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## Med Tips

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December, 2011

### PRODUCT INFORMATION

#### Power Manager Board & Battery Bridge Board Replacement for Eclipse 2 & 3 POC's Out of Warranty

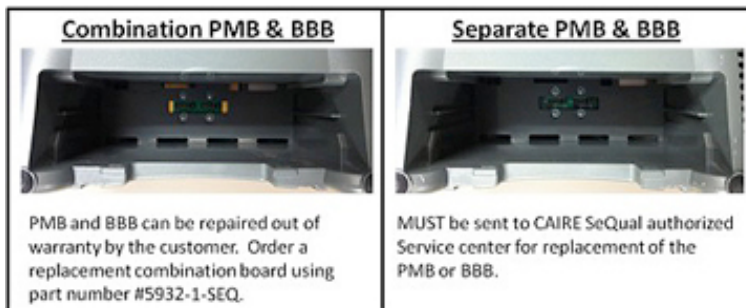
A design change was made to the Power Manager Board (PMB) and Battery Bridge Board (BBB) of the Eclipse in November of 2010. Models manufactured prior to this date contained a separate PMB and BBB. Units manufactured after this date have a combined PMB and BBB. Please note the warranty for an Eclipse 2 and 3 PMB and BBB is three years.

The separate PMBs and BBBs that were present in older Eclipse units are no longer manufactured or sold. The only boards available are the combo boards. The combo boards can be used as replacement parts for the separate boards in all older units; however, they are only interchangeable after substantial software upgrades are performed on the device. If these upgrades are not performed, damage to the Eclipse can occur. These upgrades can only be performed by a SeQual authorized service center.

For this reason, an Eclipse 2 or 3 that has a separate PMB or BBB found to be faulty MUST be sent to a SeQual authorized service center for repair. If either board requires replacement, both boards will be replaced with the new combination board and the software upgrades will be performed.

If an out-of-warranty Eclipse 2 or Eclipse 3 is diagnosed to have a faulty BBB or PMB, visually inspect the Eclipse to determine if it has separate or combination PMB and BBB. The board style can be determined by looking at

the back of the BBB through the battery compartment. Use the figure below to determine the style board in your Eclipse and the appropriate repair procedure for your model.



### Replacement Cases for LOX Portables

Listed below are the part numbers required to order replacement cases/covers for the HELiOS and Companion portable units.

Companion C1000 & C1000T	
Front Side Cover	B-775001-00
Rear Side Cover	B-775002-00
Top Bezel	B-775003-00

Companion C500/C550	
Front Side Cover	B-777608-00
Rear Side Cover	B-777607-00
Top Bezel	B-777606-00

HELiOS Plus H300	
Front Case	B-702187-00
Rear Case	B-701539-00
Handle	B-701542-00

HELiOS Marathon H850	
Front Case	067938
Rear Case	067937
Handle	067939

### New Contents Indicator Material for Companion Reservoirs

Effective immediately, all Companion Reservoir contents indicators will be constructed with a new plastic material for the body, piston, and retainer. This change will increase the component's resistance to cleaning and leak detector solutions. Please see the [Service Bulletin](#) for more information on these changes.

### HELPFUL HINTS / FAQs

#### E3 DC Power Operation

The DC power supply does not produce sufficient power to achieve all the features that are available when running on AC power or the power cartridge. When running on DC power, the Eclipse 3 **WILL NOT:**

- Charge the power cartridge (battery) inside of the Eclipse 3
- Operate above 2.0 LPM continuous flow
- Operate above 96 mL pulse dose



### LOX Pediatric Flow Conversions

Pediatric versions of the Liberator reservoir and Sprint/Stroller portables are available. New units can be ordered equipped with pediatric flow control valves.

CAIRE pediatric flow control valves have the following LPM settings:

0.05, 0.10, 0.20, 0.30, 0.40, 0.50, 0.75, 1.00, 1.25, 1.50, 2.00

Units that do not have pediatric FCV's can be easily converted to pediatric units. Below are the lists of parts and part numbers necessary to convert a Liberator, Stroller, or Sprint to a 0-2 LPM pediatric unit at 20 PSI. If you are converting a unit at 50 PSI with a pediatric FCV, please keep in mind the flows will be much higher than the prescribed setting.

#### Gen 3 Liberator

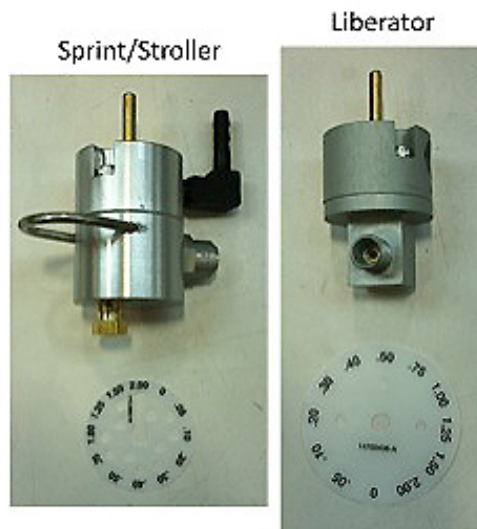
Pediatric FCV:	#14700243T
Pediatric Decal:	#14700438

#### Gen 4 Liberator

Pediatric FCV:	#14700243T
Pediatric Decal:	#14700438
FCV Extension:	#CA405938
Locking Plate:	#CA406438
Secondary Relief Valve:	#10495289T

#### Sprint/Stroller:

Pediatric FCV:	#14700235T
Pediatric Decal:	#14700411



Flow Control Valves

## Accessories

### Eclipse Power Supply Kits

Previously, all Eclipse power supplies and travel accessory kits came with a standard North American power cord. If another country's cord was required, it would have to be ordered separately.

Effective immediately, Eclipse power supplies and accessories can be ordered with country-specific power cords. Use the table below as a guideline for ordering replacement AC power supplies, desktop chargers, and travel accessory kits that will include the appropriate country-specific electrical leads.

Electrical	Eclipse 1	Eclipse 2 & 3	Desktop	Travel
Lead Included	AC Power Supply	AC Power Supply	Charger	Accessory Kit
<b>North American</b>	20538528	5941-SEQ	7082-SEQ	5093-SEQ
<b>European</b>	20553094	20553100	20554079	20553325
<b>UK</b>	20553084	20553098	20554077	20553322
<b>Swiss</b>	20553066	20553083	20554078	20553323

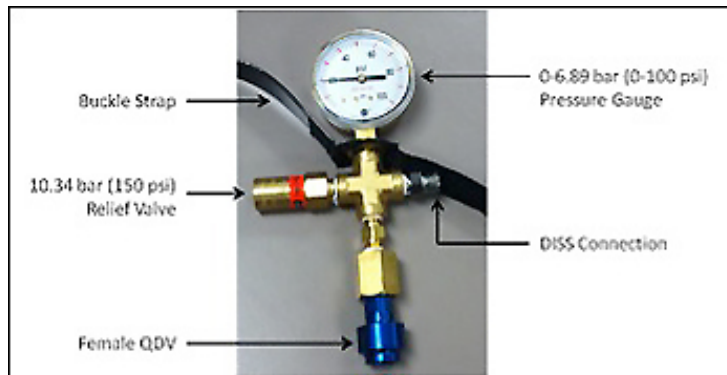
### LOX Reservoir Pressurizing Fixture

A pressurizing fixture for top fill, Puritan Bennett compatible LOX reservoirs can be ordered using part number B-701731-00. This is a necessary tool for performing many of the test and repair procedures suggested by CAIRE.

performing many of the test and repair procedures suggested by CAIRE.

The pressurizing fixture has a female QDV that will attach to the male QDV of the reservoir. It can be used to check the internal pressure of the unit by simply connecting its QDV to the reservoir.

The pressurizing fixture also contains a DISS fitting to connect to a gaseous oxygen or nitrogen source. The fixture can be used to blow gas through a reservoir for the purpose of pressurizing the unit, purging and drying a tank, or testing the unit. Reservoirs can be function tested (flow rates, relief valve function, leak testing, etc.) using gas oxygen supplied to the unit through the pressurizing fixture.



\*Please note that the kit shown does not fit Liberator side fill units without the Liberator side fill pneumatic test adaptor. Also, the Penox TF QDV, Taema QDV, and Freelex QDV models are not compatible with the kit shown, but have their own pneumatic test adaptor part number.

## SERVICE SCHOOLS & TRADESHOWS

### 2011 Service Schools

#### LOX Technical Training in English

December 6 & 7  
Ball Ground, Georgia

#### Concentrator Technical Training in English

December 13 & 14  
Ball Ground, Georgia

#### Concentrator Technical Training in French

December 14 & 15  
Fonsorbes, France

To register for US LOX Training, [download this form](#).

To register for US Concentrator Training, [download this form](#).

For more information on the European trainings, please contact Jim Gibson at [jim.gibson@chart-ind.com](mailto:jim.gibson@chart-ind.com).

**Mark Your Calendars for our Upcoming 2012 Service Schools!**

## USA

### Concentrator Technical Training in English

February 20-21

Ball Ground, GA

### LOX Technical Training in English

Feb 22-23

Ball Ground, Georgia

### Concentrator Technical Training in English

May 7-8

Ball Ground, GA

### LOX Technical Training in English

May 9-10

Ball Ground, Georgia

### Concentrator Technical Training in English

August 13-14

Ball Ground, GA

### LOX Technical Training in English

August 15-16

Ball Ground, Georgia

### Concentrator Technical Training in English

November 5-6

Ball Ground, GA

### LOX Technical Training in English

November 7-8

Ball Ground, Georgia

## Europe

### LOX Technical Training in German

February 15 & 16

Wuppertal, Germany

### LOX Technical Training in Italian

February 22 & 23

Padova, Italy

### LOX Technical Training in French

March 7 & 8

Fonsorbes, France

### LOX Technical Training in English

April 17 & 18

Wuppertal, Germany

### Concentrator Technical Training in English

May 22 & 23

Wuppertal, Germany

### Concentrator Technical Training in German

June 13 & 14

Wuppertal, Germany

### Concentrator Technical Training in French

June 20 & 21

Fonsorbes, France

**LOX Technical Training in German**

September 5 & 6  
Wuppertal, Germany

**LOX Technical Training in French**

October 17 & 18  
Fonsorbes, France

**LOX Technical Training in Italian**

November 14 & 15  
Padova, Italy

To register for 2012 US LOX Training, [download this form](#).

To register for 2012 US Concentrator Training, [download this form](#).

For more information on the 2012 European trainings, please contact Jim Gibson at [jim.gibson@chart-ind.com](mailto:jim.gibson@chart-ind.com).

**Tradeshows**

We'll also be present at the following tradeshows, so feel free to stop at our booth! To find out more about any of the following shows, please click on its title and you will be directed to the show site.

**[Medical Services of America Leadership Summit](#)**

December 6th & 7th  
Columbia, SC USA

**[Arab Health Congress](#)**

January 23th-26th  
Dubai, UAE  
Booth #1F14

**[Georgia Association of Medical Equipment Services Winter Meeting](#)**

January 18th-19th  
Atlanta, GA USA

**[French Respiratory Congress \(CPLF\)](#)**

January 27th-29th  
Lyon, France  
Stand #41

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