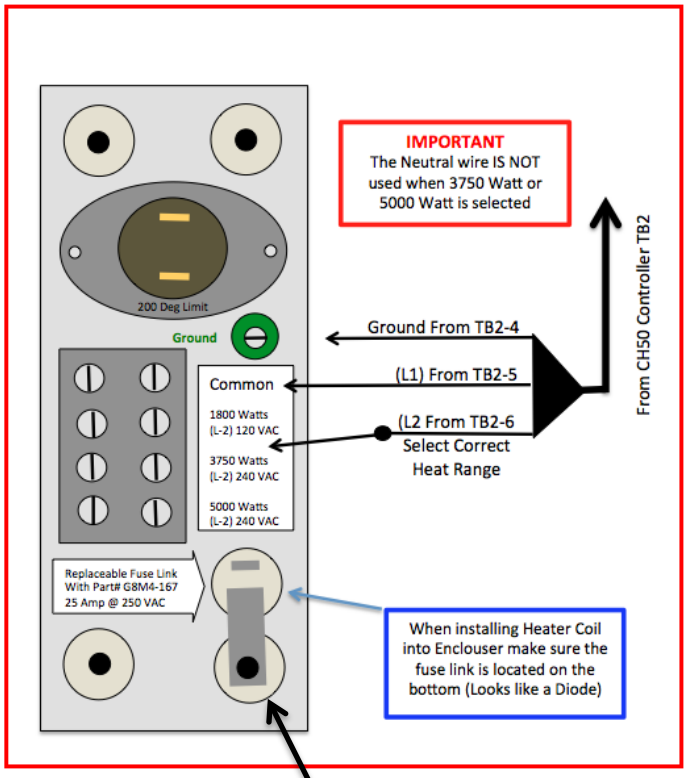
Replacing Fusible Link

Most important thing to remember before replacing "Fusible Link"; in ***Every Case*** if the fuse link opens it is caused by a lack of airflow for the heat being generated by the heater coil. This problem needs to be resolved before replacing the blown fuse link with a new one. Some of the most common problems are as follows:

- (+) 12 VDC wire connected to the blower motor red wire is a loose connection (Scotch lock may not be fastened correctly or has come loose).
- Blower motor is intermittent because of bad bearings; bad brushed, or loose internal wires (this can happen to a new furnace or blower motor).
- Not enough ductwork (2" duct runs don't count) to carry off the heat the electric coil is producing (its not uncommon to find RV Manufactures ductwork to be lacking).
- Low 12 VDC supply feeding the Furnace (may be caused by low shore power being supplied to the RV's 12 VDC converter).
- Lack of Supply and/or Return Air airflow in ductwork (may be crushed duct or blockage at the registers and/or grills).
- There not may be supply air ductwork attached to the cabinet adapter adjacent to the heaters power head in line with the temperatures sensors. The air needs to circulate around those sensors to allow them to since accurate internal air temperature inside the cabinet plenum.

****BE SURE ALL POWER IS TURNED OF BEFORE REPAIR IS ATTEMPED**



Remove nut up plug wire remove porcelain/fusible link. Reveres process to reinstall fusible link.

Testing

Resistance Measurements:

- 5000 to Common = 11 Ohms (+ or-) 1 Ohm
- 3750 to Common = 14 Ohms (+ or -) 1 Ohm
- 1800 to Common = 8 Ohms (+or -) 1 Ohm

Discharge Air Temperature:

- Measured air temperature inside the *ALL* supply air duct with in *NO MORE* than 3 inches away from the cabinet adapter should not exceed **160 F Degrees**.

Voltage Measurements:

Do not test one leg to ground test as follows

- 5000 to Common = 240 VAC
  Hot to Hot (No Neutral used)
- 3750 to Common = 240 VAC
  Hot to Hot (No Neutral used)
- 1800 to Common = 120 VAC
  Hot to Neutral