

# P-271B Safety Ignition Module+ (SIM+) Replacement Kit Instructions

IBC Part #	Description	Boiler Model
P-271B	Safety Ignition Module+ (SIM+)	SL 85 G3, SL 115 G3, SL 160 G3, SL 199 G3



## Warning

This kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, an explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit.

Kit contents:

- » SIM+ module (backwards compatible mode)
- » 2 x screws - 6-32 x 5/8"

## Note

For increased reliability, we recommend that you replace the ignitor (purchased separately) at the same time as the SIM. However, ignitors with low running hours can be reused.

# Replacing a SIM+ module

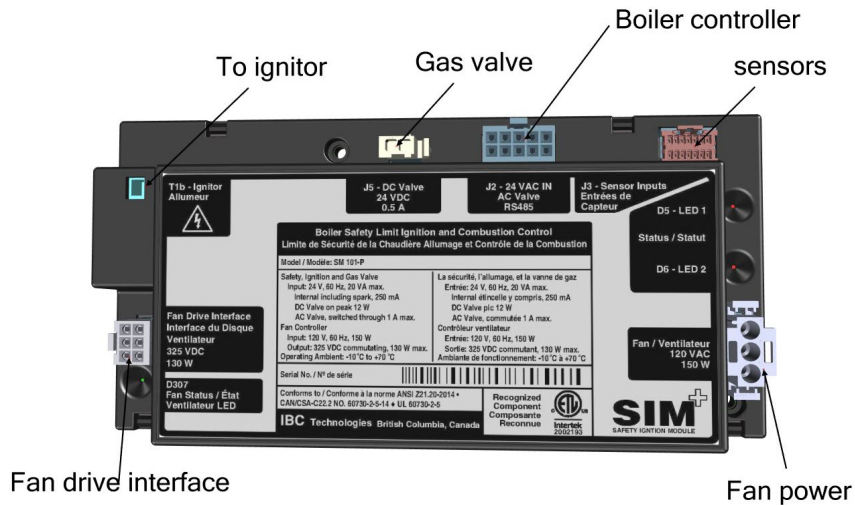


Figure 1 SIM connections

1. Disconnect the power to the boiler and close the gas shut-off valve.  
 All the module's connector plugs, except the ignition lead, have retaining clips.
2. Note the position of the retaining clips for each plug.  
 To unplug the connectors, you must press down on the retaining clips and then properly release them.
3. Unplug all the connectors from the module.
4. Check that the wire connections are still solid and secure.
5. To remove the existing module, hold it in place as you unscrew the two mounting screws. Retain the screws.
6. Position the new module, so that the mounting holes align.
7. Insert the screws and lightly tighten to secure the module in place. Do not over tighten.
8. Plug the connectors into their respective sockets (see image above), ensuring that the retaining clips click into place properly. Each wire connector plug should fit snugly into a socket.
9. (Optional) Replace the ignitor now if required.
10. Leaving the gas off, initiate a call for heat.
11. Look through the sight glass to check that a spark is present during the ignition trial.
12. If the spark looks bright and stable, turn on the gas and allow the boiler to go through another trial for ignition. It should light off smoothly and quietly.