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Med Tips

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PRODUCT INFORMATION

Eclipse Torque Specification

Either a #1 Phillips screwdriver or a battery powered screwdriver can be used to remove and install the Eclipse screws. If you use a battery powered screwdriver, it must be slow-turning, torque-limiting, and able to be calibrated. Below is a table giving the torque settings for the SeQual Eclipse.

Attachment	Torque Setting
Compressor to Case	20 in-lbs (2.26 NM)
ATF to Case	2 in-lbs (0.23 NM)
Case	5 in-lbs (0.56 NM)



Figure 1 - Eclipse Removal and Installation of Screws

Integra Compressor Rebuild Kits

The Integra compressor can be re-built. Note the model of the compressor in the Integra and use the table below to order the appropriate re-build kit.

Model	Rebuild Kit
GAST	3197-SEQ
Thomas	3418-SEQ

Companion Reservoir Drain Bottle Kit

A drain bottle kit is available for the Companion Reservoirs. The kit contains the drain bottle, the bracket used to attach it to the reservoir, and the tubing elbow to route the moisture. The kit can be ordered using part number #B-701362-00.



Figure 2 -- Companion Reservoir Drain Bottle Kit

Companion Reservoir Contents Indicator Tube Routing Change

The routing of the contents indicator lines on all Companion Reservoirs has been changed. Effective immediately, new reservoirs that are purchased will have this new tubing configuration. [See the attached service bulletin for further information.](#)

HELiOS H850 Marathon Vent Tube

The vent tube for the HELiOS H850 Marathon is an orderable part. The brass tube pictured below is ordered using part number #15081333. It is pressed fit into the dock that holds the QDV.

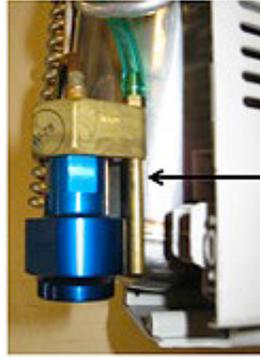


Figure 3 -- H850 Marathon
Vent Tube

HELiOS H850 Marathon Coil Configuration

The coil configuration on all H850 Marathon portable units has been changed. Effective immediately, the spine tube will be replaced with a coiled heat exchanger. [See the attached service bulletin for further information.](#)



Old Design New Design
Figure 4 -- H850 Marathon Coil Configuration

HELPFUL HINTS / FAQs

Determining Eclipse Battery Life

Use the following procedure to properly determine the operating time of an Eclipse power cartridge:

- 1) Install the power cartridge in the Eclipse and remove any AC or DC power cords.
- 2) Turn the Eclipse on and let it run on continuous flow (This can be done at any continuous flow rate if a patient is using the Eclipse during the test).

- 3) Allow the Eclipse to run continuously until it completely shuts down.
- 4) Remove the power cartridge from the Eclipse and allow it to cool for approximately 2 hours.
- 5) Re-install the power cartridge into an Eclipse connected to AC power or desktop charger and fully charge it.
- 6) Install the power cartridge in the Eclipse and remove any AC or DC power cords.
- 7) Turn on the Eclipse and let it run at the desired continuous flow rate for testing.
- 8) Using a stopwatch or timer, record the time that it takes the Eclipse to completely shut down.
- 9) Take the number obtained in step 8 and compare it to the operating time of a new power cartridge in the table below.
- 10) It is recommended that the power cartridge be replaced if the operating time determined in step 8 is less than 80% of the new operating time. The 80% comparative number is also listed in the table below.

Continuous Flow Setting	Operating Time (Hours)	
	New	Minimum (80%)
0.5 LPM	4.4 (4:24)	3.5 (3:30)
1.0 LPM	3.7 (3:42)	3.0 (3:00)
2.0 LPM	2.0 (2:00)	1.6 (1:36)
3.0 LPM	1.3 (1:18)	1.0 (1:00)

If properly stored and cared for, the Eclipse power cartridge will maintain 80% of its new operating time for 500 full charges and discharges.

Portable Filling Procedure

Q: What position should the flow control valve be on when filling any portable unit?

A: The FCV on portable units should always be in the closed position when they are being filled.

Contents Indicator Scale Calibration

The spring scale used on Spirit, Sprint and Stroller portable units can be calibrated if it reads inaccurately. There is a calibration screw in the bottom of the tube that can be adjusted using a Phillips Screwdriver.

The scale is calibrated when the unit is empty. On a properly calibrated scale, the red bar will be barely visible in the viewing window when the tank is empty. Adjust the calibration screw until proper calibration is achieved by turning the screw clockwise to move the meter up and counterclockwise to move the meter down. Reference the appropriate CAIRE technical manual for the complete calibration procedure.



Figure 5 -- Contents Indicator Scale Calibration

The scales used on the HELiOS and Companion portable units cannot be calibrated. They must be replaced if they read inaccurately.

Identifying Universal vs. Standard HELiOS Reservoirs

Q: How do I visually tell whether my Reservoir is a HELiOS Standard (H36/H46) or a HELiOS Universal (U36/U46)?

A: The easiest way to tell is to look at the QDV (fill connector) and the pop-off assembly that surrounds it. The pop off assembly on Standard reservoirs is flat, whereas it is curved upward on the Universal reservoirs. Also, the QDV on Standard reservoirs is recessed further than the universal reservoirs. This is the main reason that it will only fill HELiOS portables.



Figure 6 --
 Universal Reservoirs (U36 & U46) Standard Reservoirs (H36 & H46)

ACCESSORIES

Eclipse Desktop Charger

A desktop charger is available to charge all Eclipse power cartridges. The desktop charger is a good option for patients that have multiple batteries that need to stay fully charged at all times. The desktop charger can fully charge a power cartridge in approximately 3 hours. Order the desktop charger using part number #7082-SEQ.



Figure 7 -- Eclipse Desktop
Charger

Companion Wheelchair Basket

A wheelchair basket is available to safely carry the C1000 & C1000T portable units on the back of a wheelchair. The basket, shown below, can be ordered using part number #B-775538-00.



Figure 8 -- Companion Wheelchair Basket

OxiClip PC 20 End of Life

The OxiClip PC 20 Pneumatic Oxygen Conserver (P/N B-702120-00, B-701420-00, B-701442-00, & B-701855-00) will be obsolete once current inventory is sold. Market demand did not support continued production.



Figure 9 -- OxiClip PC 20

SERVICE SCHOOLS & TRADESHOWS

Service Schools

LOX Technical Training in French

October 12 & 13
Toulouse, France

Eclipse Technical Training in Spanish

October 19 & 20
Toulouse, France

Concentrator Technical Training in German

November 9 & 10
Wuppertal, Germany

LOX Technical Training in French

November 15 & 16
Toulouse, France

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
Wuppertal, Germany

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.

Tradeshows

We'll also be present at the following tradeshows, so feel free to stop at our booth:

Colorado Society for Respiratory Care-South Meeting

October 11th
Colorado Springs, CO

Indiana Society for Respiratory Care

October 12th - October 14th
Indianapolis, Indiana

MedTrade

October 25th - October 27th
Atlanta, Georgia

American Association for Respiratory Care

November 5th - November 8th
Tampa, Florida

Medica

November 16th - November 19th
Dusseldorf, Germany

CONTACT US

For ordering information contact Customer Service:

United Kingdom	+44 (0) 1344 403 100
France	+33 (0) 9707 54 646
Germany	+49 (0) 202 739 55429
Italy	+39 049 784 0142
	customerservice.europe@chart-ind.com
Australia/New Zealand	+61 2 9749 4333
Asia/Pac Rim	770.721.7759
The Americas	770.721.7759
US Toll Free	800.482.2473
	customerservice.usa@chart-ind.com

For technical information contact Technical Service:

United Kingdom	+44 (0) 1344 403 100
France	+33 (0) 5610 82 977
Germany	+49 (0) 202 739 55407
Italy	+39 049 644 498
	techservice.europe@chart-ind.com
Asia/Pac Rim	770.721.7759
	techservice.usa@chart-ind.com
The Americas	770.721.7759
	techservice.usa@chart-ind.com
US Toll Free	800.482.2473
	techservice.usa@chart-ind.com

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