

## KIB RELAYS

- There is four different models of relays and each model is a latching style relay.
- All four models are rated at the same continuous duty amperage (110 Amps).
- A latching style relay is a style that does not require constant voltage / amperage to stay closed.
- They all start out as the LR9806 and are finished off to create each individual model:
  - LR9806
    - Typical has a red fused wire and a green fused wire. If the relay only has one wire that is fused then the switch or switch location does not have an indicator to tell you that its either latched or un-latched.
    - The relay can be actuated by 3 different means depending on how the circuit was designed.
      - Negatively triggered from switch
      - Positively triggered from switch
      - Or a polarity that is flip-flopped from the switch (Momentary-Off-Momentary Switch).
  - LR9806WB
    - Has a red fused wire and a green fused wire that leads to a 6 position white or clear plastic plug.
    - The trigger wires are already installed to the trigger terminals and these also are attached to the plug.
    - This relay was only sold to Monaco Coach but Monaco also used the LR9806F as well as this one.
    - The relay can be actuated by 3 different means depending on how the circuit was designed.
      - Negatively triggered from switch
      - Positively triggered from switch
      - Or a polarity that is flip-flopped from the switch (Momentary-Off-Momentary Switch)
  - LR9806C-BIP
    - Was originally known / sold as the LR9806C.
    - The current LR9806C-BIP relay has a counter EMF suppression board attached to the positive actuation terminal of the relay.
      - A counter EMF suppression board shunts the high voltage spike back into the relay so that this spike doesn't enter the voltage plane of the RV which could damage solid state devices on this voltage plane.
    - Only typically has one fuse installed on the relay.
    - The 5/16" terminal that has the fuse connected to it is the battery side.
    - The coil of the relay is powered up with a positive voltage all the time and thus requires a negative trigger pulse to actuate.
  - LR9806J-BIP
    - The current LR9806J-BIP relay has a counter EMF suppression board attached to the positive actuation terminal of the relay.
    - Has two fuses installed on the relay.
    - The 5/16" terminal that has the fuse connected to it and leads to the surge suppression board is the battery side.
    - The coil of the relay is powered up with a positive voltage all the time and thus requires a negative trigger pulse to actuate.
    - A red wire jumps from one fuse to the other.