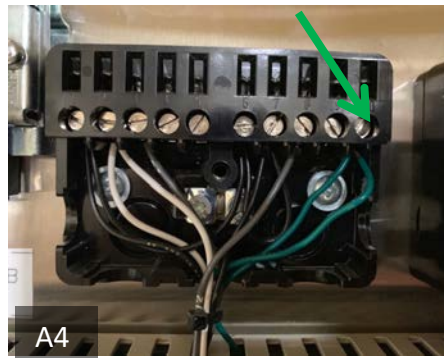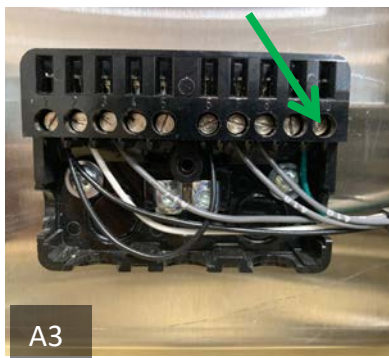# LFE10 to LFS1.21A1 Flame Relay conversion

This is how to convert your LFE10 flame relay to a LFS1.21A1 flame relay. This has been designed to be direct replacement with minimum wiring changes. This is a step by step process. Below are a couple of example panels. Your flame relay could be in a different place. These are pictures of the LFE flame relay that is being replaced. If yours is different please contact the factory before proceeding further.

First turn off the power and lock it out. Then verify that no electricity is present on the panel. Next, remove the LFE from its base by loosening the screw in the middle (Figure A1) and pulling. The only wiring change will be moving the ground wire(s) (should be green) from terminal 10 to terminal 2 on the old LFE wiring base. Figures A3, A4 and A5. If there is more than one ground wire move all to terminal 2. See figure A4. If there is also a grey wire on terminal 10 this should remain. See Figures A5,6 & 7.

Only the wire(s) going to ground needs to be moved to terminal 2. There may be a grey wire, if so leave it in place.

LFE10 to LFS1.21A1 Flame Relay conversion (Cont.)

Now that the old relay has been removed and ground wire(s) removed you are ready to install the LFS flame relay. You should have three pieces. One 26473 conversion base, one 26474 conduit plate, and one 26540 LFS flame relay. See figure A8. Assembled it will look like figure A9.

First, install the 26473 adaptor base onto the old LFE base and tighten the screw. Figure A10.

Next, if the 26474 conduit plate is not installed you can install it at this time. It is not mandatory. It is to lessen dust incursion. See Figure A11. Lastly install the LFS by pushing it onto the base adaptor. Figure A12 is what it will look like. Once power is turned on it should light up with an orange light. Once the flame is lit and the relay sees the flame the light will turn green. If it turns red there is a problem and most likely the ground wire is still on 10. It could also be a broken flame rod.