

Supplemental Installation Guide for Silvia E

KIT-RSPb
(April 2016)

This is a supplemental guide for Rancilio Silvia E, released on the winter of 2015 for European market. Since the changes of Silvia E are very limited from Silvia V4, this guide only cover the installation steps that need to be adjusted due to these changes. Here is quick summarization of the changes on the kit installation.

- 1) The installation of SSR is slight different. The Rancilio Silvia E added a new timer at the place that was used for installing the SSR. The timer needs to be move to the other side.
- 2) The connection of the SSR's output wires to the cable on the top of boiler is slight different due to the change in cable color.
- 3) The tapping of power is different. The main power switch of the Silvia E has changed from the original mechanical ON/OFF switch to a push button reset switch. Therefore, we have to tap the power from the brew switch.

User should still refer the "KIT-RSPb Installation guide V1-6" as the main installation guide.

1. Install the SSR.

1.1. Move the timer.

The timer (the black box on the left) needs to be moved to the right side so that SSR can be installed at the place shown in original guide.

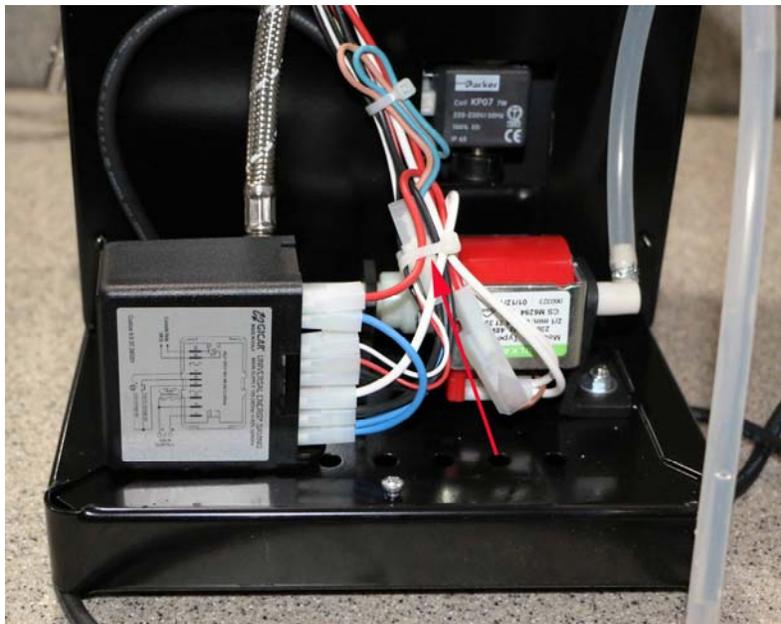


Figure 1. Cut the cable tie indicated by the red arrow.



Figure 2. Mount the timer to the right side (also see Figure 5). Please note location of the white connector on the red cable.

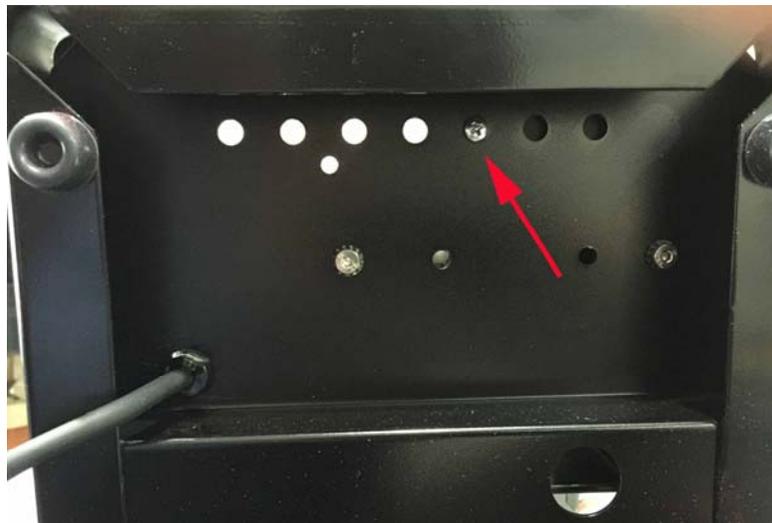


Figure 3. The screw that holds the timer is pointed by the red arrow.

1.2. Mount the SSR.

Install the SSR to the location where the timer was originally located (Figure 4). Please also pay attention to the SSR's orientation.



Figure 4. Mount the SSR to the location where the timer was originally installed.

Then connect the cables to the SSR. The black SSR output cables for steam thermostat are installed on terminal 1 and 2. The red SSR output cables for brew thermostat are installed on terminal 3 and 4. The two thin brew control cables (red and white) are connected to terminal 5 and 6 (red cable to terminal 5 and white cable to terminal 6). The two thin steam control cables (red and blue) should be connected to terminal 7 and 8 on the SSR (red cable to terminal 7 and blue cable to terminal 8). After connecting all eight cables to the SSR, put a cable tie to hold the cables together.

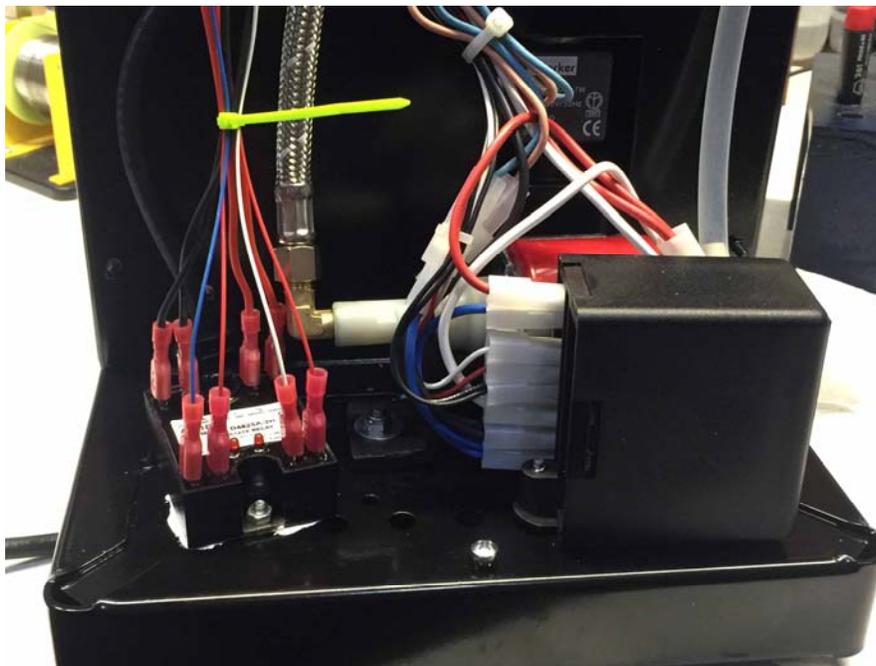


Figure 5. Install the cables on the SSR.

2. Connect Cables Attached to Thermostats on the Boiler.

There are four cables connected to the brew and steam control thermostats that need to be disconnected. See Figure 6 for cables/connectors pointed by the red arrows. Then connect the SSR's output cables to the cables disconnected from the thermostats. **Please make sure that colors of cables match the picture.** Two red cables from the SSR should be connected to the cables originally connected to the brew thermostat. Two black cable from the SSR should be connected to the cables originally connected to the steam thermostat.

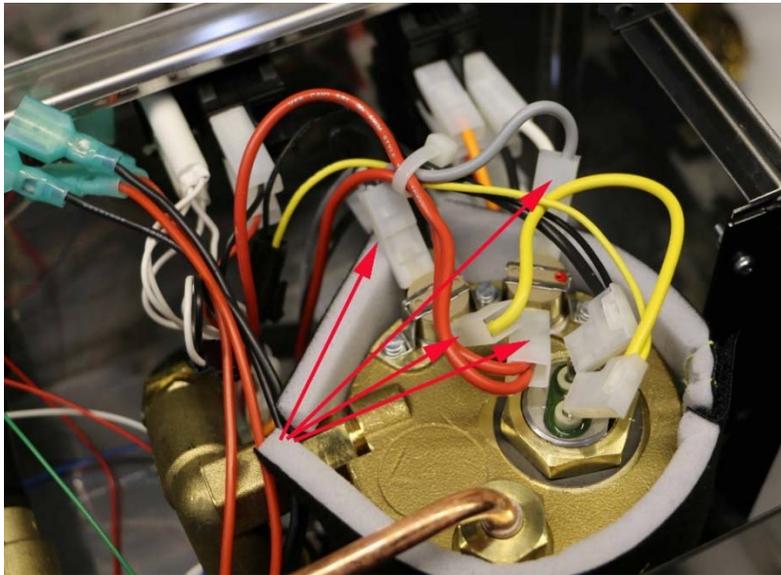


Figure 6. Four cables need to be disconnected are pointed by red arrows.

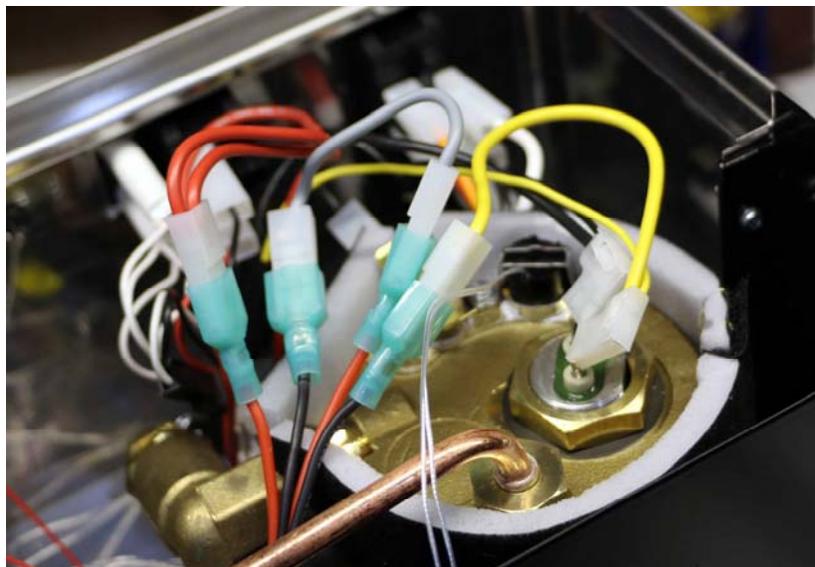


Figure 7. Connecting the SSR's output cables (two black cables and two red cables) to the cables disconnected from the thermostats.

3. Tapping the Power to the Controller

Replace the original brew thermostat with the RTDStat (pointed by the blue arrow in Figure 8). Then we will tap two cables on the brew switch (pointed by green arrows in Figure 8) to supply power to the controller. The green arrows point to a red and a black cable connected to the lower two blades on the brew switch.

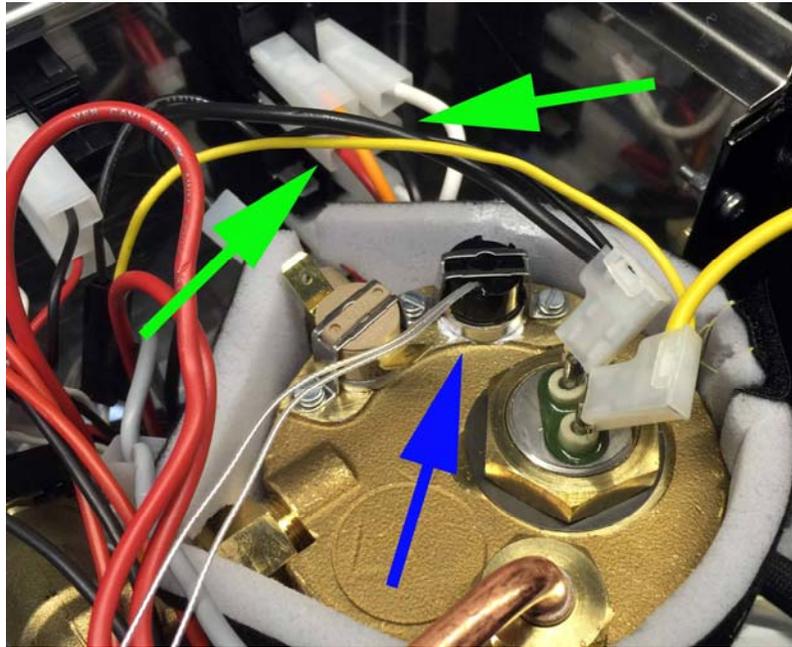


Figure 8. Cables need to be tapped are pointed by green arrows.

Remove all four cables from the brew switch. Connect the green control cable (pointed by the red arrow in Figure 9) to the white cable removed from the brew switch. Connect the piggyback connector on the brown cable to the red cable that we just removed from the brew switch. Connect another piggyback connector on the black cable to the black cable that we just removed from the brew switch. Both piggyback connectors are pointed by green arrows in Figure 9.

Next, put the piggyback connector on the brown cable (with the red cable attached) to the lower left blades of the brew switch. Put the other piggyback connector on the black cable (with the black cable attached) to the lower right blade of the brew switch. Please refer to Figure 10 for cable/connectors pointed by red arrows. Put the orange cable back to its original position, which is the top left blade on the brew switch (please also refer to Figure 6 and Figure 11).

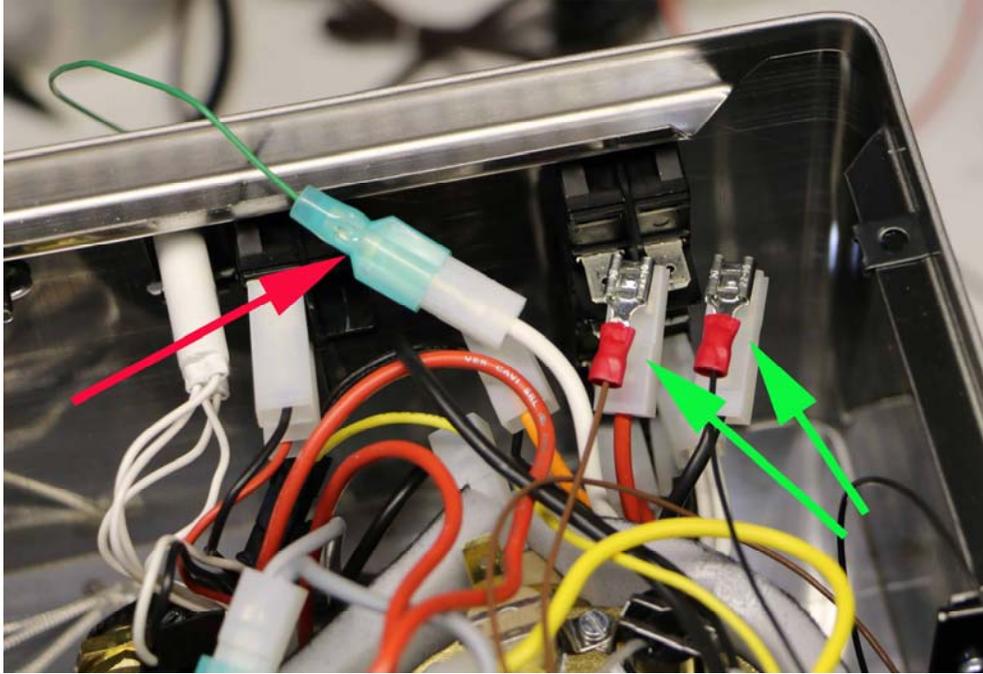


Figure 9. Tapping the brown and black cable from the controller to the red and black cable removed from the brew switch. Connect the green cable from the controller to the white cable removed from the brew switch.

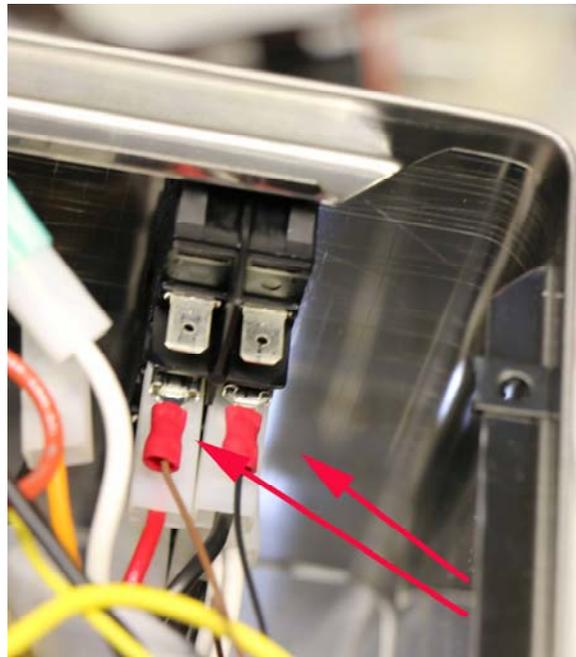


Figure 10. Put the piggyback connectors back to the brew switch.

The final view of the Silvia E machine is shown in Figure 11. Do not tie up the cables till you connect all wires to the controller and installed the controller enclosure onto the machine.

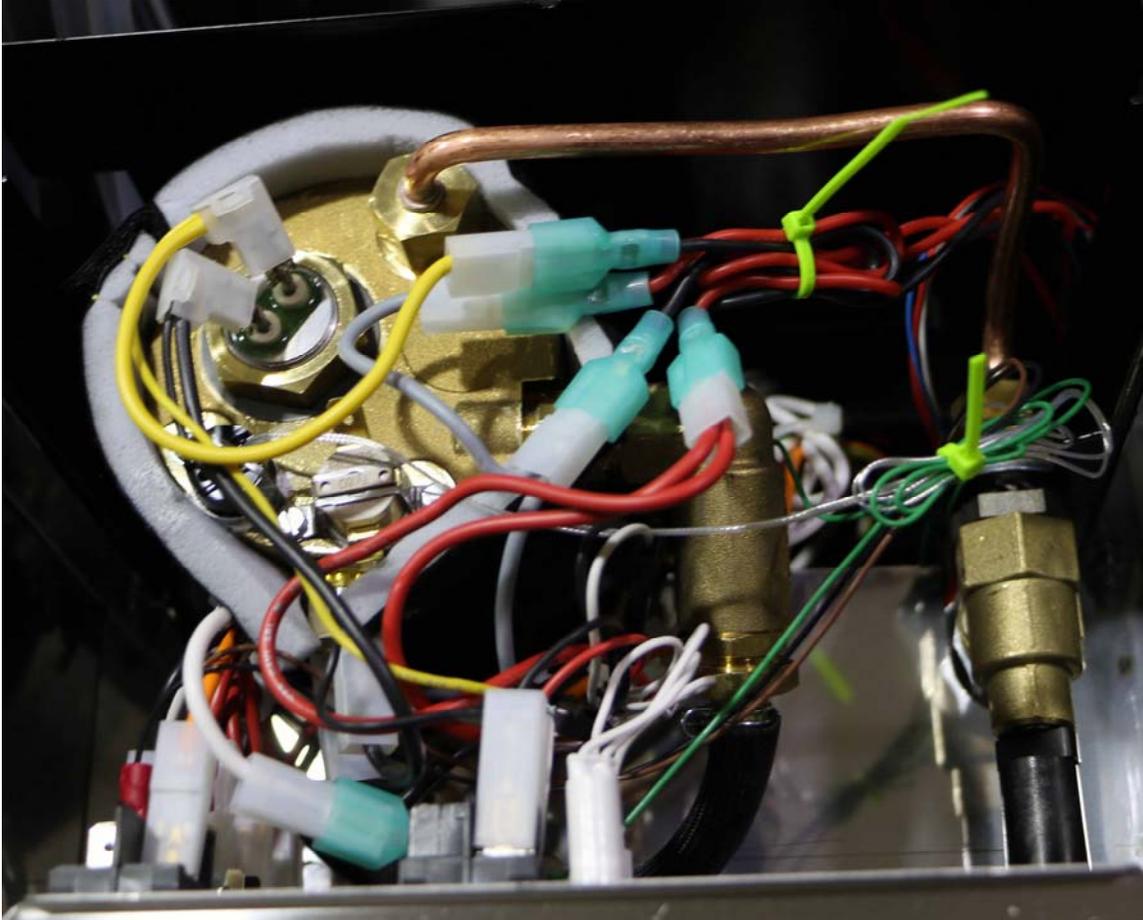


Figure 11. Final view of the Silvia E machine (facing the front panel, looking down from the top).

(End)