

# MINI PATIO DOOR HEATER | SPDH SERIES RELAY INSTALLATION

## RE153 - RE156 SERIES

### JUNCTION BOX INSTALLATION AND WIRING - LEFT SIDE ONLY



## WARNING

Before installing and operating this product, the user and/or installer must read, understand and follow these instructions and keep them handy for future reference. If these instructions are not followed, the warranty will be considered null and void and the manufacturer deems no further responsibility for this product. The following instructions must be adhered to in order to avoid personal and serious injuries, property damages and potentially fatal electric shocks. Switch off the power at the circuit breaker/fuse before installing, repairing and cleaning the unit. Make sure the unit is appropriate for the intended use (if needed, refer to the product catalog or a representative).

1. Remove the front cover of the baseboard.
2. Remove the plastic protectors from both sides of the voltage separator supplied. FIG. 1
3. Position the relay on top of the voltage separator. Position the relay (with the arrow pointing towards the top of the box) and install with screws. FIG. 2
4. Insert the blue relay wires (control side) into the hole of the voltage separator. FIG. 2
5. Insert the control wires supplied by the installer into the baseboard electrical box through one of the knock outs (KOE). Then, insert the same wires into the voltage separator hole. Connect the low voltage wires with the relay wires, using an appropriate wire nut. For the connections, refer to the diagram included with the relay.
6. Connect the wire coming from the wireway to a black wire of the relay using with a wire nut. FIG. 3
7. Connect the other black relay wire to the line feed (L1) wire by using a wire nut. Connect the wire from the element to the other line feed wire (L2/N).
8. Close the junction box and replace the cover, making sure the wires are well placed inside the box.



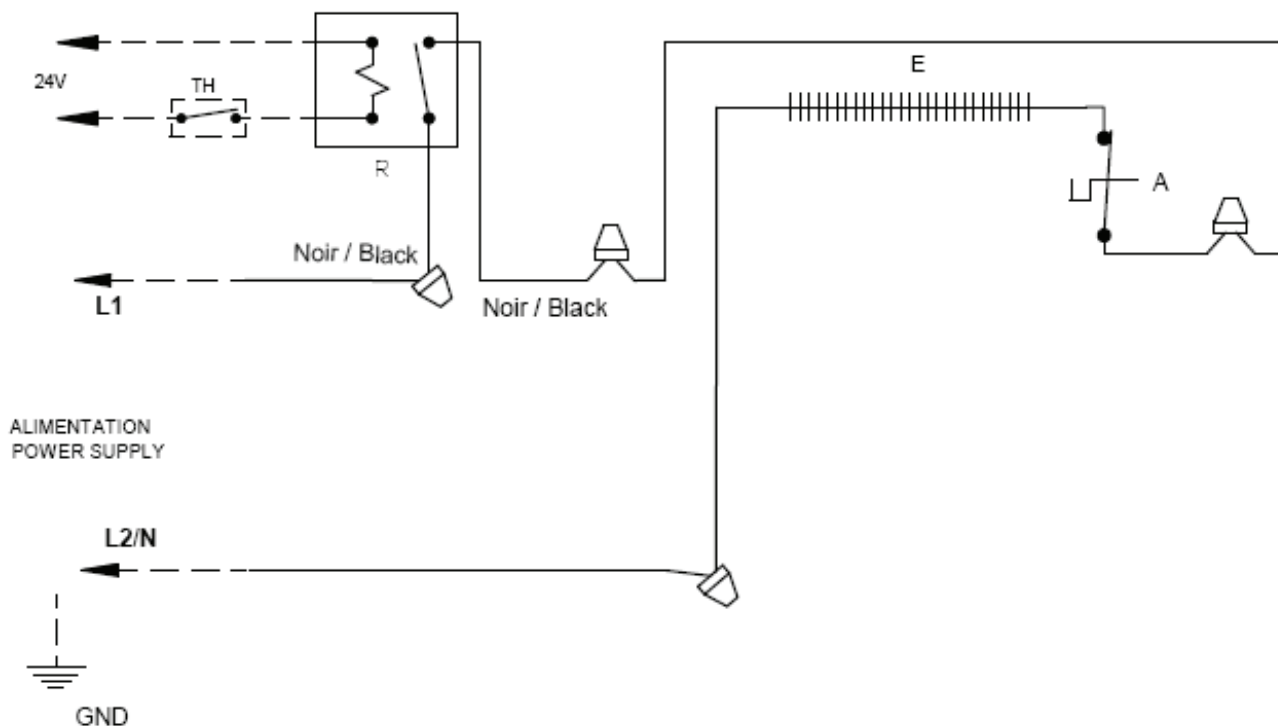
FIG. 1



FIG. 2



FIG. 3



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## RE153 - RE156 SERIES

JUNCTION BOX INSTALLATION AND WIRING - LEFT SIDE ONLY WITH CONNECTION ON RIGHT SIDE



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1. Remove the front cover of the baseboard.
2. Remove the plastic protectors from both sides of the voltage separator supplied. FIG. 1
3. Position the relay on top of the voltage separator. Position the relay (with the arrow pointing towards the top of the box) and install with screws. FIG. 2
4. Insert the blue relay wires (control side) into the separator hole. FIG. 2
5. Connect each blue wire to a red wire (TEW 105) and pass the red wires in the wireway. FIG. 3
6. Remove the wire nut (left side) and connect the element wire to one of the black wires of the relay. FIG. 4
7. Take the red wire coming out the wireway (left side) and connect to the other black wire of the relay.
8. Take the second separator (supplied with the kit) and install it with two screws in the right junction box. FIG. 5
9. Pass the control wires (red) in the separator and wire according to the schematic provided. FIG. 6
10. Remove the wire nut and connect the line wires (L1- L2/N). FIG. 7

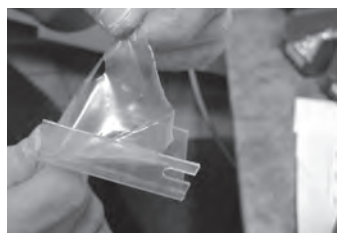


FIG. 1



FIG. 2



FIG. 3



FIG. 4

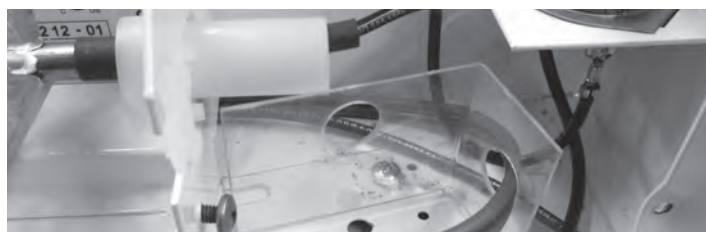
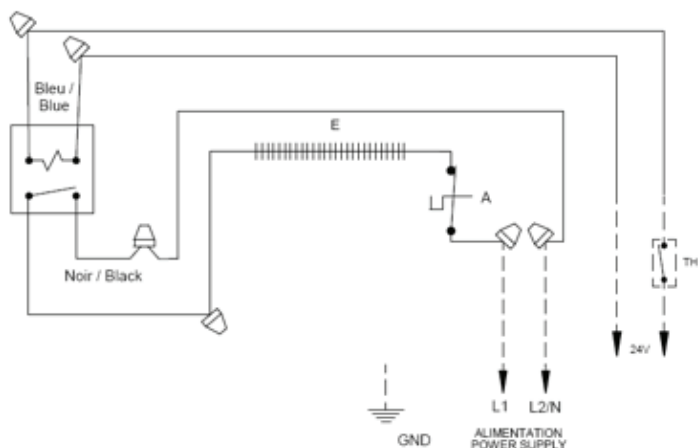


FIG. 5 & 6



FIG. 7



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1. Remove the front cover of the baseboard.
2. Remove the plastic protectors from both sides of the voltage separator supplied. FIG. 1
3. Position the relay on top of the voltage separator. Position the relay (with the arrow pointing towards the top of the box) and install with screws. FIG. 2
4. Insert the black, red and white relay wires (control side) into the hole of the voltage separator. FIG. 2
5. Insert the control wires supplied by the installer into the baseboard electrical box through one of the knock outs (KOE). Then insert the same wires into the voltage separator hole. Connect the low voltage wires with the relay wires, using a wire nut. Refer to the diagram included with the relay for the different options.
6. Connect the blue relay wire to the wire that comes out of the wire way (at the bottom of the unit) by using an appropriate wire nut. FIG. 3
7. Connect the white relay wire (power side) to the heating element wire and a line feed (L2/N) wire by using an appropriate wire nut. FIG. 4
8. Connect the black relay wire (power side) to the other wire coming from the line feed (L1) by using an appropriate wire nut.
9. Close the junction box and replace the cover, making sure the wires are well placed inside the box.



FIG. 1



FIG. 2

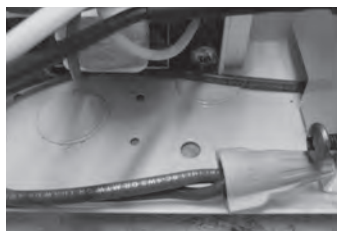
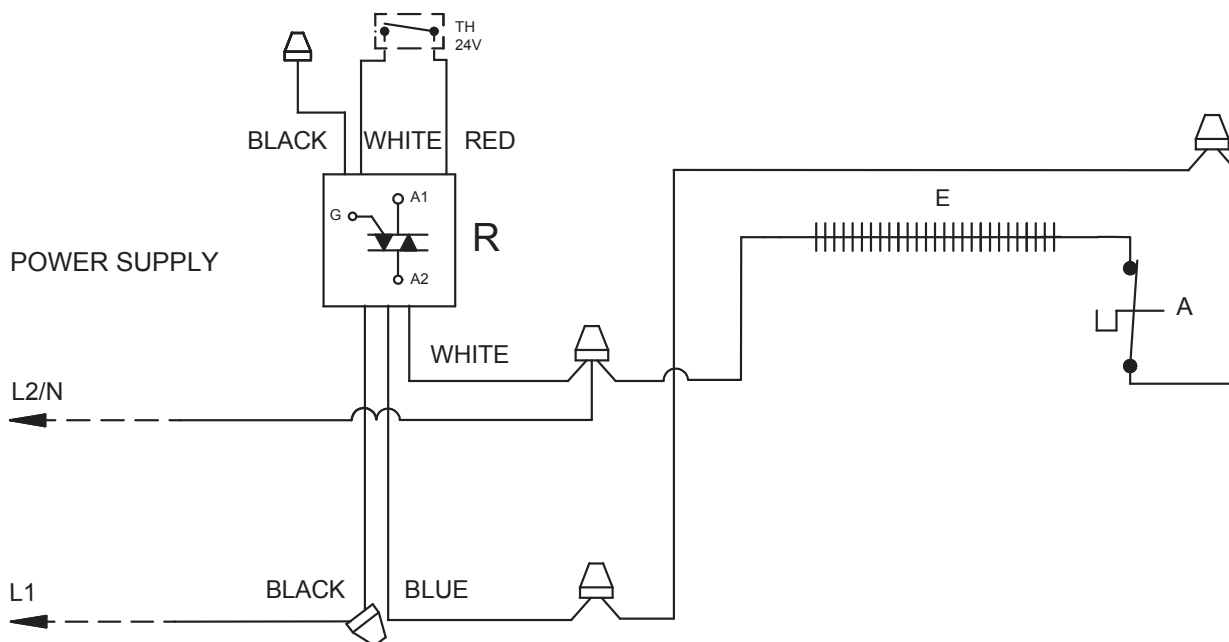


FIG. 3



FIG. 4



# MINI PATIO DOOR HEATER | SPDH SERIES RELAY INSTALLATION

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1. Remove the front cover of the baseboard.
2. Remove the plastic protectors from both sides of the voltage separator supplied. FIG. 1
3. Position the relay on top of the voltage separator. Position the relay (with the arrow pointing towards the top of the box) and install with screws. FIG. 2
4. Insert the black, red and white relay wires (control side) into the separator hole. FIG. 2
5. Connect the 3 control wires (red, black and white) with the 3 appropriate wires (TEW 105). Next, pass the 3 wires in the wireway to the right junction box. FIG. 6
6. Remove the wirenut (left junction box), connect the element wire to the blue wire of the relay, FIG. 3. The red wire coming out the wireway will connect with the white wire of the relay, FIG. 4. A red wire (TEW 105) will connect with the black wire of the relay and then pass into the wireway to the right junction box. FIG. 5
7. Take the second separator (supplied with the kit) and fix it with 2 screws in the right junction box. FIG. 7
8. Pass the 3-control wires into the separator and connect according to the schematic provided. FIG. 8
9. The red wire coming from the white wire of the relay (14 AWG) must connect with the thermal protection wire and the line wire L1. The red wire coming from the black wire of the relay (14 AWG) connects to the line wire (L2/N). FIG. 9

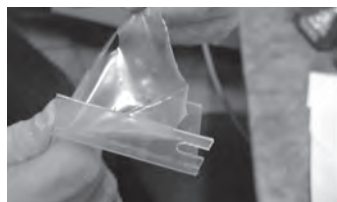


FIG. 1



FIG. 2



FIG. 3



FIG. 4



FIG. 1



FIG. 2



FIG. 3



FIG. 4

