Service Bulletin



PN 21497994 A

RELEASE DATE: August 22, 2022

MODEL: AirSep® Topaz[™] 5L and 10L(Ultra) Models

ISSUE: Topaz 5L and 10L Main Circuit Board Retrofit Instructions

NOTES: The CB200 board is the new replacement board for the Topaz model line replacing the CB154 boards and any of its predecessor circuit boards. The procedure below outlines the retrofit of the new board onto an older model Topaz unit.

Tools/Parts Required:

- Needle Nose Pliers
- Scissors or Wire Cutters
- New CB200 circuit Board (table 1 below for proper circuit board PN)
- New WH149-1 Wire Harness
- Tie Wrap

NOTE: If the Topaz currently has an O2 monitoring board, replace with CB196-1.

Table 1

Main Board PN	Model
CB200-3S	Topaz 5L (120V or 220V)
CB200-1S	Topaz Ultra 10L (120V or 220V)

Procedure:

- 1) Switch off the unit and disconnect the power cord.
- 2) Remove front and rear panels by removing the panel screws.
- 3) Disconnect the main power 10-pin connector from the circuit board. See figure 1: main wire harness.



Fig. 1: main wire harness

Copyright © 2022 AirSep Corporation



4) If applicable, cut the tubing at the circuit board pressure transducer allowing the board to be removed. See figure 2: pressure transducer tubing.



Fig. 2: pressure transducer tubing

5) Push in on the circuit board support tabs while you lift each area of the circuit board to remove the board from the control panel. See figure 3: board supports.



Fig. 3: board supports

- 6) Once the board is removed, snap in the new CB200 board using the same board supports.
- Begin removing connections associated with the old wire harness. NOTE: You may want to take photos for your own reference on their connection points. See figures 4-7.

Copyright © 2022 AirSep Corporation

Service Bulletin





Fig. 4: remove all valve connections



Fig. 5: terminal strip for fan/compressor



Fig. 6: back of unit: 220V unit (left), 120V unit (right)

Copyright © 2022 AirSep Corporation

Service Bulletin





Fig. 7: hour meter (left) and power switch (right)

8) Once all the connections are disconnected, feed the old wire harness out through the front of the unit. See figure 8 below.



Fig. 8: removing old wire harness

9) With the old harness removed, begin by making the connections on the front of the unit. Refer to figures 4 and 5.

Copyright © 2022 AirSep Corporation





10) Make the circuit board wire harness connections. See figure 9 CB200 circuit board connections.

Fig. 9: CB200 circuit board connections



11) Feed remaining hour meter, power switch, equalization valve, and power terminal block connections through the backside of the unit. See figure 10.

Copyright © 2022 AirSep Corporation

Fig. 10



- 12) Make backside connections including hour meter, power switch, equalization valve, and power terminal block. Reference figures 4, 6, and 7.
- 13) If applicable, reconnect pressure transducer tubing. You may need to expand tubing with needle nose pliers for proper fit over the transducer bard. See figure 11.



Fig. 11: pressure transducer removal and expansion

14) Connect the tubing to the front right tube port on the CB200 board and secure with a tie wrap. See figure 12. NOTE: historically only a small amount of Topaz generators utilized the pressure transducer located on the circuit board. If the existing unit does not currently have a pressure transducer tube connected to the old board, then nothing has to be connected to the transducer barb on the new CB200 circuit board.



Fig. 12: pressure transducer tubing connection

Copyright © 2022 AirSep Corporation



15) Verify with completed front supplied in Figure 13.



Fig. 13: completed front view

16) Verify proper operation per instructions located in the operator's manual.

Copyright © 2022 AirSep Corporation

AirSep Corporation reserves the right to discontinue its products, or change the prices, materials, equipment, quality, descriptions, specifications and/or processes to its products at any time without prior notice and with no further obligation or consequence. All rights not expressly stated herein are reserved by us, as applicable.



CONTACT:

For technical questions or concerns, contact Technical Service: USA: 800-482-2473 Europe: +44 (0) 118 936 7060 techservice.global@caireinc.com

For ordering information or general inquires, contact Customer Service: USA: 800-482-2473 <u>customerservice.usa@caireinc.com</u>

Europe: +44 (0) 118 936 7060 customerservice.europe@caireinc.com

Copyright © 2022 AirSep Corporation

AirSep Corporation reserves the right to discontinue its products, or change the prices, materials, equipment, quality, descriptions, specifications and/or processes to its products at any time without prior notice and with no further obligation or consequence. All rights not expressly stated herein are reserved by us, as applicable.