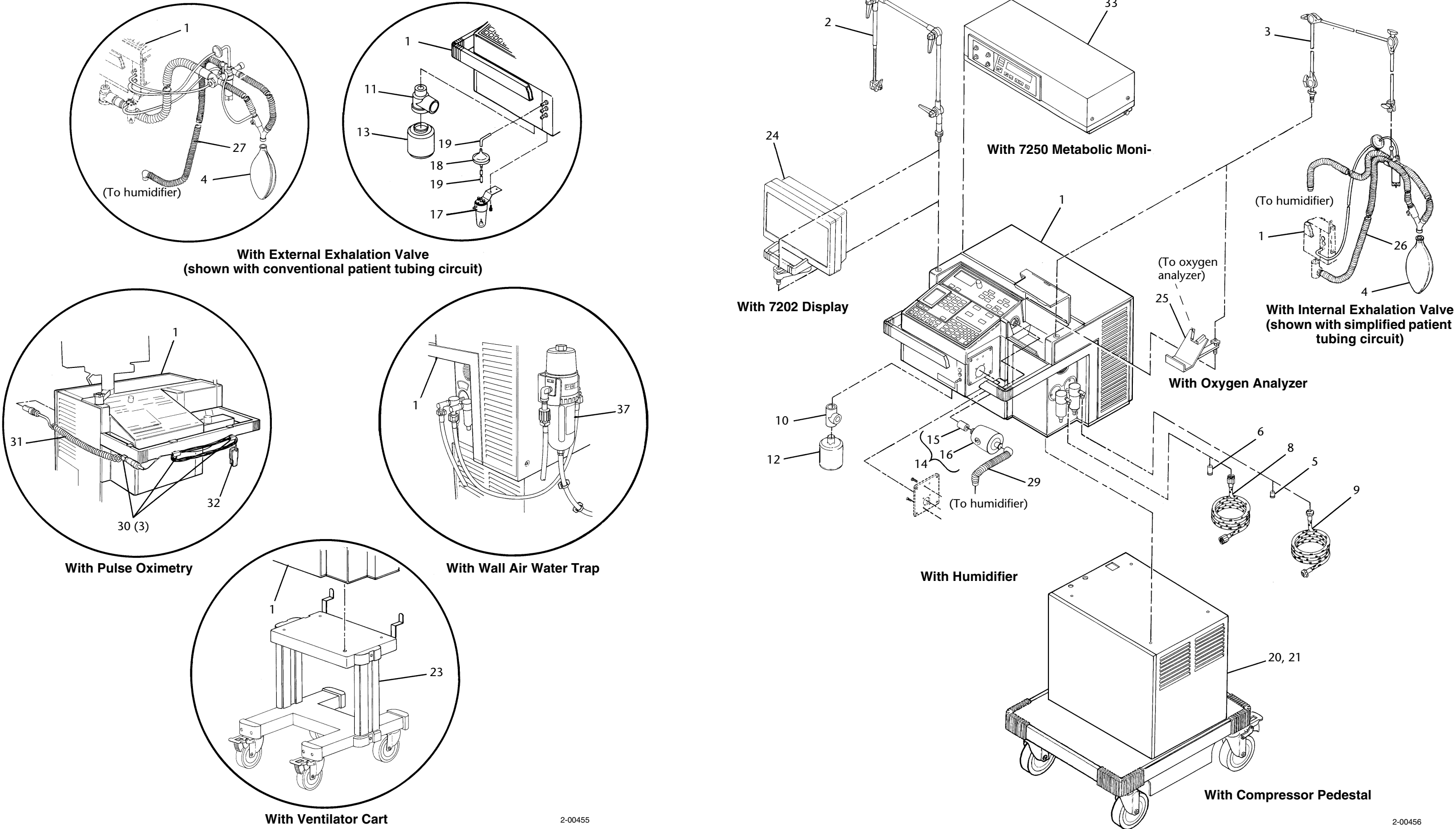
Table B-1: 7200 Series Ventilatory System Assemblies and Accessories Parts List (continued)

Item Number (Figure B-2)	Part Number	Description
21	4-019795-00	Compressor/pedestal assembly, 100 V 50 Hz, Japanese (Refer to Section M for further detail.)
	4-019796-00	Compressor/pedestal assembly, 100 V 60 Hz, Japanese (Refer to Section M for further detail.)
	4-019790-00	Compressor/pedestal assembly, 115 V 60 Hz, English (Refer to Section M for further detail.)
	4-019488-00	Compressor/pedestal assembly, 115 V 60 Hz, Spanish (Refer to Section M for further detail.)
	4-019752-00	Compressor/pedestal assembly, 115 V 60 Hz, French (Refer to Section M for further detail.)
	4-019755-00	Compressor/pedestal assembly, 220 V 50 Hz, English (Refer to Section M for further detail.)
	4-019793-00	Compressor/pedestal assembly, 220 V 50 Hz, French (Refer to Section M for further detail.)
	4-019794-00	Compressor/pedestal assembly, 220 V 50 Hz, German (Refer to Section M for further detail.)
	4-026185-00	Compressor/pedestal assembly, 220 V 50 Hz, Italian (Refer to Section M for further detail.)
	4-019791-00	Compressor/pedestal assembly, 220 V 50 Hz, Spanish (Refer to Section M for further detail.)
	4-019792-00	Compressor/pedestal assembly, 240 V 50 Hz, English (Refer to Section M for further detail.)
22	--	Compartment, pedestal storage (no longer available)
23	4-017360-00	Ventilator cart assembly, without drawer assembly (Refer to Section O for further detail.)
	4-017330-00	Drawer kit, for ventilator cart (Refer to Section O for further detail.)
24	4-018470-00	7202 Display module assembly, English (Refer to Section P for replacement parts.)
	4-018473-00	7202 Display module assembly, French (Refer to Section P for replacement parts.)
	4-018474-00	7202 Display module assembly, French (Refer to Section P for replacement parts.)
	4-018472-00	7202 Display module assembly, German (Refer to Section P for replacement parts.)
	4-018471-00	7202 Display module assembly, Italian (Refer to Section P for replacement parts.)
		7202 Display module assembly, Spanish (Refer to Section P for replacement parts.)
25	4-023413-00	Bracket, mounting, oxygen analyzer
26	--	Simplified patient tubing circuit (internal exhalation valve configurations). (Refer to 7200 Series <i>Operator's Manual</i> or <i>Hospital Accessories Catalog</i> for further detail.)
27	--	Conventional patient tubing circuit (external exhalation valve configurations). (Refer to 7200 Series <i>Operator's Manual</i> or <i>Hospital Accessories Catalog</i> for further detail.)

Table B-1: 7200 Series Ventilatory System Assemblies and Accessories Parts List (continued)

Item Number (Figure B-2)	Part Number	Description
28	--	(Not applicable.)
29	4-011720-00	Tube assembly, Cascade, silicone
30	4-026669-00	Retainer, cable (units with Pulse Oximetry only)
31	4-026668-00	Cable, extension, Pulse Oximetry (units with Pulse Oximetry only)
32	--	Sensor (probe) (units with Pulse Oximetry only). (Not stocked. Refer to separate option appendix for ordering information.)
33	4-026500-00	7250 Metabolic Monitor assembly (Used with 7200ae Ventilator with internal exhalation valve only). (Refer to Figure B.3 for mounting details and to separate service manual for replacement parts.)
37	4-019667-00	Wall Air Water Trap assembly (Refer to Figure B-7, item 1 for detail.)
38	4-018799-00	Kit, Wall Air Water Trap bracket (Not shown. Refer to Figure B-7, item 13 for detail.)
39	4-018015-00	Kit, Wall Air Water Trap bracket, with fittings and hoses (Not shown. Refer to Figure B-7, item 12 for detail.)

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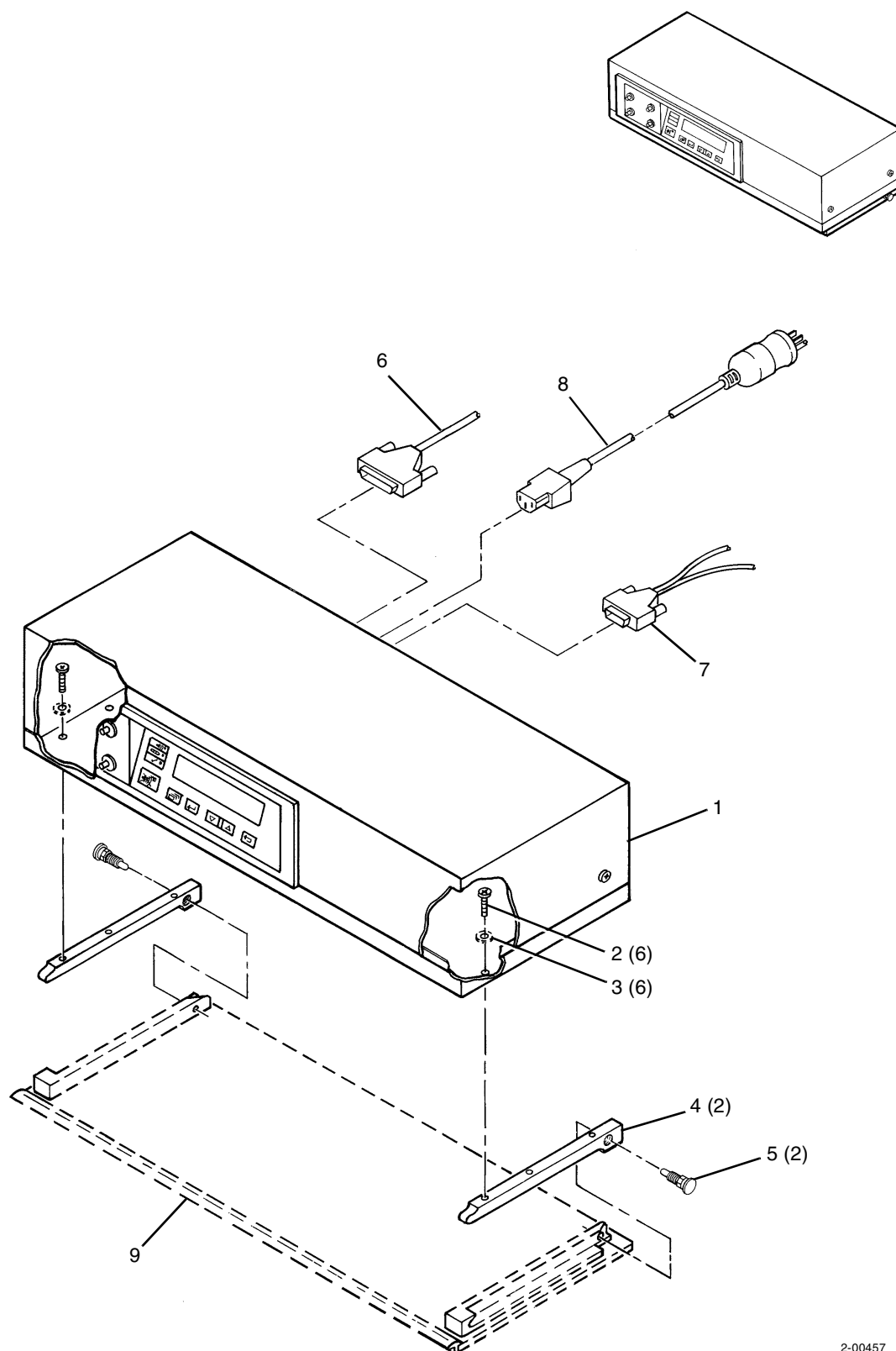
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Figure 2-2. 7200 Series Ventilatory System

B.2 7250 Metabolic Monitor Assembly

Table 2-2: 7250 Metabolic Monitor Assembly Parts List

Item Number (Figure B.3)	Part Number	Description
--	4-026500-00	7250 Metabolic Monitor assembly
1	--	7250 Metabolic Monitor (Not stocked. Order a 7250 Metabolic Monitor assembly (P/N 4-026500-00).)
2	--	Screw (Not stocked)
3	--	Washer (Not stocked)
4	--	Bracket (Not stocked)
5	--	Knob (Not stocked)
6	4-026897-00	Cable, communications, 6 ft (1.83 m)
7	4-027145-00	Harness, 7250 Monitor/7200ae Ventilator
8	--	Power cord (Refer to separate service manual for part number information.)
9	--	Ventilator modified top panel (Refer to Figure C-2, sheet 2 and Figure C-3, sheet 2, for further detail.)
10	4-031343-00	Kit, 7250 Metabolic Monitor accessory startup (Not shown.). (Contains all parts (except 7250 Monitor) that are required to install monitor to a modified ventilator. These parts include calibration gas tank, 7250/7200ae harness, sample lines, filters, connectors, and power cord.)



2-00457

Figure 2-3. 7250 Metabolic Monitor Assembly

B.3 Flex Arm Assemblies

Table B-3: Earlier Flex Arm Assembly Parts List

Item Number (Figure B-4)	Part Number	Description
--	--	Flex arm assembly (earlier version). (Not stocked. Order the individual component parts or a new flex arm (P/N 4-032006-00). Refer to Figure B-5 for further details.)
1	4-018156-00	Arm, with pivots
2	4-018155-00	Flex arm assembly, rotating
3	4-018178-00	Catch, flex arm assembly
4	4-018181-00	Catch, with threaded shaft
5	4-018159-00	Lever clamp, small
6	4-018174-00	Nut, internal thread
7	4-018177-00	Ring, friction
8	4-018157-00	Base arm assembly
9	4-018175-00	Washer, galvanized zinc
10	4-018176-00	Washer, plastic
11	4-018158-00	Lever clamp, large

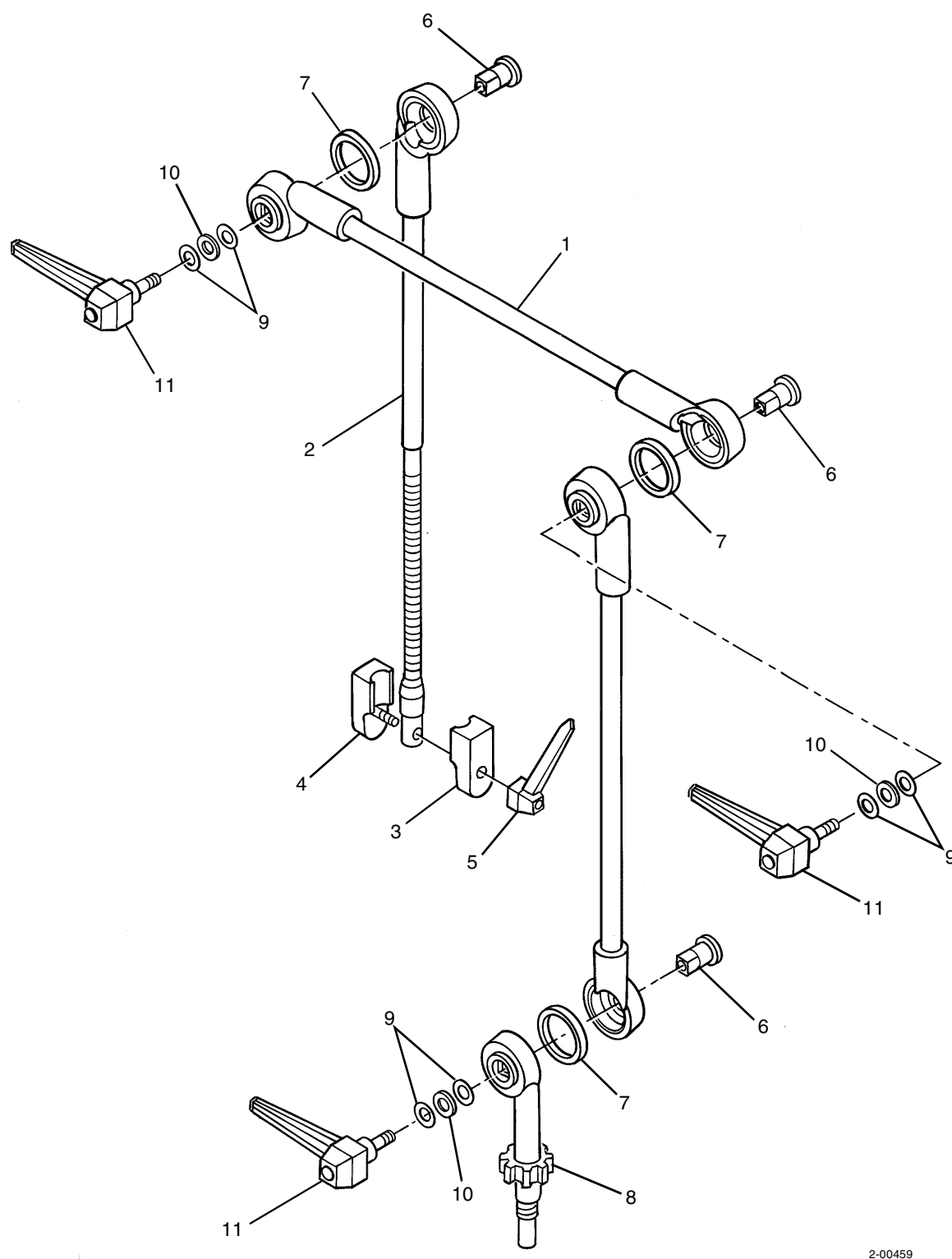
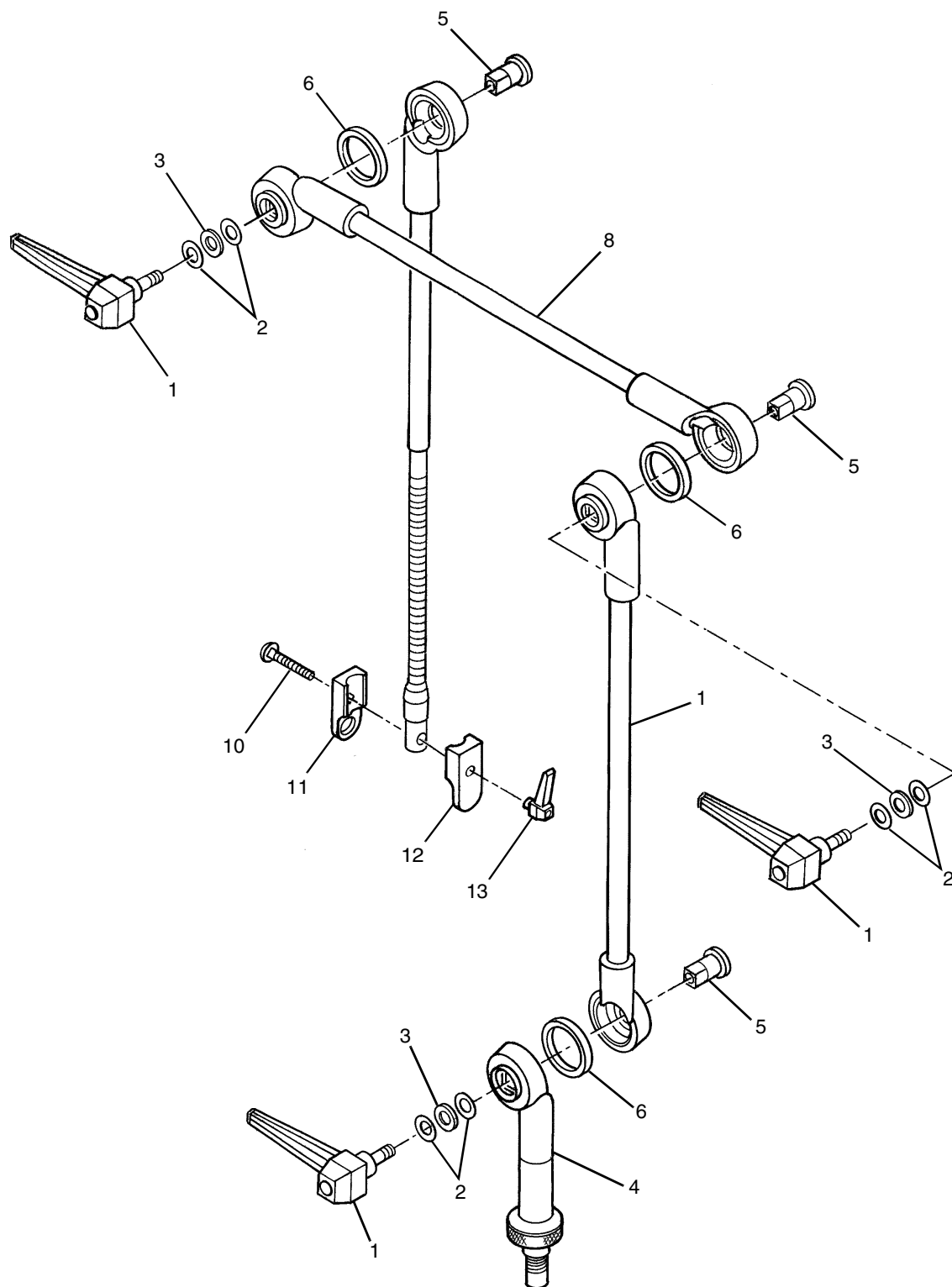
**Figure B-4. Earlier Flex Arm Assembly**

Table B-4: Later Flex Arm Assembly Parts List

Item Number (Figure B-5)	Part Number	Description
--	4-032006-00	Flex arm assembly (later version)
1	4-032017-00	Handle, button-head, large
2	4-032018-00	Washer, Belleville
3	4-032019-00	Washer, Delrin
4	4-021246-00	Base assembly
5	4-032010-00	Nut, mushroom
6	4-032011-00	Ring, friction
7	4-021245-00	Shaft with pivot, 13.55 inches long
8	4-021244-00	Shaft with pivot, 15.0 inches long
9	4-021247-00	Shaft, rotating
10	4-032025-00	Bolt, carriage
11	4-032021-00	Clamp, left
12	4-032022-00	Clamp, right
13	4-032023-00	Handle, button-head, small



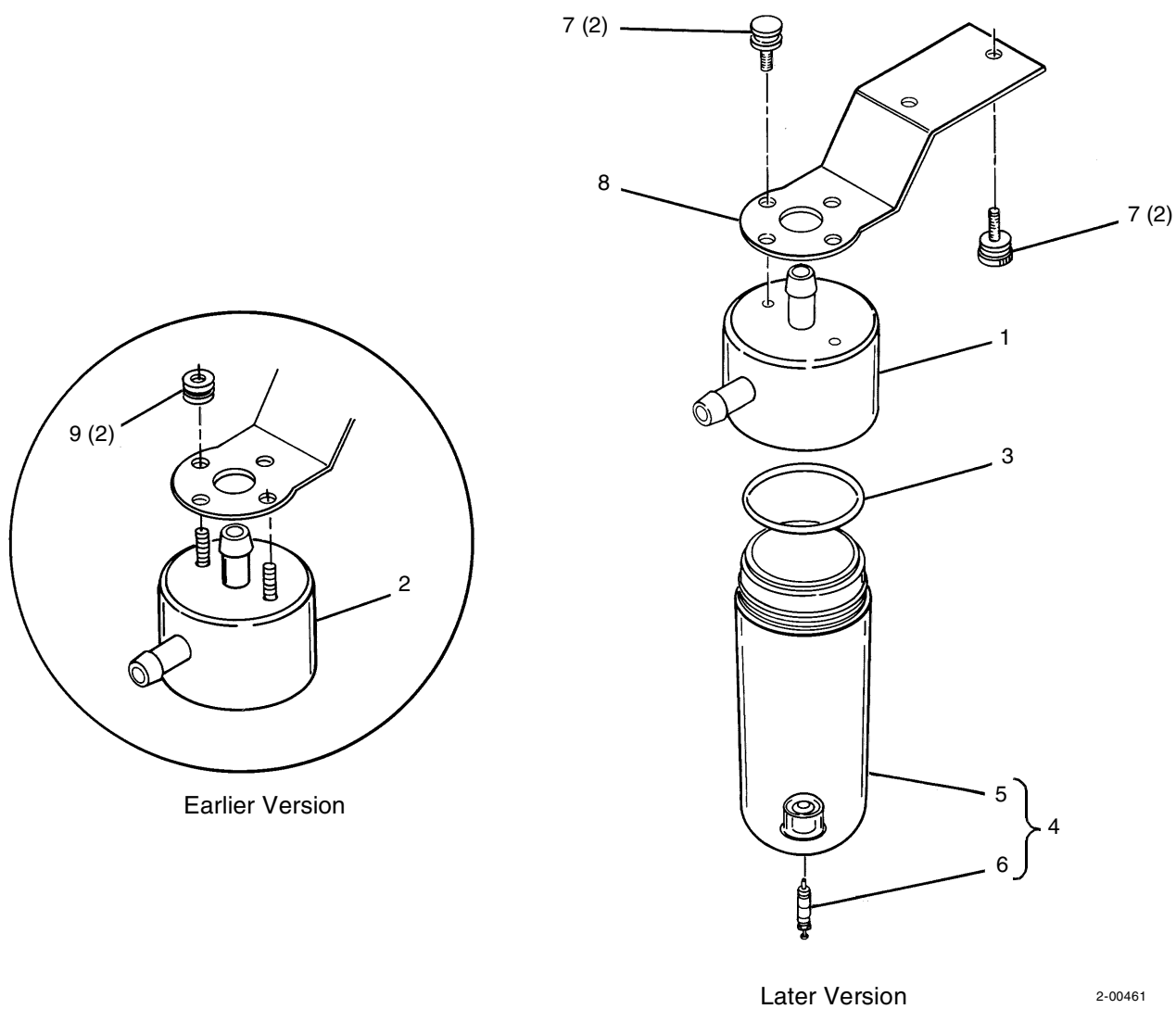
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Figure B-5. Later Flex Arm Assembly

B.4 Patient Pressure Water Trap Assembly

Table B-5: Patient Pressure Water Trap Assembly Parts List

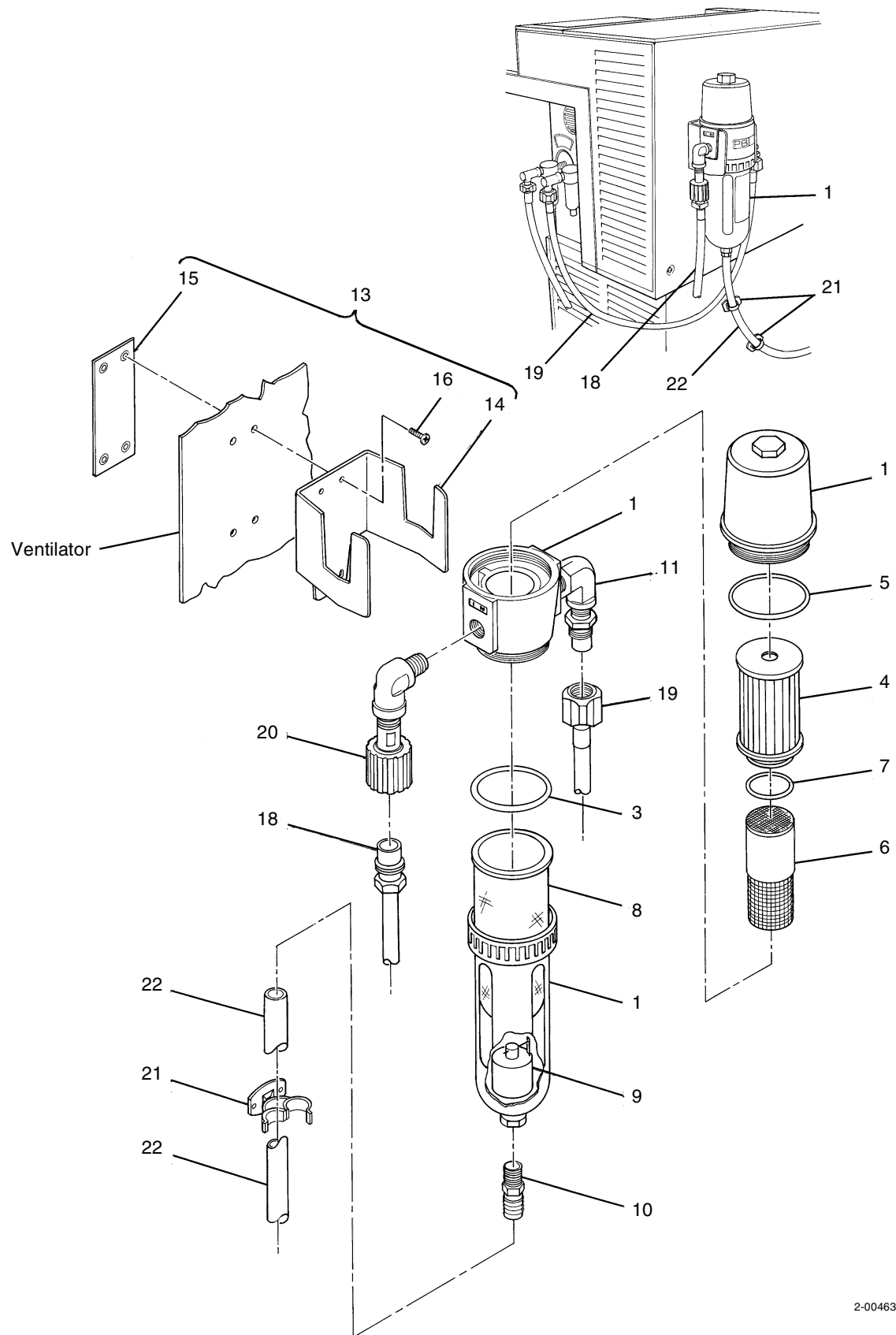
Item Number (Figure B-6)	Part Number	Description
--	4-019415-00	Water trap assembly, patient pressure (later version)
	--	Water trap assembly, patient pressure (earlier version). (Not stocked. Order a patient pressure water trap assembly (P/N 4-019415-00).)
1	4-019408-00	Body/connector assembly (later version)
2	--	Body/connector assembly (earlier version). (Not stocked. Order a body/connector assembly (item 1) and two screws (item 7).)
3	4-006878-00	O-ring, 8543, 1-1/8 ID, 3/32 wide
4	4-007981-00	Bowl assembly, filter, miniature
5	--	Bowl, filter, miniature (Not stocked. Order a miniature filter bowl assembly (item 4).)
6	4-020283-00	Valve, filter drain
7	4-006503-00	Screw, thumb, 8-32, NI PL
8	4-019414-00	Bracket, water trap
9	4-005405-00	Nut, thumb, 8-32, brass, CR PL (earlier version)

**Figure B-6. Patient Pressure Water Trap Assembly**

B.5 Wall Air Water Trap Assembly

Table B-6: Wall Air Water Trap Assembly Parts List

Item Number (Figure B-7)	Part Number	Description
1	4-019667-00	Wall Air Water Trap assembly
2	4-020769-00	Kit, Wall Air Water Trap service (Not shown.)
3	--	O-ring (Not stocked. Order item 2.)
4	--	Filter, corrugated paper (part of Wall Air Water Trap service Kit)
5	--	O-ring (Not stocked. Order item 2.)
6	--	Filter, separation (Not stocked. Order item 2.)
7	--	O-ring (Not stocked. Order item 2.)
8	4-020776-00	Vial, collector
9	4-020749-00	Float, drain
10	4-019991-00	Connector, barb, 1/4 THD, nylon
11	4-018074-00	Valve, one-way/elbow
12	4-018015-00	Kit, Wall Air Water Trap bracket, with fittings and hoses (Not shown.)
13	4-018799-00	Kit, Wall Air Water Trap bracket
14	--	Bracket, water trap
15	--	Backplate
16	4-002975-00	Screw, truss, 10-32 x 1/2, ZC PL
17	4-007660-00	Nut, HEX, 10-32, ZC PL, self-locking (Not shown.). (Used on a universal column clamp only.)
18	4-018793-00	Hose assembly, high-pressure, DISS air male x female, 10 ft (3.05 m)
19	4-018794-00	Hose assembly, high-pressure, DISS air female x female, 27 in. (0.69 m)
20	4-018795-00	Nipple, elbow assembly, inlet fitting
21	4-018797-00	Clip, hose, dump tube, self-adhesive
22	4-008588-00	Tube, extruded, 3/8 ID x 5/8 OD, 28 in. (0.71 m)

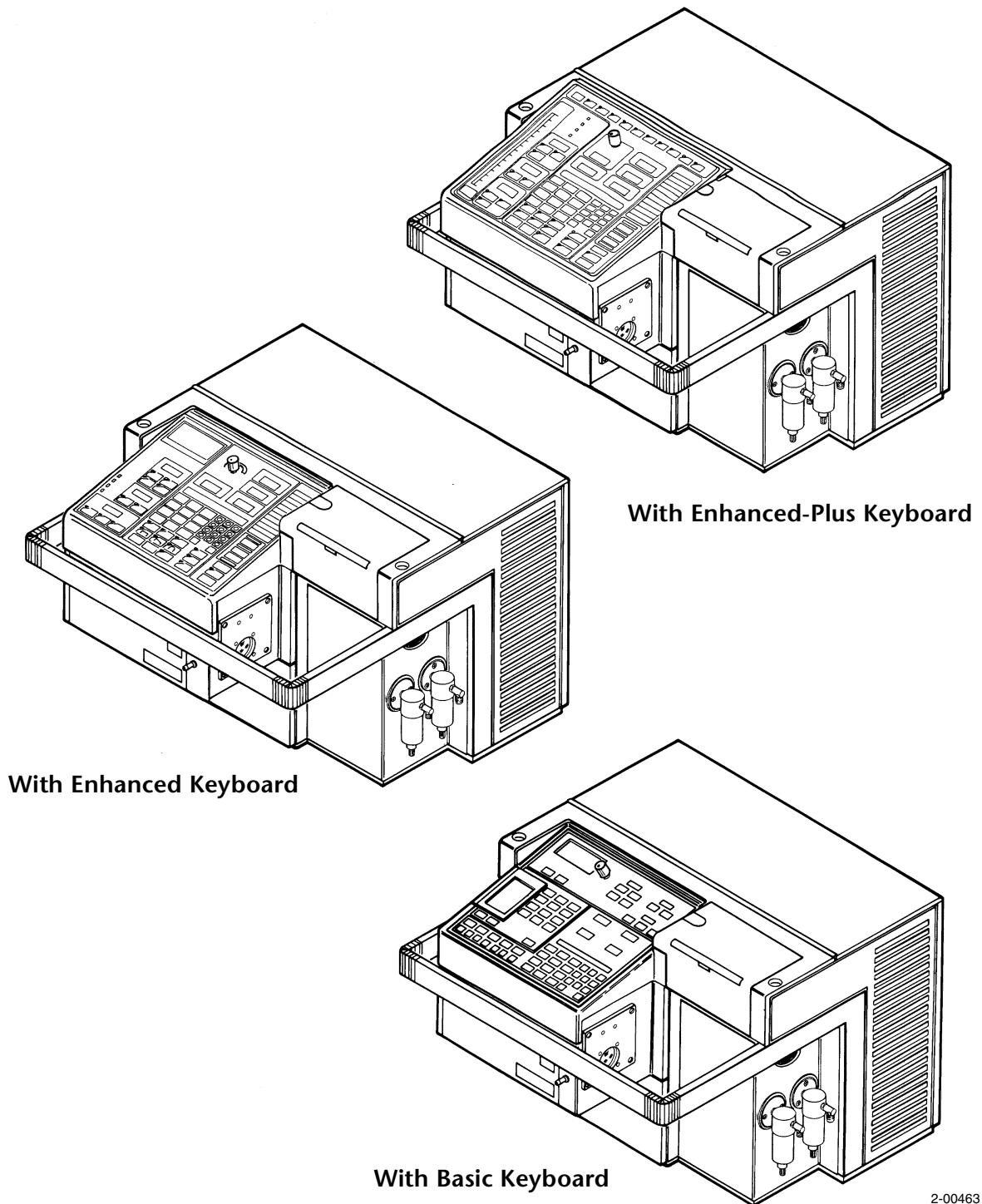


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Figure B-7. Wall Air Water Trap Assembly

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Ventilator Subassemblies



2-00463

Figure C-1. Ventilator Assemblies, Overview

C.1 100/115 V and Earlier 220/240 V Ventilator

Table C-1: 100/115 V and Earlier 220/240 V Ventilator Assembly Parts List

Item Number (Figure C-2)	Part Number	Description
--	--	Ventilator assembly models, 7200 Series Ventilatory System (Contact Puritan Bennett for replacement of ventilator assemblies listed below, order individual parts (items 1 through 64), or refer to referenced ventilator subassemblies, as applicable. See also Section A for kits and ordering information.)
--	--	Model 7200ae Ventilator, 100 V 50 Hz, Japanese,
--	--	Model 7200ae Ventilator, 100 V 60 Hz, Japanese
--	--	Model 7200ae Ventilator, 115 V 60 Hz, English
--	--	Model 7200ae Ventilator, 115 V 60 Hz, French-Canadian
--	--	Model 7200ae Ventilator, 115 V 60 Hz, Spanish
--	--	Model 7200spe Ventilator, 100 V 50 Hz, Japanese
--	--	Model 7200spe Ventilator, 100 V 60 Hz, Japanese
--	--	Model 7200spe Ventilator, 115 V 60 Hz, English
--	--	Model 7200spe Ventilator, 115 V 60 Hz, French-Canadian
--	--	Model 7200spe Ventilator, 115 V 60 Hz, Spanish
--	--	Model 7200e Ventilator, 100 V 50 Hz, Japanese
--	--	Model 7200e Ventilator, 100 V 60 Hz, Japanese
--	--	Model 7200e Ventilator, 115 V 60 Hz, English
--	--	Model 7200e Ventilator, 115 V 60 Hz, French-Canadian
--	--	Model 7200e Ventilator, 115 V 60 Hz, Spanish
--	--	Model 7200a Ventilator, 100 V 50 Hz, Japanese (Not stocked.)
--	--	Model 7200a Ventilator, 100 V 60 Hz, Japanese (Not stocked.)
--	--	Model 7200a Ventilator, 115 V 60 Hz, English (Not stocked.)
--	--	Model 7200a Ventilator, 115 V 60 Hz, French (Not stocked.)
--	--	Model 7200a Ventilator, 115 V 60 Hz, Spanish (Not stocked.)
--	--	Model 7200a Ventilator, 220 V 50 Hz, English (Not stocked.)
--	--	Model 7200a Ventilator, 220 V 50 Hz, French (Not stocked.)
--	--	Model 7200a Ventilator, 220 V 50 Hz, German (Not stocked.)
--	--	Model 7200a Ventilator, 220 V 50 Hz, Spanish (Not stocked.)
--	--	Model 7200a Ventilator, 240 V 50 Hz, English (Not stocked.)
--	--	Model 7200sp Ventilator, 115 V 60 Hz, English (Not stocked.)
--	--	Model 7200sp Ventilator, 115 V 60 Hz, French-Canadian (Not stocked.)
--	--	Model 7200spi Ventilator, 100 V 50 Hz, Japanese (Not stocked.)
--	--	Model 7200spi Ventilator, 100 V 60 Hz, Japanese (Not stocked.)

Table C-1: 100/115 V and Earlier 220/240 V Ventilator Assembly Parts List (continued)

Item Number (Figure C-2)	Part Number	Description
--	--	Model 7200spi Ventilator, 115 V 60 Hz, Spanish (Not stocked.)
1	4-019535-00	Sensor, flow, air with EPROM [Q2/T2] (Refer to Section D.4 for further detail.)
2	4-019536-00	Sensor, flow, oxygen with EPROM [Q1/T1] (Refer to Section D.4 for further detail.)
3	4-019367-00	Insulation, pneumatic compartment
4	4-020741-00	Insulation, pneumatic compartment
5	--	(Not applicable.)
6	4-007737-00	Screw, PAN, 4-40 x 5/16, ZC PL, Long-Lok
7	4-019242-00	Harness assembly, humidifier outlet
8	4-018047-00	Receptacle, ac, humidifier
9	4-018223-00	Harness assembly, exhalation compartment
10	4-018121-00	Cover, socket
11	4-011241-00	Gasket, humidifier mounting plate
12	4-019188-00	Plate, humidifier mounting
13	4-002573-00	Screw, PAN, 10-32 x 1/2, Long-Lok
14	4-020138-00	Label, WARNING, Cascade, 115 V, English (100 V Japanese configurations)
	4-020030-00	Label, WARNING, Cascade, 115 V, English (115 V English and French configurations)
	4-020266-00	Label, WARNING, Cascade, 115 V, Spanish
	4-020217-00	Label, WARNING, Cascade, 220 V, English
	4-020126-00	Label, WARNING, Cascade, 220 V, French
	4-020125-00	Label, WARNING, Cascade, 220 V, German
	4-020127-00	Label, WARNING, Cascade, 220 V, Spanish
	4-020060-00	Label, WARNING, Cascade, 240 V, English
15	4-019248-00	Plug, button (internal exhalation valve configurations)
16	4-019406-00	Connector, patient pressure (external exhalation valve configurations)
17	4-011517-00	Connector, exhalation valve (external exhalation valve configurations)
18	4-002068-00	Connector, nebulizer
19	4-019234-00	Cable assembly, 50-wire ribbon, display, basic console
	4-012440-00	Cable assembly, 50-wire ribbon, display, enhanced console (later console configurations with separable cables only)
	4-032001-00	Cable assembly, 50-wire ribbon, display, Enhanced-Plus console (80188-based units)
20	4-019235-00	Cable assembly, 26-wire ribbon, keyboard, basic console
	4-012439-00	Cable assembly, 26-wire ribbon, keyboard, enhanced console (later console configurations with separable cables only)
	4-032000-00	Cable assembly, 26-wire ribbon, keyboard, Enhanced-Plus console (80188-based units)

Table C-1: 100/115 V and Earlier 220/240 V Ventilator Assembly Parts List (continued)

Item Number (Figure C-2)	Part Number	Description
21	4-023398-00	Bumper-foot, styrene, black (stand-alone ventilator)
22	4-000697-00	Screw, PAN, 1/4-20 x 1/2, ZC PL (stand-alone ventilator)
23	4-021526-00	Battery kit (Includes two batteries and return mailer)
24	4-019545-00	Liner, battery
25	Not available	Bracket, cord
26	4-019377-00	Seal, console, cabinet (Also part of ventilator appearance kit (Section A.6).
27	4-019748-00	Panel, top cabinet (Also part of ventilator appearance kit (Section A.6).
28	4-010998-00	Record, E/C (equipment control)
29	4-018319-00	Cover, top
30	4-020372-00	Pad, card cage
31	4-002825-00	Stud, ball, 0.250 HEX, 6-32
32	4-009101-00	Screw, PAN, 8-32 x 3/8, ZC PL, Long-Lok
33	4-002771-00	Washer, EX LK, #8, ZC PL
34	4-002806-00	Screw, PAN, 10-32 x 3/8, ZC PL, Long-Lok
35	4-001784-00	Washer, EX LK, #10, ZC PL
36	4-011216-00	Screw, flat, 8-32 x 3/4, black oxide
37	4-000362-00	Screw, PAN, 10-32 x 5/16, ZC PL
38	4-001056-00	Washer, EX LK, #6, ZC PL
39	4-001422-00	Screw, PAN, 10-32 x 3/8, ZC PL
40	4-019129-00	Knob, PEEP control
41	4-002420-00	Nut, HEX, 3/8-32, panel, ZC PL
42	4-007161-00	Nut, HEX, 3/8-24, panel, ZC PL
43	4-000003-00	Cable tie, small
44	4-008132-00	Washer, IN LK, 3/8, ZC PL
45	4-003988-00	Washer, flat, 3/8, SST
46	4-019595-00	Plate, cover (stand-alone ventilator)
47	4-040106-00	Adhesive, silicone, RTV-732, 3 oz
48	--	Configuration tag (Included with item 50)
49	--	Foam tape, double-coated (Included with item 50)
50	4-026215-00	Rail tag, Option 10 (Pressure Support), English (basic/enhanced console)
	4-026225-00	Rail tag, Option 10 (Pressure Support), French (basic/enhanced console)
	4-026235-00	Rail tag, Option 10 (Pressure Support), German (basic/enhanced console)
	4-026301-00	Rail tag, Option 10 (Pressure Support), Italian (basic/enhanced console)

Table C-1: 100/115 V and Earlier 220/240 V Ventilator Assembly Parts List (continued)

Item Number (Figure C-2)	Part Number	Description
50	4-026265-00	Rail tag, Option 10 (Pressure Support), Japanese (basic/enhanced console)
	4-026245-00	Rail tag, Option 10 (Pressure Support), Spanish (basic/enhanced console)
	4-025152-00	Rail tag, Option 20 (DCI), English (English, German, Italian, Japanese, and Spanish configurations) (basic/enhanced console)
	4-025315-00	Rail tag, Option 20 (DCI), French (ICN) (basic/enhanced console)
	4-025160-00	Rail tag, Option 20 (DCI 2.0), English (English, German, Italian, Japanese, and Spanish configurations) (basic/enhanced console)
	4-025260-00	Rail tag, Option 20 (DCI 2.0), French (ICN) (basic/enhanced console)
	4-025153-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), English (basic/enhanced console)
	4-025253-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), French (basic/enhanced console)
	4-025353-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), German (basic/enhanced console)
	4-026303-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), Italian (basic/enhanced console)
	4-025453-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), Spanish (basic/enhanced console)
	4-025155-00	Rail tag, Option 50 (Flow-by), English (English, German, and Italian configurations) (basic/enhanced console)
	4-026215-00	Rail tag, Option 10 (Pressure Support), English (basic/enhanced console)
	4-026225-00	Rail tag, Option 10 (Pressure Support), French (basic/enhanced console)
	4-026235-00	Rail tag, Option 10 (Pressure Support), German (basic/enhanced console)
	4-026301-00	Rail tag, Option 10 (Pressure Support), Italian (basic/enhanced console)
	4-026265-00	Rail tag, Option 10 (Pressure Support), Japanese (basic/enhanced console)
	4-026245-00	Rail tag, Option 10 (Pressure Support), Spanish (basic/enhanced console)
	4-025152-00	Rail tag, Option 20 (DCI), English (English, German, Italian, Japanese, and Spanish configurations) (basic/enhanced console)
	4-025315-00	Rail tag, Option 20 (DCI), French (ICN) (basic/enhanced console)
	4-025160-00	Rail tag, Option 20 (DCI 2.0), English (English, German, Italian, Japanese, and Spanish configurations) (basic/enhanced console)
	4-025260-00	Rail tag, Option 20 (DCI 2.0), French (ICN) (basic/enhanced console)
	4-025153-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), English (basic/enhanced console)
	4-025253-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), French (basic/enhanced console)
	4-025353-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), German (basic/enhanced console)
	4-026303-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), Italian (basic/enhanced console)

Table C-1: 100/115 V and Earlier 220/240 V Ventilator Assembly Parts List (continued)

Item Number (Figure C-2)	Part Number	Description
	4-025453-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), Spanish (basic/enhanced console)
	4-025155-00	Rail tag, Option 50 (Flow-by), English (English, German, and Italian configurations) (basic/enhanced console)
	4-025255-00	Rail tag, Option 50 (Flow-by), French (basic/enhanced console)
	4-026269-00	Rail tag, Option 50 (Flow-by), Japanese (basic/enhanced console)
	4-025455-00	Rail tag, Option 50 (Flow-by), Spanish (basic/enhanced console)
	4-025314-00	Rail tag, Option 50 (Flow-by 2.0), English (English, German, and Italian configurations) (basic/enhanced console)
	4-025505-00	Rail tag, Option 50 (Flow-by 2.0), French (basic/enhanced console)
	4-025316-00	Rail tag, Option 50 (Flow-by 2.0), Japanese (basic/enhanced console)
	4-025504-00	Rail tag, Option 50 (Flow-by 2.0), Spanish (basic/enhanced console)
	4-025166-00	Rail tag, Option 60 (Graphics), English (basic/enhanced console)
	4-025256-00	Rail tag, Option 60 (Graphics), French (basic/enhanced console)
	4-025947-00	Rail tag, Option 60 (Graphics), German (basic/enhanced console)
	4-026306-00	Rail tag, Option 60 (Graphics), Italian (basic/enhanced console)
	4-026270-00	Rail tag, Option 60 (Graphics), Japanese (basic/enhanced console)
	4-025456-00	Rail tag, Option 60 (Graphics), Spanish (basic/enhanced console)
	4-025161-00	Rail tag, Option 60 (Graphics 2.0), English (basic/enhanced console)
	4-025261-00	Rail tag, Option 60 (Graphics 2.0), French (basic/enhanced console)
	4-021429-00	Rail tag, Option 60 (Graphics 2.0), German (basic/enhanced console)
	4-025461-00	Rail tag, Option 60 (Graphics 2.0), Italian/Spanish (basic/enhanced console)
	4-026275-00	Rail tag, Option 60 (Graphics 2.0), Japanese (basic/enhanced console)
	4-025158-00	Rail tag, Option 80 (Pressure Control Ventilation), English (basic/enhanced console)
	4-025258-00	Rail tag, Option 80 (Pressure Control Ventilation), French (basic/enhanced console)
	4-025948-00	Rail tag, Option 80 (Pressure Control Ventilation), German (basic/enhanced console)
	4-026308-00	Rail tag, Option 80 (Pressure Control Ventilation), Italian (basic/enhanced console)
	4-026272-00	Rail tag, Option 80 (Pressure Control Ventilation), Japanese (basic/enhanced console)
	4-025458-00	Rail tag, Option 80 (Pressure Control Ventilation), Spanish (basic/enhanced console)
	4-025159-00	Rail tag, Option 90 (Pulse Oximetry), English (basic/enhanced console)
	4-025259-00	Rail tag, Option 90 (Pulse Oximetry), French (basic/enhanced console)
	4-025359-00	Rail tag, Option 90 (Pulse Oximetry), German (basic/enhanced console)
	4-026309-00	Rail tag, Option 90 (Pulse Oximetry), Italian (basic/enhanced console)
	4-026273-00	Rail tag, Option 90 (Pulse Oximetry), Japanese (basic/enhanced console)
	4-025459-00	Rail tag, Option 90 (Pulse Oximetry), Spanish (basic/enhanced console)

Table C-1: 100/115 V and Earlier 220/240 V Ventilator Assembly Parts List (continued)

Item Number (Figure C-2)	Part Number	Description
51	4-013630-00	Rail tag, Auto-PEEP (Function 4), English (English, German, Italian, and Spanish configurations) (basic/enhanced console)
	4-013631-00	Rail tag, Auto-PEEP (Function 4), French (basic/enhanced console)
	4-013632-00	Rail tag, Auto-PEEP (Function 4), Japanese (basic/enhanced console)
	4-022131-00	Rail tag, spe
	4-022132-00	Rail tag, spe
	4-022284-00	Rail tag, spe
	4-026592-00	Kit, ventilator top panel, modified (for mounting 7250 Metabolic Monitor). (Includes five language variation labels (item 61). Discard four non-applicable labels.)
	4-019377-00	Seal, console, cabinet
	4-026523-00	Rail, right-hand
	4-026524-00	Rail, left-hand
55	4-026845-00	Screw, PAN, 10-32 x 3/4, SST
56	4-026843-00	Screw, PAN, 6-32 x 3/4, SST
57	4-002906-00	Nut, HEX, 6-32, SST
58	4-006057-00	Washer, flat, #6, SST
59	4-026586-00	Spacer bar
60	4-001118-00	Screw, flat, 10-32 x 3/8, ZC PL
61	4-022502-00	Label, 7-connector, English
	4-022318-00	Label, 7-connector, French
	4-020678-00	Label, 7-connector, French-Canadian
	4-020679-00	Label, 7-connector, German
	4-022068-00	Label, 7-connector, Italian
	4-022505-00	Label, 7-connector, Spanish
62	4-018319-00	Cover, top
63	4-020372-00	Pad, card cage
64	--	7250 Metabolic Monitor

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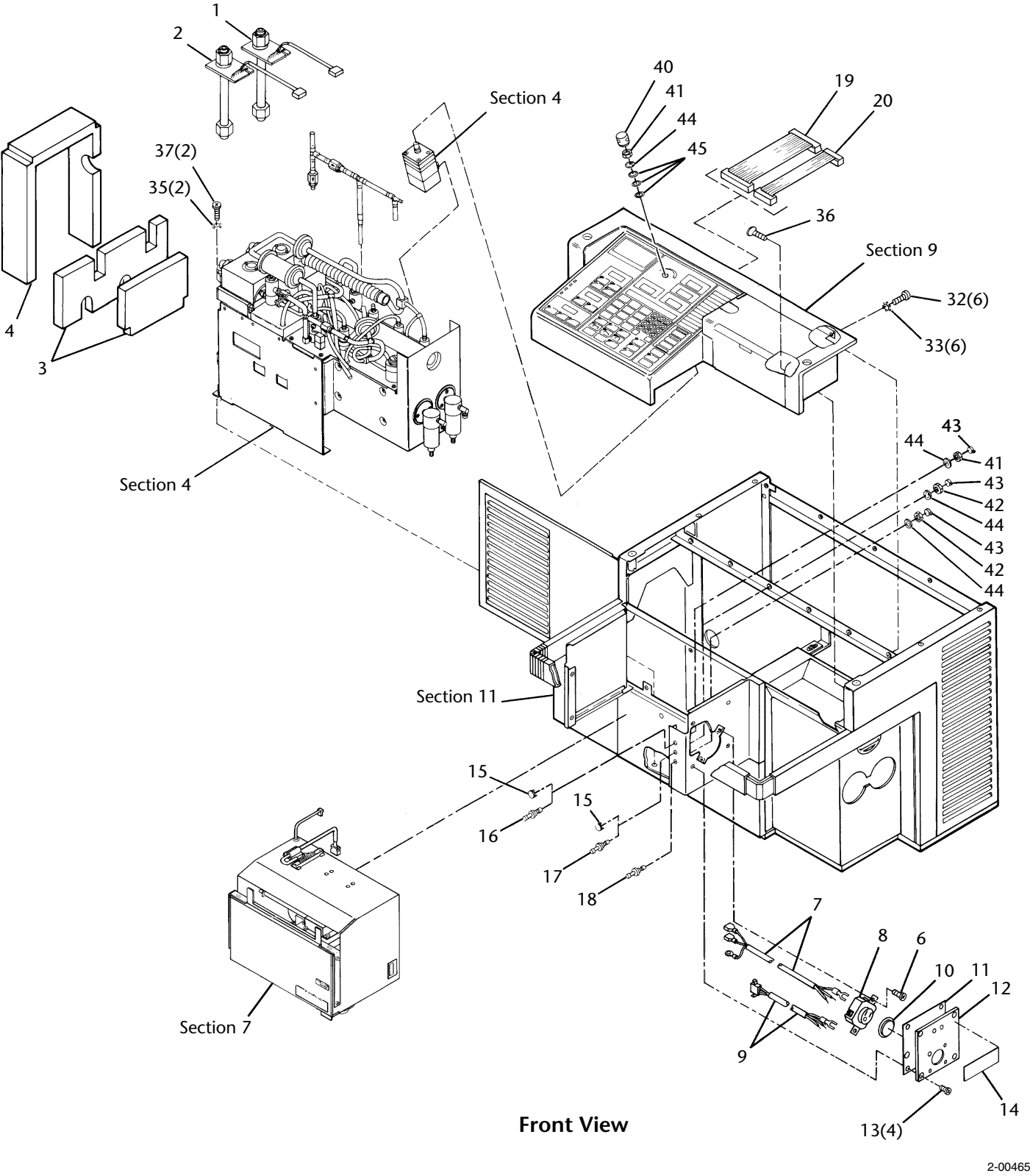
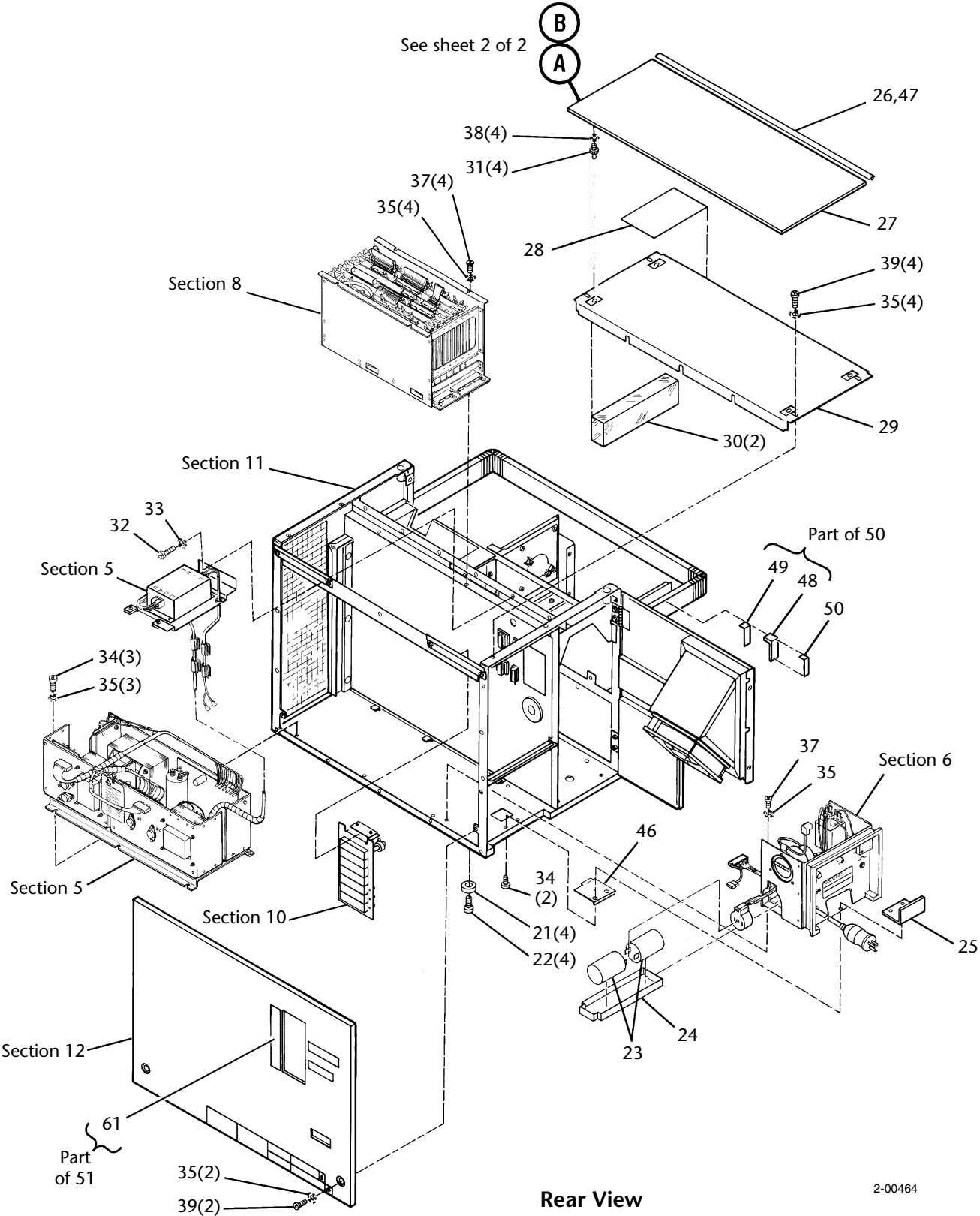


Figure C-2. 100/115 V and Earlier 220/240 V Ventilator (Sheet 1 of 2)

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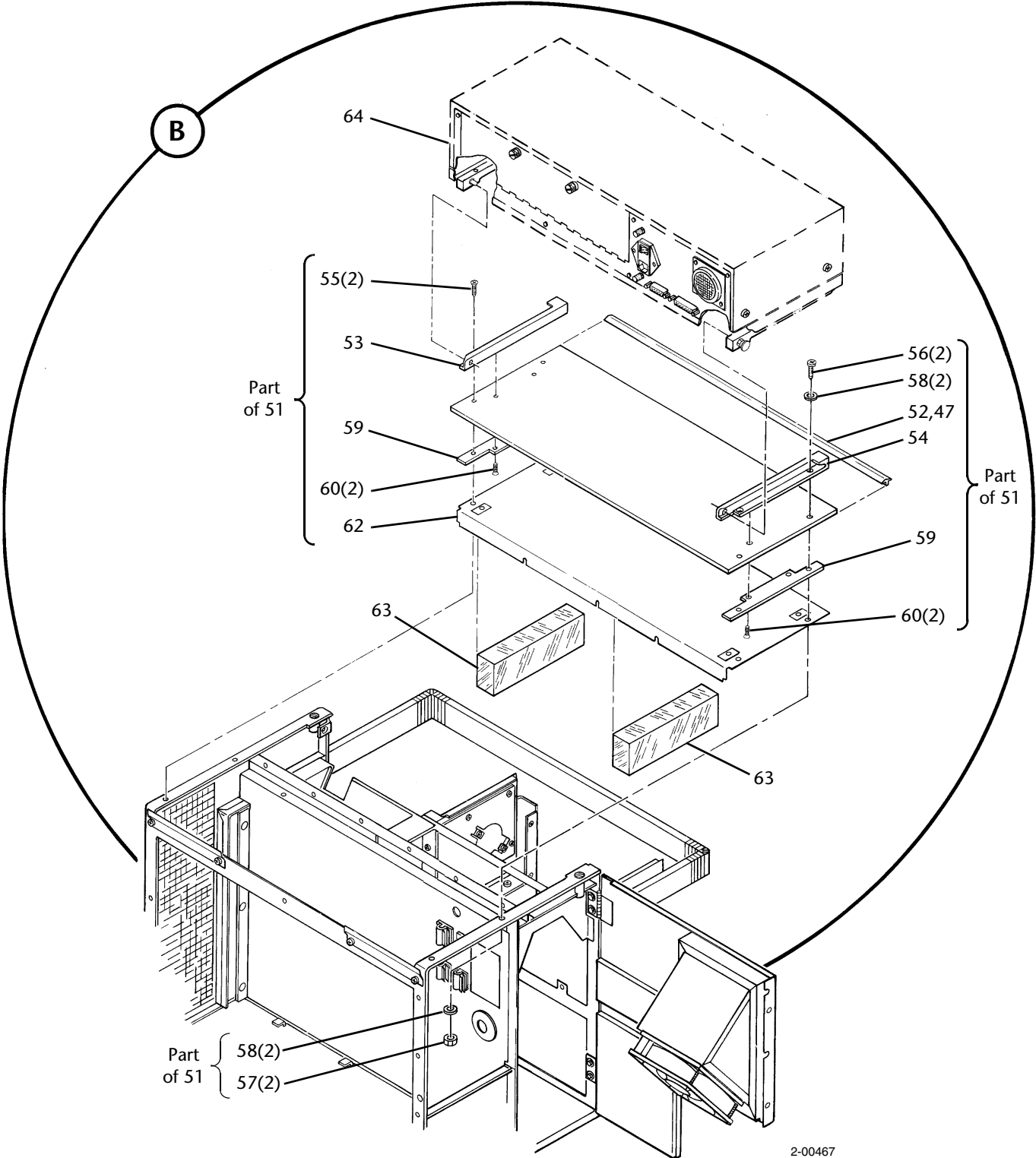
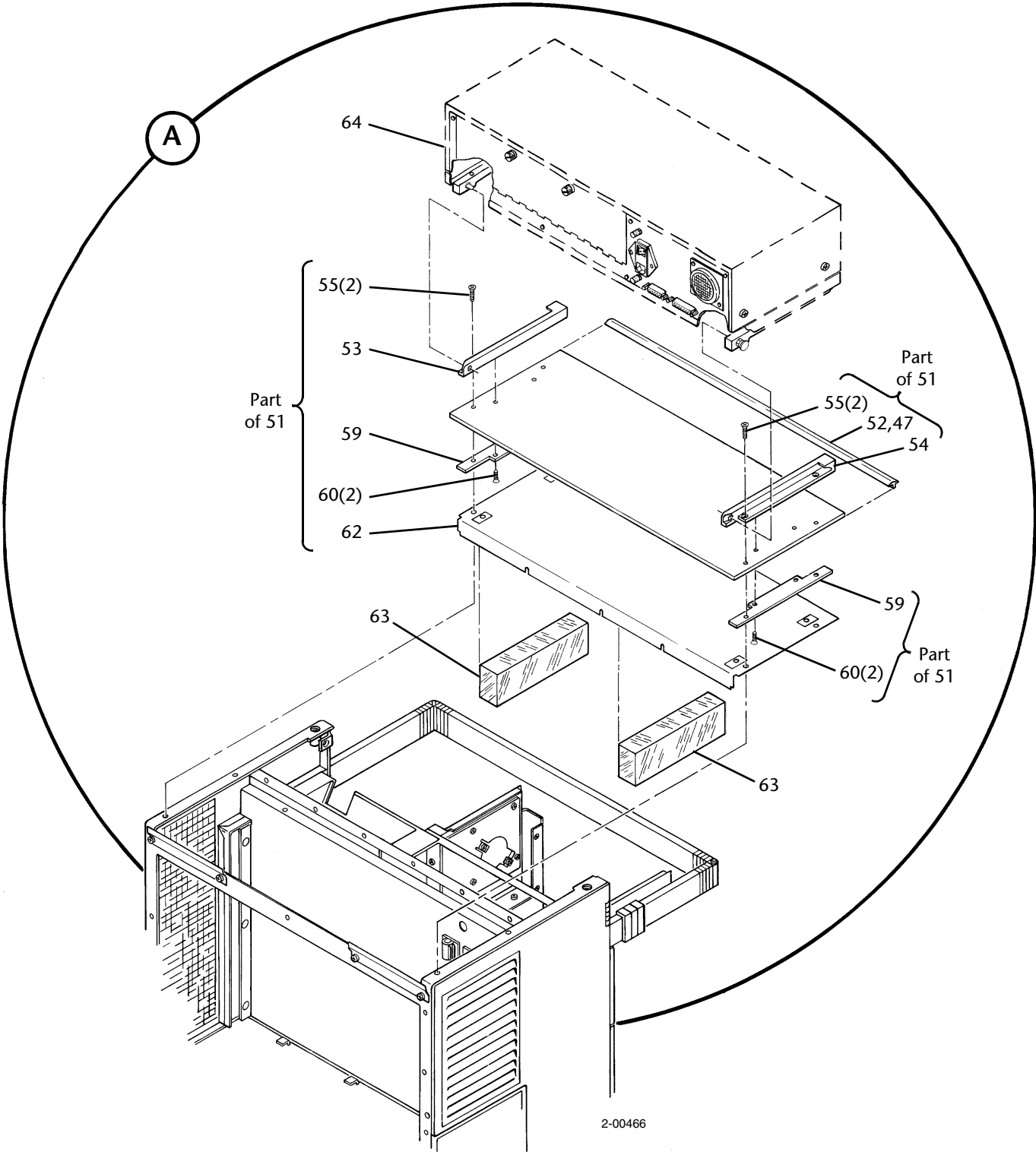


Figure C-2. 100/115 V and Earlier 220/240 V Ventilator (Sheet 2 of 2)

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C.2 220/240 V EMI Ventilator

Table C-2: 220/240 V EMI Ventilator Assembly Parts List

Item Number (Figure C-3)	Part Number	Description
1	4-019535-00	Sensor, flow, air, with EPROM [Q2/T2] (Refer to Section D.4 for further detail.)
2	4-019536-00	Sensor, flow, oxygen, with EPROM [Q1/T1] (Refer to Section D.4 for further detail.)
3	4-019367-00	Insulation, pneumatic compartment
4	4-020741-00	Insulation, pneumatic compartment
5	--	(Not applicable.)
6	4-007737-00	Screw, PAN, 4-40 x 5/16, ZC PL, Long-Lok
7	4-019242-00	Harness assembly, humidifier outlet
8	4-018047-00	Receptacle, ac, humidifier
9	4-018223-00	Harness assembly, exhalation compartment
10	4-018121-00	Cover, socket
11	4-011241-00	Gasket, humidifier mounting plate
12	4-019188-00	Plate, humidifier mounting
13	4-002573-00	Screw, PAN, 10-32 x 1/2, Long-Lok
14	4-020217-00	Label, WARNING, Cascade, 220 V, English
	4-020126-00	Label, WARNING, Cascade, 220 V, French
	4-020125-00	Label, WARNING, Cascade, 220 V, German
	4-022031-00	Label, WARNING, Cascade, 220 V, Italian
	4-020127-00	Label, WARNING, Cascade, 220 V, Spanish
	4-020060-00	Label, WARNING, Cascade, 240 V, English
15	4-019248-00	Plug, button
16	4-019235-00	Cable assembly, 26-wire ribbon, keyboard, basic console (80188-based units)
	4-012439-00	Cable assembly, 26-wire ribbon, keyboard, enhanced console (80188-based units) (later console configurations with separable cables only)
	4-032000-00	Cable assembly, 26-wire ribbon, keyboard, Enhanced-Plus console (80188-based units)
17	4-019234-00	Cable assembly, 50-wire ribbon, display, basic console (80188-based units)
	4-012440-00	Cable assembly, 50-wire ribbon, display, enhanced console (80188-based units) (later console configurations with separable cables only)
	4-032001-00	Cable assembly, 50-wire ribbon, display, Enhanced-Plus console (80188-based units)
18	4-002068-00	Connector, nebulizer
19	4-018322-00	Cable assembly, 50-wire ribbon, display, EMI, 8088-based, basic console (8088-based units). (Includes item 20A.)
20	4-018321-00	Cable assembly, 26-wire ribbon, keyboard, EMI, 8088-based, basic console (Includes item 20A.)

Table C-2: 220/240 V EMI Ventilator Assembly Parts List (continued)

Item Number (Figure C-3)	Part Number	Description
20A	4-018332-00	Toroid
21	4-023398-00	Bumper-foot, styrene, black (stand-alone ventilator)
22	4-000697-00	Screw, PAN, 1/4-20 x 1/2, ZC PL (stand-alone ventilator)
23	4-021526-00	Battery kit (Includes two batteries and return mailer)
24	4-019545-00	Liner, battery
25	4-019194-00	Bracket, cord
26	4-019377-00	Seal, console, cabinet (Also part of ventilator appearance kit (Section A.6).
27	4-019748-00	Panel, top cabinet (Also part of ventilator appearance kit (Section A.6).
28	4-010998-00	Record, E/C (equipment control)
29	4-018319-00	Cover, top
30	4-020372-00	Pad, card cage
31	4-002825-00	Stud, ball, 0.250 HEX, 6-32
32	4-009101-00	Screw, PAN, 8-32 x 3/8, ZC PL, Long-Lok
33	4-002771-00	Washer, EX LK, #8, ZC PL
34	4-002806-00	Screw, PAN, 10-32 x 3/8, ZC PL
35	4-001784-00	Washer, EX LK, #10, ZC PL
36	4-011216-00	Screw, flat, 8-32 x 3/4, black oxide
37	4-000362-00	Screw, PAN, 10-32 x 5/16, ZC PL
38	4-001056-00	Washer, EX LK, #6, ZC PL
39	4-001422-00	Screw, PAN, 10-32 x 3/8, ZC PL
40	4-019129-00	Knob, PEEP/CPAP control
41	4-002420-00	Nut, HEX, 3/8-32, panel, ZC PL
42	4-007161-00	Nut, HEX, 3/8-24, panel, ZC PL
43	4-000003-00	Cable tie, small
44	4-008132-00	Washer, IN LK, 3/8, ZC PL
45	4-003988-00	Washer, flat, 3/8, SST
46	4-019595-00	Plate, cover (stand-alone ventilator)
47	4-040106-00	Adhesive, silicone, RTV-732, 3 oz
48	4-001785-00	Washer, IN LK, #6, ZC PL
49	4-000271-00	Nut, HEX, 6-32, radio, ZC PL
50	4-018117-00	Strip, finger contact, single (non-EMI, 220/240 V units only)
51	4-026658-00	Panel, inner back
52	4-001138-00	Washer, IN LK, #8, STL

Table C-2: 220/240 V EMI Ventilator Assembly Parts List (continued)

Item Number (Figure C-3)	Part Number	Description
53	4-001041-00	Screw, PAN, 8-32 x 1/4, ZC PL
55	4-022360-00	Label, battery
56	--	Tag, configuration (Included with item 58.)
57	--	Foam tape, double-coated (Included with item 58.)
58	4-026215-00	Rail tag, Option 10 (Pressure Support), English (basic/enhanced console)
	4-026225-00	Rail tag, Option 10 (Pressure Support), French (basic/enhanced console)
	4-026235-00	Rail tag, Option 10 (Pressure Support), German (basic/enhanced console)
	4-026301-00	Rail tag, Option 10 (Pressure Support), Italian (basic/enhanced console)
	4-026265-00	Rail tag, Option 10 (Pressure Support), Japanese (basic/enhanced console)
	4-026245-00	Rail tag, Option 10 (Pressure Support), Spanish (basic/enhanced console)
	4-025152-00	Rail tag, Option 20 (DCI), English (English, German, Italian, Japanese, and Spanish configurations) (basic/enhanced console)
	4-025315-00	Rail tag, Option 20 (DCI), French (ICN) (basic/enhanced console)
	4-025160-00	Rail tag, Option 20 (DCI 2.0), English (English, German, Italian, Japanese, and Spanish configurations) (basic/enhanced console)
	4-025260-00	Rail tag, Option 20 (DCI 2.0), French (ICN) (basic/enhanced console)
	4-025153-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), English (basic/enhanced console)
	4-025253-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), French (basic/enhanced console)
	4-025353-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), German (basic/enhanced console)
	4-026303-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), Italian (basic/enhanced console)
	4-025453-00	Rail tag, Option 30/40 (Respiratory Mechanics/Monitoring), Spanish (basic/enhanced console)
	4-025155-00	Rail tag, Option 50 (Flow-by), English (English, German, and Italian configurations) (basic/enhanced console)
	4-025255-00	Rail tag, Option 50 (Flow-by), French (basic/enhanced console)
	4-026269-00	Rail tag, Option 50 (Flow-by), Japanese (basic/enhanced console)
	4-025455-00	Rail tag, Option 50 (Flow-by), Spanish (basic/enhanced console)
	4-025314-00	Rail tag, Option 50 (Flow-by 2.0), English (English, German, and Italian configurations) (basic/enhanced console)
	4-025505-00	Rail tag, Option 50 (Flow-by 2.0), French (basic/enhanced console)
	4-025316-00	Rail tag, Option 50 (Flow-by 2.0), Japanese (basic/enhanced console)
	4-025504-00	Rail tag, Option 50 (Flow-by 2.0), Spanish (basic/enhanced console)
	4-025166-00	Rail tag, Option 60 (Graphics), English (basic/enhanced console)

Table C-2: 220/240 V EMI Ventilator Assembly Parts List (continued)

Item Number (Figure C-3)	Part Number	Description
	4-025256-00	Rail tag, Option 60 (Graphics), French (basic/enhanced console)
	4-025947-00	Rail tag, Option 60 (Graphics), German (basic/enhanced console)
	4-026306-00	Rail tag, Option 60 (Graphics), Italian (basic/enhanced console)
	4-026270-00	Rail tag, Option 60 (Graphics), Japanese (basic/enhanced console)
	4-025456-00	Rail tag, Option 60 (Graphics), Spanish (basic/enhanced console)
	4-025161-00	Rail tag, Option 60 (Graphics 2.0), English (basic/enhanced console)
	4-025261-00	Rail tag, Option 60 (Graphics 2.0), French (basic/enhanced console)
	4-021429-00	Rail tag, Option 60 (Graphics 2.0), German (basic/enhanced console)
	4-025461-00	Rail tag, Option 60 (Graphics 2.0), Italian/Spanish (basic/enhanced console)
	4-026275-00	Rail tag, Option 60 (Graphics 2.0), Japanese (basic/enhanced console)
	4-025158-00	Rail tag, Option 80 (Pressure Control Ventilation), English (basic/enhanced console)
	4-025258-00	Rail tag, Option 80 (Pressure Control Ventilation), French (basic/enhanced console)
	4-025948-00	Rail tag, Option 80 (Pressure Control Ventilation), German (basic/enhanced console)
	4-026308-00	Rail tag, Option 80 (Pressure Control Ventilation), Italian (basic/enhanced console)
	4-026272-00	Rail tag, Option 80 (Pressure Control Ventilation), Japanese (basic/enhanced console)
	4-025458-00	Rail tag, Option 80 (Pressure Control Ventilation), Spanish (basic/enhanced console)
	4-025159-00	Rail tag, Option 90 (Pulse Oximetry), English (basic/enhanced console)
	4-025259-00	Rail tag, Option 90 (Pulse Oximetry), French (basic/enhanced console)
	4-025359-00	Rail tag, Option 90 (Pulse Oximetry), German (basic/enhanced console)
	4-026309-00	Rail tag, Option 90 (Pulse Oximetry), Italian (basic/enhanced console)
	4-026273-00	Rail tag, Option 90 (Pulse Oximetry), Japanese (basic/enhanced console)
	4-025459-00	Rail tag, Option 90 (Pulse Oximetry), Spanish (basic/enhanced console)
	4-013630-00	Rail tag, Auto-PEEP (Function 4), English (English, German, Italian, and Spanish configurations) (basic/enhanced console)
	4-013631-00	Rail tag, Auto-PEEP (Function 4), French (basic/enhanced console)
	4-013632-00	Rail tag, Auto-PEEP (Function 4), Japanese (basic/enhanced console)
59	4-026592-00	Kit, ventilator top panel, modified (for mounting the 7250 Metabolic Monitor). (Includes five language variation labels (item 69). Discard four non-applicable labels.)
60	4-019377-00	Seal, console, cabinet
61	4-026523-00	Rail, right-hand
62	4-026524-00	Rail, left-hand
63	4-026845-00	Screw, PAN, 10-32 x 3/4, SST
64	4-026843-00	Screw, PAN, 6-32 x 3/4, SST
65	4-002906-00	Nut, HEX, 6-32, SST

Table C-2: 220/240 V EMI Ventilator Assembly Parts List (continued)

Item Number (Figure C-3)	Part Number	Description
66	4-006057-00	Washer, flat, #6, SST
67	4-026586-00	Spacer bar
68	4-001118-00	Screw, flat, 10-32 x 3/8, ZC PL
69	4-022502-00	Label, 7-connector, English
	4-022318-00	Label, 7-connector, French
	4-020679-00	Label, 7-connector, German
	4-022068-00	Label, 7-connector, Italian
	4-022505-00	Label, 7-connector, Spanish
70	4-018319-00	Cover, top
71	4-020372-00	Pad, card cage
72	4-018112-00	Insulation, PCB cover (units with basic keyboard only)
73	Not available	Cover, PCB, front panel (units with basic keyboard only)
74	--	7250 Metabolic Monitor (Refer to Figure B.3 for further detail.)

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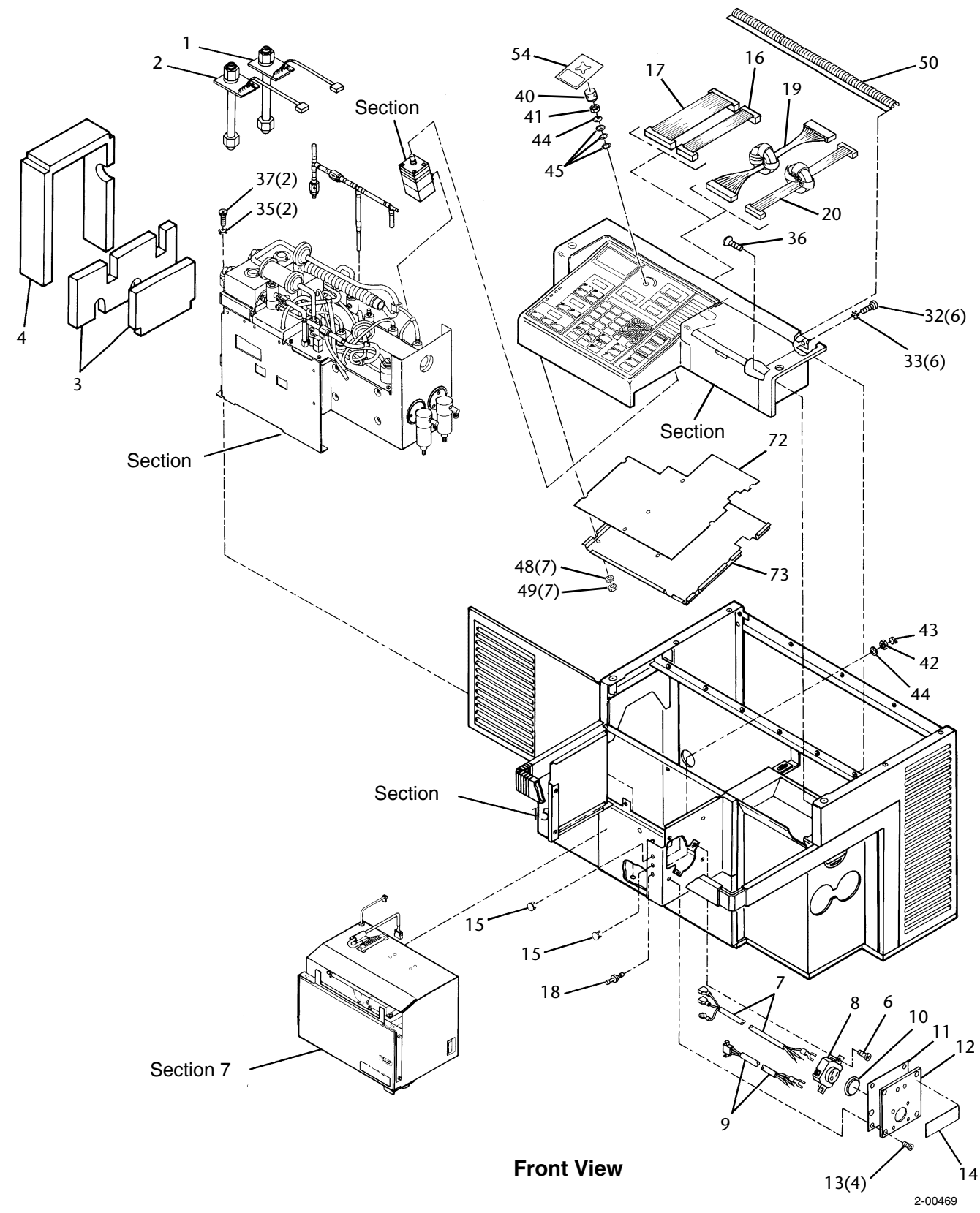
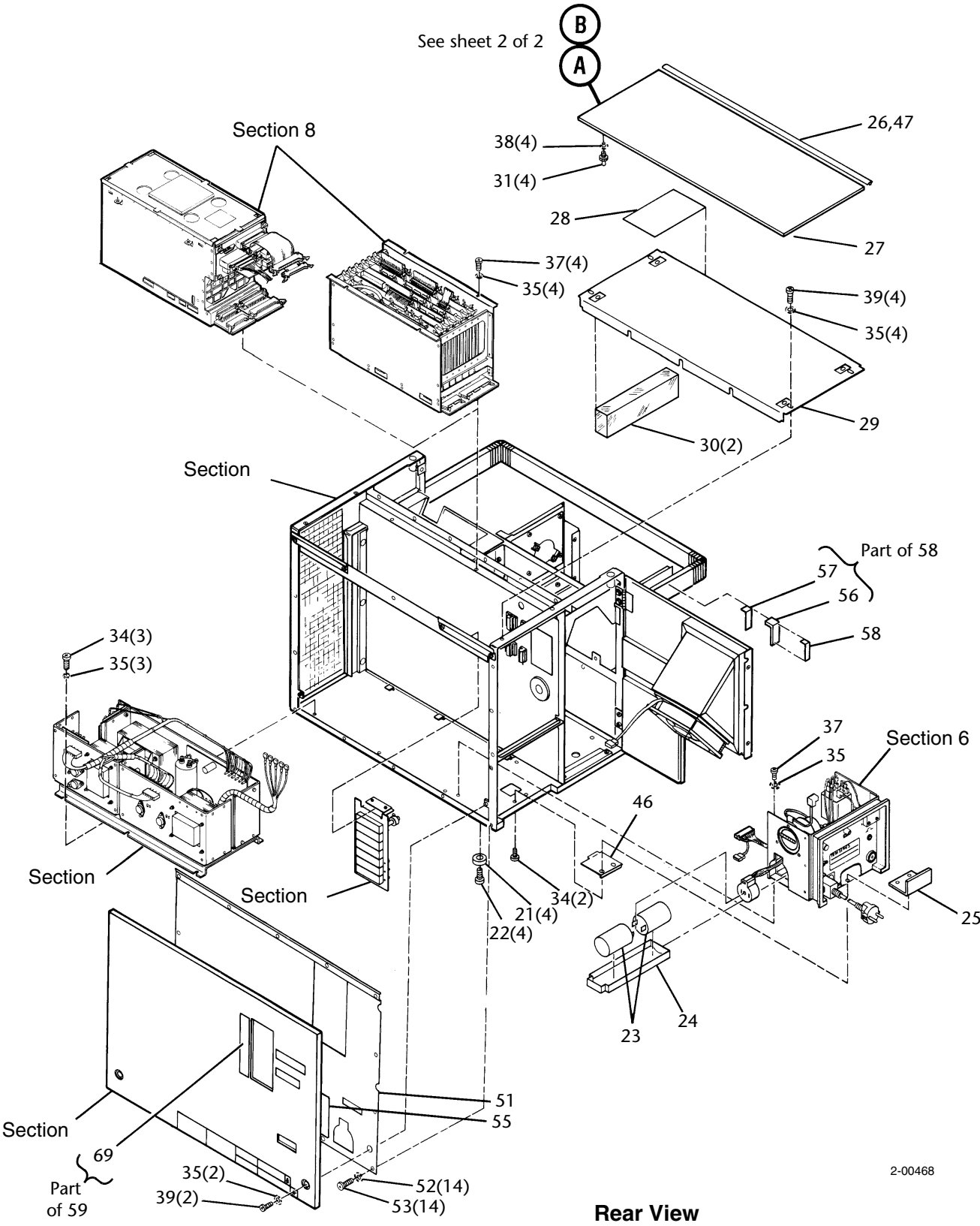


Figure 3-3. 220/240 V EMI Ventilator
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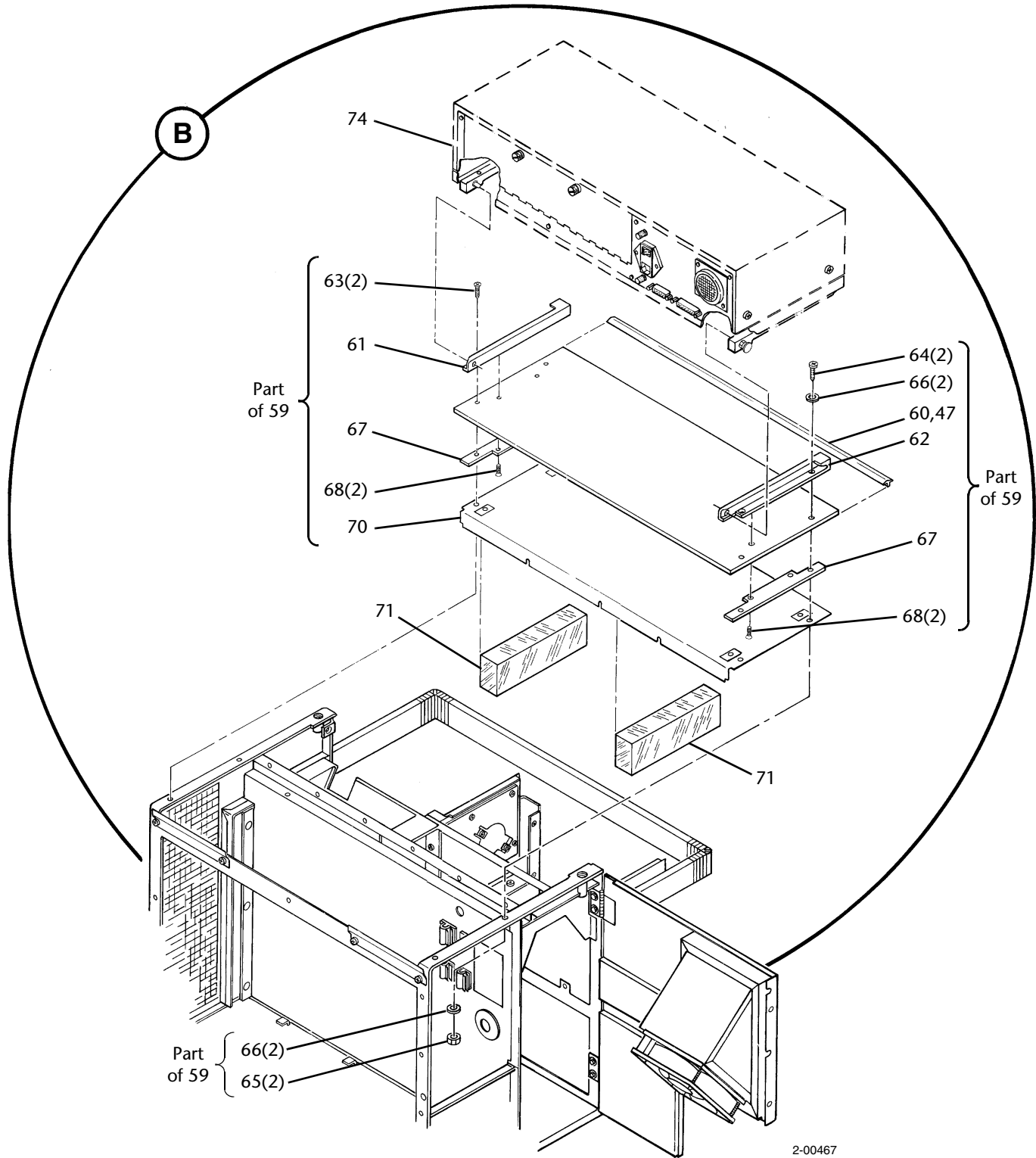
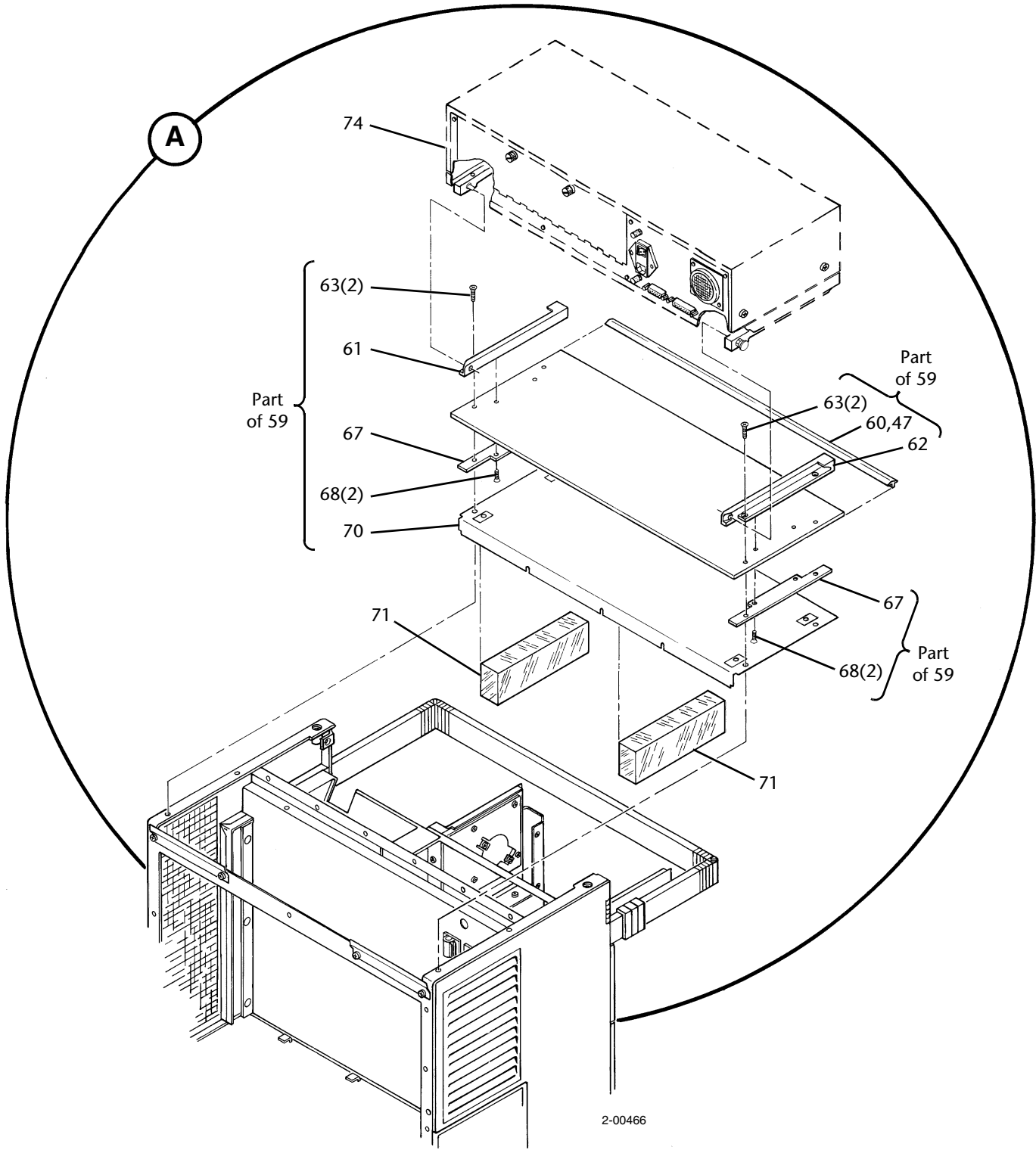
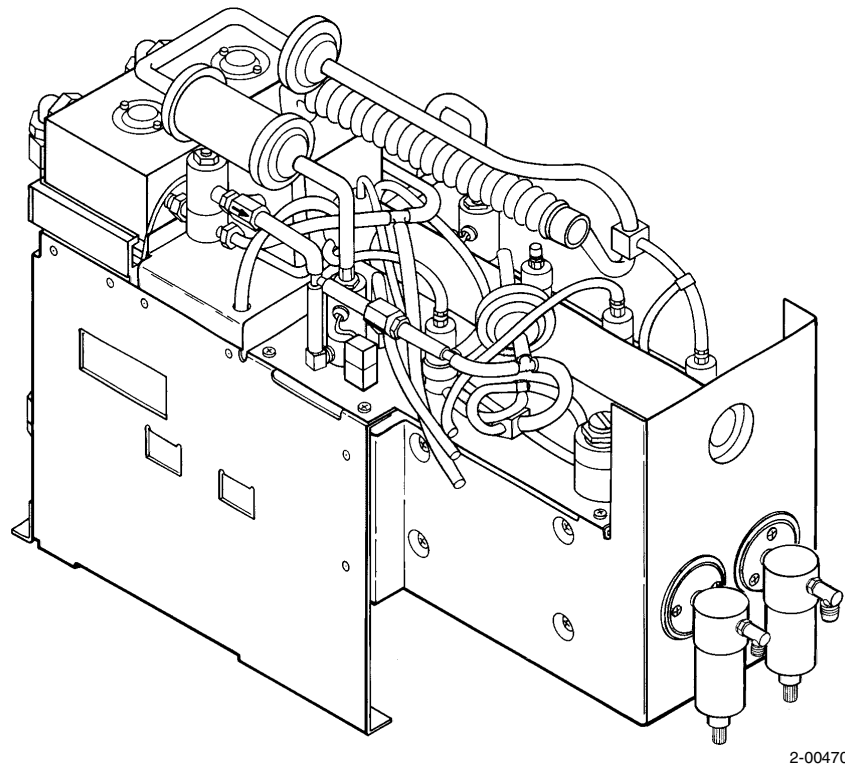


Figure C-3. 220/240 V EMI Ventilator (Sheet 2 of 2)

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Pneumatic Chassis Assembly



2-00470

Figure D-1. Pneumatic Chassis Assembly (EMI and non-EMI)

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D.1 Pneumatic Chassis Assemblies (EMI/Non-EMI)

Table D-1: Pneumatic Chassis Assemblies (EMI/Non-EMI) Parts List

Item Number (Figure D-2)	Part Number	Description
--	4-022601-00	Chassis assembly, pneumatic, non-EMI (English, French, Italian, and Spanish configurations). (Order oxygen and air flow sensors (P/N 4-019536-00 and 4-019535-00) (Figure D-5) separately.)
	4-022600-00	Chassis assembly, pneumatic, EMI (German configurations). (Order oxygen and air flow sensors (P/N 4-019536-00 and 4-019535-00) (Figure D-5) separately.)
1	--	Inlet assembly, air (Refer to Figure D-3 for further detail.)
2	--	Inlet assembly, oxygen (Refer to Figure D-4 for further detail.)
3	4-019067-00	Clamp, inlet base
4	4-005846-00	Screw, PAN, 8-32 x 5/8, SST
5	4-001138-00	Washer, IN LK, #8, ZC PL
6	4-001555-00	Nut, HEX, 8-32, ZC PL
7	4-018110-00	PCB assembly, pressure transducer (new)
	4-019836-00	PCB assembly, pressure transducer (exchange)
8	4-005775-00	Washer, flat, #4, ZC PL
9	4-006592-00	Screw, PAN, 4-40 x 1/4, ZC PL, Long-Lok
10	4-009101-00	Screw, PAN, 8-32 x 3/8, ZC PL, Long-Lok
11	4-019238-00	Harness assembly, pneumatic
12	4-019089-00	Clamp, mix valve
13	4-001041-00	Screw, PAN, 8-32 x 3/8, ZC PL
14	4-004431-00	Sheet, foam tape, 1/16 thick
15	--	Nut, HEX, 10-32, ZC PL
16	4-002236-00	Washer, IN LK, #10, ZC PL
17	--	Upper pneumatic chassis (Not stocked. Refer to Figure D-6 for further detail.)
18	--	Lower pneumatic chassis (Not stocked. Refer to Figure D-9 for further detail.)
19	--	Chassis, pneumatic (Not stocked. Order a pneumatic chassis assembly, P/N 4-022601-00 or 4-022600-00.)
20	--	Outlet assembly, vent (Not stocked. Order a pneumatic chassis assembly, P/N 4-022601-00 or 4-022600-00.)
21	4-011744-00	Tube, oxygen system
22	4-011181-00	Tube assembly, silicone
23	--	Pneumatic chassis tubing (Refer to Figure D-10 or D-12 for further detail.)
24	--	Pneumatic chassis fittings (Refer to Figure D-11 or D-13 for further detail.)
25	4-020275-00	Valve group, proportional [PSOLs] (new). (Refer to Figure D-8 for further detail.)

Table D-1: Pneumatic Chassis Assemblies (EMI/Non-EMI) Parts List (continued)

Item Number (Figure D-2)	Part Number	Description
26	--	Valve, safety relief (Not stocked. Order a safety relief valve/back pressure kit (P/N 4-020290-00 for English, French, Italian, Japanese, and Spanish configurations or P/N 4-019868-00 for German configurations). Refer to Figure D-7 for details.)
27	4-009778-00	Elbow assembly, nylon, white, 0.500 TB (Includes one of item 28 and two each of items 29, 32, and 33.)
28	--	Elbow, nylon, white, 0.500 TB (Not stocked. Order an elbow assembly (item 27).)
29	4-019587-00	Nut and spacer, nylon, white, 0.500 TB
30	--	Nut (Not stocked. Order a nut and spacer (item 29).)
31	--	Spacer (Not stocked. Order a nut and spacer (item 29).)
32	4-019588-00	Grab-ring, 303 SST, 0.500 TB
33	4-019589-00	O-ring, BUNA "N", 0.500 TB
34	4-019250-00	Regulator assembly, PEEP/CPAP [REG5] (Refer to Figure C-2 (items 40, 41, 44 and 45) for mounting detail.)
35	4-025118-00	Toroid (EMI configurations with 7202 Display)
36	4-000004-00	Cable tie, large
37	4-019535-00	Sensor, flow, air with EPROM [Q2/T2] (Refer to Figure D-5 for detail.)
38	4-019536-00	Sensor, flow, oxygen with EPROM [Q1/T1] (Not shown.) (Refer to Figure D-5 for detail.)
39	4-018290-00	Exhalation pilot pressure kit (Refer to Figure D-14 for detail.)

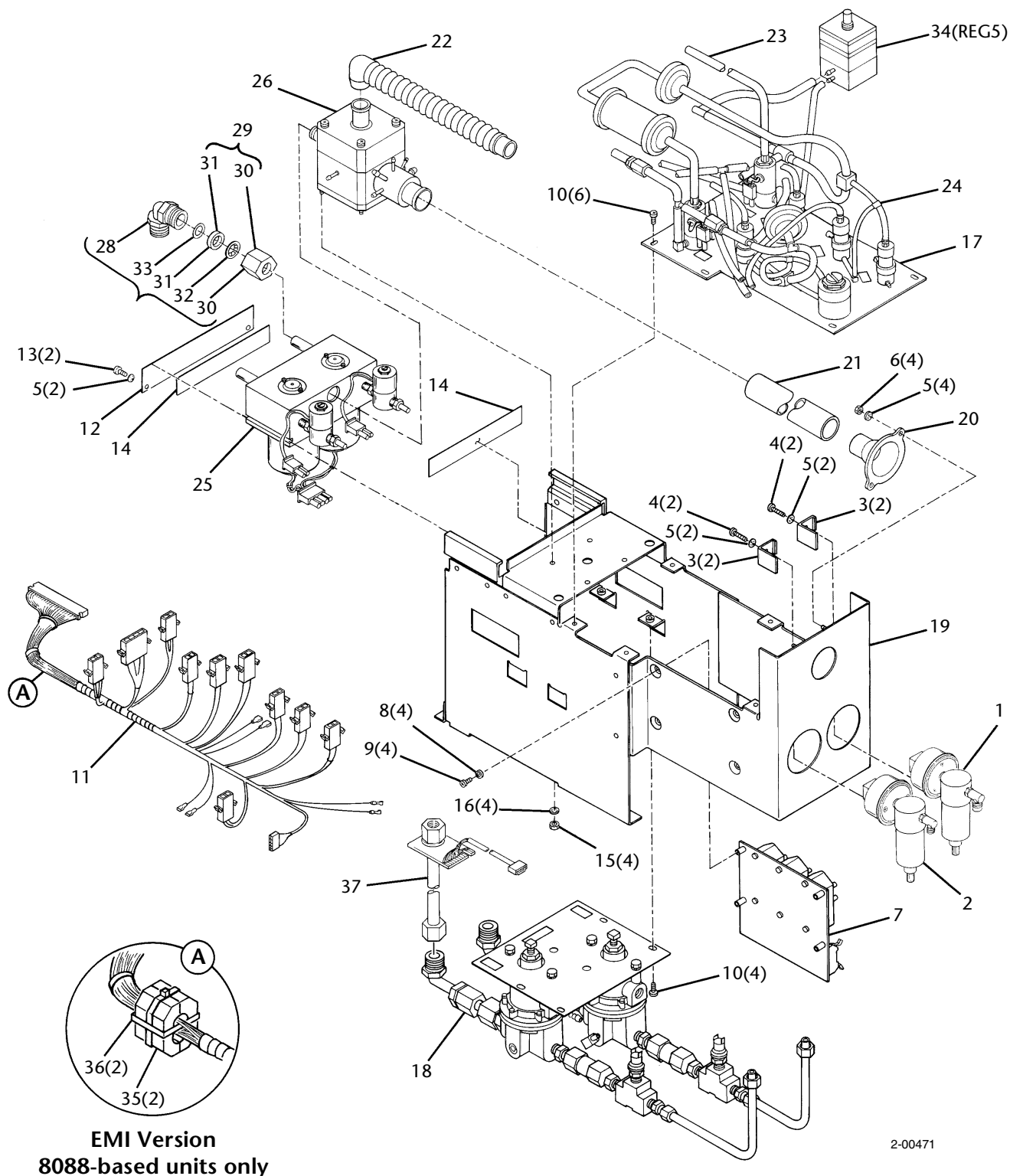


Figure D-2. Pneumatic Chassis Assembly (EMI/Non-EMI)

D.2 Air Inlet Assembly

Table D-2: Air Inlet Assembly Parts List

Item Number (Figure D-3)	Part Number	Description
--	--	Inlet assembly, air
1	4-000034-00	Filter, inlet (air) [F4]
2	4-000016-00	O-ring
3	4-020281-00	Housing assembly, air
4	--	Base, air inlet (Not stocked. Order an air housing assembly (item 3).)
5	--	Elbow, male, brass, 1/4 thread, 3/8 tubing (Not stocked. Order an air housing assembly (item 3).)
6	4-000875-00	Screw, FIL, 8-32 x 1/2
7	--	Water trap and filter assembly, air (later version with plastic head and spring-loaded push-type drain valve). (No longer available. Order the individual component parts or a latest version water trap and filter assembly (item 49).)
8	--	Head assembly, air water trap and filter (Not stocked. Order an air water trap and filter assembly (item 49).)
9	--	Cap, air inlet (Not stocked. Order an air water trap and filter assembly (item 49).)
10	--	Head, water trap and filter (Not stocked. Order an air water trap and filter assembly (item 49).)
11	--	Connector, elbow, air (Not stocked. Order an air water trap and filter head assembly (item 49).)
12	4-020282-00	Filter element, inlet (air) [F3]
13	4-015083-00	Bowl/drain kit
14	4-008467-00	O-ring, bowl
15	--	Bowl (Not stocked. Order a bowl/drain kit (item 13).)
16	--	Valve, filter drain (Not stocked. Order a bowl/drain kit (item 13).)
17	--	Cap, drain (Not stocked. Order a bowl/drain kit (item 13).)
18	--	Water trap and filter assembly, air (intermediate version with metal head and half-turn stopcock-type drain valve). (Not stocked. Order the individual component parts or a latest version air water trap and filter assembly (item 49).)
19	--	Head assembly, air water trap and filter (Not stocked. Order an air water trap and filter assembly (item 49).)
20	--	Cap, air inlet (Not stocked. Order an air water trap and filter assembly (item 49).)
21	--	Head, water trap and filter (Not stocked. Order an air water trap and filter assembly (item 49).)
22	--	Connector, elbow, air inlet (Not stocked. Order an air water trap and filter assembly (item 49).)
23	--	Filter element, inlet (air) (Finite) [F3] (Not stocked. Order a filter element (item 23A).)

Table D-2: Air Inlet Assembly Parts List (continued)

Item Number (Figure D-3)	Part Number	Description
23A	4-018055-00	Filter element, inlet (air) (Finite) [F3]
24	--	Shaft, filter retaining (Not stocked. Order a filter element (item 23A).)
25	4-020789-00	Bowl replacement kit
26	4-016176-00	O-ring, bowl
27	--	Drain, stopcock, half-turn (Not stocked. Order a bowl replacement kit (item 25).)
28	--	Seal, O-ring, drain (Not stocked. Order a bowl replacement kit (item 25).)
29	--	Bowl (Not stocked. Order a bowl replacement kit (item 25).)
30	--	Cap, drain (Not stocked. Order a bowl replacement kit (item 25).)
31	--	Water trap and filter assembly, air (earlier version with metal head and spring-loaded push-type drain valve). (Not stocked. Order the individual component parts or a latest version air water trap and filter assembly (item 49).)
32	--	Head assembly, air water trap and filter (Not stocked. Order an air water trap and filter assembly (item 49).)
33	--	Cap, air inlet (Not stocked. Order an air water trap and filter assembly (item 49).)
34	--	Head, water trap and filter (Not stocked. Order an air water trap and filter assembly (item 49).)
35	--	Connector, elbow, air inlet (Not stocked. Order an air water trap and filter assembly (item 49).)
36	--	Shaft, threaded (Not stocked. Order an air water trap and filter assembly (item 49).)
37	4-020282-00	Filter element, inlet (air) [F3]
38	--	Seal, O-ring (Not stocked. Order an O-ring replacement kit (item 48).)
39	--	Retainer, filter (Not stocked. Order an air water trap and filter assembly (item 49).)
40	--	Nut, filter retaining (Not stocked. Order an air water trap and filter assembly (item 49).)
41	--	Seal, bowl (Not stocked. Order an O-ring replacement kit (item 48).)
42	4-020284-00	Bowl replacement kit
43	--	Bowl (Not stocked. Order a bowl replacement kit (item 42).)
44	--	Nut, filter drain valve (Not stocked. Order a bowl replacement kit (item 42).)
45	--	Seal, O-ring (Not stocked. Order a bowl replacement kit (item 42) or an O-ring replacement kit (item 48).)
46	4-020283-00	Valve, filter drain
47	--	Cap, drain (Not stocked. Order a bowl replacement kit (item 42).)
48	4-020285-00	O-ring replacement kit (Includes one each of items 38, 41, and 45.)

Table D-2: Air Inlet Assembly Parts List (continued)

Item Number (Figure D-3)	Part Number	Description
49	4-020279-00	Water trap and filter assembly, air (latest version with metal head and black plastic drain valve)
50	--	Head assembly, air water trap and filter (Not stocked. Order an air water trap and filter assembly (item 49).)
51	--	Cap, air inlet (Not stocked. Order an air water trap and filter assembly (item 49).)
52	--	Head, water trap and filter (Not stocked. Order an air water trap and filter assembly (item 49).)
53	--	Connector, elbow, air (Not stocked. Order an air water trap and filter assembly (item 49).)
54	4-018055-00	Filter element, inlet (air) (Finite) [F3]
55	4-015316-00	Bowl/drain kit
56	4-016177-00	O-ring, bowl

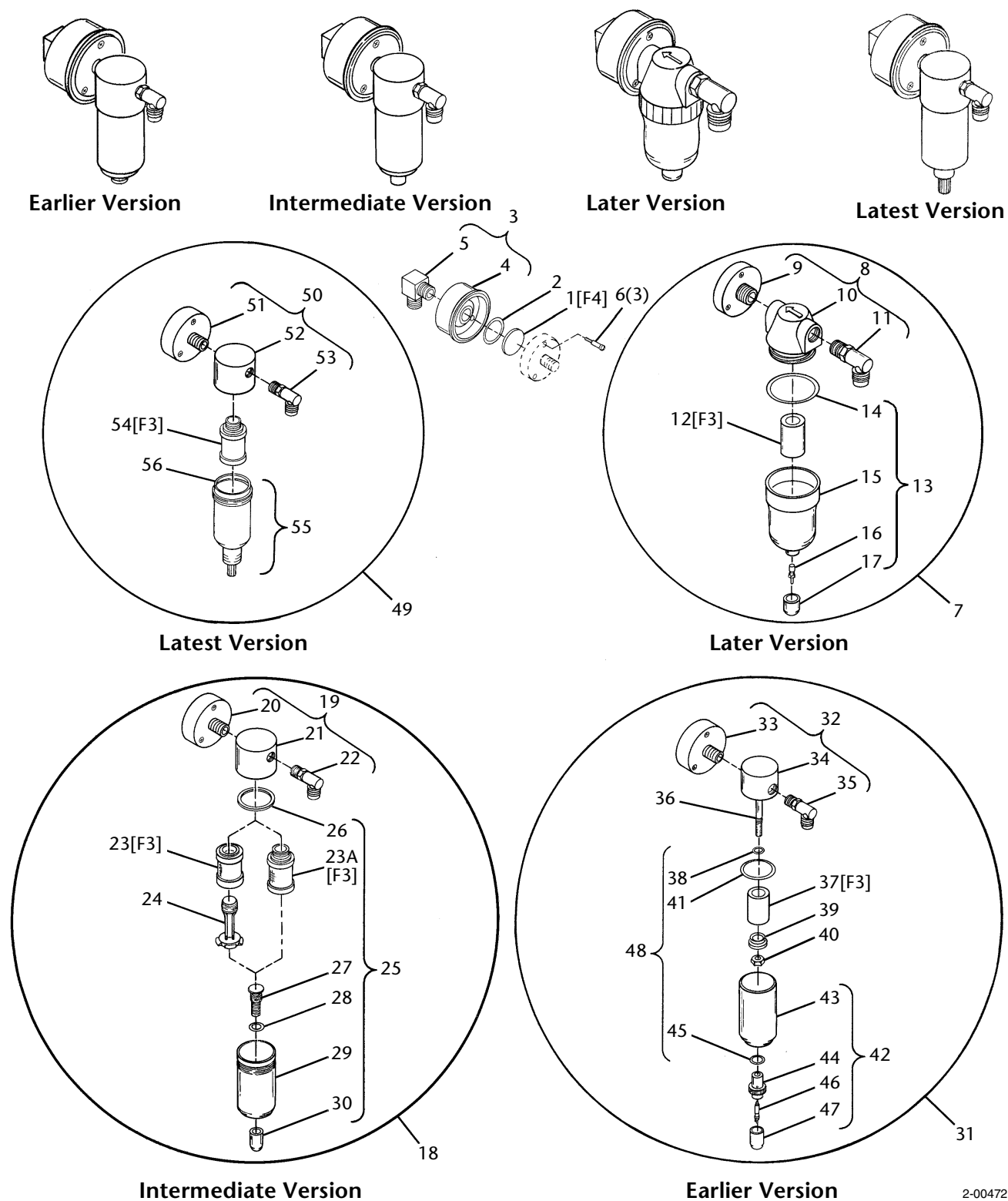


Figure D-3. Air Inlet Assembly

D.3 Oxygen Inlet Assembly

Table D-3: Oxygen Inlet Assembly Parts List

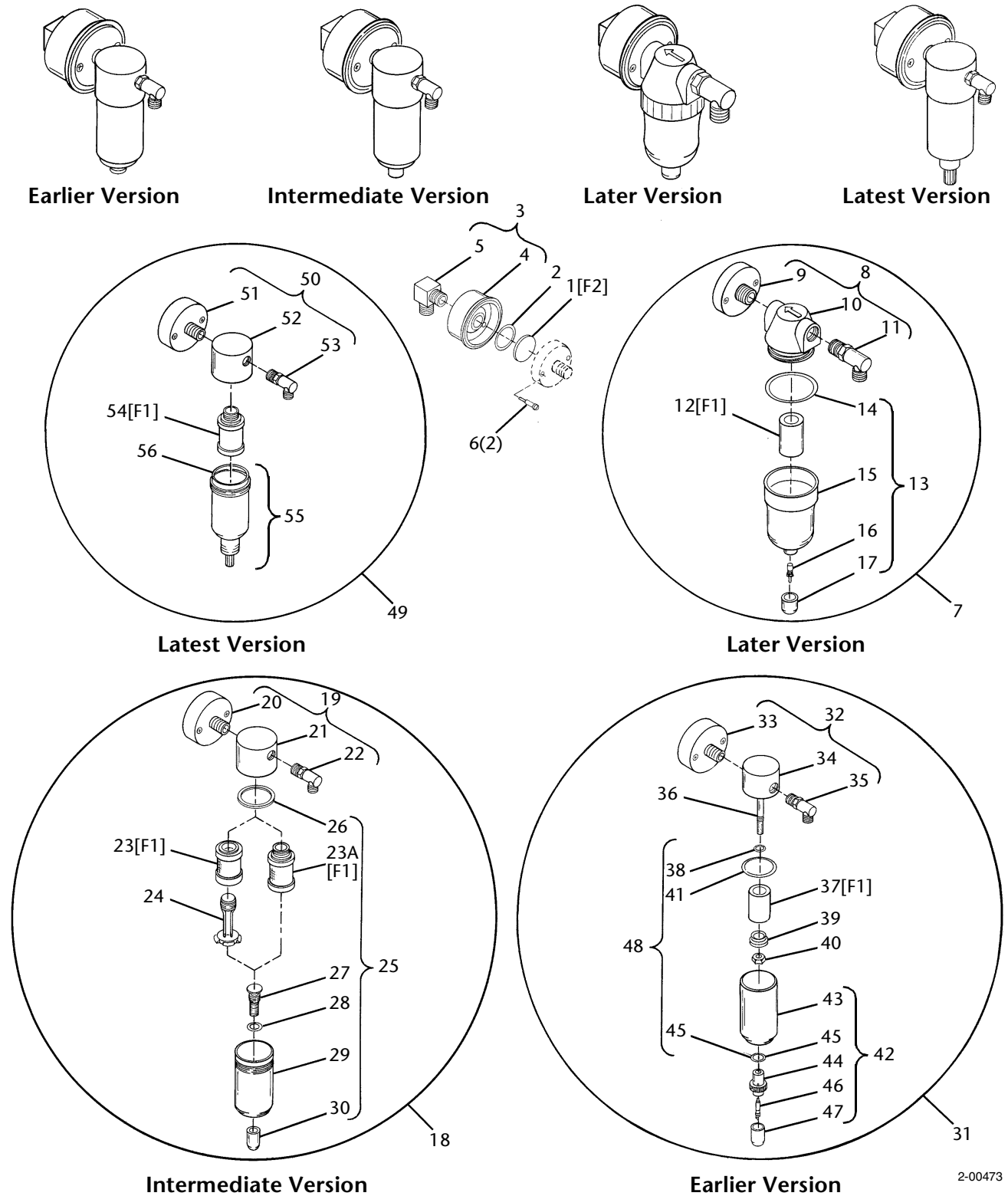
Item Number (Figure D-4)	Part Number	Description
--	--	Inlet assembly, oxygen
1	4-000034-00	Filter, inlet (oxygen) [F2]
2	4-000016-00	O-ring
3	4-020280-00	Housing assembly, oxygen
4	--	Base, oxygen inlet (Not stocked. Order an oxygen housing assembly (item 3).)
5	--	Elbow, male, brass, 1/4 thread, 3/8 TB (Not stocked. Order an oxygen housing assembly (item 3).)
6	4-000875-00	Screw, FIL, 8-32 x 1/2
7	--	Water trap and filter assembly, oxygen (later version with plastic head and spring-loaded push-type drain valve). (Not stocked. Order the individual component parts or a latest version oxygen water trap and filter assembly (item 49).)
8	--	Head assembly, oxygen water trap and filter (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
9	--	Cap, oxygen inlet (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
10	--	Head, water trap and filter (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
11	--	Connector, elbow, oxygen (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
12	4-020282-00	Filter element, inlet (oxygen) [F1]
13	4-015083-00	Bowl/drain kit
14	4-008467-00	O-ring, bowl
15	--	Bowl (Not stocked. Order a bowl/drain kit (item 13).)
16	--	Valve, filter drain (Not stocked. Order a bowl/drain kit (item 13).)
17	--	Cap, drain (Not stocked. Order a bowl/drain kit (item 13).)
18	--	Water trap and filter assembly, oxygen (intermediate version with metal head and half-turn stopcock-type drain valve). (Not stocked. Order the individual component parts or a latest version oxygen water trap and filter assembly (item 49).)
19	--	Head assembly, oxygen water trap and filter (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
20	--	Cap, oxygen inlet (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
21	--	Head, water trap and filter (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
22	--	Connector, elbow, oxygen inlet (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
23	--	Filter element, inlet (oxygen) (Finite) [F1] (Not stocked. Order a filter element (item 23A).)

Table D-3: Oxygen Inlet Assembly Parts List (continued)

Item Number (Figure D-4)	Part Number	Description
23A	4-018055-00	Filter element, inlet (oxygen) (Finite) [F1]
24	--	Shaft, filter retaining (Not stocked. Order a filter element (item 23A).)
25	4-020789-00	Bowl replacement kit
26	4-016176-00	O-ring, bowl
27	--	Drain, stopcock, half-turn (Not stocked. Order a bowl replacement kit (item 25).)
28	--	Seal, O-ring, drain (Not stocked. Order a bowl replacement kit (item 25).)
29	--	Bowl (Not stocked. Order a bowl replacement kit (item 25).)
30	--	Cap, drain (Not stocked. Order a bowl replacement kit (item 25).)
31	--	Water trap and filter assembly, oxygen (earlier version with metal head and spring-loaded push-type drain valve). (Not stocked. Order the individual component parts or a latest version oxygen water trap and filter assembly (item 49).)
32	--	Head assembly, oxygen water trap and filter (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
33	--	Cap, oxygen inlet (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
34	--	Head, water trap and filter (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
35	--	Connector, elbow, oxygen inlet (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
36	--	Shaft, threaded (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
37	4-020282-00	Filter element, inlet (oxygen) [F1]
38	--	Seal, O-ring (Not stocked. Order an O-ring replacement kit (item 48).)
39	--	Retainer, filter (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
40	--	Nut, filter retaining (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
41	--	Seal, bowl (Not stocked. Order an O-ring replacement kit (item 48).)
42	4-020284-00	Bowl replacement kit
43	--	Bowl (Not stocked. Order a bowl replacement kit (item 42).)
44	--	Nut, filter drain valve (Not stocked. Order a bowl replacement kit (item 42).)
45	--	Seal, O-ring (Not stocked. Order a bowl replacement kit (item 42) or an O-ring replacement kit (item 48).)
46	4-020283-00	Valve, filter drain
47	--	Cap, drain (Not stocked. Order a bowl replacement kit (item 42).)
48	4-020285-00	O-ring replacement kit (Includes one each of items 38, 41, and 45.)

Table D-3: Oxygen Inlet Assembly Parts List (continued)

Item Number (Figure D-4)	Part Number	Description
49	4-020278-00	Water trap and filter assembly, oxygen (latest version with metal head and black plastic drain valve)
50	--	Head assembly, oxygen water trap and filter (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
51	--	Cap, oxygen inlet (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
52	--	Head, water trap and filter (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
53	--	Connector, elbow, oxygen (Not stocked. Order an oxygen water trap and filter assembly (item 49).)
54	4-018055-00	Filter element, inlet (oxygen) (Finite) [F1]
55	4-015316-00	Bowl/drain kit
56	4-016177-00	O-ring, bowl



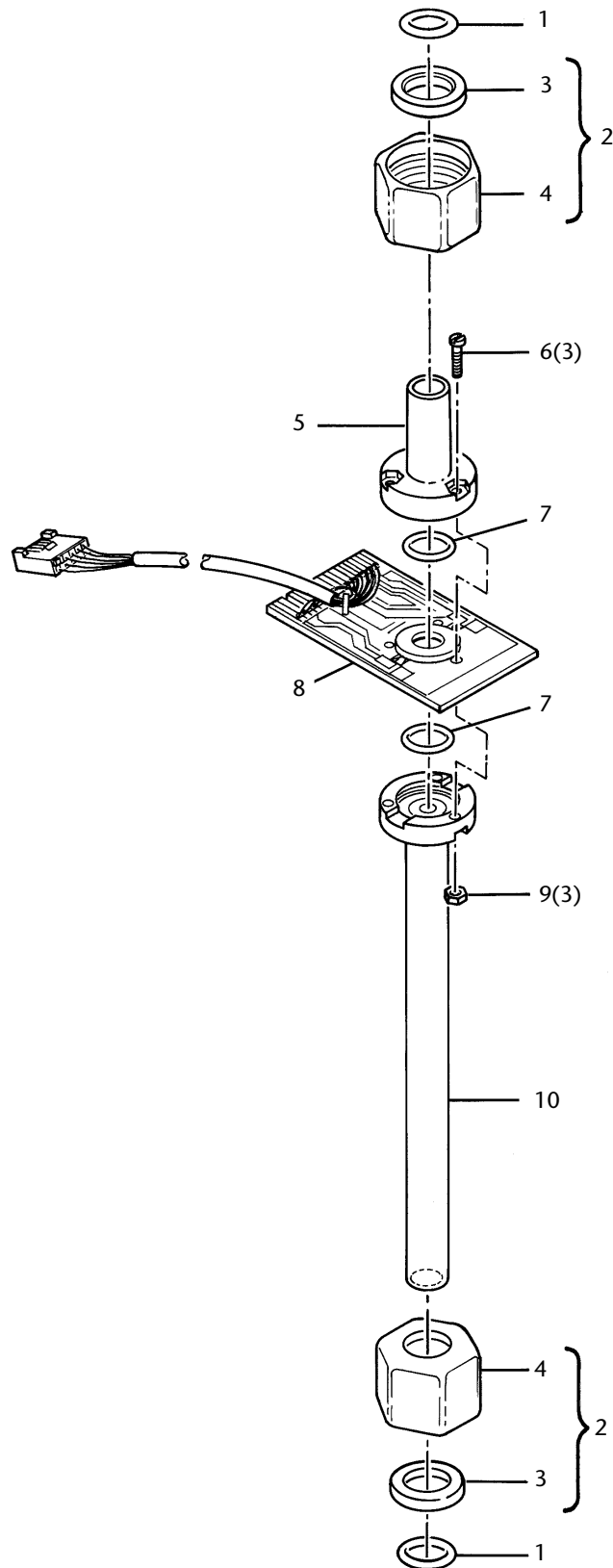
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Figure D-4. Oxygen Inlet Assembly

D.4 Oxygen and Air Flow Sensors

Table D-4: Oxygen and Air Flow Sensors Parts List

Item Number (Figure D-5)	Part Number	Description
--	4-019535-00	Sensor, flow, air, with EPROM [Q2/T2]
--	4-019536-00	Sensor, flow, oxygen, with EPROM [Q1/T1]
1	4-019589-00	O-ring, BUNA "N," 0.500 TB
2	4-019587-00	Nut and spacer, nylon, white, 0.500 TB
3	--	Spacer (Not stocked. Order a nut and spacer (item 2).)
4	--	Nut (Not stocked. Order a nut and spacer (item 2).)
5	--	Tube, flow sensor, short (Not stocked. Order the appropriate flow sensor above.)
6	--	Screw, FIL, 6-32 x 7/16 (Not stocked. Order the appropriate flow sensor above.)
7	--	O-ring (Not stocked. Order the appropriate flow sensor above.)
8	--	PCB, flow sensor (Not stocked. Order the appropriate flow sensor above.)
9	--	Nut, HEX, 6-32, radio, ZC PL (Not stocked. Order the appropriate flow sensor above.)
10	--	Tube, flow sensor, long (Not stocked. Order the appropriate flow sensor above.)



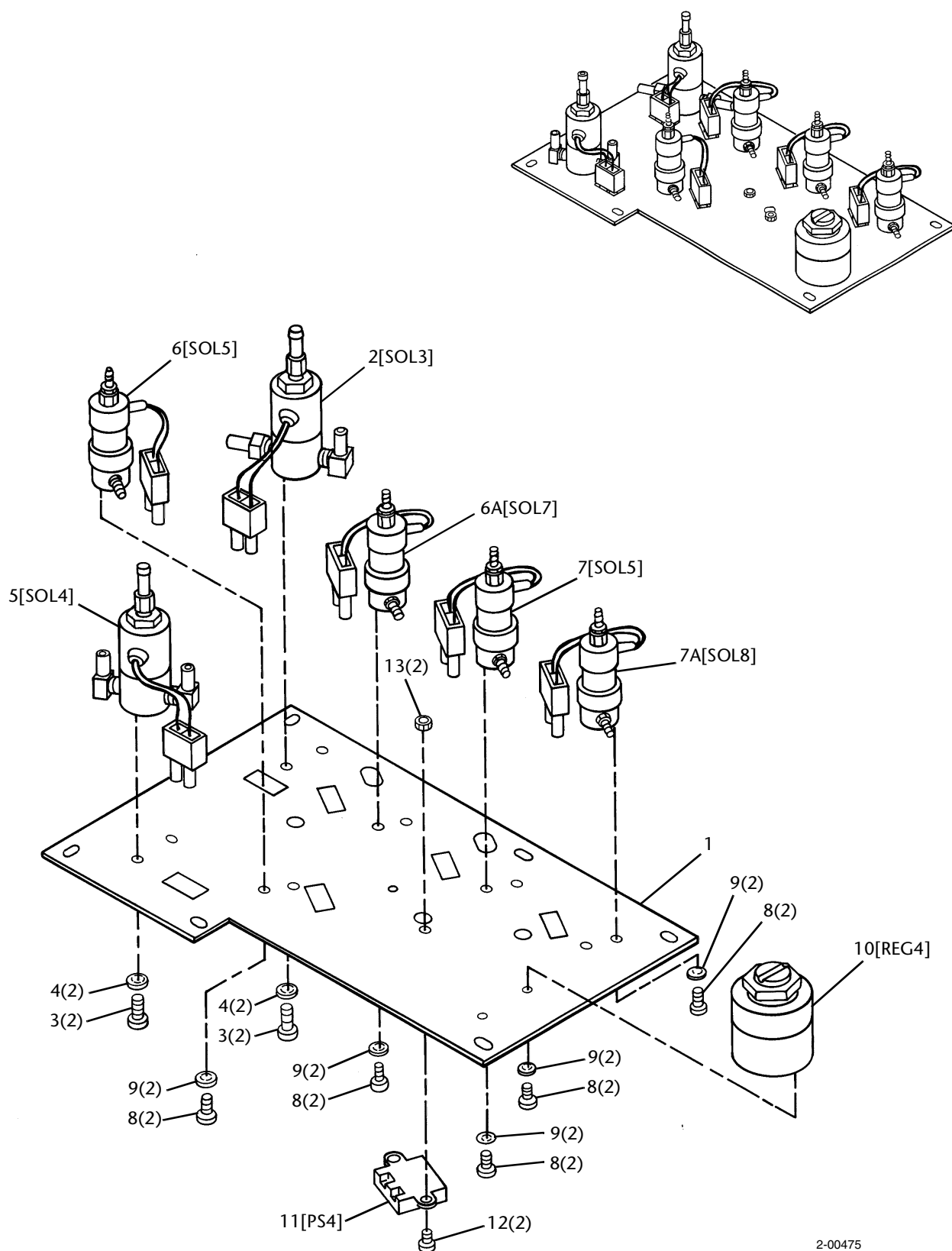
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Figure D-5. Oxygen or Air Flow Sensor

D.5 Upper Pneumatic Chassis

Table D-5: Upper Pneumatic Chassis Parts List

Item Number (Figure D-6)	Part Number	Description
--	--	Upper pneumatic chassis (Not stocked. Order the individual component parts.)
1	4-019097-00	Plate, pneumatics solenoid
2	4-019343-00	Valve assembly, solenoid, cross-over [SOL3]
3	4-001171-00	Screw, PAN, 8-32 x 1/4, ZC PL
4	4-001138-00	Washer, IN LK, #8, ZC PL
5	4-019344-00	Valve assembly, solenoid, exhalation pilot control [SOL4]
6	4-019341-00	Valve assembly, solenoid, safety valve [SOL5]
6A	4-019341-00	Valve assembly, solenoid, PEEP/CPAP [SOL7]
7	4-019245-00	Valve assembly, solenoid, DP autozero [SOL6]
7A	4-019245-00	Valve assembly, solenoid, P1 autozero [SOL8]
8	4-000281-00	Screw, PAN, 6-32 x 5/16, ZC PL
9	4-001785-00	Washer, IN LK, #6, ZC PL
10	--	Regulator assembly, safety valve back pressure [REG4] (Not stocked. Order a safety relief valve/back pressure kit (P/N 4-020290-00 for English, French, Italian, Japanese, and Spanish configurations or P/N 4-019868-00 for German configurations). Refer to Figure D-7 for detail.)
11	4-019111-00	Switch, pressure, BUW [PS4]
12	4-007737-00	Screw, PAN, 4-40 x 5/16, ZC PL, Long-Lok
13	4-000780-00	Nut, HEX, 4-40, ZC PL



2-00475

Figure D-6. Upper Pneumatic Chassis

D.6 Safety Relief Valve/Back Pressure Kit

Table D-6: Safety Relief Valve/Back Pressure Kit Parts List

Item Number (Figure D-7)	Part Number	Description
--	4-020290-00	Valve kit, safety relief/back pressure (English, French, Italian, Japanese, and Spanish configurations). (Includes the safety valve/check valve assembly [SV/CV3], back pressure regulator [REG4], restrictors R1 and R2, a tee, and tubing.)
--	4-019868-00	Valve kit, safety relief/back pressure (German configuration). (Includes the safety valve/check valve assembly [SV/CV3], back pressure regulator [REG4], restrictors R1 and R2, a tee, and tubing. When ordering this part, also order label, P/N 4-022237-00.)

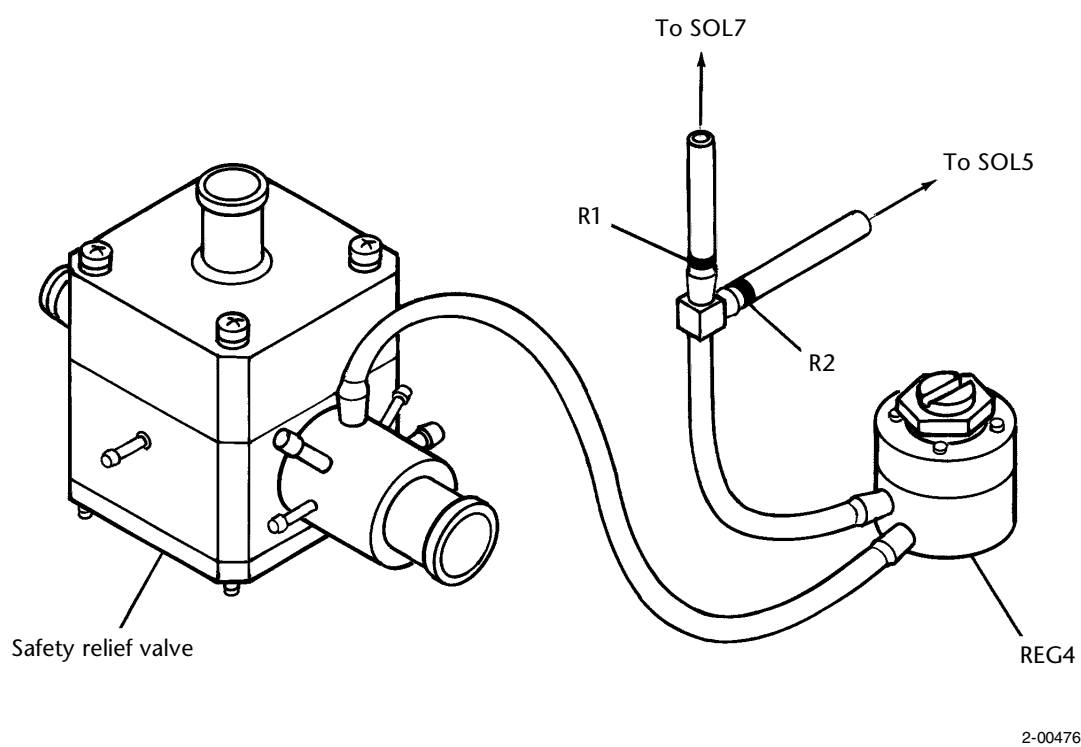


Figure D-7. Safety Relief Valve/Back Pressure Kit

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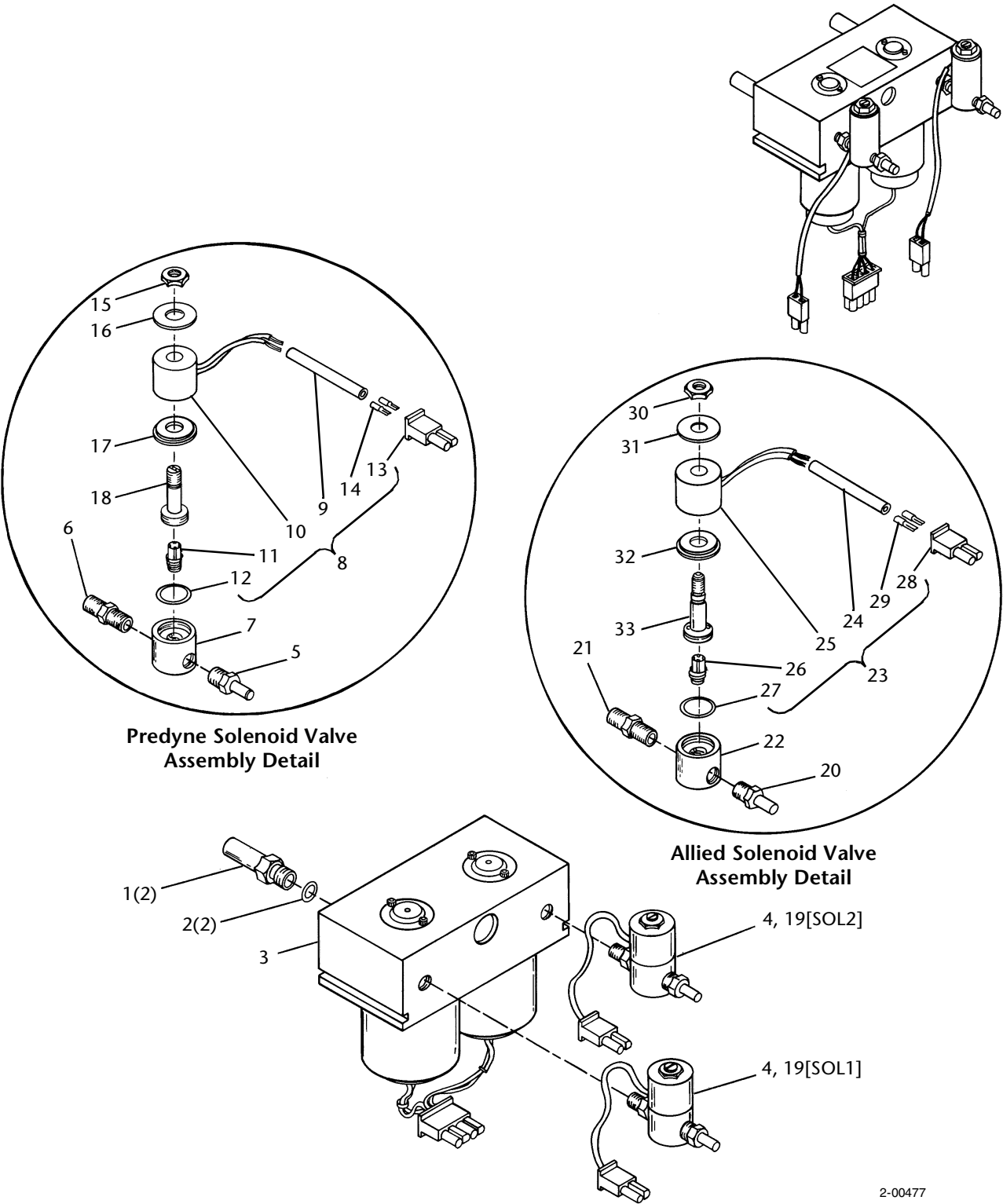
D.7 Proportional Valve Group

Table D-7: Proportional Valve Group Parts List

Item Number (Figure D-8)	Part Number	Description
--	4-020275-00	Valve group, proportional [PSOLs] (new)
1	--	Connector, adapter (Not stocked. Order a proportional valve group, P/N 4-020275-00.)
2	--	O-ring (Not stocked. Order a proportional valve group, P/N 4-020275-00.)
3	--	Valve pair, air/oxygen [PSOL1 and PSOL2] (Not stocked. Order a proportional valve group, P/N 4-020275-00.)
4	4-019340-00	Valve assembly, solenoid, oxygen/air nebulizer (Predyne) [SOL1/SOL2]
5	--	Connector, barb (Not stocked. Order a solenoid valve assembly (item 4).)
6	--	Nipple, HEX, brass (Not stocked. Order a solenoid valve assembly (item 4).)
7	--	Body, valve (Predyne) (Not stocked. Order a solenoid valve assembly (item 4).)
8	4-020302-00	Repair kit, SOL1 and SOL2, Predyne
9	--	Tube, plastic, 3/16 OD, black (Not stocked. Order a Predyne SOL1 and SOL2 repair kit (item 8).)
10	--	Coil, solenoid (Not stocked. Order a Predyne SOL1 and SOL2 repair kit (item 8).)
11	--	Poppet and spring, solenoid (Not stocked. Order a Predyne SOL1 and SOL2 repair kit (item 8).)
12	--	O-ring, solenoid (Not stocked. Order a Predyne SOL1 and SOL2 repair kit (item 8).)
13	--	Connector, 2-pin, receptacle (Not stocked. Order a Predyne SOL1 and SOL2 repair kit (item 8).)
14	--	Contact, socket (Not stocked. Order a Predyne SOL1 and SOL2 repair kit (item 8).)
15	--	Nut (Not stocked. Order a solenoid valve assembly (item 4).)
16	--	Identification tag (Not stocked. Order a solenoid valve assembly (item 4).)
17	--	Spacer (Not stocked. Order a solenoid valve assembly (item 4).)
18	--	Poppet carrier stem (Not stocked. Order a solenoid valve assembly (item 4).)
19	--	Valve assembly, solenoid, oxygen/air nebulizer (Allied) [SOL1/SOL2] (Not stocked. Order a Predyne solenoid valve assembly (item 4).)
20	--	Connector, barb (Not stocked. Order a Predyne solenoid valve assembly (item 4).)
21	--	Nipple, HEX, brass (Not stocked. Order a Predyne solenoid valve assembly (item 4).)
22	--	Body, valve (Allied) (Not stocked. Order a Predyne solenoid valve assembly (item 4).)

Table D-7: Proportional Valve Group Parts List (continued)

Item Number (Figure D-8)	Part Number	Description
23	4-019340-00	Valve assembly, solenoid, SOL1/SOL2
24	--	Tube, plastic, 3/16 OD, black (Not stocked. Order a SOL1/SOL2 solenoid valve assembly (item 23).)
25	--	Coil, solenoid (Not stocked. Order a SOL1/SOL2 solenoid valve assembly (item 23).)
26	--	Poppet and spring, solenoid (Not stocked. Order a SOL1/SOL2 solenoid valve assembly (item 23).)
27	--	O-ring, solenoid (Not stocked. Order a SOL1/SOL2 solenoid valve assembly (item 23).)
28	--	Connector, 2-pin, receptacle (Not stocked. Order a SOL1/SOL2 solenoid valve assembly (item 23).)
29	--	Contact, socket (Not stocked. Order a SOL1/SOL2 solenoid valve assembly (item 23).)
30	--	Nut (Not stocked. Order a solenoid valve assembly (item 4).)
31	--	Identification tag (Not stocked. Order a solenoid valve assembly (item 4).)
32	--	Spacer (Not stocked. Order a solenoid valve assembly (item 4).)
33	--	Poppet carrier stem (Not stocked. Order a solenoid valve assembly (item 4).)



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Figure D-8. Proportional Valve Group

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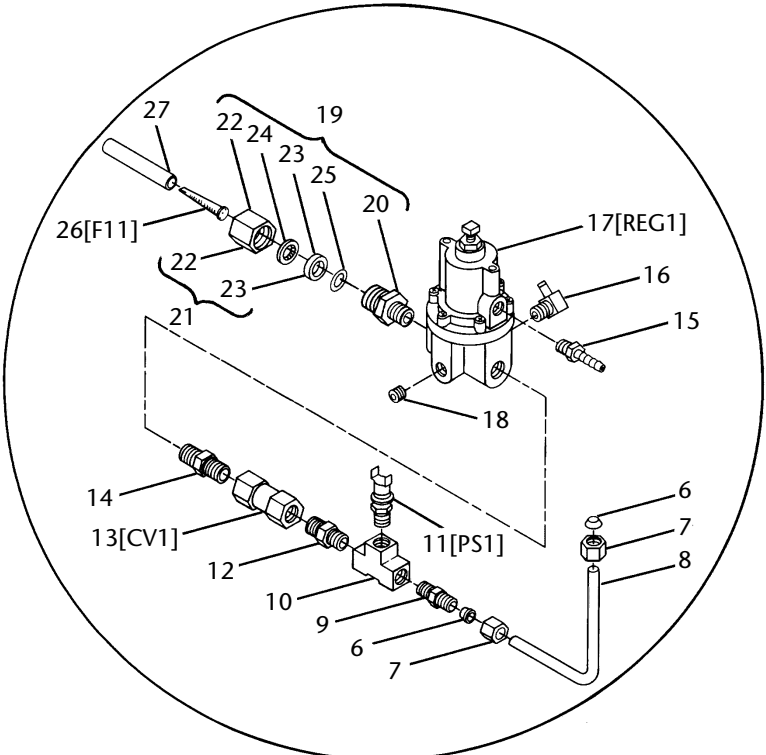
D.8 Lower Pneumatic Chassis

Table D-8: Lower Pneumatic Chassis Parts List

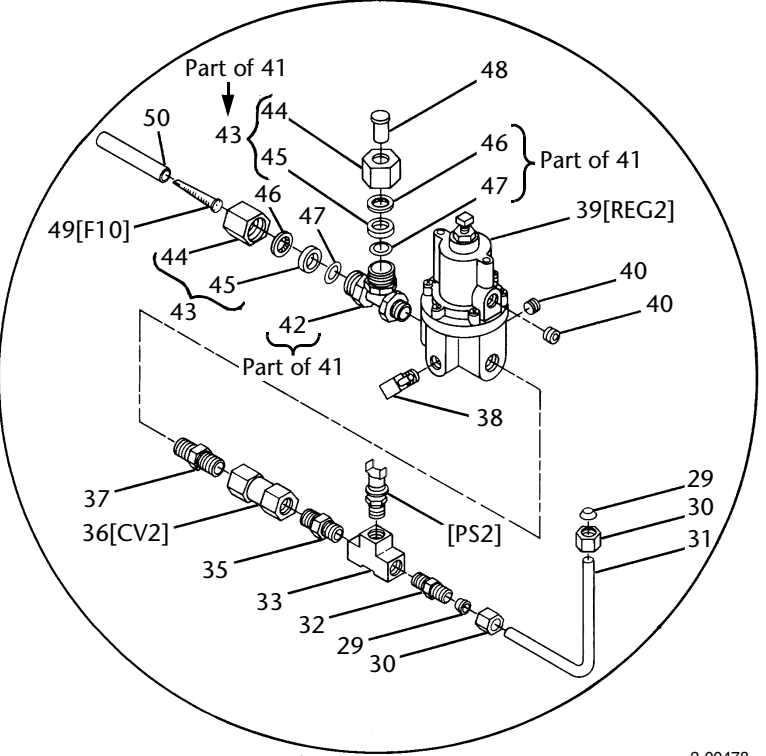
Item Number (Figure D-9)	Part Number	Description
--	--	Lower pneumatic chassis (Not stocked. Order the individual component parts.)
1	4-019093-00	Plate, pneumatic chassis
2	4-004994-00	Molding, plastic, 0.420 foot (Bulk item. Available in multiples of one-foot lengths (minimum order 10 feet).)
3	4-000388-00	Bolt, machine, 1/4-20 x 1/2, ZC PL
4	4-007654-00	Lockwasher, SR, 1/4, ZC PL
5	4-020276-00	Regulator assembly, oxygen
6	--	Ferrule, brass (Not stocked. Order an oxygen regulator assembly (item 5).)
7	--	Fitting, brass (Not stocked. Order an oxygen regulator assembly (item 5).)
8	--	Tube, elbow, oxygen (Not stocked. Order an oxygen regulator assembly (item 5).)
9	--	Nipple, brass (Not stocked. Order an oxygen regulator assembly (item 5).)
10	--	Tee, brass (Not stocked. Order an oxygen regulator assembly (item 5).)
11	4-019068-00	Switch, pressure (oxygen) [PS1]
12	--	Nipple, brass (Not stocked. Order an oxygen regulator assembly (item 5).)
13	--	Check valve (oxygen) [CV1]. (Not stocked. Order an oxygen regulator assembly (item 5).)
14	--	Nipple, brass (Not stocked. Order an oxygen regulator assembly (item 5).)
15	--	Connector, barb, brass (Not stocked. Order an oxygen regulator assembly (item 5).)
16	--	Elbow, barb, brass (Not stocked. Order an oxygen regulator assembly (item 5).)
17	--	Regulator, oxygen [REG1]. (Not stocked. Order an oxygen regulator assembly (item 5).)
18	--	Plug (Not stocked. Order an oxygen regulator assembly (item 5).)
19	4-009790-00	Connector assembly, nylon, white, 3/8, 0.500 TB
20	--	Connector (Not stocked. Order a connector assembly (item 19).)
21	4-019587-00	Nut and spacer, nylon, white, 0.500 TB
22	--	Nut (Not stocked. Order a nut and spacer (item 21).)
23	--	Spacer (Not stocked. Order a nut and spacer (item 21).)
24	4-019588-00	Grab-ring, 303 SST, 0.500 TB
25	4-019589-00	O-ring, BUNA-N, 0.500 TB
26	4-020719-00	Filter, screen (air) [F11]
27	4-019066-00	Tube, oxygen

Table D-8: Lower Pneumatic Chassis Parts List (continued)

Item Number (Figure D-9)	Part Number	Description
28	4-020277-00	Regulator assembly, air
29	--	Ferrule, brass (Not stocked. Order an air regulator assembly (item 28).)
30	--	Fitting, brass (Not stocked. Order an air regulator assembly (item 28).)
31	--	Tube, elbow, air (Not stocked. Order an air regulator assembly (item 28).)
32	--	Nipple, brass (Not stocked. Order an air regulator assembly (item 28).)
33	--	Tee, brass (Not stocked. Order an air regulator assembly (item 28).)
34	4-019068-00	Switch, pressure (air) [PS2]
35	--	Nipple, brass (Not stocked. Order an air regulator assembly (item 28).)
36	--	Check valve (air) [CV2] (Not stocked. Order an air regulator assembly (item 28).)
37	--	Nipple, brass (Not stocked. Order an air regulator assembly (item 28).)
38	--	Elbow, barb, brass (Not stocked. Order an air regulator assembly (item 28).)
39	--	Regulator, air [REG2] (Not stocked. Order an air regulator assembly (item 28).)
40	--	Plug (Not stocked. Order an air regulator assembly (item 28).)
41	4-009780-00	Tee assembly, nylon, white, 3/8, 0.500 TB (Includes one of item 42 and two each of items 43, 46, and 47.)
42	--	Tee (Not stocked. Order a tee assembly (item 41).)
43	4-019587-00	Nut and spacer, nylon, white, 0.500 TB
44	--	Nut (Not stocked. Order a nut and spacer (item 15).)
45	--	Spacer (Not stocked. Order a nut and spacer (item 43).)
46	4-019588-00	Grab-ring, 303 SST, 0.500 TB
47	4-019589-00	O-ring, BUNA-N, 0.500 TB
48	4-019576-00	Plug, air inlet
49	4-020719-00	Filter, screen (oxygen) [F10]
50	4-019065-00	Tube, air
51	4-009778-00	Elbow assembly, nylon, white, 0.500 TB (Includes one of item 52 and two each of items 53, 56, and 57.)
52	--	Elbow (Not stocked. Order an elbow assembly (item 51).)
53	4-019587-00	Nut and spacer, nylon, white, 0.500 TB
54	--	Nut (Not stocked. Order a nut and spacer (item 53).)
55	--	Spacer (Not stocked. Order a nut and spacer (item 53).)
56	4-019588-00	Grab-ring, 303 SST, 0.500 TB
57	4-019589-00	O-ring, BUNA-N, 0.500 TB

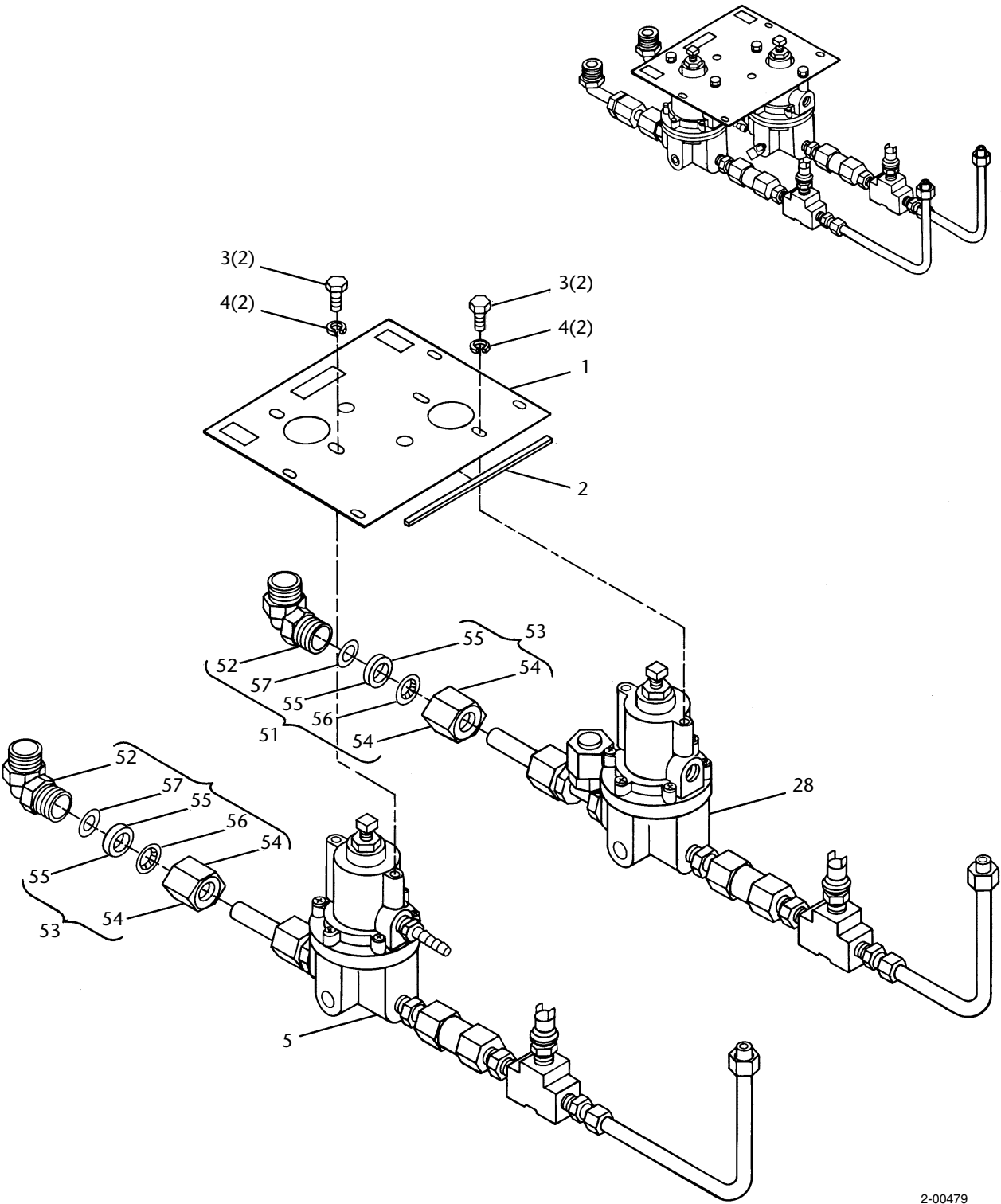


Regulator 1 Assembly
Detail



Regulator 2 Assembly
Detail

2-00478



2-00479

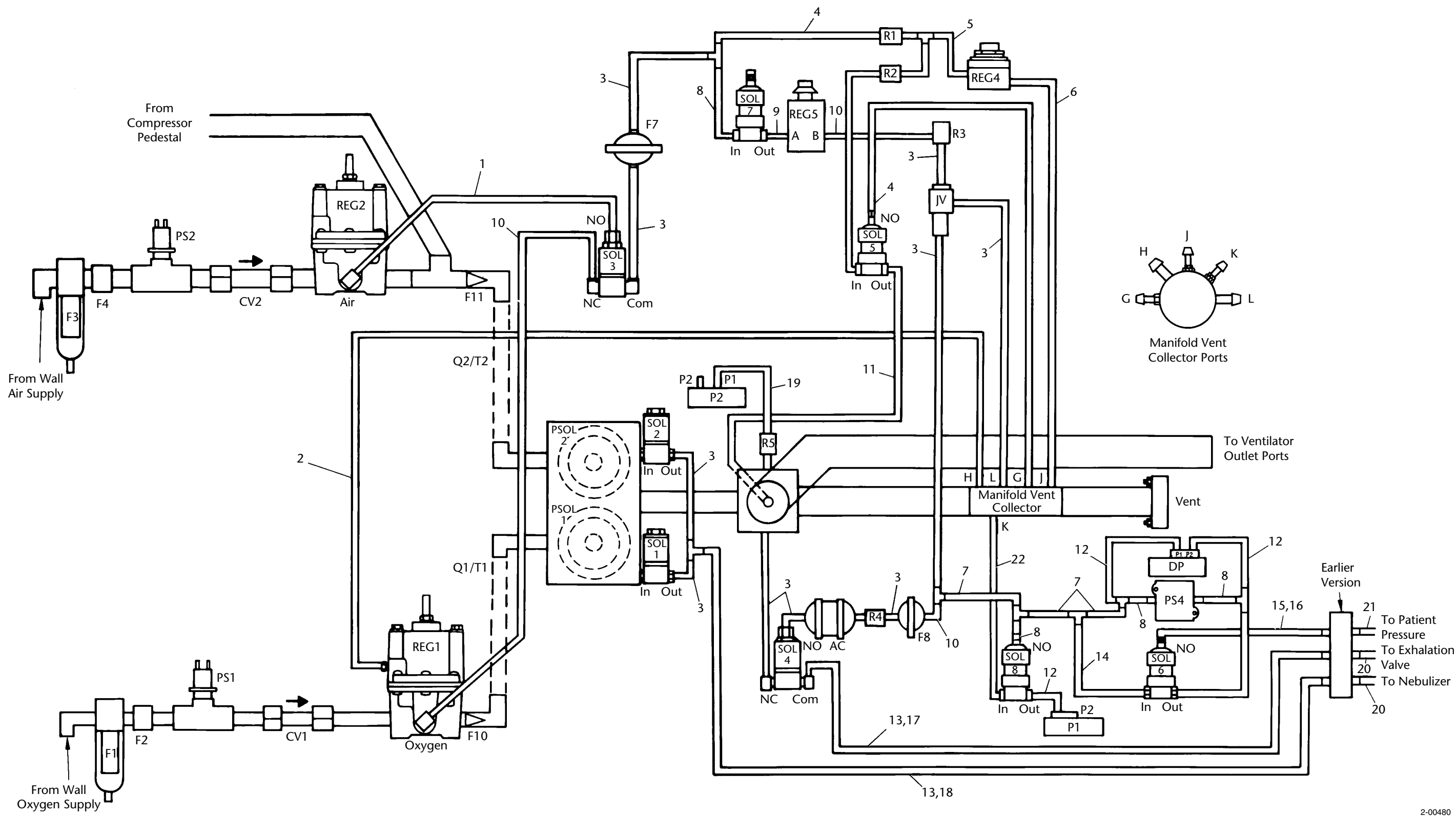
Figure 4-9. Lower Pneumatic Chassis

D.9 Pneumatic Chassis Tubing for External Exhalation Valves

Table 0-9: Pneumatic Chassis Assembly Tubing Parts List for Units with External Exhalation Valves

Item Number (Figure 0-10)	Made from Part Number	Length in Inches
1	4-008575-00	14-5/8
2	4-008575-00	11-1/2
3	4-008575-00	4
4	4-008575-00	6
5	4-008575-00	2-3/4
6	4-008575-00	10
7	4-008578-00	3-1/2
8	4-008578-00	2
9	4-008578-00	13
10	4-008575-00	9-1/2
11	4-008578-00	9
12	4-008578-00	5
13	4-008575-00	5-1/2 (earlier version)
14	4-008578-00	1
15	4-008578-00	6 (earlier version)
16	4-008578-00	20 (later version)
17	4-008575-00	23 (later version)
18	4-008575-00	13 (later version)
19	4-008578-00	11-1/4
20	4-008575-00	9-1/2 (earlier version)
21	4-008578-00	9 (earlier version)
22	4-008578-00	12
23	4-008575-00	6-3/4

NOTE:
Bulk extruded tubing (P/N 4-008575-00 and P/N 4-008578-00) is available in multiples of one-foot lengths. The minimum order is 10 feet.



2-00480

Figure 0-10. Pneumatic Chassis Assembly Tubing Diagram for External Exhalation Valves

D.10 Pneumatic Chassis Fittings for External Exhalation Valves

Table 0-10: Pneumatic Chassis Assembly Fitting Parts List for Units with External Exhalation Valves

Item Number (Figure 0-11)	Part Number	Description
1	4-019409-00	Tee assembly, 1/8 x 1/8 x 3/16
2	4-019407-00	Restrictor, 0.126 ID (safety valve pilot) [R1]
2A	4-019407-00	Restrictor, 0.126 ID (P2 inlet damping) [R5]
3	4-003891-00	Tee, barb, nylon, white
4	4-019424-00	Restrictor, 0.0160 ID (safety valve pilot) [R2]
5	4-019485-00	Restrictor, variable [R3]
6	4-019130-00	Jet venturi assembly, peep [JV]
7	4-002441-00	Ball, 0.1875 actual, nylon
8	4-011905-00	Filter, bacteria (pilot pressure) [F7]
8A	4-011905-00	Filter, bacteria (damping restrictor) [F8]
9	4-000630-00	Connector, tee
10	4-011413-00	Capacitor assembly, air [AC]
11	4-000314-00	Restrictor, 0.020 ID, gold (damping) [R4]
12	4-019410-00	Tee assembly, 3/16 x 1/8 x 3/16
13	4-019413-00	Manifold (earlier version)

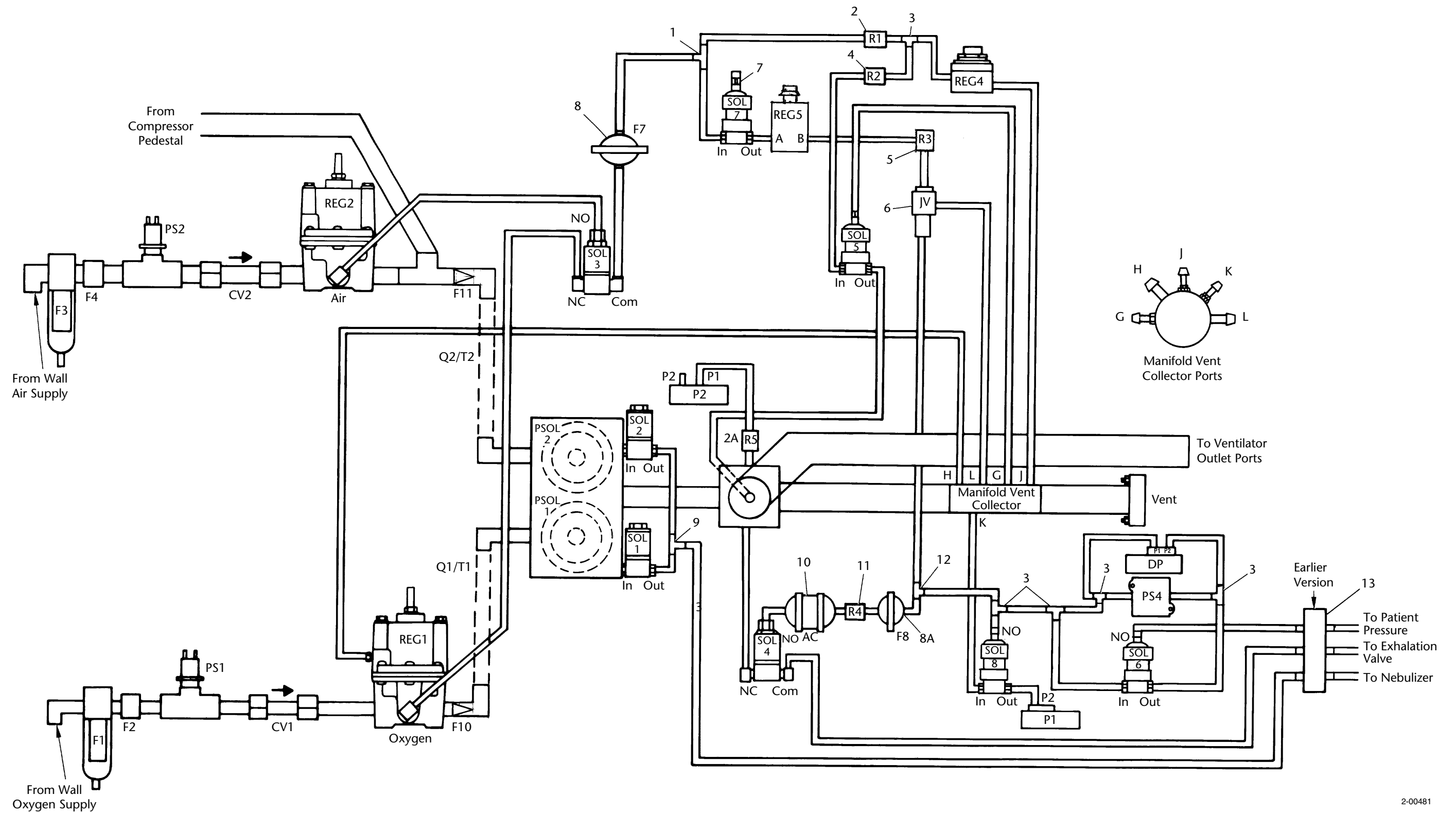


Figure 0-11. Pneumatic Chassis Assembly Fitting Diagram for External Exhalation Valves

D.11 Pneumatic Chassis Tubing for Internal Exhalation Valves

Table 0-11: Pneumatic Chassis Assembly Tubing Parts List for Units with Internal Exhalation Valves

Item Number (Figure 0-12)	Made from Part Number	Length in Inches
1	4-008575-00	14-5/8
2	4-008575-00	11-1/2
3	4-008575-00	4
4	4-008575-00	1-1/2
5	4-008578-00	6
6	4-008578-00	2-3/4
7	4-008578-00	10
8	4-008578-00	3-1/2
9	4-008578-00	2
10	4-008575-00	3
11	4-008578-00	13
12	4-008575-00	9-1/2
13	4-008578-00	9
14	4-008578-00	5
15	4-008575-00	5-1/2 (earlier version)
16	4-008578-00	1
17	4-008578-00	6 (earlier version)
18	4-008578-00	20 (later version)
19	4-008575-00	23 (later version)
20	4-008575-00	13 (later version)
21	4-008578-00	11-1/4
22	4-008578-00	9 (earlier version)
23	4-008575-00	9-1/2 (earlier version)
24	4-008575-00	6-3/4; 4 in earlier version
25	4-008575-00	10
26	4-008578-00	11-3/4
27	4-008575-00	6-3/4

NOTE:
Bulk extruded tubing (P/N 4-008575-00 and P/N 4-008578-00) is available in multiples of one-foot lengths. The minimum order is 10 feet.

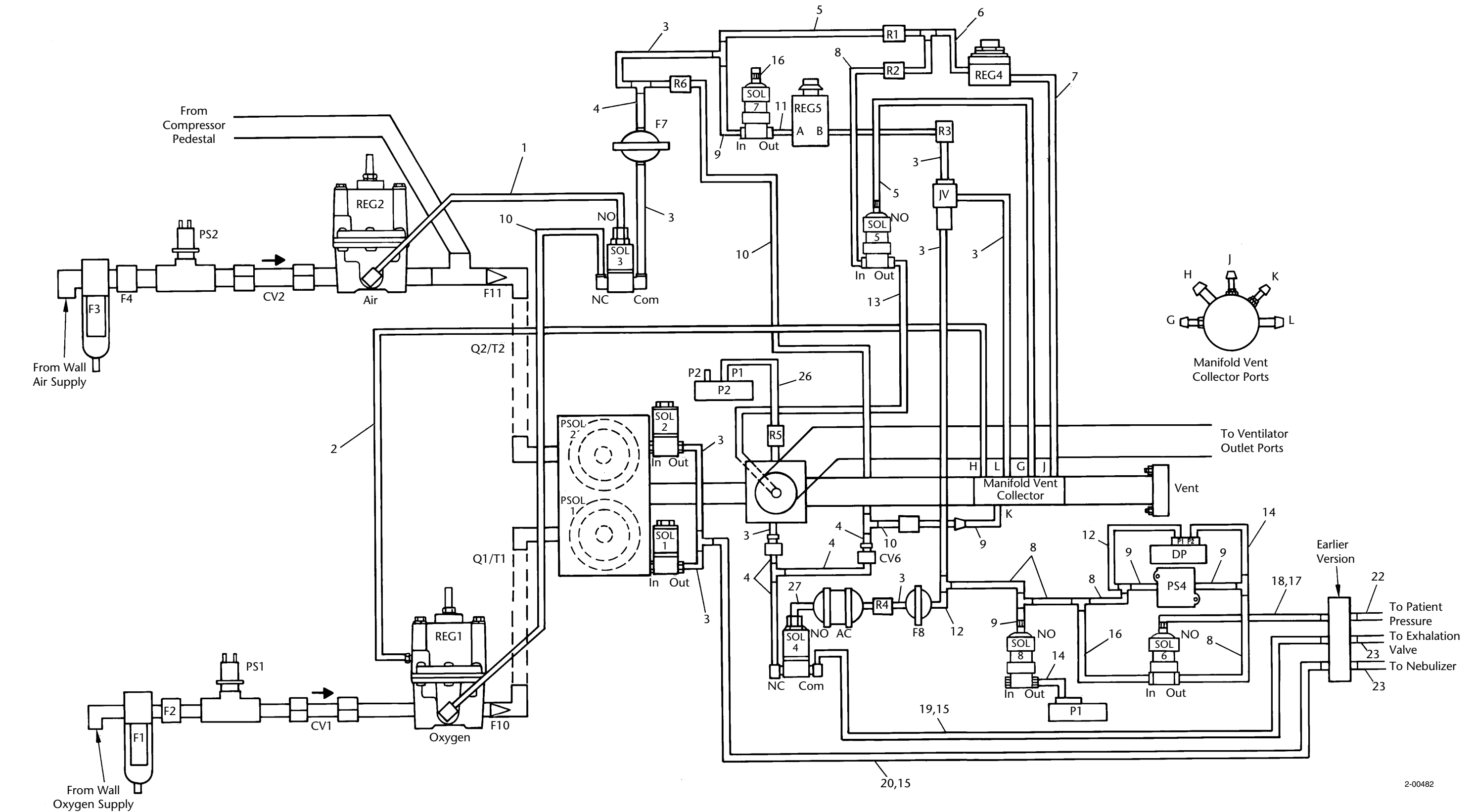
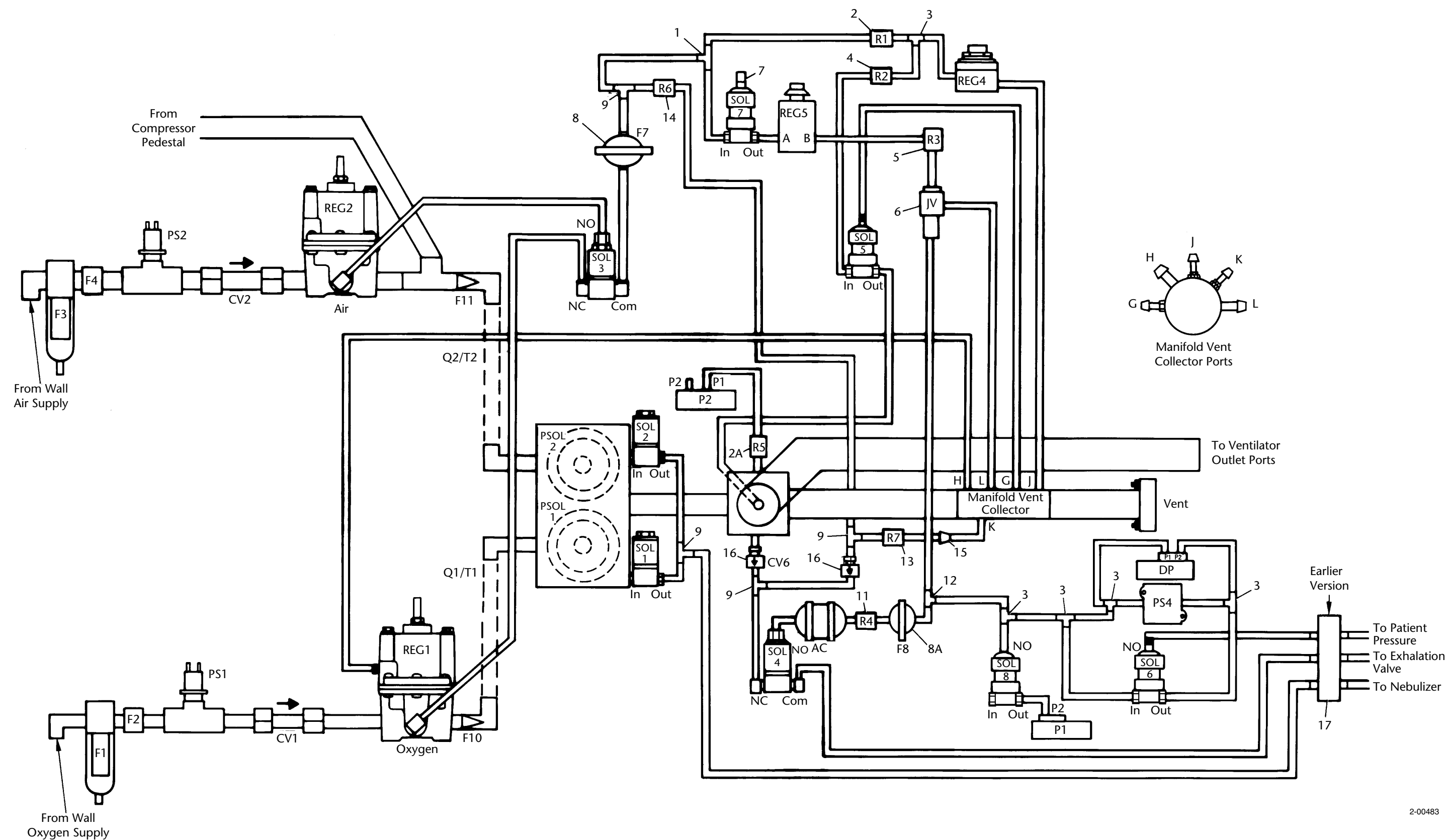


Figure 0-12. Pneumatic Chassis Assembly
Tubing Diagram for Internal Exhalation Valves

D.12 Pneumatic Chassis Fittings for Internal Exhalation Valves

Table 0-12: Pneumatic Chassis Assembly Fitting Parts List for Units with Internal Exhalation Valves

Item Number (Figure 0-13)	Part Number	Description
1	4-019409-00	Tee assembly, 1/8 x 1/8 x 3/16
2	4-019407-00	Restrictor, 0.126 ID (safety valve pilot) [R1]
2A	4-019407-00	Restrictor, 0.126 ID (P2 inlet damping) [R5]
3	4-003891-00	Tee, barb, nylon, white
4	4-019424-00	Restrictor, 0.0160 ID (safety valve pilot) [R2]
5	4-019485-00	Restrictor, variable [R3]
6	4-019130-00	Jet venturi assembly, PEEP/CPAP [JV]
7	4-002441-00	Ball, 0.1875 actual, nylon
8	4-011905-00	Filter, bacteria (pilot pressure) [F7]
8A	4-011905-00	Filter, bacteria (damping restrictor) [F8]
9	4-000630-00	Connector, tee
10	4-011413-00	Capacitor assembly, air [AC]
11	4-000314-00	Restrictor, 0.020 ID, gold (damping) [R4]
12	4-019410-00	Tee assembly, 3/16 x 1/8 x 3/16
13	4-002754-00	Restrictor, 7/32 DIA, 0.0350 ID, green (exhalation pilot pressure) [R7]
14	4-006822-00	Restrictor, 0.0125 ID, blue (exhalation pilot pressure) [R6]
15	4-006104-00	Connector
16	--	Valve assembly, check, exhalation pilot pressure [CV6/CV7] (Not stocked. Order an exhalation pilot pressure kit (P/N 4-018290-00) (Figure D-14).)
17	4-019413-00	Manifold (earlier version)



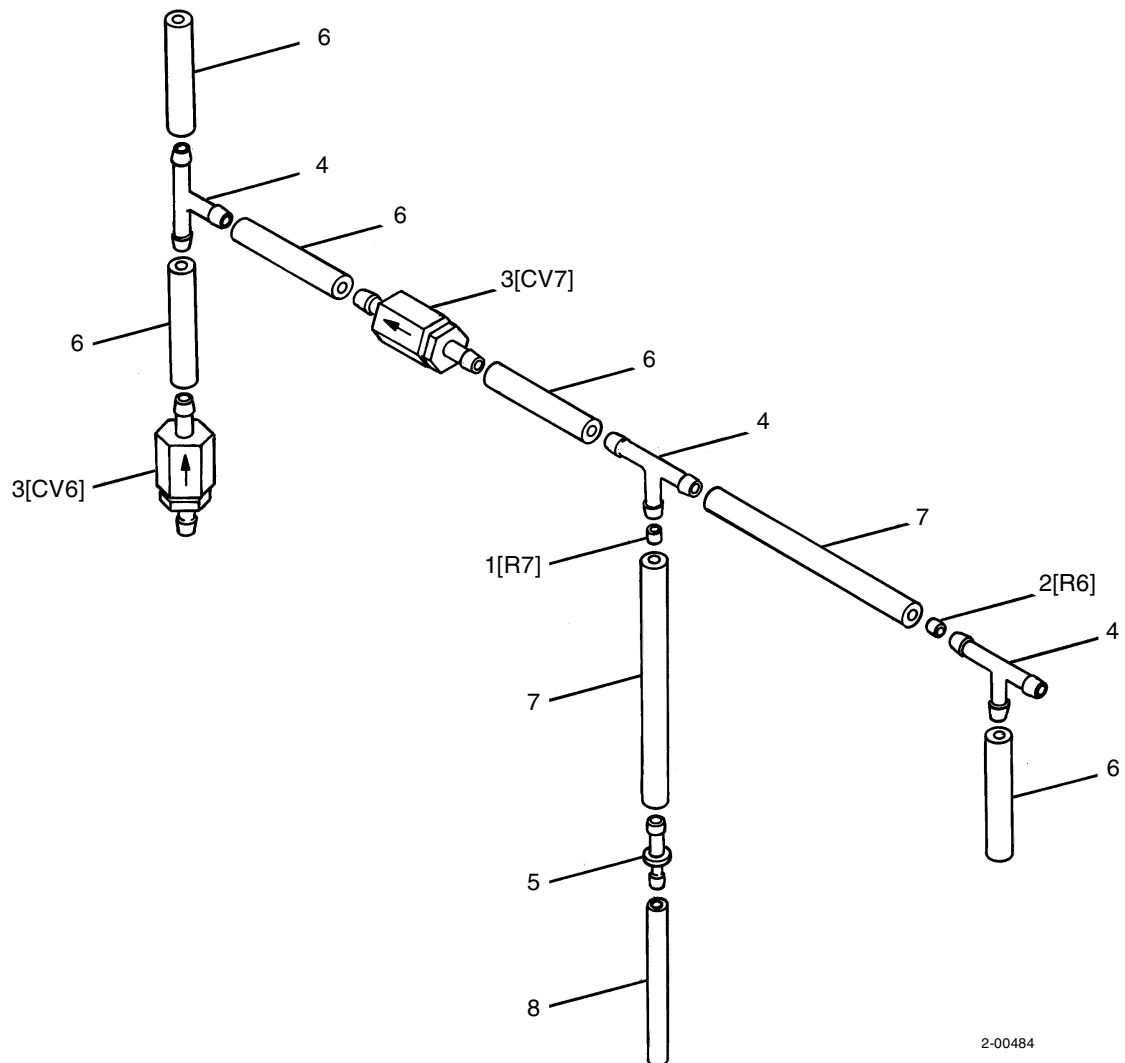
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Figure 0-13. Pneumatic Chassis Assembly Fitting Diagram for Internal Exhalation Valves

D.13 Exhalation Pilot Pressure Kit

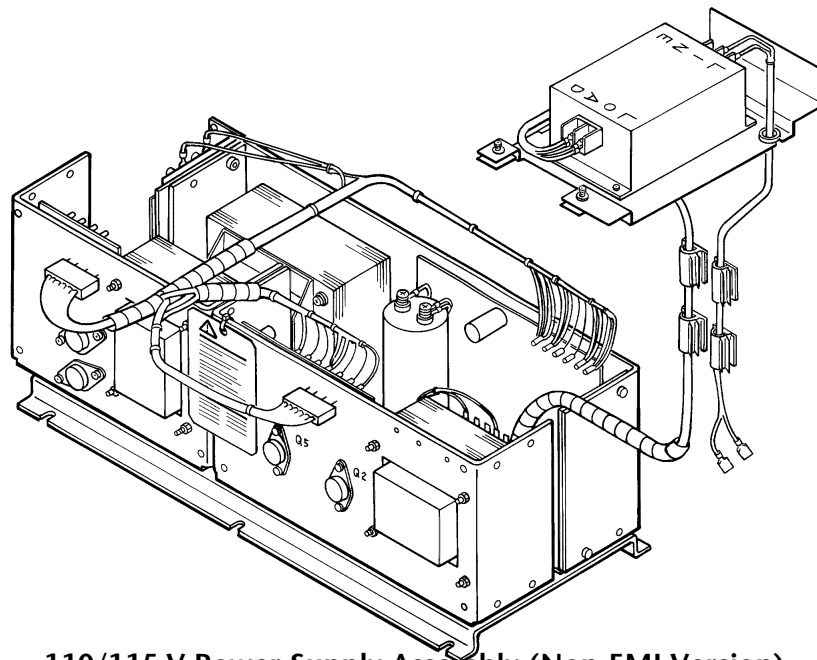
Table 0-13: Exhalation Pilot Pressure Kit Parts List

Item Number (Figure D-14)	Part Number	Description
--	4-018290-00	Exhalation pilot pressure kit
1	4-002754-00	Restrictor, 7/32 DIA, 0.0350 ID, green (exhalation pilot pressure) [R7]
2	4-006822-00	Restrictor, 0.0125 ID, blue (exhalation pilot pressure) [R6]
3	--	Valve assembly, check, exhalation pilot pressure [CV6/CV7] (Not stocked. Order an exhalation pilot pressure kit (P/N 4-018290-00).)
4	4-000630-00	Connector, tee
5	4-006104-00	Connector
6	4-008575-00	Tube, extruded, 3/16 ID x 3/8 OD, 1.5 inches long (Bulk tubing. Available in multiples of one-foot lengths (minimum order 10 feet).)
7	4-008575-00	Tube, extruded, 3/16 ID x 3/8 OD, 3 inches long (Bulk tubing. Available in multiples of one-foot lengths (minimum order 10 feet).)
8	4-008578-00	Tube, extruded, 1/8 ID x 1/4 OD, 2 inches long (Bulk tubing. Available in multiples of one-foot lengths (minimum order 10 feet).)

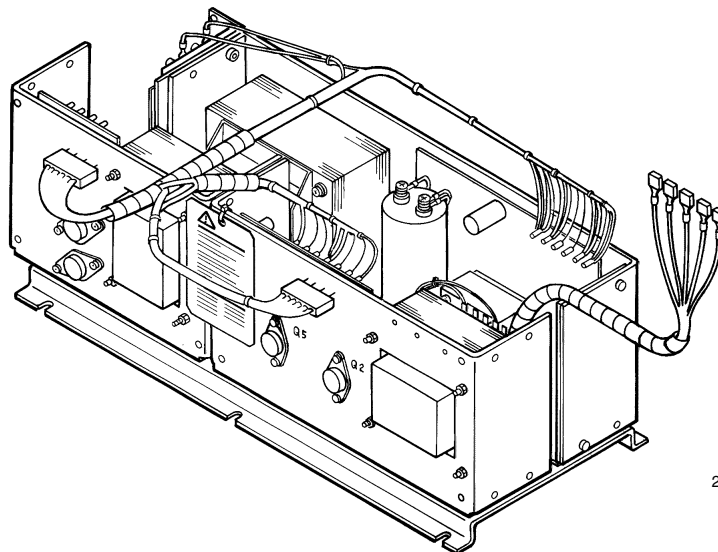
**Figure D-14. Exhalation Pilot Pressure Kit**

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Power Supply Assembly



**110/115 V Power Supply Assembly (Non-EMI Version)
(Shown with External Surge Suppressor)**



2-00485

220/240 V Power Supply Assembly (EMI Version)

Figure E-1. Power Supply Assemblies

E.1 100/115 V Power Supply Assembly

Table E-1: 100/115 V Power Supply Assembly Parts List

Item Number (Figure E-2)	Part Number	Description
--	4-019567-00	Power supply assembly, 100 V 50 Hz, non-EMI (new)
	4-019565-00	Power supply assembly, 100 V 60 Hz, non-EMI (new)
	4-019299-00	Power supply assembly, 115 V 60 Hz, non-EMI (new)
1	4-020017-00	Label, WARNING, fire hazard, fuse, English
	4-020102-00	Label, WARNING, fire hazard, fuse, French
	4-020103-00	Label, WARNING, fire hazard, fuse, Spanish
2	4-020259-00	Label, fuse rating, 100 V 50 Hz
	4-020001-00	Label, fuse rating, 100/115 V 60 Hz
3	--	Suppressor assembly, line voltage, 100/115 V (Not stocked. Order a line voltage suppressor kit (item 4))
4	4-018300-00	Suppressor kit, line voltage, 100/115 V
5	--	Suppressor, line voltage, 120 V (Not stocked. Order a line voltage suppressor kit (item 4))
6	4-018304-00	Harness assembly, interconnect (LOAD) (Included with suppressor kit, but used with earlier version power supply only.)
7	4-018305-00	Harness assembly, line suppressor (LINE)
8	4-018306-00	Bracket, suppressor
9	4-018307-00	Clamp, suppressor bracket
10	4-007737-00	Screw, PAN, 4-40 x 5/16, ZC PL, Long-Lok
11	4-005829-00	Screw, PAN, 6-32 x 1/2, ZC PL
12	4-009885-00	Grommet, NPRN, 3/8 ID x 21/32 OD
13	4-005775-00	Washer, flat, #4, ZC PL
14	4-006057-00	Washer, flat, #6, SST
15	4-005760-00	Clip, wire
16	4-005761-00	Clip, wire
17	4-004994-00	Molding, plastic, 4 inches long (Bulk item. Available in multiples of one-foot lengths, minimum order 10 feet.)
18	4-018308-00	Harness assembly, ac, long (later version)
19	4-019241-00	Harness assembly, ac, short (earlier version)
19A	--	Shield bead, ferrite (later version). (Not stocked. Order an ac harness assembly (item 19))
20	4-019240-00	Harness assembly, dc
21	--	Base, power supply (Not stocked. Order the appropriate power supply assembly listed above.)

Table E-1: 100/115 V Power Supply Assembly Parts List (continued)

Item Number (Figure E-2)	Part Number	Description
22	--	Holder, fuse, four-cartridge (Not stocked. Order the appropriate power supply assembly listed above.)
23	--	Plate, fuse holder (Not stocked. Order the appropriate power supply assembly listed above.)
24	4-001056-00	Washer, EX LK, #6, ZC PL
25	4-000281-00	Screw, PAN, 6-32 x 5/16, ZC PL
26	4-000278-00	Screw, PAN, 6-32 x 3/16, ZC PL
27	--	Plate, mounting, power fail monitor module (Not stocked. Order the appropriate power supply assembly listed above.)
28	4-002771-00	Washer, EX LK #8, ZC PL
29	4-001555-00	Nut, HEX, 8-32, ZC PL
30	4-018063-00	Module assembly, power fail monitor, 100 V (Not shown.)
31	--	Module, power fail monitor, 100 V (Not stocked. Order a power fail monitor module assembly (item 30)
32	4-030230-00	Fuse, 1/4 A, 3AG, slo-blo (100 V configurations)
33	4-018721-00	Module assembly, power fail monitor, 115 V (Not shown.)
34	--	Module, power fail monitor, 115 V (Not stocked. Order a power fail monitor module assembly (item 33)
35	4-030230-00	Fuse, 1/4 A, 3AG, slo-blo (115 V configurations)
36	4-018066-00	Module assembly, ± 15 V (Not shown.). (Includes one each of items 37-39, and four of item 40.)
37	--	Module, ± 15 V (Not stocked. Order a ± 15 V module assembly (item 36)
38	4-030266-00	Fuse, 2 A, 3AG, slo-blo (100/115 V 60 Hz configurations)
39	4-030383-00	Fuse, 2-1/2 A, 3AG, slo-blo (100 V 50 Hz configurations)
40	4-009798-00	Bolt, HEX, #12, self-tapping, ZC PL
41	4-018065-00	Module assembly, +12 V (Not shown.). (Includes one each of items 42 and 43, and four of item 44.)
42	--	Module, +12 V (Not stocked. Order a +12 V module assembly (item 41)
43	4-030266-00	Fuse, 2A, 3AG, slo-blo
44	4-009798-00	Bolt, HEX, #12, self-tapping, ZC PL

Table E-1: 100/115 V Power Supply Assembly Parts List (continued)

Item Number (Figure E-2)	Part Number	Description
45	4-018064-00	Module assembly, +5 V (Not shown.). (Includes one each of items 46 and 47, and four of item 48.)
46	--	Module, +5 V (Not stocked. Order a +5 V module assembly (item 45))
47	4-030265-00	Fuse, 3 A, 3AG, slo-blo
48	4-009798-00	Bolt, HEX, #12, self-tapping, ZC PL
49	4-001171-00	Screw, PAN, 8-32 x 1/4, ZC PL
50	4-022370-00	Tag, CAUTION, fuse replacement
51	4-000003-00	Cable tie, small
52	4-019541-00	Label, PROM/fuse ID, 1/4 A 250 V (attached to fuse holder). (Not shown.)

E.2 220/240 V Power Supply Assembly

Table E-2: 220/240 V Power Supply Assembly Parts List

Item Number (Figure E-3)	Part Number	Description
--	4-021008-00	Power supply assembly, 220 V 50/60 Hz, EMI (new)
	4-021009-00	Power supply assembly, 240 V 50 Hz, EMI (new)
	4-019560-00	Power supply assembly, 220 V 50 Hz, non-EMI (new)
	4-019523-00	Power supply assembly, 220 V 60 Hz, non-EMI (new)
	4-019566-00	Power supply assembly, 240 V 50 Hz, non-EMI (new)
1	4-020017-00	Label, WARNING, fire hazard, fuse, English
	4-020102-00	Label, WARNING, fire hazard, fuse, French
	4-020110-00	Label, WARNING, fire hazard, fuse, German
	4-022037-00	Label, WARNING, fire hazard, fuse, Italian
	4-020103-00	Label, WARNING, fire hazard, fuse, Spanish
2	4-020260-00	Label, fuse rating, 220/240 V 50 Hz
	4-020055-00	Label, fuse rating, 220 V 60 Hz
	4-022366-00	Label, fuse rating, 220/240 V 50 Hz, 220 V 60 Hz
3	--	Suppressor assembly, line voltage, 220/240 V. (Not stocked. Order a 220/240 V line voltage suppressor kit (item 4))
4	4-018301-00	Suppressor kit, line voltage, 220/240 V
5	--	Suppressor, line voltage, 240 V (Not stocked. Order a suppressor kit (item 4))
6	4-018312-00	Harness assembly, interconnect (LOAD)
7	4-018313-00	Harness assembly, line suppressor (LINE)
8	4-018306-00	Bracket, suppressor
9	4-018307-00	Clamp, suppressor bracket
10	4-001171-00	Screw, PAN, 8-32 x 1/4, ZC PL
11	4-005829-00	Screw, PAN, 6-32 x 1/2, ZC PL, Long-Lok
12	4-009885-00	Grommet, NPRN, 3/8 ID x 21/32 OD
13	4-006327-00	Lockwasher, SR, #8, ZC PL
14	4-006057-00	Washer, flat, #6, SST
15	4-005620-00	Spacer, round, 1/4 OD x 0.141 ID, 5/16 inch long
16	4-018294-00	Strip, marker
17	4-009423-00	Screw, PAN, 6-32 x 7/8, ZC PL
18	4-001785-00	Washer, IN LK, #6, ZC PL
19	4-019469-00	Insulation, terminal block
20	4-030424-00	Block, terminal

Table E-2: 220/240 V Power Supply Assembly Parts List (continued)

Item Number (Figure E-3)	Part Number	Description
21	4-004994-00	Molding, plastic, 4 inches long (Bulk item. Available in multiples of one-foot lengths, minimum order 10 feet)
22	4-018304-00	Harness assembly, interconnect (suppressor load). (Included with suppressor kit, but used with later version only.)
23	4-005760-00	Clip, wire
24	4-005761-00	Clip, wire
25	4-018292-00	Splice, butt
26	4-019241-00	Harness assembly, ac, short (latest, later, and earlier versions) (non-EMI configurations)
26A	--	Shield bead, ferrite (later version). (Not stocked. Order a harness assembly (item 26))
27	4-018308-00	Harness assembly, ac, long (intermediate version and later exchange version) (non-EMI configurations)
28	4-019240-00	Harness assembly, dc
29	--	Base, power supply (Not stocked. Order the appropriate power supply assembly listed above.)
30	--	Holder, fuse, four-cartridge (Not stocked. Order the appropriate power supply assembly listed above.)
31	--	Plate, fuse holder (Not stocked. Order the appropriate power supply assembly listed above.)
32	4-001056-00	Washer, EX LK, #6, ZC PL
33	4-000281-00	Screw, PAN, 6-32 x 5/16, ZC PL
34	4-000278-00	Screw, PAN, 6-32 x 3/16, ZC PL
35	--	Plate, mounting, power fail monitor module (Not stocked. Order the appropriate power supply assembly listed above.)
36	4-002771-00	Washer, EX LK, #8, ZC PL
37	4-001555-00	Nut, HEX, 8-32, ZC PL
38	4-018722-00	Module assembly, power fail monitor, 220 V (Not shown.)
39	--	Module, power fail monitor, 220 V (Not stocked. Order a 220 V power fail monitor module assembly (item 38))
40	4-030356-00	Fuse, 1/8 A, 3AG, slo-blo (220 V configurations)
41	4-018723-00	Module assembly, power fail monitor, 240 V (Not shown.)
42	--	Module, power fail monitor, 240 V (Not stocked. Order a power fail monitor module assembly (item 41))
43	4-030356-00	Fuse, 1/8 A, 3AG, slo-blo (240 V configurations)

Table E-2: 220/240 V Power Supply Assembly Parts List (continued)

Item Number (Figure E-3)	Part Number	Description
44	4-018066-00	Module assembly, ± 15 V (Not shown) (Includes one each of items 45-47, and four of item 48)
45	--	Module, ± 15 V (Not stocked. Order a ± 15 V module assembly (item 44)
46	4-030357-00	Fuse, 1 A, 3AG, slo-blo (220 V 60 Hz configurations)
47	4-030382-00	Fuse, 1-1/4 A, 3AG, slo-blo (220/240 V 50 Hz configurations)
48	4-009798-00	Bolt, HEX, #12, self-tapping, ZC PL
49	4-018065-00	Module assembly, +12 V (Not shown.). (Includes one each of items 50 and 51, and four of item 52.)
50	--	Module, +12 V (Not stocked. Order a +12 V module assembly (item 49)
51	4-030357-00	Fuse, 1 A, 3AG, slo-blo
52	4-009798-00	Bolt, HEX, #12, self-tapping, ZC PL
53	4-018064-00	Module assembly, +5 V (Not shown. Includes one each of items 54 and 55, and four of item 56.)
54	--	Module, +5 V (Not stocked. Order a +5 V module assembly (item 53)
55	4-030358-00	Fuse, 1-1/2 A, 3AG, slo-blo
56	4-009798-00	Bolt, HEX, #12, self-tapping, ZC PL
57	4-001171-00	Screw, PAN, 8-32 x 1/4, ZC PL
58	4-018304-00	Harness assembly, interconnect (suppressor load) (later version)
59	4-022370-00	Tag, CAUTION, fuse replacement
60	4-000003-00	Cable tie, small
61	4-030230-00	Fuse, 1/4 A, 3 AG, slo-blo (Used in ± 15 V modules only.) (Not shown.)
62	--	Isolation transformer (Used in 80188-based units with EMI power supplies only.) (Not stocked. Order the appropriate power supply assembly listed above.)
63	4-016141-00	Bracket, transformer (Used in 80188-based units with EMI power supplies only.)
64	4-016142-00	Nut, HEX, 6-32, self-locking, SST
65	4-000810-00	Screw, flat, 6-32 x 1/2, ZC PL
66	4-016140-00	Harness assembly, ac, EMI (latest version) (EMI configuration)
67	4-019541-00	Label, PROM/fuse ID, 1/4 A 250 V (attached to fuse holder). (Not shown.)

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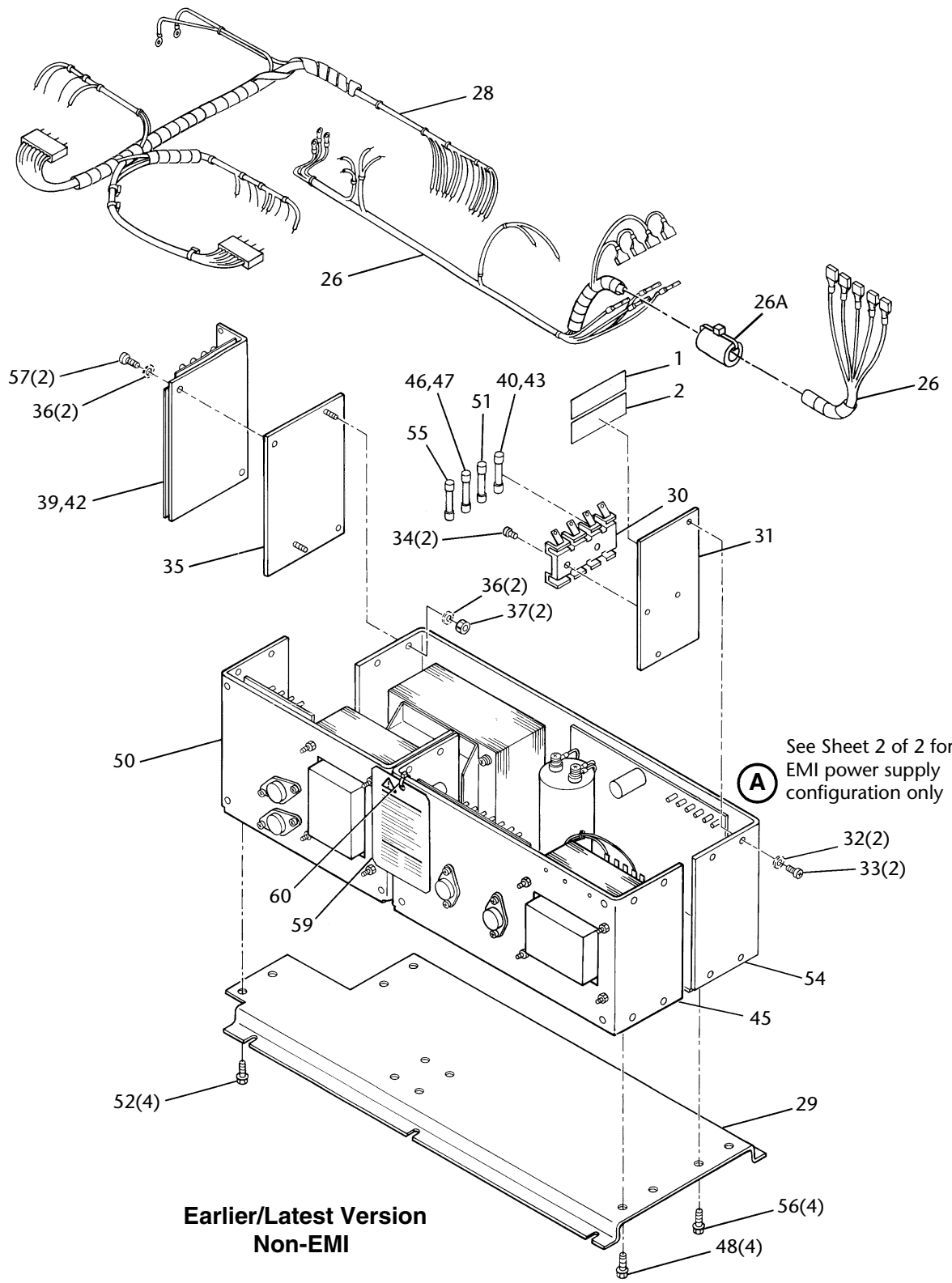
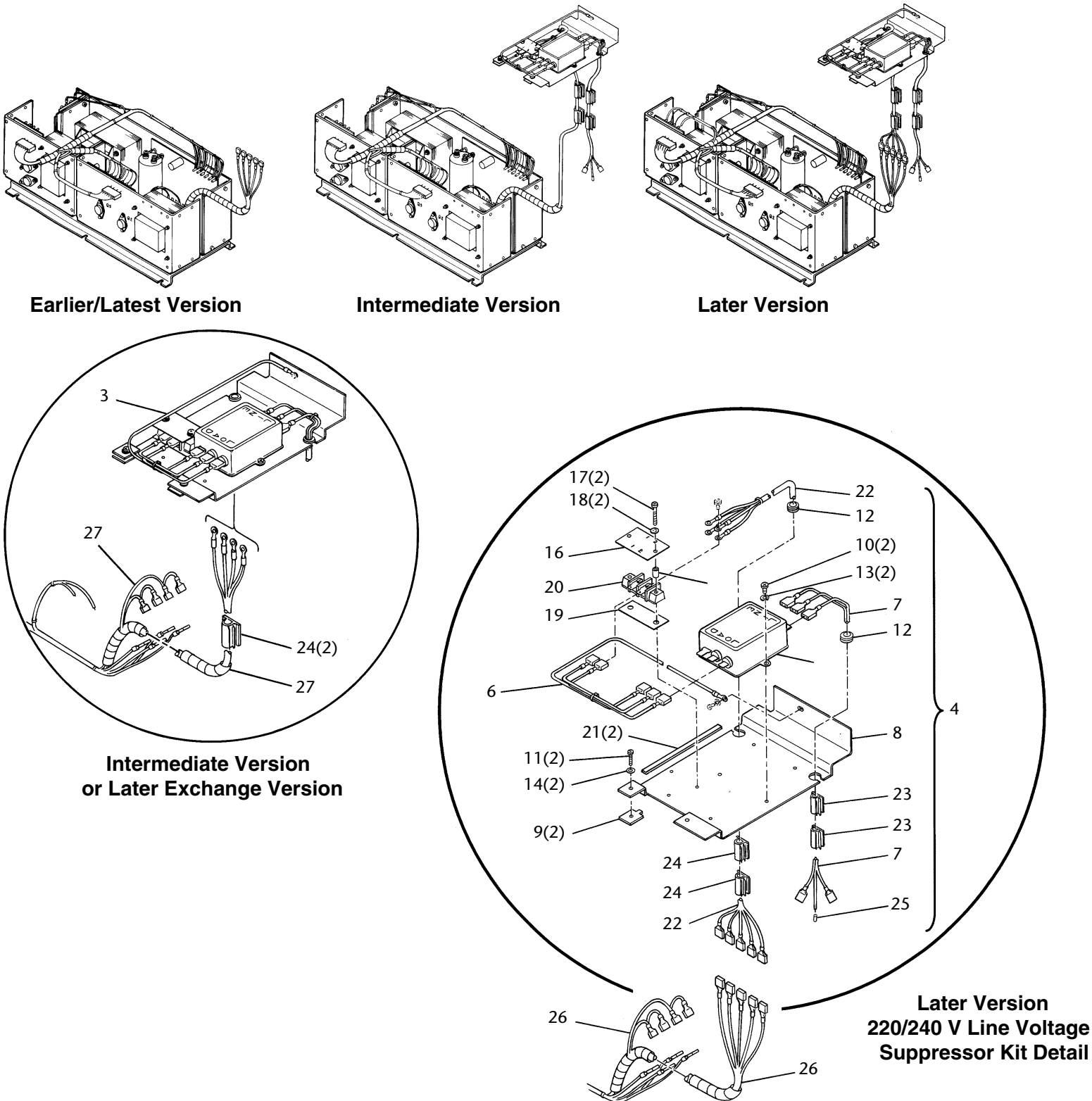
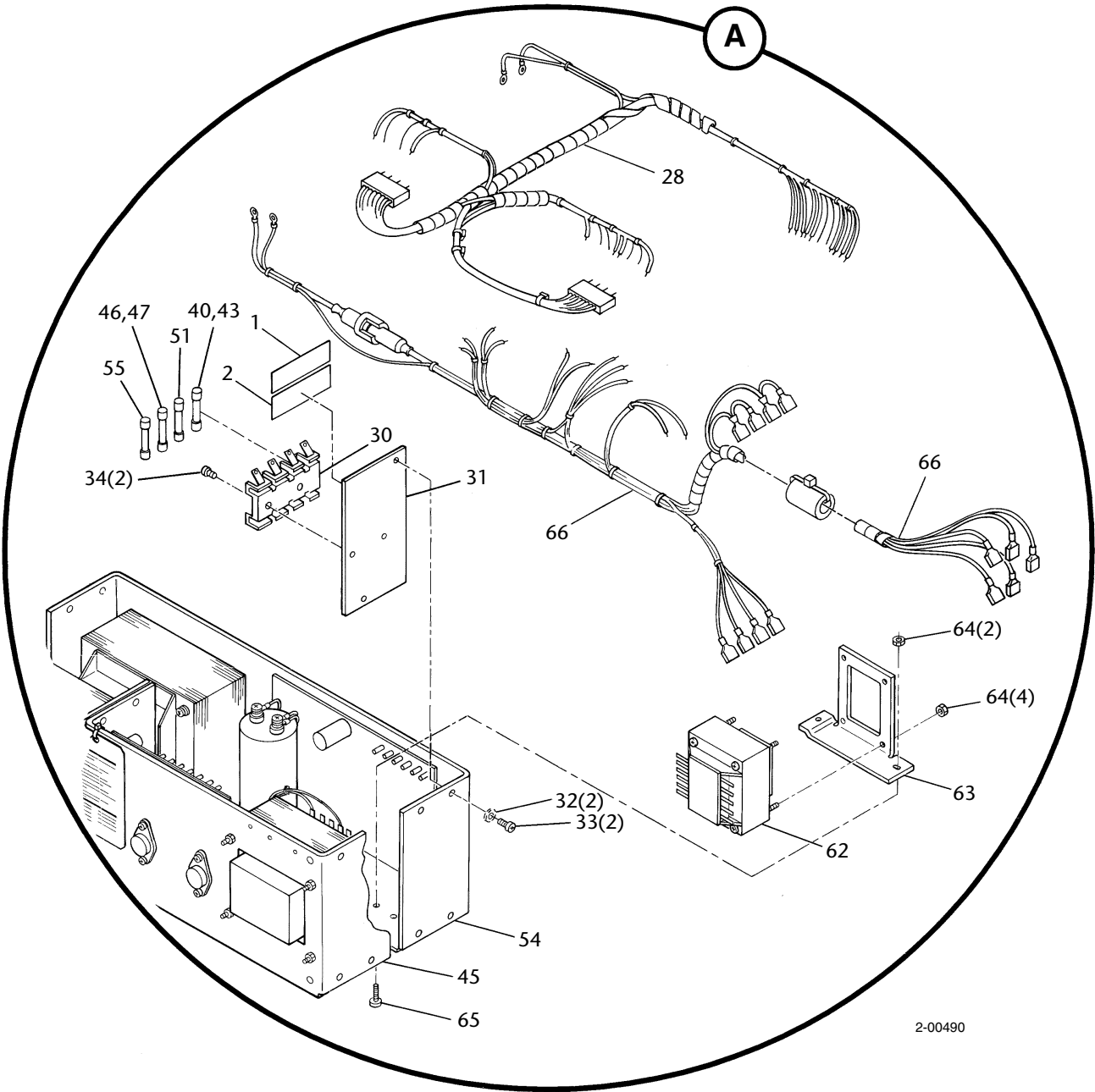


Figure 5-3. 220/240 V Power Supply Assembly (Sheet 1 of 2)

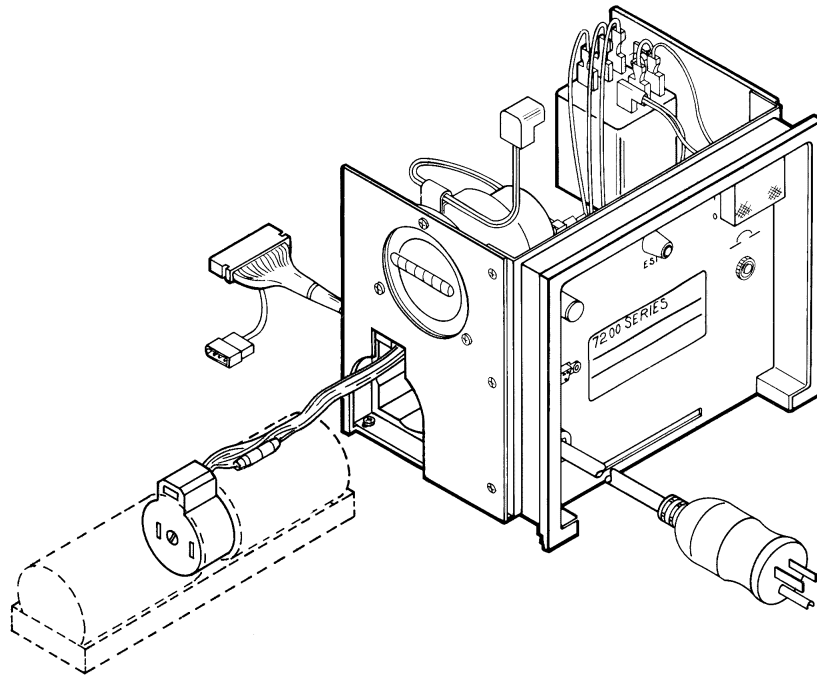


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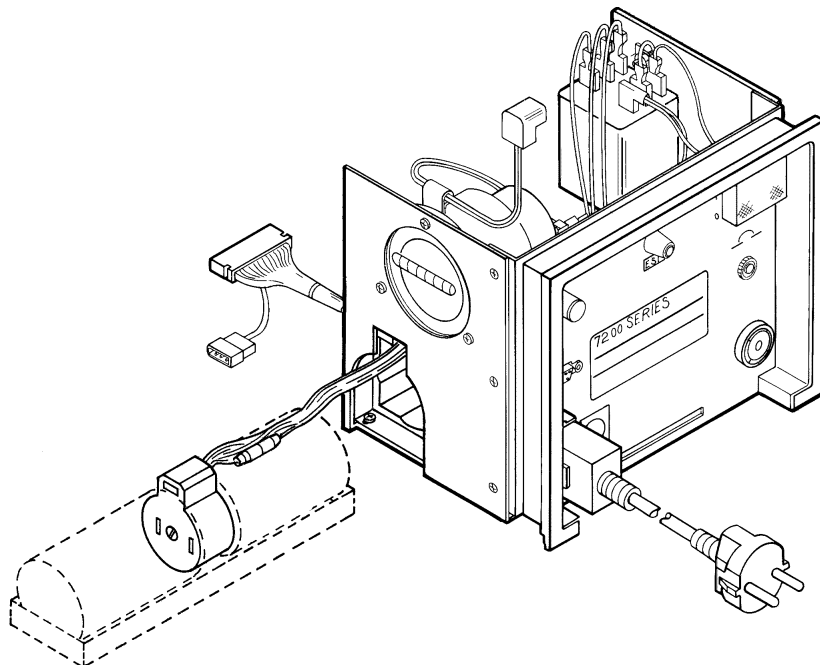
EMI Power Supply Configuration
(Latest Version Only)

Figure E-3. 220/240 V Power Supply Assembly (Sheet 2 of 2)

Utility Panel Assembly



100/115 V and 220/240 V (Non-EMI Version)



220/240 V (EMI Version)

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Figure F-1. Utility Panel Assemblies

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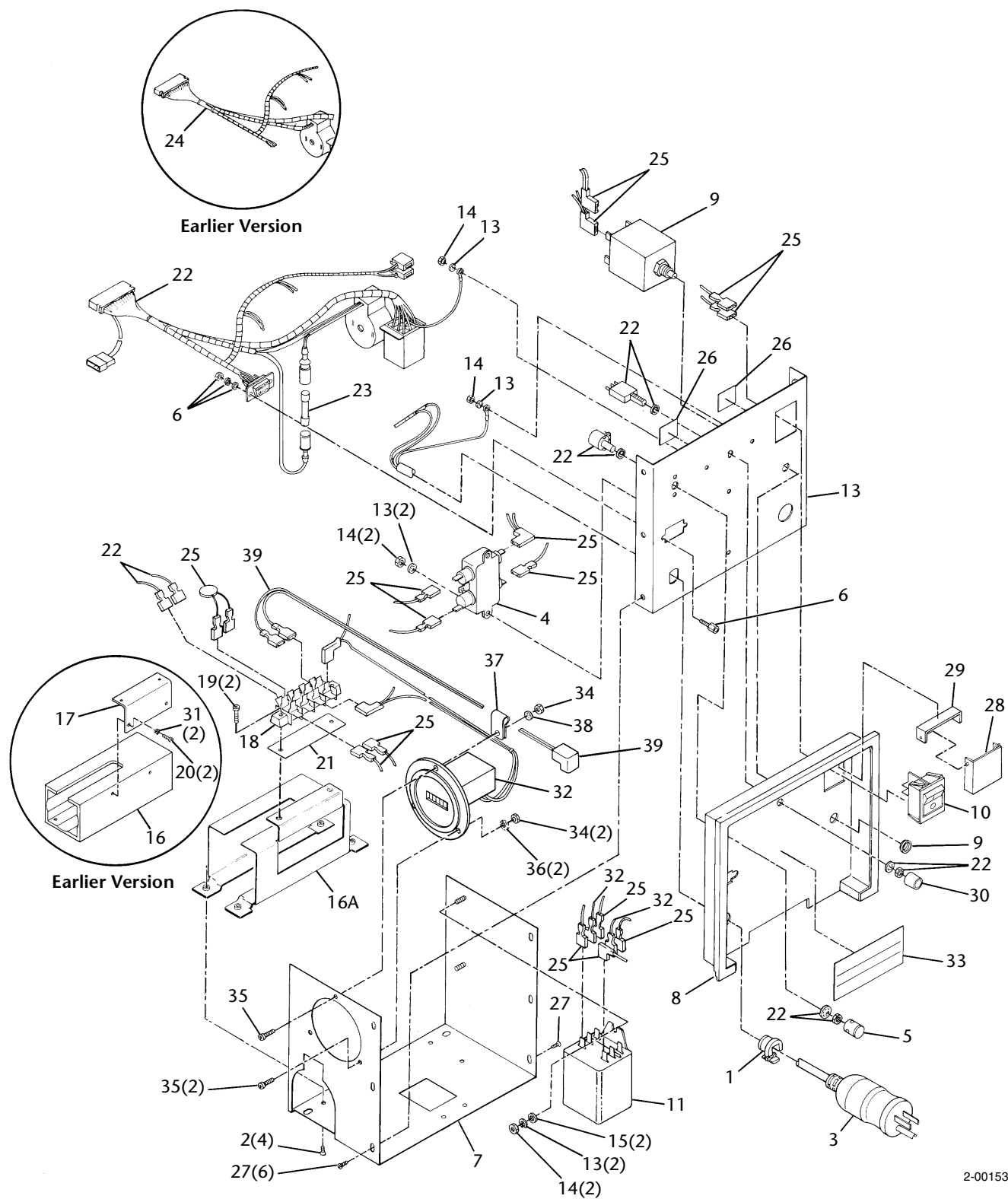
F.1 100/115 V and Earlier (Non-EMI) 220/240 V Utility Panel Assembly

Table F-1: 100/115 V and Earlier (Non-EMI) 220/240 V Utility Panel Assembly Parts List

Item Number (Figure F-2)	Part Number	Description
--	4-019190-00	Utility panel assembly, 115 V (Includes all items below except items 32 through 39.)
	4-019533-00	Utility panel assembly, 100 V (Includes all items below except items 32 through 39.)
	--	Utility panel assembly, 220/240 V, earlier (Not stocked. Order the individual component parts or a 220/240 V EMI utility panel assembly (P/N 4-019569-00) (Figure F-3).)
1	4-000674-00	Strain relief
2	4-000698-00	Screw, flat, 4-40 x 3/16, CR PL
3	4-019345-00	Cord assembly, electrical, ventilator (Cord assembly configuration may vary. Consult your Puritan Bennett representative in the applicable country.)
4	4-013613-00	Filter, power line
5	4-019128-00	Knob, alarm volume
6	4-019152-00	Screwlock assembly, female
7	4-019192-00	Bracket, utility panel mounting
8	4-018287-00	Utility panel cover, 100/115 V, earlier 220/240 V
9	4-030229-00	Circuit breaker, 120 V, 8 A
	4-030354-00	Circuit breaker, 240 V, 5 A
10	4-012411-00	Switch, power
11	4-030364-00	Relay, ventilator power, 100 V
	4-030070-00	Relay, ventilator power, 115 V
	4-030071-00	Relay, ventilator power, 240 V
12	4-019402-00	Bracket, utility panel front
13	4-001785-00	Washer, IN LK, #6, ZC PL
14	4-000890-00	Nut, HEX, 6-32, machine screw, ZC PL
15	4-002955-00	Washer, flat, #6, brass, ZC PL
16	--	Case, battery (earlier version). (Not stocked. Order item 16A.)
16A	4-018734-00	Case, battery (later version)
17	--	Bracket, utility panel (Not stocked. Order a battery case (item 16A).)
18	4-030017-00	Block, terminal
19	4-005831-00	Screw, PAN, 6-32 x 1/2, ZC PL
20	4-001041-00	Screw, PAN, 8-32 x 3/8, ZC PL (Used only with earlier version battery cases (item 16).)
21	4-019219-00	Insulation, fish paper, gray
22	4-019239-00	Harness assembly, utility panel (later version)
23	4-013934-00	Fuse, 1/2 A

Table F-1: 100/115 V and Earlier (Non-EMI) 220/240 V Utility Panel Assembly Parts List (continued)

Item Number (Figure F-2)	Part Number	Description
24	--	Harness assembly, utility panel (earlier version). (Not stocked. Order a utility panel harness assembly (item 22).)
25	4-023757-00	Wire kit, ac, 100/115 V and earlier (Non-EMI) 220/240 V utility panel
26	4-020033-00	Label, protective earth ground symbol
27	4-007580-00	Screw, flat, 6-32 x 1/4
28	4-018068-00	Cover, switch
29	4-018069-00	Bracket, switch cover (Used only with earlier version utility panel covers (item 8).)
30	4-018358-00	Nut, dress
31	4-006327-00	Lockwasher, SR, #8, ZC PL (Used only with earlier version battery cases (item 16).)
32	4-019568-00	Elapsed time meter, ventilator, 100 V 50 Hz
	4-019346-00	Elapsed time meter, ventilator, 100/115 V 60 Hz
	4-019347-00	Elapsed time meter, ventilator, 220 V 50 Hz
	4-018732-00	Elapsed time meter, ventilator, 220/240 V 60 Hz
33	4-020411-00	Label, electrical rating, 100 V 50 Hz, English
	4-020412-00	Label, electrical rating, 100 V 60 Hz, Japanese
	4-020022-00	Label, electrical rating, 115 V 60 Hz, English
	4-020416-00	Label, electrical rating, 115 V 60 Hz, French
	4-020418-00	Label, electrical rating, 115 V 60 Hz, Spanish
	4-020417-00	Label, electrical rating, 220 V 50 Hz, English
	4-023581-00	Label, electrical rating, 220 V 50 Hz, German
	4-020415-00	Label, electrical rating, 220 V 50 Hz, Spanish
	4-020452-00	Label, electrical rating, 220 V 60 Hz, English
	4-020410-00	Label, electrical rating, 240 V 50 Hz, English
34	4-000890-00	Nut, HEX, 6-32, machine screw, ZC PL
35	4-005831-00	Screw, PAN, 6-32 x 1/2, ZC PL
36	4-001056-00	Washer, EX LK, #6, ZC PL
37	4-001829-00	Strap, cable, 5/16 ID
38	4-001785-00	Washer, IN LK, #6, ZC PL
39	4-019436-00	Cord assembly, fan, 20.0 inches long
40	4-007844-00	Tag, non-EMI ventilator (attached to power cord). (Not shown.)
41	4-011335-00	Label, City of Los Angeles (COLA), 115 V English (ventilator left side panel). (Not shown.)



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Figure F-2. 100/115 V and Earlier 220/240 V Utility Panel Assembly

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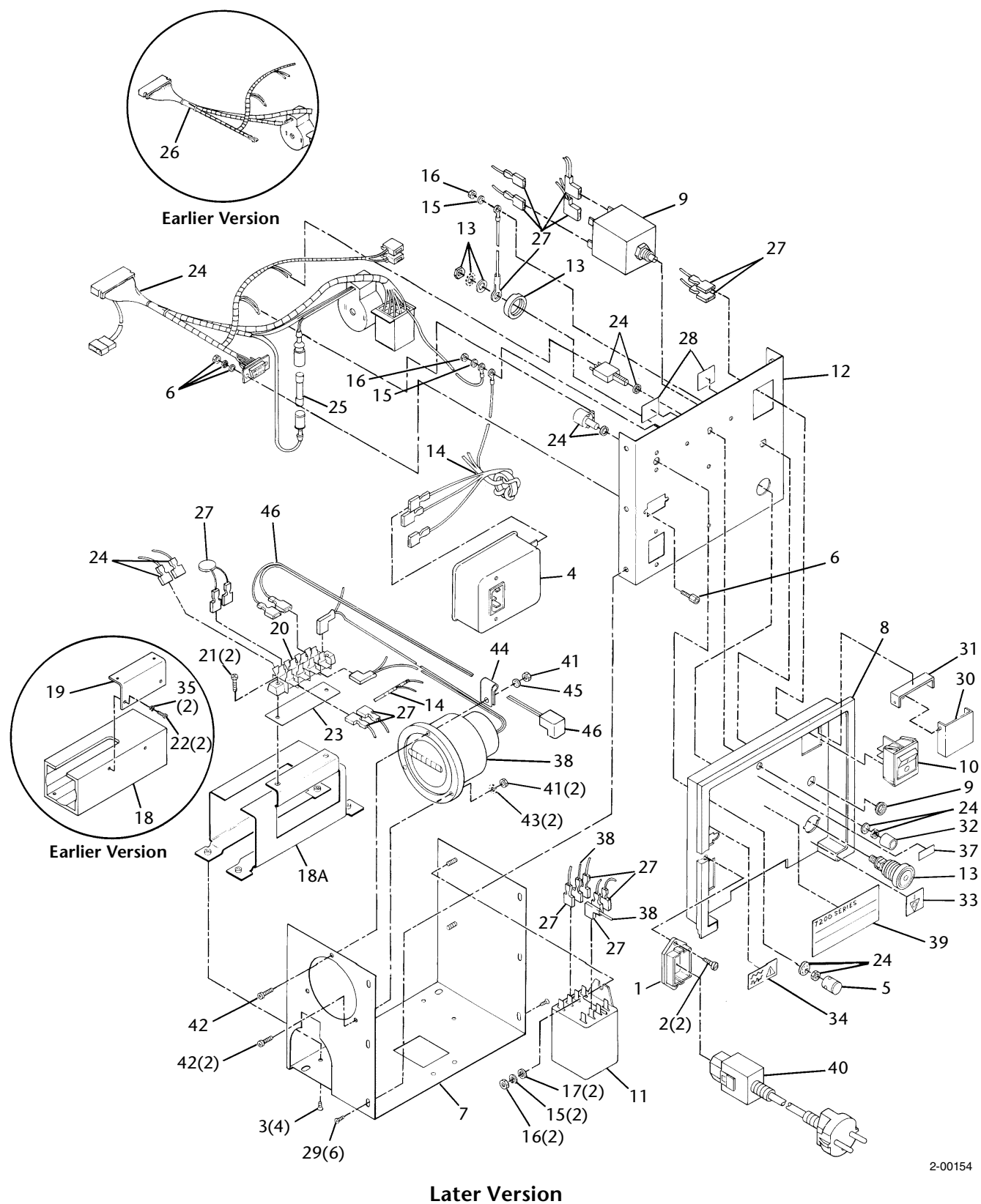
F.2 220/240 V (EMI) Utility Panel Assembly

Table F-2: 220/240 V (EMI) Utility Panel Assembly Parts List

Item Number (Figure F-3)	Part Number	Description
--	4-019569-00	Utility panel assembly, 220/240 V, EMI (Includes all items below except items 36 through 46.)
1	4-018169-00	Mount, inside, modified
2	4-018334-00	Screw, cheese, M4 x 0.07, NI PL
3	4-000698-00	Screw, flat, 4-40 x 3/16, CR PL
4	4-018103-00	Filter receptacle, line voltage (surge suppressor)
5	4-019128-00	Knob, alarm volume
6	4-019152-00	Screwlock assembly, female
7	4-019192-00	Bracket, utility panel mounting
8	4-018288-00	Utility panel cover, 220/240 V, EMI
9	4-030354-00	Circuit breaker, 240 V, 5 A
10	4-012411-00	Switch, power
11	4-030071-00	Relay, ventilator power, 240 V
12	4-018102-00	Bracket, utility panel front
13	4-011192-00	Connector, potential balance
14	4-018329-00	Harness assembly, ac, EMI
15	4-001785-00	Washer, IN LK, #6, ZC PL
16	4-000890-00	Nut, HEX, 6-32, machine screw, ZC PL
17	4-002955-00	Washer, flat, #6, brass, ZC PL
18	--	Case, battery (earlier version). (Not stocked. Order item 18A.)
18A	4-018734-00	Case, battery (later version)
19	--	Bracket, utility panel (Not stocked. Order a battery case (item 18A).)
20	4-030017-00	Block, terminal
21	4-005831-00	Screw, PAN, 6-32 x 1/2, ZC PL
22	4-001041-00	Screw, PAN, 8-32 x 3/8, ZC PL (Used only with earlier version battery cases (item 18).)
23	4-019219-00	Insulation, fish paper, gray
24	4-019239-00	Harness assembly, utility panel (later version)
25	4-013934-00	Fuse, 1/4 A
26	--	Harness assembly, utility panel (earlier version). (Not stocked. Order a utility panel harness assembly (item 24).)
27	4-023758-00	Wire kit, ac, EMI utility panel
28	4-020033-00	Label, protective earth ground symbol

Table F-2: 220/240 V (EMI) Utility Panel Assembly Parts List (continued)

Item Number (Figure F-3)	Part Number	Description
29	4-007580-00	Screw, flat, 6-32 x 1/4
30	4-018068-00	Cover, switch
31	4-018069-00	Bracket, switch cover (Used only with earlier version utility panel covers (item 8).)
32	4-018358-00	Nut, dress
33	4-020470-00	Label, electrical ground symbol
34	4-020542-00	Label, analog/consult documentation symbol
35	4-006327-00	Lockwasher, SR, #8, ZC PL (Used only with earlier version battery cases (item 18).)
36	--	(Not available.)
37	4-020474-00	Label, ATG (French and Spanish 220 V configurations)
38	4-019347-00	Elapsed time meter, ventilator, 220 V 50 Hz
	4-018732-00	Elapsed time meter, ventilator, 220/240 V 60 Hz
39	4-020417-00	Label, electrical rating, 220 V 50 Hz, English
	4-023581-00	Label, electrical rating, 220 V 50 Hz, German
	4-022027-00	Label, electrical rating, 220 V 50 Hz, Italian
	4-020415-00	Label, electrical rating, 220 V 50 Hz, Spanish
	4-020452-00	Label, electrical rating, 220 V 60 Hz, English
	4-020410-00	Label, electrical rating, 240 V 50 Hz, English
40	4-018104-00	Cord set, standard western European (Cord set configuration may vary. Consult your Puritan Bennett representative in the applicable country.)
41	4-000890-00	Nut, HEX, 6-32, machine screw, ZC PL
42	4-005831-00	Screw, PAN, 6-32 x 1/2, ZC PL
43	4-001056-00	Washer, EX LK, #6, ZC PL
44	4-001829-00	Strap, cable, 5/16 ID
45	4-001785-00	Washer, IN LK, #6, ZC PL
46	4-019436-00	Cord assembly, fan, 20.0 inches long

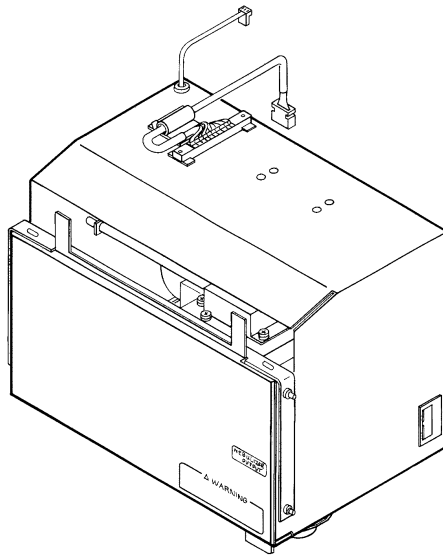


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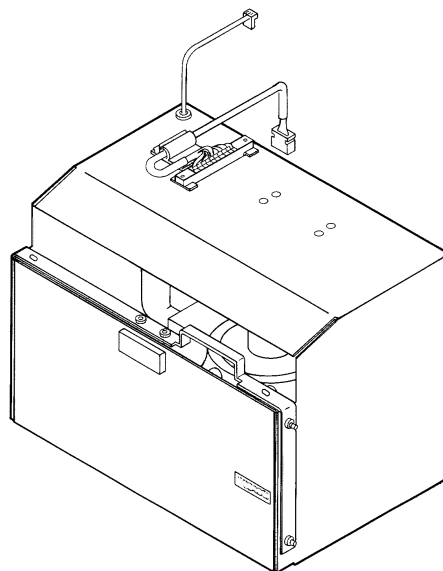
Figure F-3. 220/240 V (EMI) Utility Panel Assembly

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Exhalation Compartment Assembly



Bottom-Loading Version



Front-Loading Version

2-00492

Figure G-1. Exhalation Compartment Assemblies

G.1 Bottom-Loading Exhalation Compartment Assemblies

G.1.1 Bottom-Loading Exhalation Compartment Assembly with Internal Exhalation Valve

Table G-1: Bottom-Loading Exhalation Compartment Assembly with Internal Exhalation Valve Parts List

Item Number (Figure G-2)	Part Number	Description
--	--	Exhalation compartment assembly, bottom-loading, internal exhalation valve (100/115 V configurations). (Not stocked. Order the individual component parts.)
--	--	Exhalation compartment assembly, bottom-loading, internal exhalation valve, EMI (220/240 V configurations). (Not stocked. Order the individual component parts.)
1	4-018229-00	Panel, exhalation compartment front (100/115 V configurations)
	4-018239-00	Panel, exhalation compartment front, EMI (220/240 V configurations)
2	4-022124-00	Label, WARNING, exhalation filter, English/Japanese/Saudi
	4-022160-00	Label, WARNING, exhalation filter, French
	4-022170-00	Label, WARNING, exhalation filter, German
	4-022171-00	Label, WARNING, exhalation filter, Italian
	4-022172-00	Label, WARNING, exhalation filter, Spanish
3	4-020389-00	Label, NEBULIZER OUTPUT, internal, English/Japanese/Saudi
	4-020113-00	Label, NEBULIZER OUTPUT, internal, German
	4-022034-00	Label, NEBULIZER OUTPUT, internal, Italian
	4-020115-00	Label, NEBULIZER OUTPUT, internal, Spanish
4	4-000297-00	Screw, PAN, 6-32 x 3/8, ZC PL
5	4-001785-00	Washer, IN LK, #6, ZC PL
6	4-018241-00	Bracket, console mounting
7	4-009885-00	Grommet, NPRN, 3/8 ID x 21/32 OD
8	4-018371-00	Filter/heater assembly, bottom-loading, 100 V
	4-018230-00	Filter/heater assembly, bottom-loading, 115 V
	4-018231-00	Filter/heater assembly, bottom-loading, 220/240 V
9	4-020559-00	Label, WARNING/rating, filter heater, English, 100 V (Japanese configurations)
	4-020554-00	Label, WARNING/rating, filter heater, English, 115 V
	4-020556-00	Label, WARNING/rating, filter heater, French, 115 V
	4-020557-00	Label, WARNING/rating, filter heater, Spanish, 115 V
	4-020560-00	Label, WARNING/rating, filter heater, English/Saudi, 220/240 V
	4-020579-00	Label, WARNING/rating, filter heater, French, 220 V
	4-020555-00	Label, WARNING/rating, filter heater, German, 220 V
	4-022035-00	Label, WARNING/rating, filter heater, Italian, 220 V

Table G-1: Bottom-Loading Exhalation Compartment Assembly with Internal Exhalation Valve Parts List

Item Number (Figure G-2)	Part Number	Description
10	4-020578-00	Label, WARNING/rating, filter heater, Spanish, 220 V
	4-010793-00	Filter, bacteria, single-patient use (SPU) (case of 12)
	4-006308-00	Filter, bacteria, OmniFilter
11	4-018221-00	Plate, exhalation compartment bottom (100/115 V configurations)
	4-018235-00	Plate, exhalation compartment bottom, EMI (220/240 V configurations)
12	4-018517-00	Connector
13	4-018245-00	Valve assembly, check, exhalation, simplified circuit, bottom-loading [CV5]
14	4-018128-00	Connector, barb, 1/8 ID, nylon
15	4-018129-00	Valve assembly, exhalation
16	4-003966-00	Screw, BTN, 10-32 x 3/8, black oxide
17	4-019125-00	Washer, EX LK, #10, black oxide
18	4-018240-00	Clamp, filter installation
19	4-018238-00	Retainer, check valve
20	--	(Not applicable.)
21	4-020717-00	Connector, elbow
22	4-005732-00	Connector, tube junction
23	4-018256-00	Sensor, exhalation [Q3/T3], with EPROM
24	4-018516-00	Spacer, connector, male
25	4-010712-00	Audio alarm kit, continuous (includes alarm and harness; replaces all previous versions of continuous tone alarm kits)
	4-018049-00	Audio alarm kit, pulsed (includes alarm, harness, and pulsed alarm PCB; replaces all previous versions of pulsed alarm kits)
26	--	(Not applicable.)
27	--	(Not applicable.)
28	--	(Not applicable.)
29	4-006962-00	Screw, FIL, 4-40 x 1/4, ZC PL
30	4-007566-00	Lockwasher, SR, #4, ZC PL
31	4-006969-00	Washer, RND, #4, STL
32	4-007660-00	Nut, HEX, 10-32, self-locking, ZC PL
33	4-000780-00	Nut, HEX, 4-40, machine screw, ZC PL
34	4-007727-00	Stud, self-clinching, 4-40 x 1/2, ZC PL
35	4-006965-00	Washer, RECT, #4, STL
36	4-001829-00	Strap, cable, 5/16 ID
37	4-000281-00	Screw, PAN, 6-32 x 5/16, PH

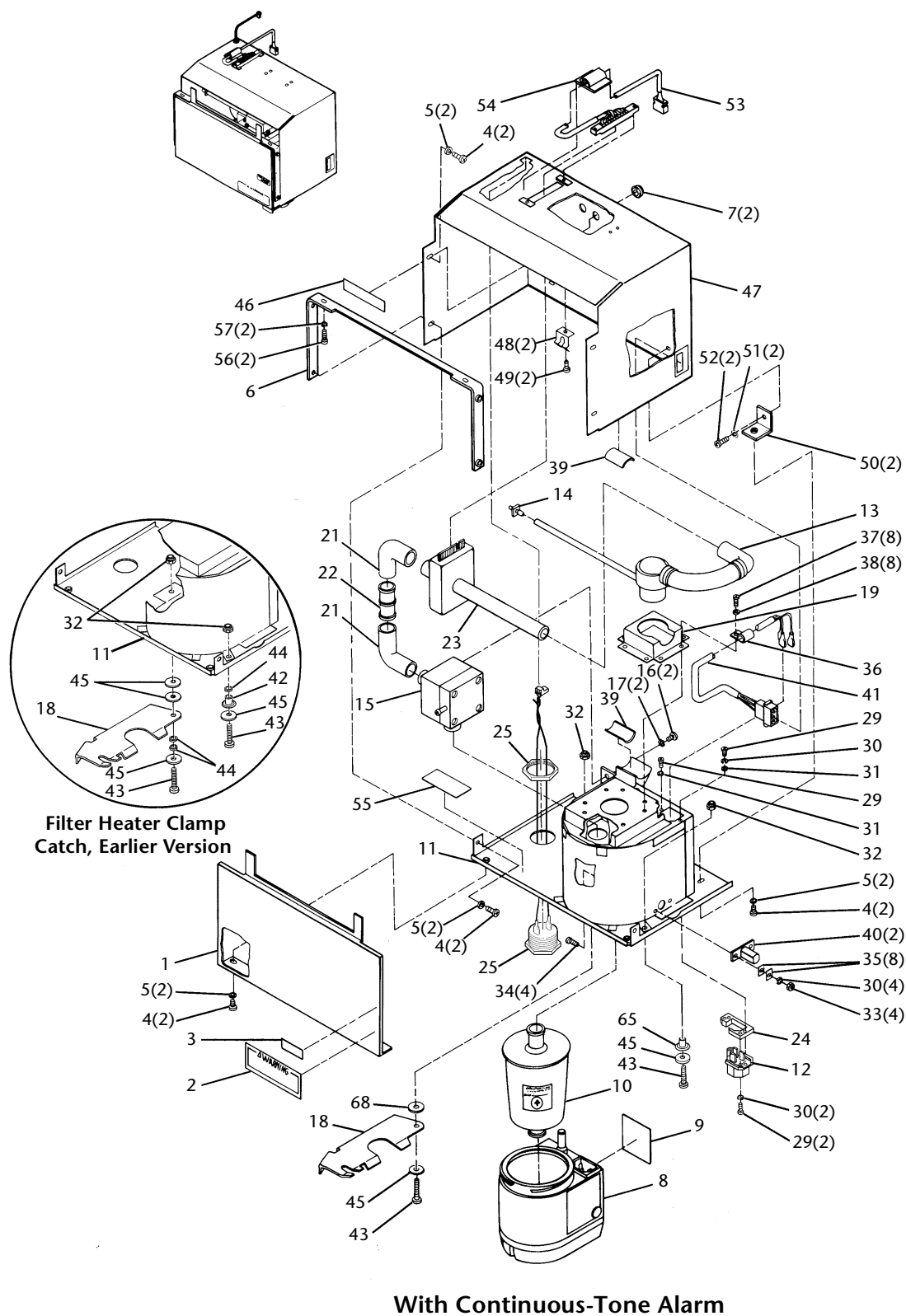
Table G-1: Bottom-Loading Exhalation Compartment Assembly with Internal Exhalation Valve Parts List

Item Number (Figure G-2)	Part Number	Description
38	4-001785-00	Washer, IN LK, #6, ZC PL
39	4-004860-00	Tape, foam, black, 0.300 (Bulk item. Available in multiples of one-foot lengths (minimum order 10 feet))
40	4-018761-00	Latch, roller
41	4-018372-00	Harness assembly, interconnect
42	--	Catch, filter heater clamp (Not stocked. Order a catch kit (item 70))
43	4-007145-00	Screw, PAN, 10-32 x 1, ZC PL
44	4-006148-00	Washer, flat, #10, STL
45	4-006144-00	Washer, flat, #10, STL
46	4-020388-00	Label, exhalation compartment, internal, English (English and Japanese configurations)
	4-020387-00	Label, exhalation compartment, internal, French
	4-020386-00	Label, exhalation compartment, internal, German
	4-022028-00	Label, exhalation compartment, internal, Italian
	4-020385-00	Label, exhalation compartment, internal, Spanish
47	4-018249-00	Panel, inside bottom-loading exhalation compartment
48	4-019360-00	Spring, transducer ground
49	4-007737-00	Screw, PAN, 4-40 x 5/16, ZC PL, Long-Lok
50	4-018232-00	Bracket, bottom plate
51	4-001138-00	Washer, IN LK, #8, ZC PL
52	4-001171-00	Screw, PAN, 8-32 x 1/4, ZC PL
53	4-019232-00	Harness assembly, exhalation transducer
54	4-005761-00	Clip, wire
55	4-022067-00	Label, CAUTION, exhalation compartment, English (English and Japanese configurations)
	4-022080-00	Label, CAUTION, exhalation compartment, French
	4-022081-00	Label, CAUTION, exhalation compartment, German
	4-022082-00	Label, CAUTION, exhalation compartment, Italian
	4-022083-00	Label, CAUTION, exhalation compartment, Spanish
56	4-001041-00	Screw, PAN, 8-32 x 3/8, ZC PL
57	4-006327-00	Lockwasher, SR, #8, ZC PL
58	--	(Not applicable.)
59	--	(Not applicable.)
60	4-001733-00	Washer, flat, 1.500 OD x 0.032 thick
61	--	(Not applicable.)

Table G-1: Bottom-Loading Exhalation Compartment Assembly with Internal Exhalation Valve Parts List

Item Number (Figure G-2)	Part Number	Description
62	--	(Not applicable.)
63	--	(Not applicable.)
64	--	(Not applicable.)
65	Not available	Catch, filter heater clamp
66	--	(Not applicable.)
67	--	(Not applicable.)
68	4-035206-00	Washer, shoulder
69	--	(Not applicable.)
70	4-035207-00	Kit, catch, filter heater clamp (Includes one each of items 65 and 68 and two of item 32.) (Not shown.)
71	4-022384-00	Label, exhalation compartment, French 220 V (exhalation compartment front panel). (Not shown.)

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Figure G-2. Bottom-Loading Exhalation Compartment Assembly with Internal Exhalation Valve

G.1.2 Bottom-Loading Exhalation Compartment Assembly with External Exhalation Valve

Table G-2: Bottom-Loading Exhalation Compartment Assembly with External Exhalation Valve Parts List

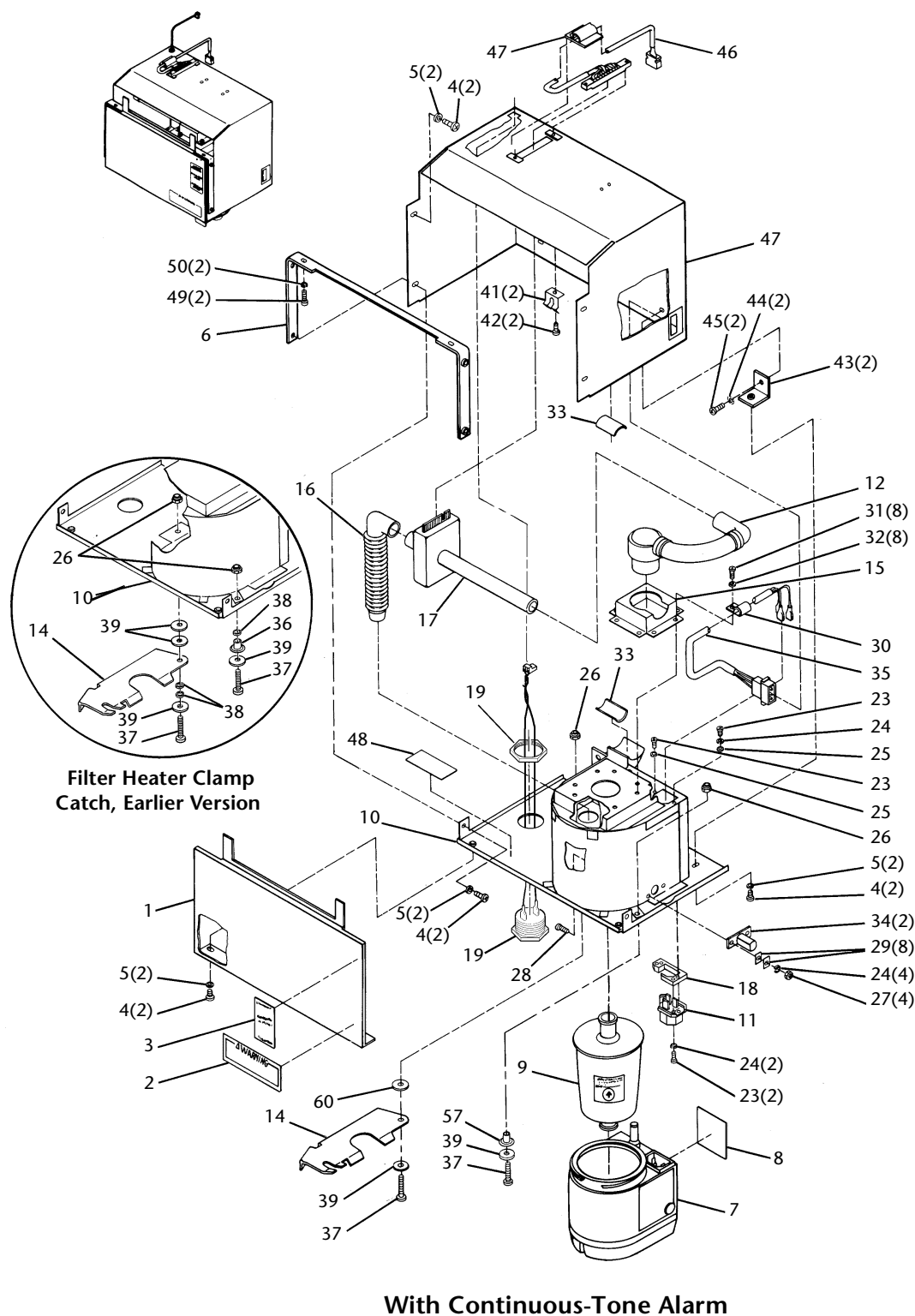
Item Number (Figure G-3)	Part Number	Description
--	--	Exhalation compartment assembly, bottom-loading, external exhalation valve (100/115 V configurations). (Not stocked. Order the individual component parts.)
1	4-018229-00	Panel, exhalation compartment front (100/115 V configurations)
2	4-022124-00	Label, WARNING, exhalation filter, English (English and Japanese configurations)
	4-022160-00	Label, WARNING, exhalation filter, French
	4-022172-00	Label, WARNING, exhalation filter, Spanish
3	4-020421-00	Label, NEBULIZER OUTPUT, external, English (English and Japanese configurations)
	4-020405-00	Label, NEBULIZER OUTPUT, external, French
4	4-000297-00	Screw, PAN, 6-32 x 3/8, ZC PL
5	4-001785-00	Washer, IN LK, #6, ZC PL
6	4-018241-00	Bracket, console mounting
7	4-018371-00	Filter/heater assembly, bottom-loading, 100 V
	4-018230-00	Filter/heater assembly, bottom-loading, 115 V
8	4-020559-00	Label, WARNING/rating, filter heater, English, 100 V (Japanese configurations)
	4-020554-00	Label, WARNING/rating, filter heater, English, 115 V
	4-020556-00	Label, WARNING/rating, filter heater, French, 115 V
9	4-010793-00	Filter, bacteria, single-patient use (SPU) (case of 12)
	4-006308-00	Filter, bacteria, OmniFilter
10	4-018221-00	Plate, exhalation compartment bottom (100/115 V configurations)
11	4-018517-00	Connector
12	4-018220-00	Valve assembly, check, exhalation, conventional circuit, bottom-loading [CV5]
13	4-000003-00	Cable tie, small
14	4-018240-00	Clamp, filter installation
15	4-018238-00	Retainer, check valve
16	4-007271-00	Tube, sidewinder
17	4-018256-00	Sensor, exhalation [Q3/T3], with EPROM (Also part of ventilator upgrade kit, P/N 4-027541-00.)
18	4-018516-00	Spacer, connector, male
19	4-010712-00	Audio alarm kit, continuous (includes alarm and harness; replaces all previous versions of continuous tone alarm kits)
	4-018049-00	Audio alarm kit, pulsed (includes alarm, harness, and pulsed alarm PCB; replaces all previous versions of pulsed alarm kits)

Table G-2: Bottom-Loading Exhalation Compartment Assembly with External Exhalation Valve Parts List

Item Number (Figure G-3)	Part Number	Description
20	--	(Not applicable.)
21	--	(Not applicable.)
22	--	(Not applicable.)
23	4-006962-00	Screw, FIL, 4-40 x 1/4, ZC PL
24	4-007566-00	Lockwasher, SR, #4, ZC PL
25	4-006969-00	Washer, RND, #4, STL
26	4-007660-00	Nut, HEX, 10-32, self-locking, ZC PL
27	4-0099-00	Nut, HEX, 4-40, machine screw, ZC PL
28	4-007727-00	Stud, self-clinching, 4-40 x 1/2, ZC PL
29	4-006965-00	Washer, RECT, #4, STL
30	4-001829-00	Strap, cable, 5/16 ID
31	4-000281-00	Screw, PAN, 6-32 x 5/16, ZC PL
32	4-001785-00	Washer, IN LK, #6, ZC PL
33	4-004860-00	Tape, foam, black, 0.300 (Bulk item. Available in multiples of one-foot lengths (minimum order 10 feet))
34	4-018761-00	Latch, roller
35	4-018372-00	Harness assembly, interconnect
36	--	Catch, filter heater clamp (Not stocked. Order a catch kit (item 62))
37	4-007145-00	Screw, PAN, 10-32 x 1, ZC PL
38	4-006148-00	Washer, flat, #10, STL
39	4-006144-00	Washer, flat, #10, STL
40	4-018249-00	Panel, inside bottom-loading exhalation compartment
41	4-019360-00	Spring, transducer ground
42	4-007737-00	Screw, PAN, 4-40 x 5/16, ZC PL, Long-Lok
43	4-018232-00	Bracket, bottom plate
44	4-001138-00	Washer, IN LK, #8, ZC PL
45	4-001171-00	Screw, PAN, 8-32 x 1/4, ZC PL
46	4-019232-00	Harness assembly, exhalation transducer
47	4-005761-00	Clip, wire
48	4-022067-00	Label, CAUTION, exhalation compartment, English (English and Japanese configurations)
	4-022080-00	Label, CAUTION, exhalation compartment, French
	4-022083-00	Label, CAUTION, exhalation compartment, Spanish
49	4-001041-00	Screw, PAN, 8-32 x 3/8, ZC PL

Table G-2: Bottom-Loading Exhalation Compartment Assembly with External Exhalation Valve Parts List

Item Number (Figure G-3)	Part Number	Description
50	4-006327-00	Lockwasher, SR, #8, ZC PL
51	--	(Not applicable.)
52	--	(Not applicable.)
53	--	(Not applicable.)
54	--	(Not applicable.)
55	--	(Not applicable.)
56	--	(Not applicable.)
57	Not available	Catch, filter heater clamp
58	--	(Not applicable.)
59	--	(Not applicable.)
60	4-035206-00	Washer, shoulder
61	--	(Not applicable.)
62	4-035207-00	Kit, catch, filter heater clamp (Includes one each of items 57 and 60 and two of item 26) (Not shown.)
63	4-022384-00	Label, exhalation compartment, French 220 V (exhalation compartment front panel). (Not shown.)



2-00155

Figure G-3. Bottom-Loading Exhalation Compartment Assembly with External Exhalation Valve

G.2 Front-Loading Exhalation Compartment Assemblies

G.2.1 Front-Loading Exhalation Compartment Assembly with Internal Exhalation Valve

Table G-3: Front-Loading Exhalation Compartment Assembly with Internal Exhalation Valve Parts List

Item Number (Figure G-4)	Part Number	Description
--	--	Exhalation compartment assembly, front-loading, internal exhalation valve (Not stocked. Order the individual component parts.)
		NOTE: If door (item 6), console mounting bracket (item 8), or inside panel (item 9) must be replaced, replace the entire exhalation compartment with a bottom-loading version (Section G.1.1).
1	4-019779-00	Filter/heater assembly, front-loading, 100 V (Includes one of item 2, two of item 3, and one of item 4)
	4-019157-00	Filter/heater assembly, front-loading, 115 V 60 Hz (Includes one of item 2, two of item 3, and one of item 4)
	4-019158-00	Filter/heater assembly, front-loading, 220/240 V (Includes one of item 2, two of item 3, and one of item 4)
2	4-000674-00	Strain relief
3	4-005914-00	Screw, PAN, 8-32 x 2, ZC PL
4	4-008968-00	Ring, locking, bacteria filter heater
5	4-010793-00	Filter, bacteria, single-patient use (SPU) (case of 12)
	4-006308-00	Filter, bacteria, OmniFilter
6	Not available	Door, exhalation compartment
7	4-019583-00	Plate, latch
8	Not available	Bracket, console mounting
9	Not available	Panel, inside front-loading exhalation compartment
10	4-005761-00	Clip, wire
11	4-018198-00	Latch assembly, exhalation compartment door
12	4-000503-00	Screw, PAN, 6-32 x 1/4, ZC PL, Long-Lok
13	--	Clamp, latch (Not stocked. Order a latch assembly (item 11))
14	--	Shaft, latch (Not stocked. Order a latch assembly (item 11))
15	4-019256-00	Ring, retaining, 0.232 ID, ZC PL
16	4-002420-00	Nut, HEX, 3/8-32, panel, ZC PL
17	4-008132-00	Washer, IN LK, 3/8, ZC PL
18	--	Pin, groove, 1/16 DIA, 1/4 inch long, ZC PL (Not stocked. Order a latch assembly (item 11))
19	--	Bushing (Not stocked. Order a latch assembly (item 11))

Table G-3: Front-Loading Exhalation Compartment Assembly with Internal Exhalation Valve Parts List

Item Number (Figure G-4)	Part Number	Description
20	--	Washer, spring, 0.365 OD (Not stocked. Order a latch assembly (item 11))
21	--	Pin, groove, 1/16 OD, 1/2 inch long, ZC PL (Not stocked. Order a latch assembly (item 11))
22	--	Handle, latch (Not stocked. Order a latch assembly (item 11))
23	4-019141-00	Bolt, shoulder, slot, 8-32
24	4-002836-00	Washer, flat, #10, nylon
25	4-004860-00	Tape, foam, black, 0.300 (Bulk item. Available in multiples of one-foot lengths (minimum order 10 feet))
26	4-019422-00	Clamp, transducer
27	4-006503-00	Screw, thumb, 8-32, NI PL
28	4-018256-00	Sensor, exhalation [Q3/T3], with EPROM
29	4-020710-00	Valve assembly, exhalation
30	--	(Not applicable.)
31	4-005732-00	Connector, tube junction
32	4-020717-00	Connector, elbow
33	4-020730-00	Valve assembly, check, exhalation, simplified circuit, front-loading [CV5]
34	4-003442-00	Clamp
35	4-019360-00	Spring, transducer ground
36	4-007737-00	Screw, PAN, 4-40 x 5/16, ZC PL, Long-Lok
37	4-003966-00	Screw, BTN, 10-32 x 3/8, black oxide
38	4-019125-00	Washer, EX LK, #10, black oxide
39	4-019232-00	Harness assembly, exhalation transducer
40	4-010712-00	Audio alarm kit, continuous (includes alarm and harness; replaces all previous versions of continuous tone alarm kits)
	4-018049-00	Audio alarm kit, pulsed (includes alarm, harness, and pulsed alarm PCB; replaces all previous versions of pulsed alarm kits)
41	--	(Not applicable.)
42	--	(Not applicable.)
43	--	(Not applicable.)
44	Not available	Bumper, door
45	Not available	Bracket, door bumper
46	4-020514-00	Label, WARNING, exhalation compartment, English (English and Japanese configurations)
	4-020515-00	Label, WARNING, exhalation compartment, French
	4-020516-00	Label, WARNING, exhalation compartment, German
	4-020518-00	Label, WARNING, exhalation compartment, Spanish

Table G-3: Front-Loading Exhalation Compartment Assembly with Internal Exhalation Valve Parts List

Item Number (Figure G-4)	Part Number	Description
47	4-020389-00	Label, NEBULIZER OUTPUT, internal, English/Japanese/Saudi
	4-020114-00	Label, NEBULIZER OUTPUT, internal, French
	4-020113-00	Label, NEBULIZER OUTPUT, internal, German
	4-020115-00	Label, NEBULIZER OUTPUT, internal, Spanish
48	4-008578-00	Tube, extruded, 1/8 ID x 1/4 OD, 4.5 inches long
49	4-020388-00	Label, exhalation compartment, internal, English (English and Japanese configurations)
	4-020387-00	Label, exhalation compartment, internal, French
	4-020386-00	Label, exhalation compartment, internal, German
	4-020385-00	Label, exhalation compartment, internal, Spanish
50	4-019406-00	Connector, patient pressure
51	4-008132-00	Washer, IN LK, 3/8, ZC PL
52	4-002420-00	Nut, HEX, 3/8-32, panel, ZC PL
53	4-007161-00	Nut, HEX, 3/8-24, panel, ZC PL
54	4-011517-00	Connector, exhalation valve
55	4-001041-00	Screw, PAN, 8-32 x 3/8, ZC PL
56	4-006327-00	Lockwasher, SR, #8, ZC PL
57	4-001171-00	Screw, PAN, 8-32 x 1/4, ZC PL
58	4-001138-00	Washer, IN LK, #8, ZC PL
59	4-000297-00	Screw, PAN, 6-32 x 3/8, ZC PL
60	4-001785-00	Washer, IN LK, #6, ZC PL
61	4-000503-00	Screw, PAN, 6-32 x 1/4, ZC PL, Long-Lok
62	4-007324-00	Screw, PAN, 6-32 x 5/8, ZC PL
63	4-006374-00	Lockwasher, SR, #6, ZC PL
64	4-022384-00	Label, exhalation compartment, French 220 V (exhalation compartment front panel). (Not shown.)

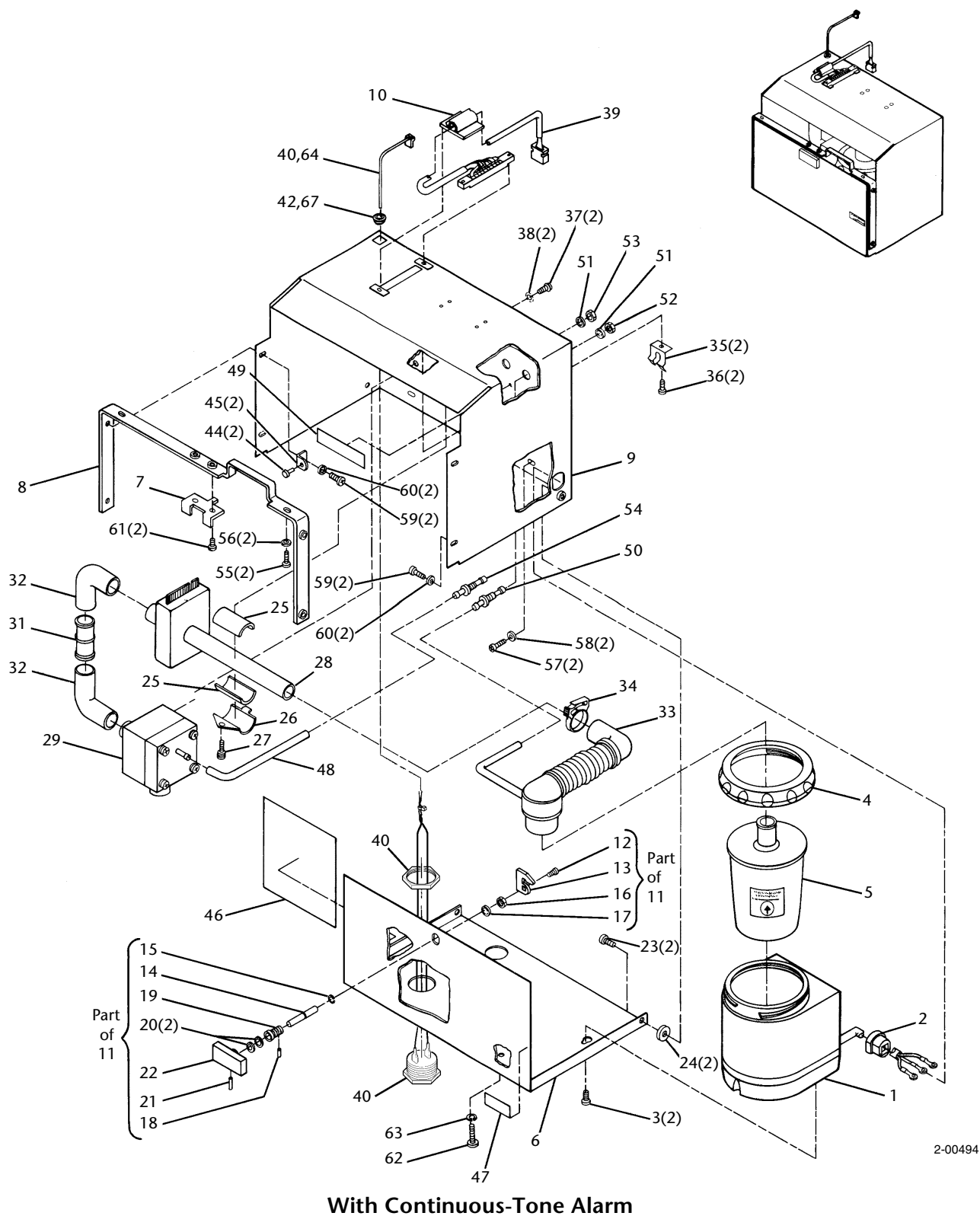


Figure G-4. Front-Loading Exhalation Compartment Assembly with Internal Exhalation Valve

G.2.2 Front-Loading Exhalation Compartment Assembly with External Exhalation Valve

Table G-4: Front-Loading Exhalation Compartment Assembly with External Exhalation Valve Parts List

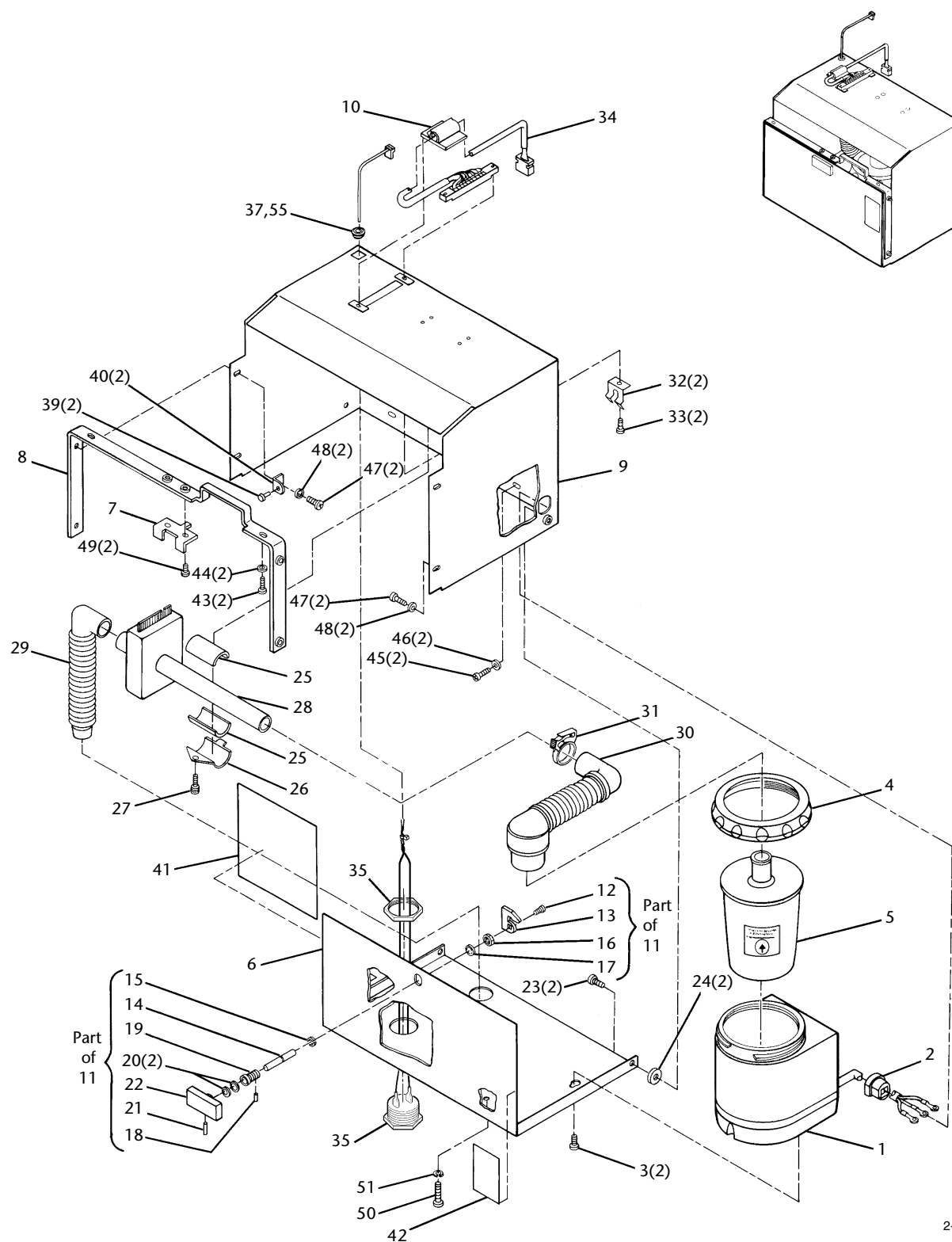
Item Number (Figure G-5)	Part Number	Description
--	--	Exhalation compartment assembly, front-loading, external exhalation valve (Not stocked. Order the individual component parts.)
		NOTE: If door (item 6), console mounting bracket (item 8), or inside panel (item 9) must be replaced, replace the entire exhalation compartment with a bottom-loading version (Section G.1.2).
1	4-019779-00	Filter/heater assembly, front-loading, 100 V (Includes one of item 2, two of item 3, and one of item 4)
	4-019157-00	Filter/heater assembly, front-loading, 115 V (Includes one of item 2, two of item 3, and one of item 4)
	4-019158-00	Filter/heater assembly, front-loading, 220/240 V (Includes one of item 2, two of item 3, and one of item 4)
2	4-000674-00	Strain relief
3	4-005914-00	Screw, PAN, 8-32 x 2, ZC PL
4	4-008968-00	Ring, locking, bacteria filter heater
5	4-010793-00	Filter, bacteria, single-patient use (SPU) (case of 12)
	4-006308-00	Filter, bacteria, OmniFilter
6	Not available	Door, exhalation compartment
7	4-019583-00	Plate, latch
8	4-019746-00	Bracket, console mounting
9	4-019745-00	Panel, inside front-loading exhalation compartment
10	4-005761-00	Clip, wire
11	4-018198-00	Latch assembly, exhalation compartment door
12	4-000503-00	Screw, PAN, 6-32 x 1/4, ZC PL, Long-Lok
13	--	Clamp, latch (Not stocked. Order a latch assembly (item 11))
14	--	Shaft, latch (Not stocked. Order a latch assembly (item 11))
15	4-019256-00	Ring, retaining, 0.232 ID, ZC PL
16	4-002420-00	Nut, HEX, 3/8-32, panel, ZC PL
17	4-008132-00	Washer, IN LK, 3/8, ZC PL
18	--	Pin, groove, 1/16 DIA, 1/4 inch long, ZC PL (Not stocked. Order a latch assembly (item 11))
19	--	Bushing (Not stocked. Order a latch assembly (item 11))
20	--	Washer, spring, 0.365 ID (Not stocked. Order a latch assembly (item 11))

Table G-4: Front-Loading Exhalation Compartment Assembly with External Exhalation Valve Parts List

Item Number (Figure G-5)	Part Number	Description
21	--	Pin, groove, 1/16 DIA, 1/2 inch long, ZC PL (Not stocked. Order a latch assembly (item 11))
22	--	Handle, latch (Not stocked. Order a latch assembly (item 11))
23	4-019141-00	Bolt, shoulder, slot, 8-32
24	4-002836-00	Washer, flat, #10, nylon
25	4-004860-00	Tape, foam, black, 0.300 (Bulk item. Available in multiples of one-foot lengths (minimum order 10 feet))
26	4-019422-00	Clamp, transducer
27	4-006503-00	Screw, thumb, 8-32, NI PL
28	4-018256-00	Sensor, exhalation [Q3/T3], with EPROM
29	4-007271-00	Tube, sidewinder
30	4-019430-00	Valve assembly, check, exhalation, conventional circuit, front-loading [CV5]
31	4-003442-00	Clamp
32	4-019360-00	Spring, transducer ground
33	4-007737-00	Screw, PAN, 4-40 x 5/16, ZC PL, Long-Lok
34	4-019232-00	Harness assembly, exhalation transducer
35	4-010712-00	Audio alarm kit, continuous (includes alarm and harness; replaces all previous versions of continuous tone alarm kits)
	4-018049-00	Audio alarm kit, pulsed (includes alarm, harness, and pulsed alarm PCB; replaces all previous versions of pulsed alarm kits)
36	--	(Not applicable.)
37	--	(Not applicable.)
38	--	(Not applicable.)
39	Not available	Bumper, door
40	Not available	Bracket, door bumper
41	4-020514-00	Label, WARNING, exhalation compartment, English (English and Japanese configurations)
	4-020515-00	Label, WARNING, exhalation compartment, French
42	4-020421-00	Label, NEBULIZER OUTPUT, external, English (English and Japanese configurations)
	4-020405-00	Label, NEBULIZER OUTPUT, external, French
43	4-001041-00	Screw, PAN, 8-32 x 3/8, ZC PL
44	4-006327-00	Lockwasher, SR, #8, ZC PL
45	4-001171-00	Screw, PAN, 8-32 x 1/4, ZC PL
46	4-001138-00	Washer, IN LK, #8, ZC PL
47	4-000297-00	Screw, PAN, 6-32 x 3/8, ZC PL
48	4-001785-00	Washer, IN LK, #6, ZC PL

Table G-4: Front-Loading Exhalation Compartment Assembly with External Exhalation Valve Parts List

Item Number (Figure G-5)	Part Number	Description
49	4-000503-00	Screw, PAN, 6-32 x 1/4, ZC PL, Long-Lok
50	4-007324-00	Screw, PAN, 6-32 x 5/8, ZC PL
51	4-006374-00	Lockwasher, SR, #6, ZC PL
52	4-022384-00	Label, exhalation compartment, French 220 V (exhalation compartment front panel). (Not shown.)

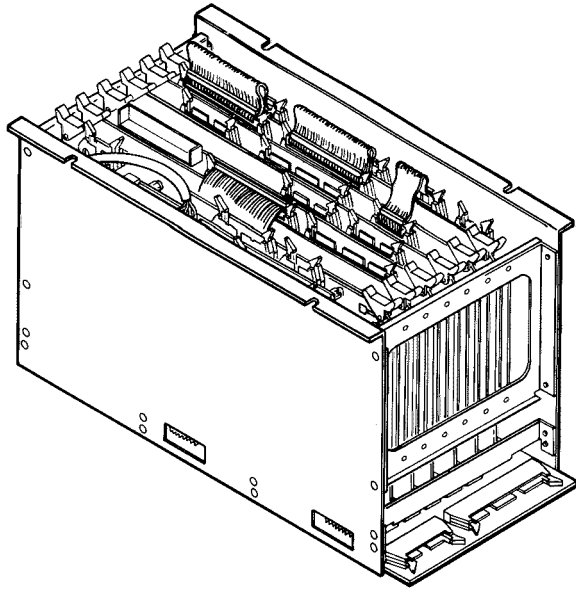


With Continuous-Tone Alarm

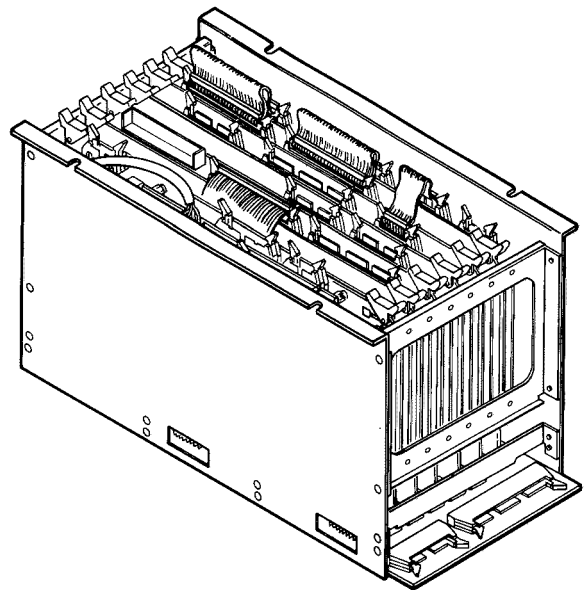
Figure G-5. Front-Loading Exhalation Compartment Assembly with External Exhalation Valve

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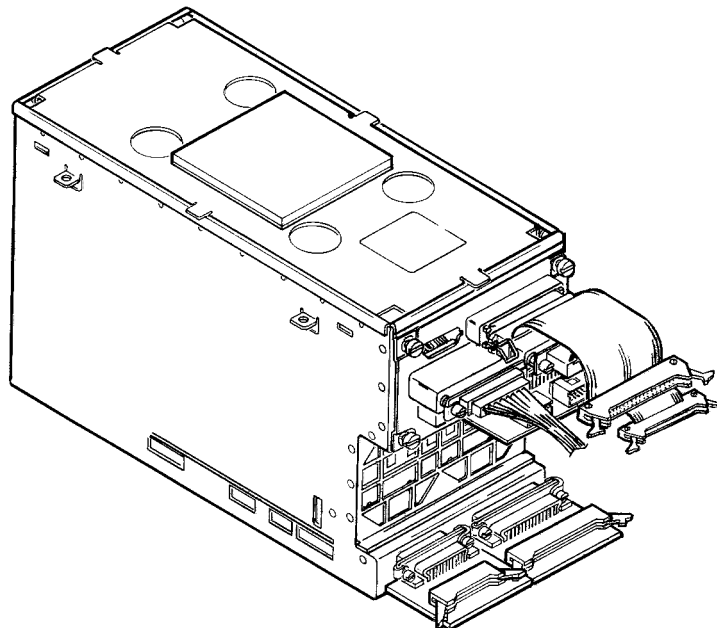
Card Cage Assembly



**Non-EMI Card Cage Assembly
(8088-Based Units)**



**Non-EMI Card Cage Assembly
(80188-Based Units)**



2-00496

EMI Card Cage Assembly (80188-Based Units)

Figure H-1. Card Cage Assemblies

H.1 Non-EMI Card Cage Assembly

Table H-1: Non-EMI Card Cage Assembly Parts List

Item Number (Figure H-2)	Part Number	Description
--	--	Card cage assembly, non-EMI (Not stocked. Order the individual component parts.)
1	4-019085-00	Card cage/motherboard assembly
2	--	Card cage (Not stocked. Order a card cage/motherboard assembly (item 1).)
3	4-019078-00	Guide, card
4	4-018010-00	PCB assembly, motherboard
4A	4-030211-00	Pin, motherboard indexing
5	4-006592-00	Screw, PAN, 4-40 x 1/4, ZC PL, Long-Lok
6	4-018050-00	PCB assembly, interface (new)
	4-019833-00	PCB assembly, interface (exchange)
7	4-018041-00	PCB assembly, conversion (new) (Used on all configurations except 7200e.)
	4-019892-00	PCB assembly, conversion, 7200e (exchange)
	4-019832-00	PCB assembly, conversion (exchange)
8	4-018070-00	PCB assembly, display controller, basic keyboard, 7200a (new)
	4-019834-00	PCB assembly, display controller, basic keyboard, 7200a (exchange) (U.S., Canadian, and Japanese configurations)
	4-019886-00	PCB assembly, display controller, basic keyboard, 7200sp (exchange)
8A	4-018570-00	PCB assembly, DCI-display controller (new). (Does not include option PAL; flow sensor EPROMs; or jumpers W1, W2, and W3. Remove these from existing PCB and install on the replacement PCB.)
	4-019889-00	PCB assembly, DCI-display controller (exchange). (Does not include option PAL; flow sensor EPROMs; or jumpers W1, W2, and W3. Remove these from existing PCB and install on the replacement PCB.)
9	4-026160-00	PCB assembly, memory, English (new). (Includes CPU memory EPROMs. Does not include option PAL or oxygen or air flow sensor EPROMs. Remove the option PAL and oxygen and air flow sensor EPROMs from the existing memory PCB and install on the replacement memory PCB.)
	4-018109-00	PCB assembly, memory, English (exchange). (Includes CPU memory EPROMs. Does not include option PAL or oxygen or air flow sensor EPROMs. Remove the option PAL and oxygen and air flow sensor EPROMs from the existing memory PCB and install on the replacement memory PCB.)
	4-026163-00	PCB assembly, memory, French (new). (Includes CPU memory EPROMs. Does not include option PAL or oxygen or air flow sensor EPROMs. Remove the option PAL and oxygen and air flow sensor EPROMs from the existing memory PCB and install on the replacement memory PCB.)
	4-026164-00	PCB assembly, memory, German (new). (Includes CPU memory EPROMs. Does not include option PAL or oxygen or air flow sensor EPROMs. Remove the option PAL and oxygen and air flow sensor EPROMs from the existing memory PCB and install on the replacement memory PCB.)

Table H-1: Non-EMI Card Cage Assembly Parts List (continued)

Item Number (Figure H-2)	Part Number	Description
9	4-026166-00	PCB assembly, memory, Italian (new). (Includes CPU memory EPROMs. Does not include option PAL or oxygen or air flow sensor EPROMs. Remove the option PAL and oxygen and air flow sensor EPROMs from the existing memory PCB and install on the replacement memory PCB.)
	4-026161-00	PCB assembly, memory, Spanish (new). (Includes CPU memory EPROMs. Does not include option PAL or oxygen or air flow sensor EPROMs. Remove the option PAL and oxygen and air flow sensor EPROMs from the existing memory PCB and install on the replacement memory PCB.)
10	4-019831-00	PCB assembly, CPU, 8088 (exchange)
11	--	CPU kernel, 8088 (Includes Power-On Self-Test program) (Not stocked. Order a CPU PCB assembly (item 10).)
12	4-018790-00	PCB assembly, pulse oximetry (exchange) (units with Pulse Oximetry option only)
13	4-018187-00	PCB assembly, pulse oximetry (Multibus-only) (exchange) (units with Pulse Oximetry option only)
13A	4-026664-00	Cable assembly, biox PCB serial I/O
13B	4-026665-00	Cable assembly, biox PCB serial power
13C	--	PCB assembly, pulse oximetry (Not stocked. Order item 13.)
13D	4-019882-00	PCB assembly, oximetry module (exchange)
13E	4-026666-00	Cable assembly, biox sensor interface
13F	4-009146-00	Screw, PAN, 6-32 x 5/16, ZC PL, Long-Lok
13G	4-006930-00	Washer, shoulder, #6, nylon
13H	4-026682-00	Standoff
13J	4-007401-00	Nut, HEX, 6-32, self-locking, ZC PL
14	4-019230-00	Cable assembly, I/O interconnection
15	4-019231-00	Cable assembly, interconnection
16	4-019233-00	Cable assembly, interface
17	4-019232-00	Harness assembly, exhalation transducer
18	4-019235-00	Cable assembly, 26-wire ribbon, keyboard, basic console
	4-012439-00	Cable assembly, 26-wire ribbon, keyboard, enhanced console
	4-032000-00	Cable assembly, 26-wire ribbon, keyboard, Enhanced-Plus console (80188-based units)
	4-018321-00	Cable assembly, 26-wire ribbon, keyboard, EMI, 8088-based, basic console

Table H-1: Non-EMI Card Cage Assembly Parts List (continued)

Item Number (Figure H-2)	Part Number	Description
19	4-019234-00	Cable assembly, 50-wire ribbon, display, basic console
	4-012440-00	Cable assembly, 50-wire ribbon, display, enhanced console
	4-032001-00	Cable assembly, 50-wire ribbon, display, Enhanced-Plus console (80188-based units)
	4-018322-00	Cable assembly, 50-wire ribbon, display, EMI, 8088-based, basic console
20	4-016213-00	Harness assembly, internal (later non-EMI, 80188-based units). (Refer to Figure J-2, item 15 and Figure J-3, item 11 for further detail.)
	--	Harness assembly, 7200spe/7200e (earlier non-EMI, 7200spe/7200e units). (Refer to Figure J-7, item 11 for further detail.)
	--	Harness assembly, RS-232 (earlier non-EMI, 80188-based units). (Refer to Figure J-5, item 15, and Figure J-9, item 16 for further detail.)
21	4-018320-00	Cable assembly, DCI (EMI) (8088-based units). (Refer to Figure J-6, item 20; Figure J-9, item 15; and Figure J-10, item 8 for further detail.)
22	--	Cable assembly, pulse oximetry (Refer to Figure J-2, item 14; Figure J-5, item 14; Figure J-6, item 13; and Figure J-8, item 14 for further detail.)
23	4-018931-00	PCB assembly, megaCPU, 80188 (new, all languages). (Order a megaCPU PCB and a set of software EPROMs to replace an 80188 CPU PCB. The 80188 CPU PCB is no longer stocked.)
	4-019873-00	PCB assembly, megaCPU, 80188, English (exchange). (Order a mega CPU PCB to replace an 80188 CPU PCB. The 80188 CPU PCB is no longer stocked.)
24	4-026040-00	EPROMs, software, English, for Europe (new) (80188-based units only)
	4-026042-00	EPROMs, software, French, (new) (80188-based units only)
	4-026043-00	EPROMs, software, German (new) (80188-based units only)
	4-026044-00	EPROMs, software, Italian (new) (80188-based units only)
	4-026041-00	EPROMs, software, Spanish, (new) (80188-based units only)
25	4-018435-00	Harness assembly, interface (later 8088-based units). (Refer to Figure J-6, item 19 or item 14 for further detail.)
26	4-070059-00	Label, serial number (attached to right side of card cage, lower rear corner). (Not shown.)

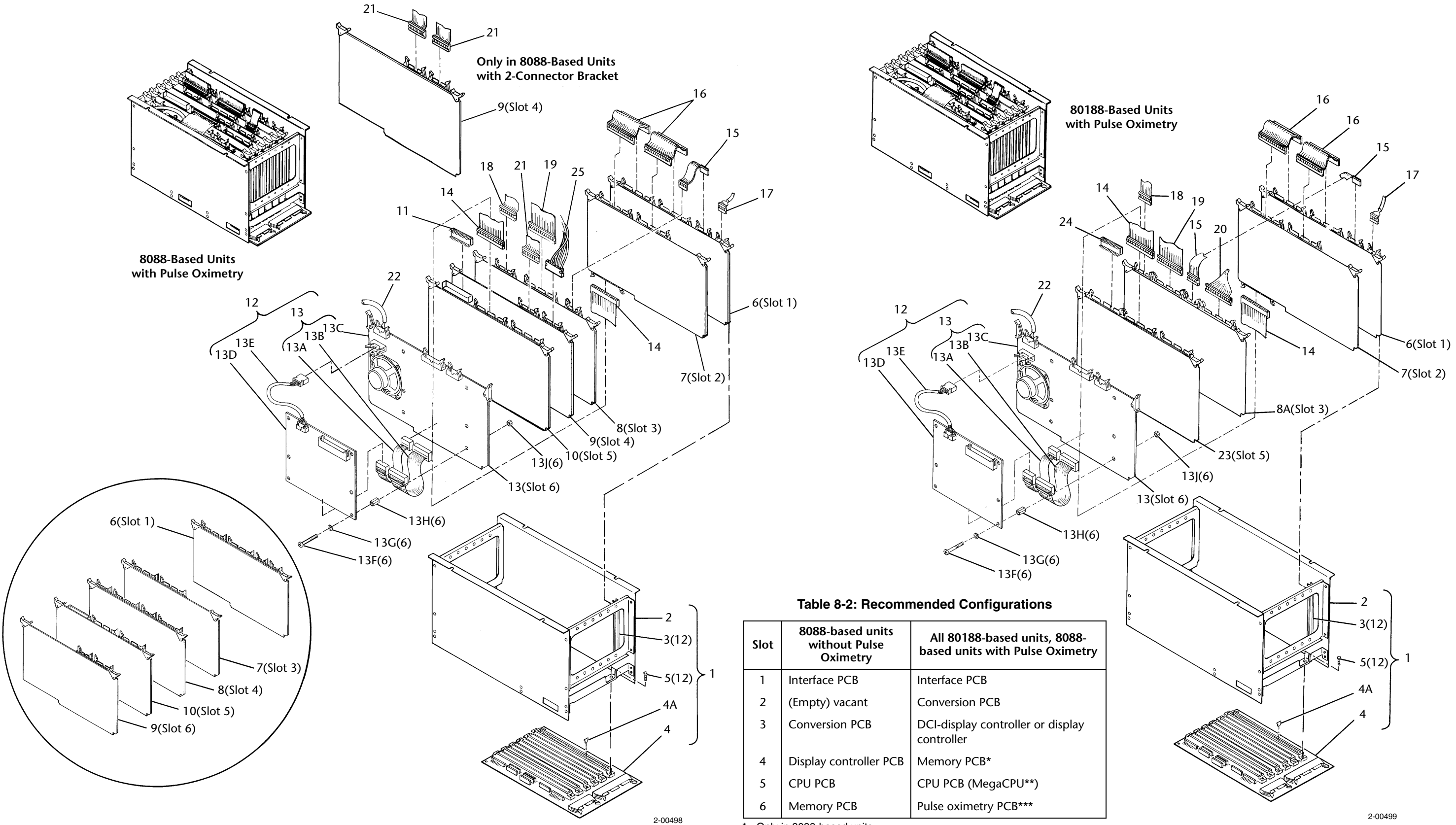


Figure 8-2. Non-EMI Card Cage Assembly

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H.2 EMI Card Cage Assembly

Table H-3: EMI Card Cage Assembly Parts List

Item Number (Figure H-3)	Part Number	Description
	--	Card cage assembly, EMI, 80188-based (internal assembly with vacant card slots 4 and 6). (Not stocked. Order the individual component parts.)
1	4-018931-00	PCB assembly, megaCPU, 80188 (new, all languages). (Order a megaCPU PCB and a set of software EPROMs to replace an 80188 CPU PCB. The 80188 CPU PCB is no longer available.)
	4-019873-00	PCB assembly, megaCPU, 80188, English (exchange). (Order a megaCPU PCB to replace an 80188 CPU PCB. The 80188 CPU PCB is no longer available.)
2	4-026040-00	EPROMs, software, English, for Europe (new) (80188-based units only)
	4-026042-00	EPROMs, software, French, for Europe (new) (80188-based units only)
	4-026043-00	EPROMs, software, German (new) (80188-based units only)
	4-026044-00	EPROMs, software, Italian (new) (80188-based units only)
	4-026041-00	EPROMs, software, Spanish, for Europe (new) (80188-based units only)
3	4-018570-00	PCB assembly, DCI-display controller (new). (Does not include option PAL; flow sensor EPROMs; or jumpers W1, W2, and W3. Remove these from existing PCB and install on the replacement PCB.)
	4-019889-00	PCB assembly, DCI-display controller (exchange). (Does not include option PAL; flow sensor EPROMs; or jumpers W1, W2, and W3. Remove these from existing PCB and install on the replacement PCB.)
4	4-019230-00	Cable assembly, I/O interconnection
5	--	Cable assembly, 26-wire ribbon, keyboard internal (Refer to Figure H-4, item 6 for further detail.)
6	--	Cable assembly, 50-wire ribbon, display internal (Refer to Figure H-4, item 9 for further detail.)
7	4-019231-00	Cable assembly, interconnection
8	--	Harness assembly, internal DCI/7202 (Refer to Figure H-4, item 4 for further detail.)
9	4-018041-00	PCB assembly, conversion (new)
	4-019892-00	PCB assembly conversion, 7200e (exchange)
	4-019832-00	PCB assembly, conversion (exchange)
10	4-018050-00	PCB assembly, interface (new)
	4-019833-00	PCB assembly, interface (exchange)
11	4-019233-00	Cable assembly interface
12	--	Harness assembly, Q1/Q2/Q3 internal (Refer to Figure H-4, item 3 for further detail.)
13	4-006592-00	Screw, PAN, 4-40 x 1/4, ZC PL, Long-Lok
14	4-021133-00	PCB, motherboard, EMI
15	4-030211-00	Pin, motherboard indexing
16	4-012532-00	Bracket, front, motherboard

Table H-3: EMI Card Cage Assembly Parts List (continued)

Item Number (Figure H-3)	Part Number	Description
17	--	(Not applicable.)
18	4-012535-00	Card cage, EMI
19	4-019152-00	Screwlock assembly, female (Includes hardware to mount left and right sides of connector). (Nuts and washers supplied with screwlock assembly are not used.)
20	4-016143-00	Screw, PAN, 6-32 x 5/16, with captive lockwasher
21	4-012540-00	Shielding, 14-7/8 in. (37.8 cm) (Must be cut to size)
22	4-021132-00	Bracket, rear plate
23	4-016142-00	Nut, HEX, 6-32, self-locking, SST
24	4-012541-00	Pad, foam
25	4-012547-00	Cover, card cage assembly, EMI
26	4-022157-00	Label, connector plate reference designator
27	4-012455-00	PCB assembly, adapter, pneumatic chassis harness (J10). (Includes two of item 28.)
28	4-012594-00	Screw, retainer kit
29	4-012456-00	PCB assembly, adapter, utility panel harness (J11). (Includes two of item 28.)
30	4-022156-00	Label, motherboard connector
31	4-017227-00	Latch, PCB retainer
32	4-017196-00	Retainer, PCB
33	--	Connector plate assembly (Refer to Figure H-4 for further detail.)
34	4-070059-00	Label, serial number (attached to right side of card cage, lower rear corner). (Not shown.)

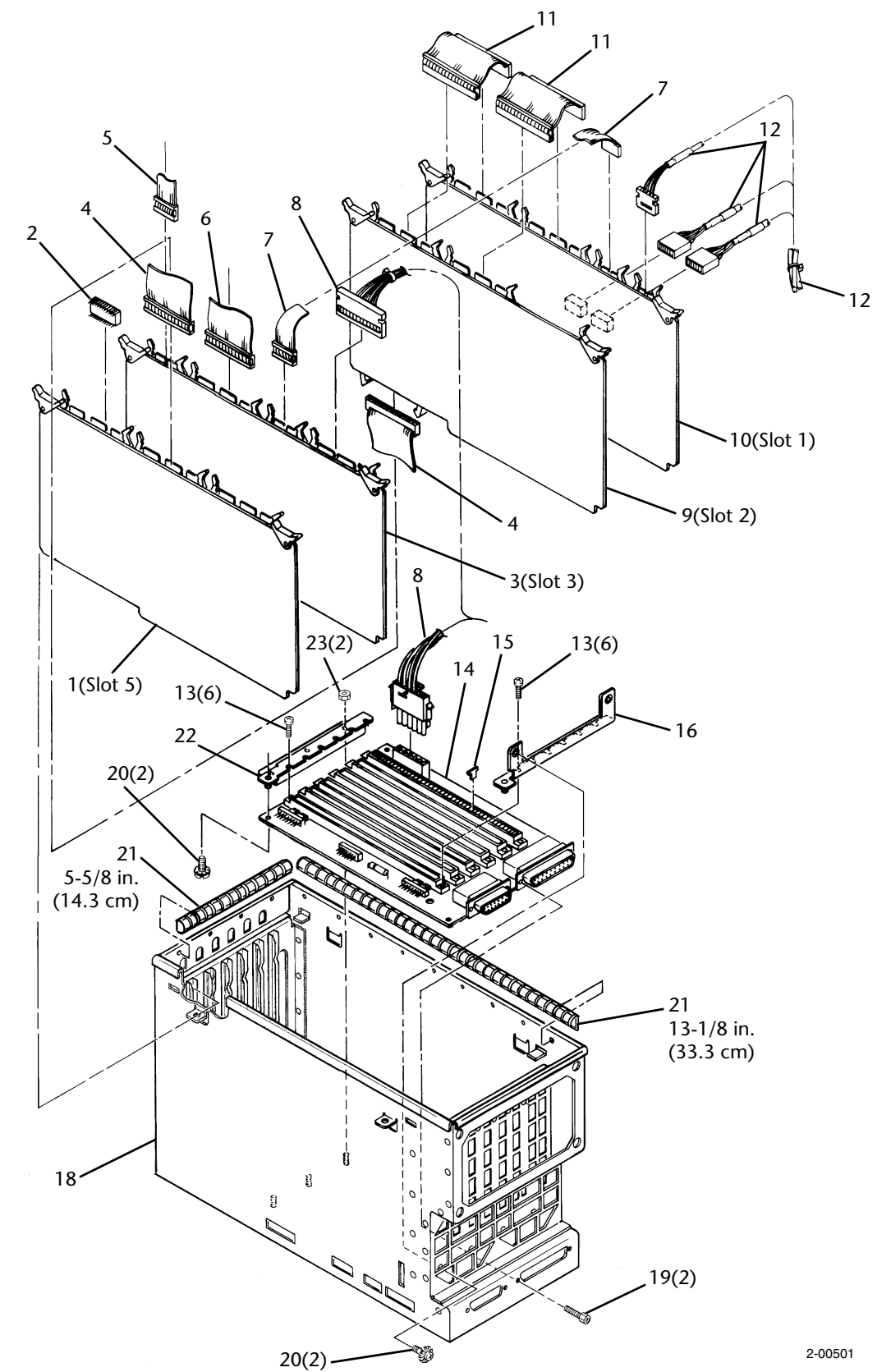
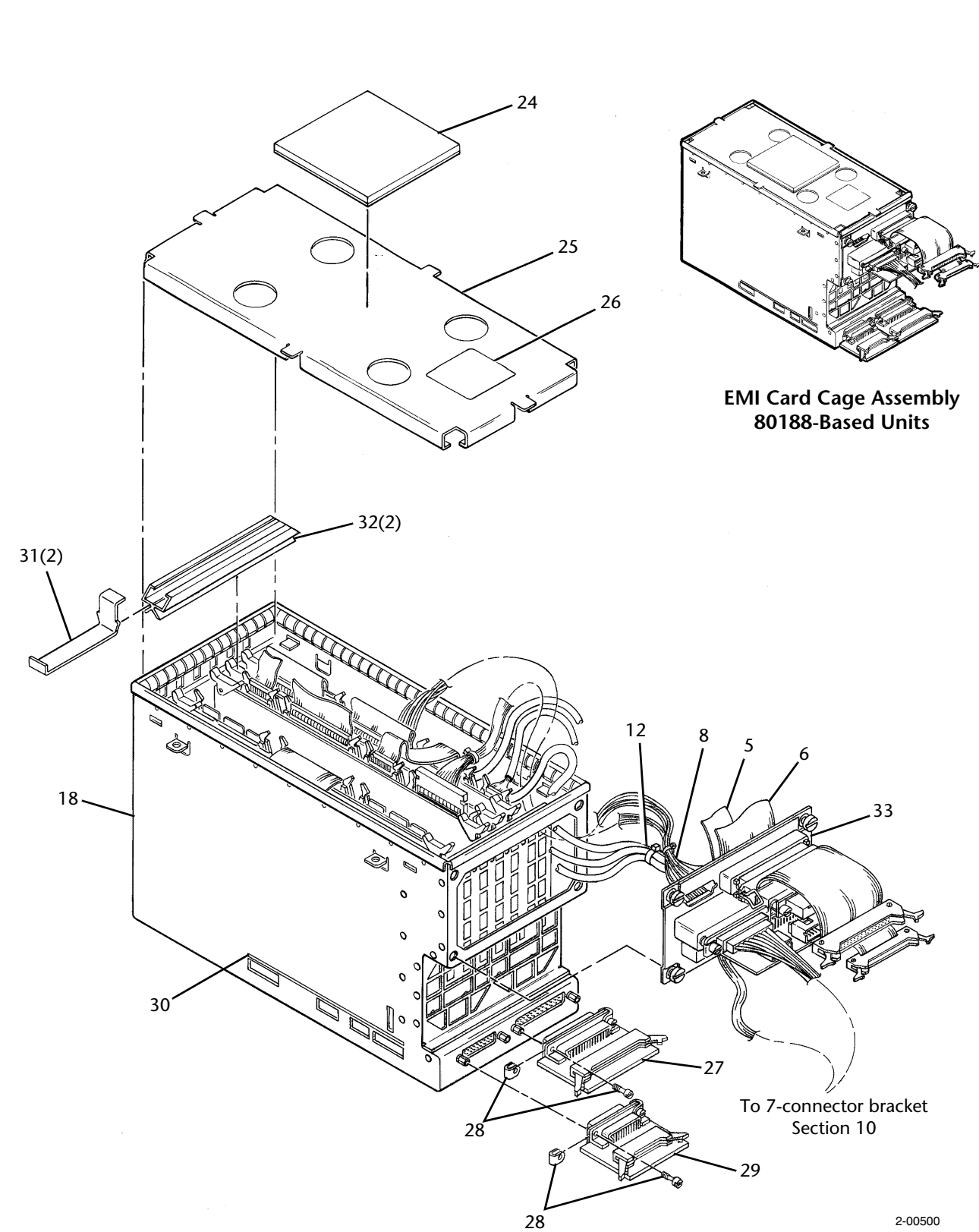
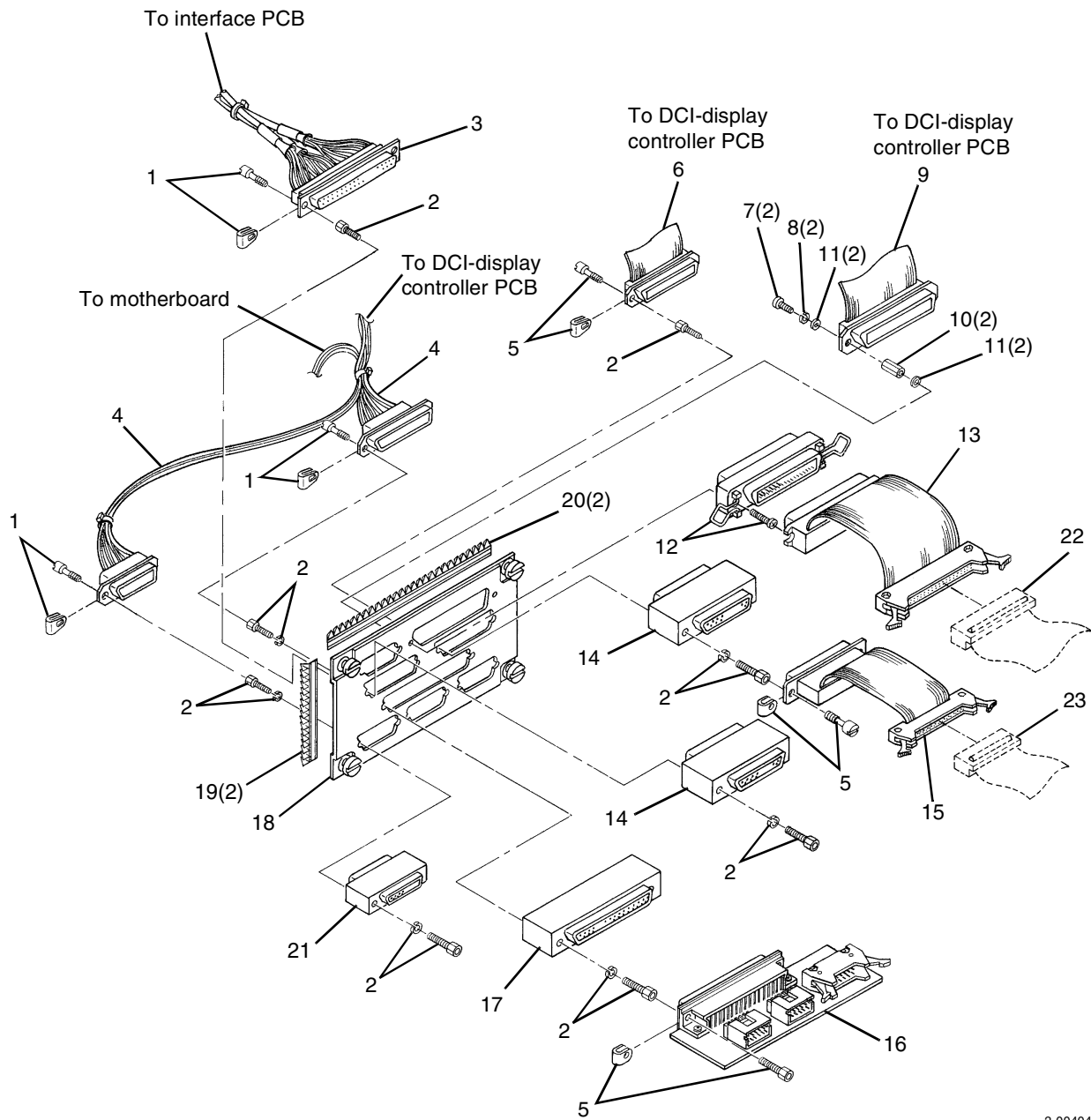


Figure 8-3. EMI Card Cage Assembly

H.3 EMI Card Cage Connector Plate Assembly

Table 8-4: EMI Card Cage Connector Plate Assembly Parts List

Item Number (Figure H-4)	Part Number	Description
--	--	Connector plate assembly (Not stocked. Order the individual component parts.)
1	4-012588-00	Screw retainer kit (Includes hardware to mount left and right sides of connector.)
2	4-019152-00	Screwlock assembly, female (Includes hardware to mount left and right sides of connector.) (Discard nuts and flat washers supplied with screwlock assembly. In some cases, lockwashers supplied are not used; refer to item 2 callout in Figure H-4 for lockwasher applicability.)
3	4-012650-00	Harness assembly, Q1/Q2/Q3 internal (Includes item 1.)
4	4-016212-00	Harness assembly, DCI/7202 internal (Includes two of item 1.)
5	4-012594-00	Screw retainer kit (Includes hardware to mount left and right sides of connector.)
6	4-012570-00	Cable assembly, 26-wire ribbon, keyboard internal (Includes item 5.)
7	4-007359-00	Screw, PAN, 4-40 x 3/8, ZC PL
8	4-007566-00	Lockwasher, SR, #4, ZC PL
9	4-012564-00	Cable assembly, 50-wire ribbon, display internal
10	4-012551-00	Standoff, hex, 4-40, 5/16 L, 3/16 hex OD, ST STL
11	4-005775-00	Washer, flat, #4, ZC PL
12	4-012582-00	Filter connector, 50-pin (display ribbon cable). (Includes mounting screws and standoffs. Standoffs supplied with connector are not used.)
13	4-012565-00	Cable assembly, 50-wire ribbon, front panel display PCB adapter
14	4-012583-00	Filter connector, 25-pin (keyboard cable or DCI/7202 harness)
15	4-012571-00	Cable assembly, 26-wire ribbon, keyboard adapter (Includes two of item 7.)
16	4-012464-00	PCB, adapter, Q1/Q2/Q3
17	4-012646-00	Filter connector, 37-pin (Q1/Q2/Q3)
18	4-021131-00	Plate, connector mounting (Includes four captive screws for attachment to card cage. Refer to Figure 8-3, item 33 for detail.)
19	4-012545-00	Shielding, 24.0 in. (61.0 cm) (Must be cut to 5.7 to 6.0 cm.)
20	4-012545-00	Shielding, 24.0 in. (61.0 cm) (Must be cut to 11.7 to 12.0 cm.)
21	4-019513-00	Filter connector, 15-pin (DCI/7202 harness)
22	--	Cable assembly, 50-wire ribbon, display (Refer to Figure 3-3, item 17 for further detail.)
23	--	Cable assembly, 26-wire ribbon, keyboard (Refer to Figure 3-3, item 16 for further detail.)



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Figure H-4. EMI Card Cage Connector Plate Assembly

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