



SERVICE BULLETIN

PN: 20755203

RELEASE March 15, 2019

DATE:

November 11, 2013 (rev B), March 15, 2019 (rev B)

REVISION

DATE(S):

MODEL: HELiOS Plus (H300) and HELiOS Marathon (H850) Liquid Oxygen Portables

ISSUE: HELiOS Portable CPC Oxygen Supply Quick Connect Removal and Creation of Upgrade Kit

NOTES: Effective immediately, the H300 and H850 units will be manufactured without the Quick Connect CPC Fitting and its related tubing and fittings. A plug will take the place of the quick connect fitting and the tubing from the Conserver will be routed directly to the barbed hose fitting of the Relief/Economizer Valve. The purpose of the CPC connector was to connect the portable directly to the Helios reservoir allowing the patient to breathe directly from the Helios reservoir using the conserver from the Helios portable. If the user wants to add this option back then CPC Connector Upgrade Kit, PN: 20748595, can be ordered. This change was made due to this feature not being utilized very often by end users and also to simplify the unit, eliminating the need for the quick connect fitting, inline check valve, barbed tee, and associated tubing.

Table 1. PN: CPC Quick Connect Upgrade Kit Components.

Part Number:	Description	Qty.
B-701582-00	Flexible Tube - 1/16in. x 2in.	1
B-701583-00	Flexible Tube - 1/16in. x 3in.	2
B-701584-00	Flexible Tube - 1/16in. x 7.5in.	1
B-701586-00	Quick Connect for Oxygen Supply	1
B-701526-00	Barbed Tee for Flexible Tube -	1
B-701587-00	Inline Check Valve	1

Figures 1 through 6 show the component differences between the older style and newer style HELiOS portables. Figure 7 shows the CPC Quick Connect Kit. See Appendix A for installation of the upgrade kit.



Figure 1. Older Style HELIOS with CPC Fitting.



Figure 2. Current Style HELIOS with Plug.



Figure 3. Older Style HELIOS with Check Valve, Tee, and CPC Fitting with Nut.



Figure 4. Current Style HELIOS with Plug and Nut.



Figure 5. Older Style HELIOS with Check Valve, Tee, and CPC Fitting with Nut (Some components removed and tubing rerouted for clarity).



Figure 6. Current Style HELIOS with Plug and Nut (Some components removed for clarity).



Figure 7. CPC Quick Connect Kit (PN: 20748595) for HELIOS Portables.

Appendix A: Installation of Upgrade Kit

Step 1:

After insuring that the Service Bottle is empty of liquid oxygen and non-pressurized, remove Back Cover and lift the Service Bottle and Heat Exchanger assembly from the front cover carefully not to damage tubing.

Note: If working with H850 unit, remove screw in Vent Valve Assembly using a Torx wrench with T10 Torx head.



(H300)



(H850)

Step 2:

With the Service Bottle and Heat Exchanger assembly slightly lifted from the Front Cover, pull to disconnect the tubing from the Barbed Hose Fitting of the Relief/Economizer Valve.

Lay the Service Bottle and Heat Exchanger assembly off to the side, out of the way of the Front Cover for Steps 1 through 11 to be performed.



Appendix A: Installation of Upgrade Kit (Continued)

Step 3:

Pull to disconnect the tubing from the Barbed Hose Fitting of the Conserver.



Step 4:

With the Front Cover laid on a soft surface, firmly hold down on the inside of the cover and pull the Conserver off of the Knob Assembly.

Lay the Conserver out of the Front Cover with the tubing still connected.



Step 5:

Use a 17mm open-end wrench to hold the nut of the black plug from rotating (Left).

While holding the nut use a 6mm hex wrench to remove the plug from the nut (Right).



Appendix A: Installation of Upgrade Kit (Continued)

Step 6:

Insert the Inline Check Valve through the quick connect hole of the Front cover.



Step 7:

(Left) – Thread the Inline Check Valve and Tubing through the center of the CPC Quick Connector's Nut and start nut on threads (Left).

(Right) – Make sure the CPC Quick Connect fitting is oriented as shown.



Step 8:

With a 5/8 in. open-end wrench, tighten nut.



Appendix A: Installation of Upgrade Kit (Continued)

Step 9:

Ensure arrow on check valve is pointing away from the CPC connector and connect one of the 3 in. Flexible Tubes to the outlet port of the Inline Check Valve.



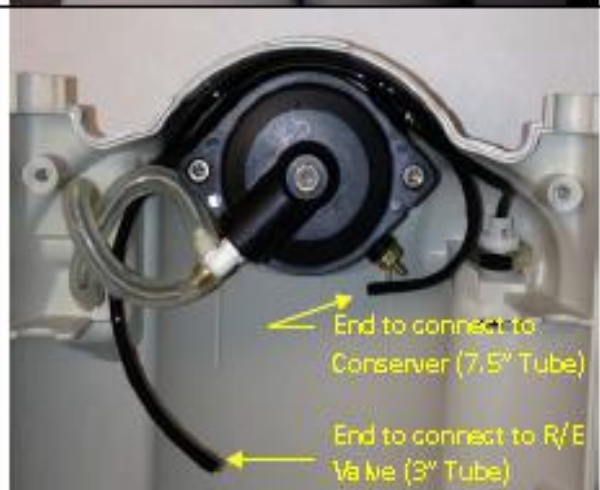
Step 10:

Reassemble Knob Assembly onto the conserver. Make sure the flat contour on the female extrusion of the Knob Assembly is aligned with the flat male surface on the stem of the Conserver.



Step 11:

Route tubing above the Conserver as shown.



Appendix A: Installation of Upgrade Kit (Continued)

Step 12:

Connect the 7.5" Flexible Tube to the Barbed Hose Fitting of the Conservator.



Step 13:

Connect 3" Flexible Tube to the Barbed Hose Fitting of the Relief/Economizer Valve.



Appendix A: Installation of Upgrade Kit (Continued)

Step 14:

Reinstall the Service Bottle and Heat Exchanger assembly into the front cover, careful not to damage or crimp tubing. Installation of Upgrade Kit is now complete.

Note: If working with H850 unit, reinstall screw in Vent Valve Assembly using a Torx wrench with T10 Torx head.

Reinstall Back Cover using Torx wrench with T10 Torx head.



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