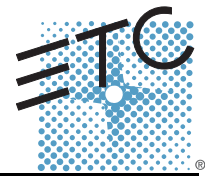


ETC® Service Note

SmartPack Power Cube Replacement



Overview:

SmartPacks have 3 power cubes in each pack. The power cube is responsible for chopping the wave so that we are able to dim conventional sources. This is done by allowing the power cube to receive a low voltage control signal that turns the solid state relay on and off at the proper times to achieve our dimming goals.

Reasons for failure come from short circuits in the cable or fixture. Due to $V = IR$, V is a constant, as resistance approaches 0, our current approaches infinity, which in this case will trip the breaker or burn out the power cube.

Symptoms of a burnt out power cube may include a dimmer being stuck on or off.

Tools Needed:

Phillips #2 Screwdriver

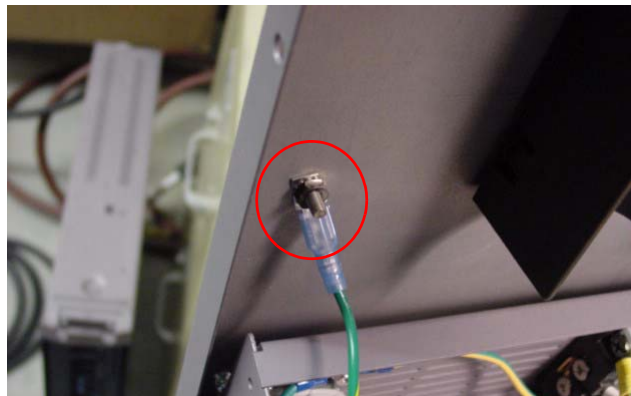
Dental Mirror - Part Number: ETC#I519

Procedure:

- Step 1: With your Phillips #2 Screwdriver, remove (7) screws from the top lid. (3) screws are not shown on opposite side of this photo.



- Step 2: After all (7) screws are out, remove the lid by sliding it back towards the power cable, then lifting it off and out of your way.
- Step 3: Disconnect the circled grounding wire from the lid.

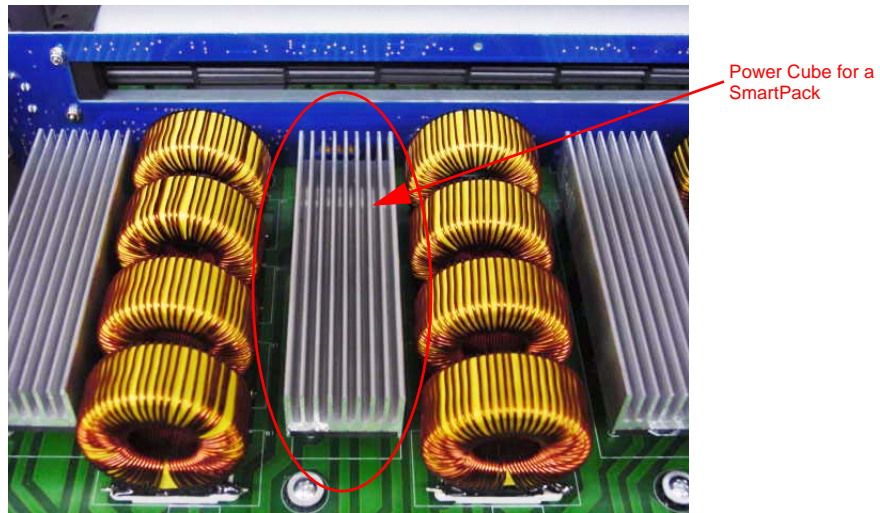


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Web: www.etcconnect.com ■ QSF 4.1.9.1 ■ Copyright © 2009 ETC. All Rights Reserved. ■ Product information and specifications subject to change.
Technical Services ■ Rev A ■ Released 2009-08

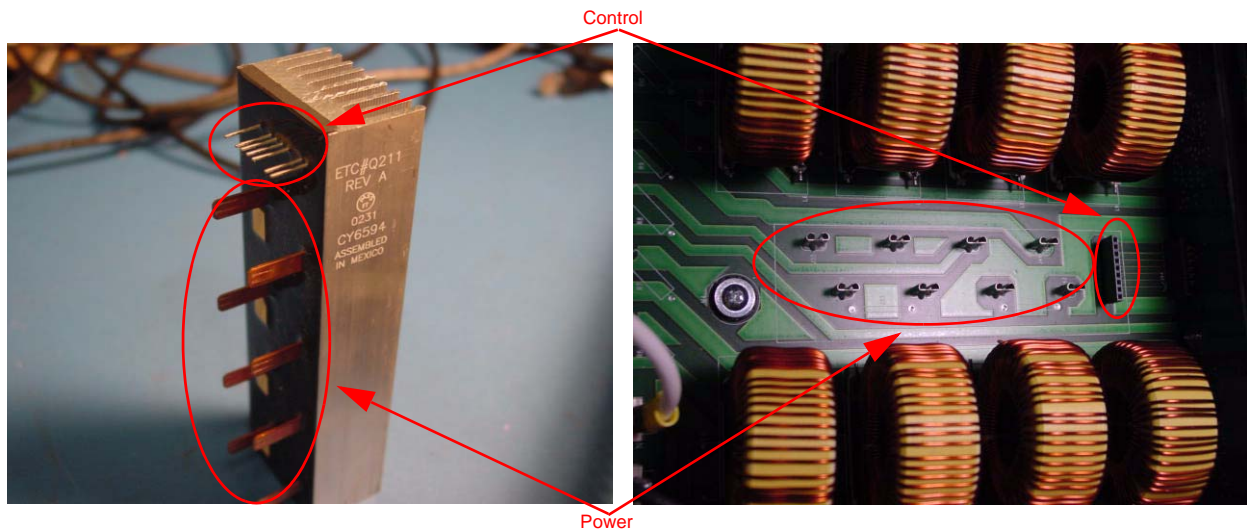
ETC Service Note:

SmartPack Power Cube Replacement

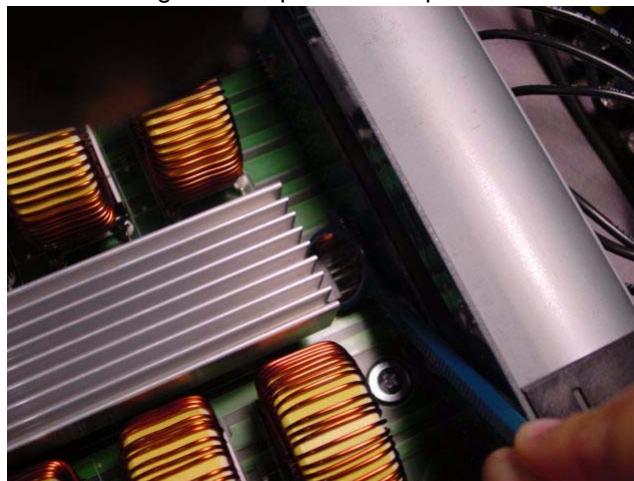
Step 4: Using both hands, wiggle the power cube that needs replacing out of place. Note that you may want to be careful of the header pins farthest away from you in this picture.



Step 5: Locate your new power cube and replace by lining up control to control and power to power.



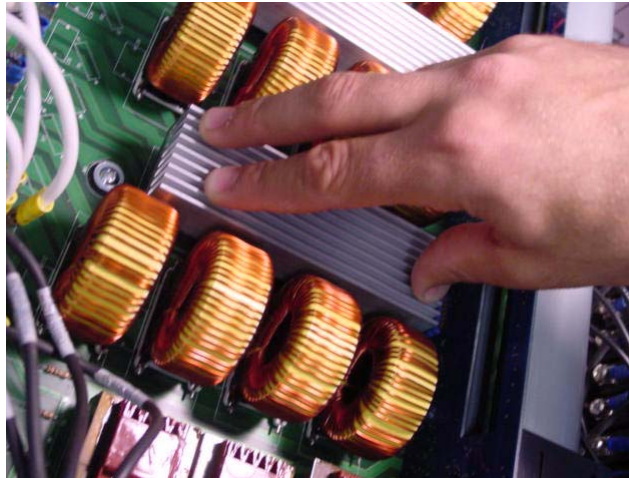
Step 6: Using a Dental Mirror, confirm that all the control and power pins are lined up and will not be damaged when pushed into place.



ETC Service Note:

SmartPack Power Cube Replacement

Step 7: Apply pressure and push the power cube into place until fully seated. It wouldn't be a bad idea to confirm again that all the pins are intact and made it to the location they should be.



Additional Information:

Part numbers for power cubes

Part numbers

Q210

Q211

Description

Power Cube for 6x20A Packs

Power Cube for 12x10A Packs

