

SERVICE AND APPLICATION NOTE

Affected Equipment:

PureAir second generation units

Observance:

The current ballast (part# 101299-01; cat# X8798) has been phased out by the manufacturer. The following instructions explain how to replace ballasts on PCO unit.

Resolution:

- Step 1.** Ensure power to the system is OFF.
- Step 2.** Remove the control box assembly from the system. See Figure 1.

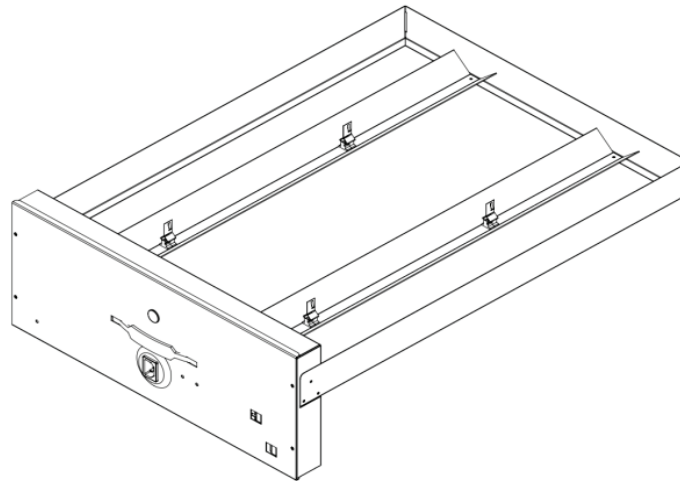


Figure 1. Control Box Assembly

- Step 3.** Remove the four (4) screws securing the cover panel to the control box assembly and remove the cover panel. See Figure 2.

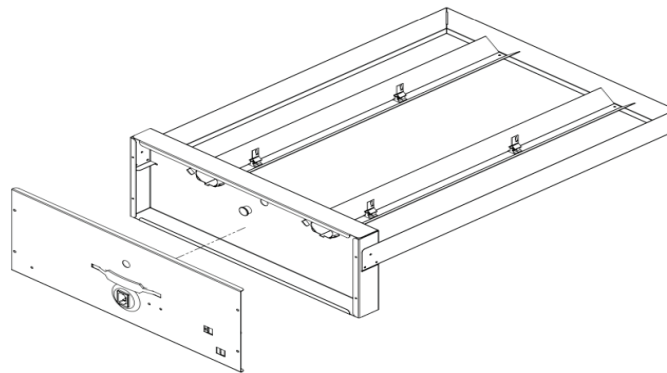


Figure 2. Remove Cover Panel from Control Box Assembly

- Step 4.** Disconnect the wires from the ballast that are attached to the lamp sockets.

NOTE: *If wires cannot be removed from ballast, cut the wires on the ballast side of the ferrite core as close to the ballast as possible, then strip the ends of the newly-cut wires 3/8" in length. Refer to Figure 3.*

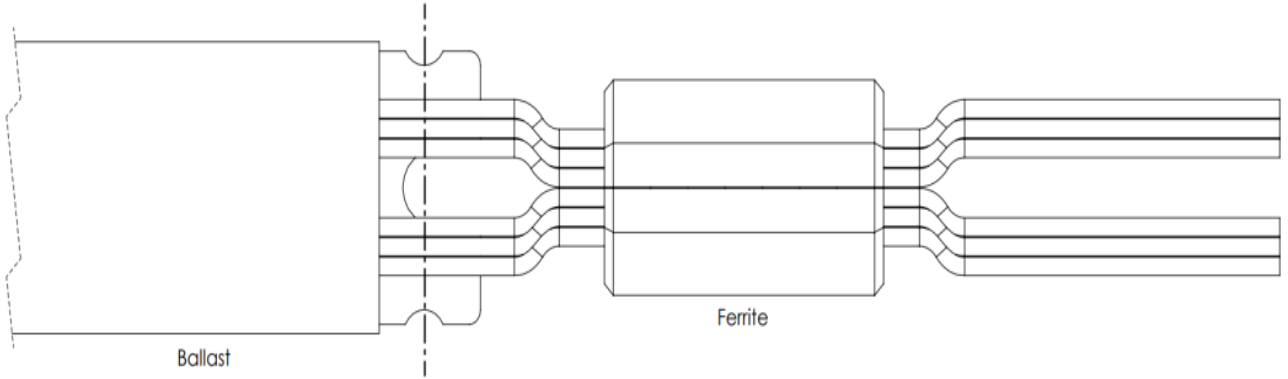


Figure 3. Cut Ballast Lead Wires on Ballast Side of Ferrite Core

- Step 5.** Disconnect the EMI (Electromagnetic Interference) filter from the cover panel ground screw and inlet connector.
Step 6. Remove the ballast and EMI filter from the cover panel. See Figure 4.

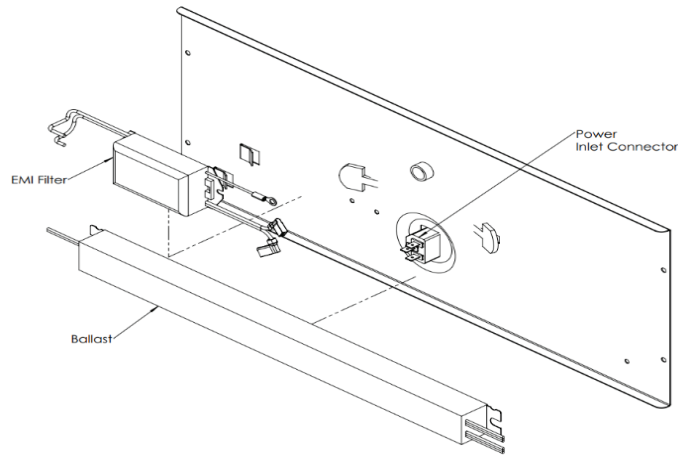


Figure 4. Remove Ballast and EMI filter from the Cover Panel

- Step 7.** Install the replacement ballast with adaptor plate and EMI filter in the same orientation as the removed components. See Figure 5.

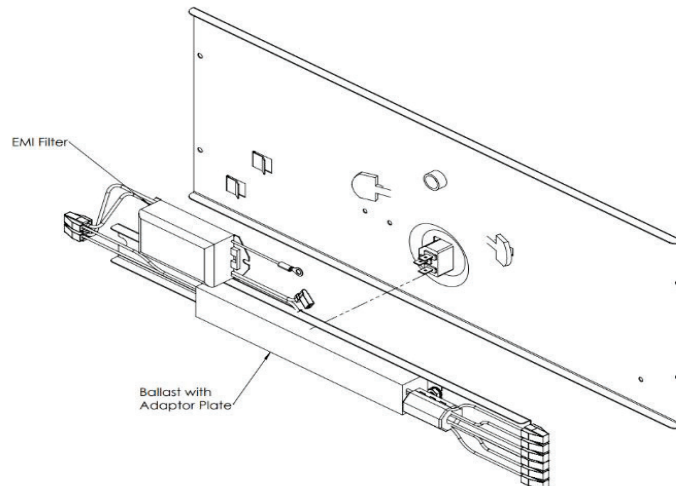


Figure 5. Install Replacement Components

Step 8. Connect the six (6) wire leads from the lamp sockets to the six (6) push-in style connectors pre-assembled with the new ballast. Push in one (1) red wire into each of the connectors attached to a red ballast wire. Push in one (1) blue wire into each of the connectors attached to a blue ballast wire. Push in one (1) yellow wire into each of the connectors attached to a yellow ballast wire. Refer to Figure 6.

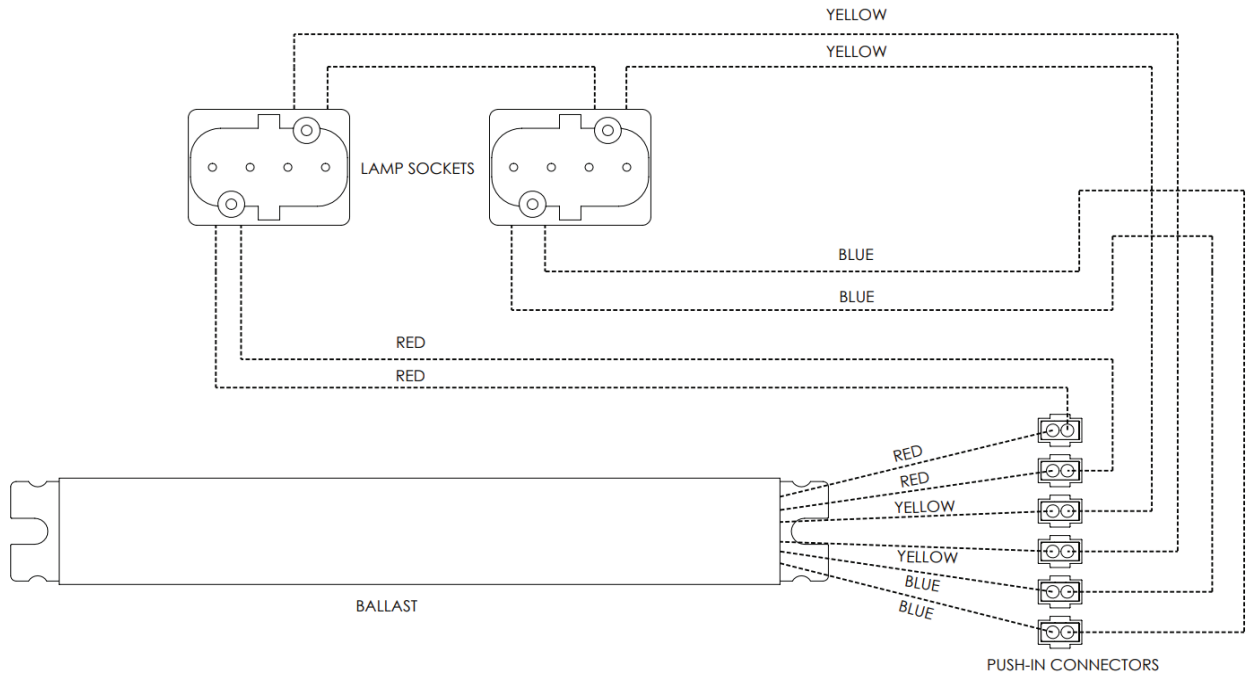


Figure 6. Ballast Wiring Diagram

Step 9. Replace the cover panel on the control box assembly and place the control box assembly back in the system.

