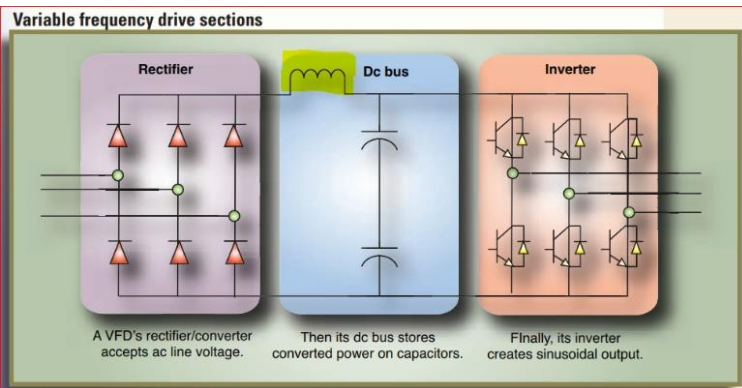


In-line Voltage Reactor

Residential – Heating & Cooling

HOW IT WORKS

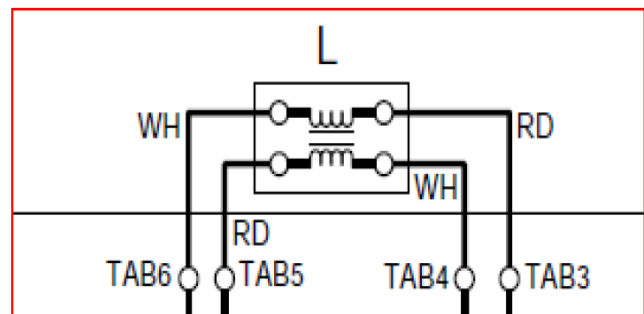
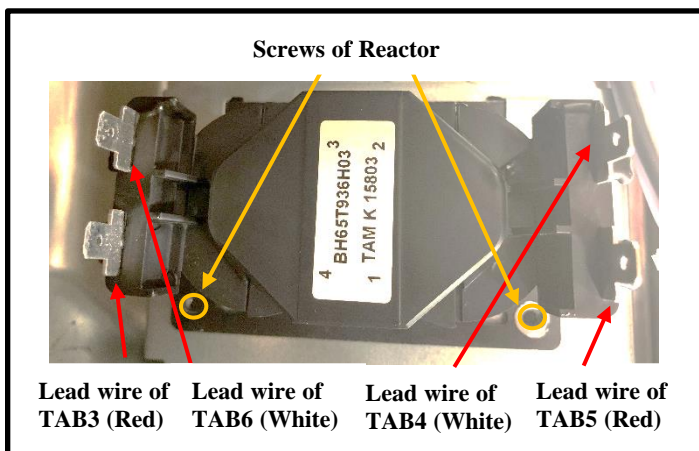



DC line reactors are installed in Mitsubishi Electric residential heat pump systems between the input rectifier and the DC bus. DC bus reactor limits the peak value of the line (supply) current, which reduces harmonic distortion.

Reactors seldom fail in HVAC so they can be extraordinarily tricky when it comes to troubleshooting. Generally, the reactor itself does not fail, but when another part (power board for example) is being replaced and the reactor wires are unplugged, and wires are incorrectly reconnected causing further issues with the HVAC system.

Unfortunately, reactor tabs itself are not labelled; always refer to the printed wiring diagram inside the top cover of the unit. Please also use the pictures below to identify the DC line reactor terminals and wire correctly as per wiring diagram.

Current Mitsubishi Electric MXZ 2, 3 and 4 zone products use this type of reactor.
For other models, please ensure DC line reactors are also correctly wired as per wiring diagrams.



Common issues and error codes which arise due to reactor miswiring:

- **Outdoor unit DC voltage problems:** Error indication LED1 (RED) ON and LED2 (YELLOW) **blinks** twice
- **Bus Bar voltage problem:** LED1 (RED) **blinks** nine times and LED2 (YELLOW) is **OFF**
- **New power board** installed in unit but still have DC voltage problems.