

Technical Service Bulletin:

SSB160 Flue Pressure Differential Switch Replacement

Models: SSB160 Floor Standing Boilers



BOSCH



Please read this entire document prior to proceeding with any work.



WARNING:

- ▶ This bulletin is intended to provide technical guidance to a professional who is licensed and qualified to work on heat pump products, components, and refrigerant. If you are not qualified to work on such equipment, please obtain the services of such a professional.



WARNING: HAZARDOUS VOLTAGE

- ▶ Disconnect all electrical power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized.

Replacement Procedure

This bulletin describes how to replace the existing flue pressure differential switch with the new Huba flue pressure differential switch.

1. Ensure that the power to the boiler is turned Off prior to removing the front panel.
2. Remove the boiler's front panel.
3. Locate the existing flue pressure differential switch towards the top of the boiler (see Fig.1).

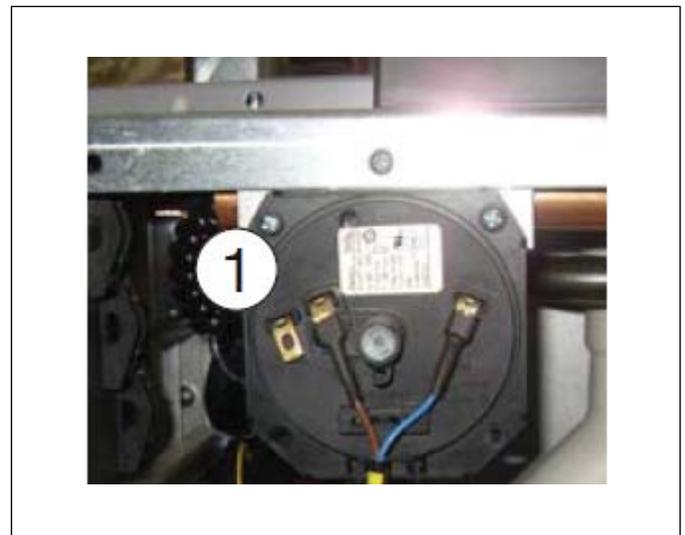


Figure 1

4. Disconnect the existing wiring and silicon pressure tube from the flue pressure differential switch, and then remove the switch and its mounting bracket from the boiler.
5. We recommend that the following installer-supplied hardware (see Table 1) be used to mount the new flue pressure switch to the boiler's chassis:

ITEM 1	ITEM 2	ITEM 3	ITEM 4	
				
M6 x 14 Bolt	6.5 x 18 x 1.5 Washer	6.4 x 12 x 1.6 Washer	M6 Lock Nut	Complete Hardware Assembly

Table 1

- Place the bolt and washer (Item 1 & 2, Table 1) through the new pressure switch bracket from behind.

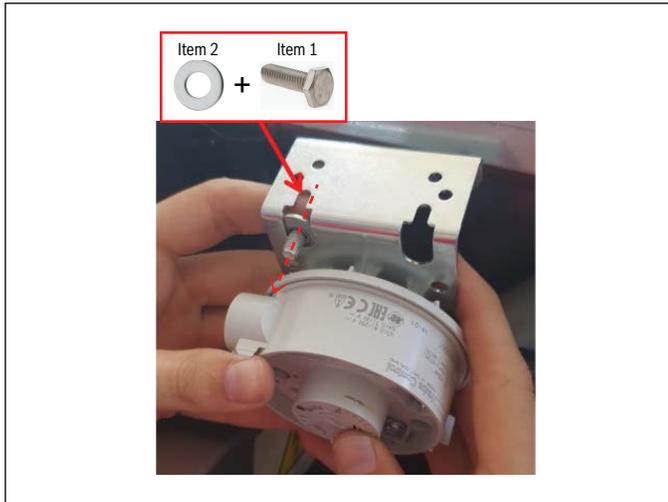


Figure 2

- Mount new pressure switch to the boiler's chassis by maneuvering the switch up and around copper pipe shown in Figure 3. The pressure switch bracket with bolt and washer (Items 1 & 2) should come through the backside of the flange it is mounted to on the boiler chassis.

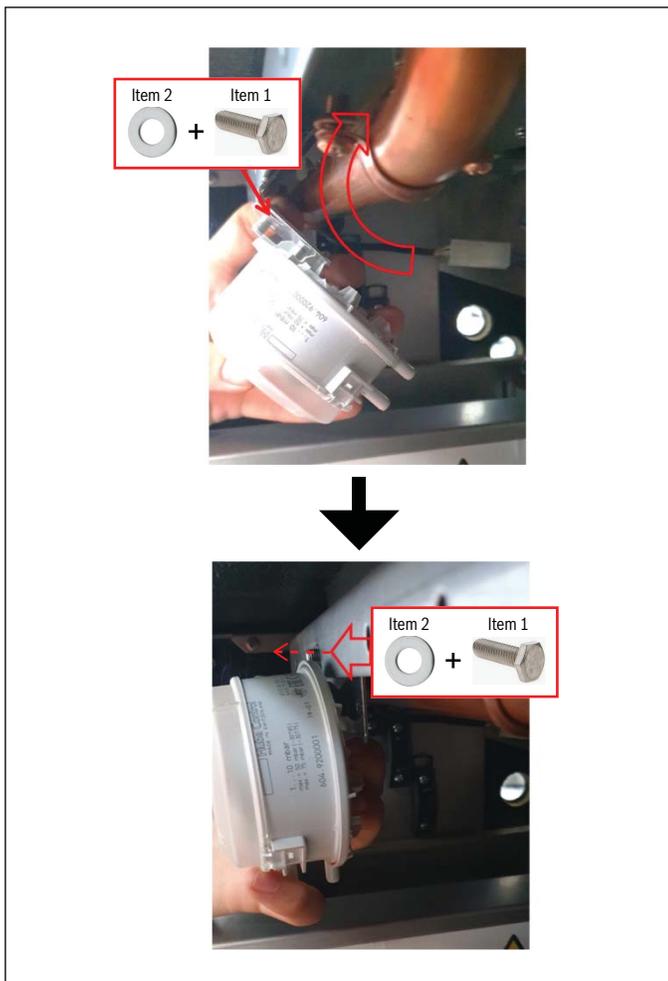


Figure 3

- Use a washer and lock nut (Items 3 & 4, Table 1) to secure bracket in place (see Figure 4). Use a socket and open wrench to ensure that the hardware is secure.



Figure 4

- Release the two tabs on the side of the new pressure switch to remove the front cover.

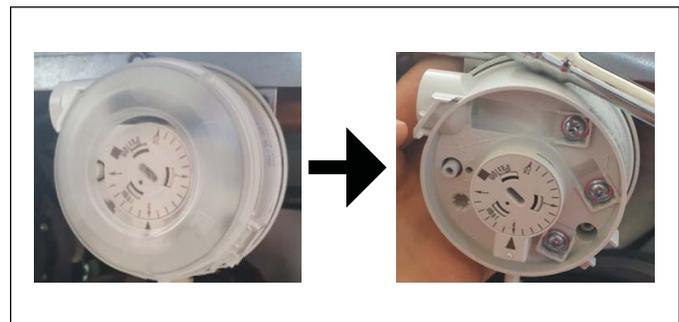


Figure 5

- Snip the connectors from the ends of the two existing wires that were connected to the original pressure switch.

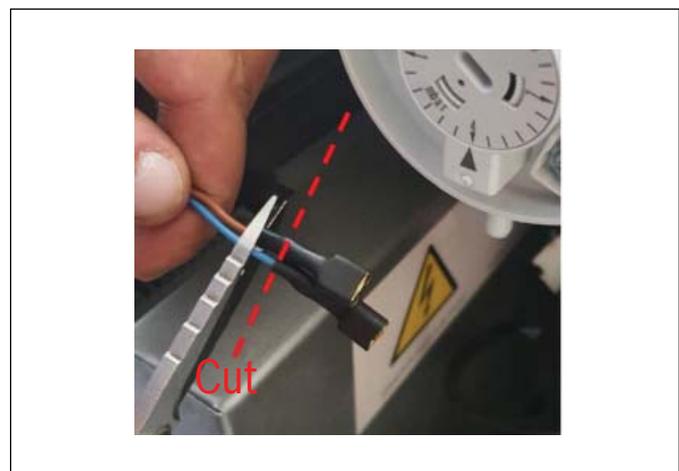


Figure 6

11. Ensure that the cable strain relief is in place over the cable insulation.



Figure 7

12. Carefully remove 1" of the black outer insulation (take care to not slice into the brown and blue wires inside!).

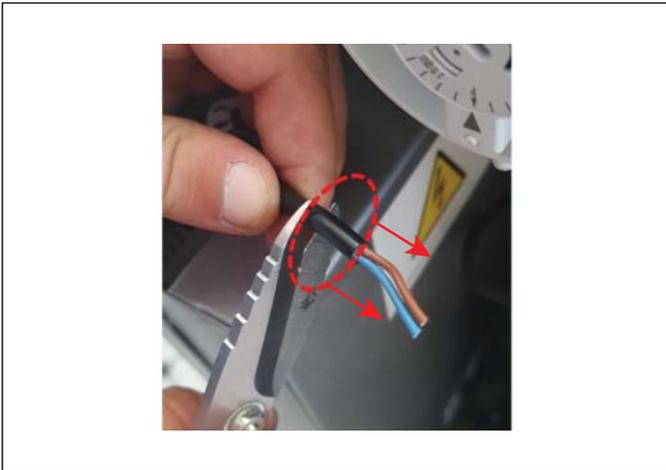


Figure 8

13. Strip the ends of the brown and blue wires (see Figure 9 below).

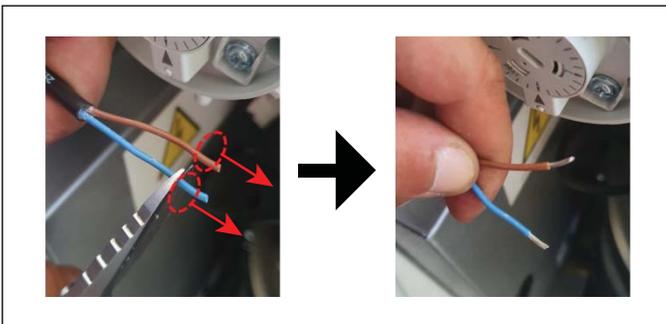


Figure 9

14. Insert the cable with stripped ends into the body of the pressure switch.

15. Inside the new pressure switch you will see three screw terminals (labeled "1", "2", and "3"). Connect the blue wire to terminal "1" and the brown wire to terminal "2" (terminal "3" is unused).

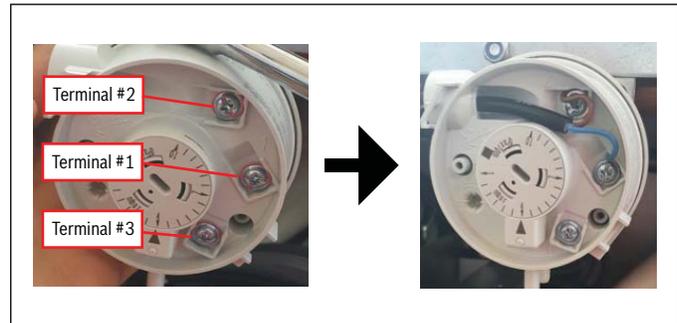


Figure 10

16. Tighten cable strain relief and attach the silicon pressure tube to the inlet (+) on the rear of the pressure switch (see Figure 11 below).

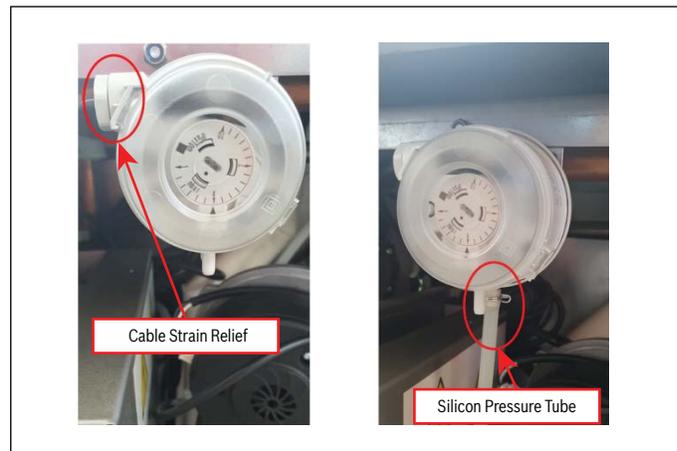


Figure 11

17. Reattach the cover to the front of the pressure switch.
18. Reattach the boiler's front cover, turn the power back on, and run the boiler to ensure correct operation.
19. Installation of the new pressure differential switch is complete.



BOSCH

Bosch Thermotechnology Corp.

65 Grove Street
Watertown, MA 02472

Tel: 1-866-642-3198

Fax: 1-603-965-7581

www.bosch-thermotechnology.us