

NORCOLD 1200 (1200, 1201, 1210, 1211) – LiOP Error

When Norcold 1200 series refrigerator displays LiOP you will find that the owner's manual will tell you "high temp limit switch open", no owner service, dealer only.

This means that you head to the store, buy a cooler for your perishables, call a dealer to make an appointment and work some overtime to help pay the repair shop or you can try a couple of things yourself.



The LiOP error is displayed due to a system problem or failure. It is a safety issue so keep in mind that taking your own actions to overcome the issue could result in damage to you or your rig. High temperature problems on a unit that has a boiler system filled with ammonia heated with a gas flame or electric coil can result in explosion, or fire or both.

There are conditions, however, that will cause the LiOP error code to be displayed that are not caused by "high temperature". They are:

A) Water incursion into the exterior cover on the back of the refrigerator. The NORCOLD design has circuit board behind the exterior cover. If water mist enters this area it is likely that the system will instantly display the LiOP error message. This has happened to me when I took my 5th wheel through a truck wash. Even though I asked that they not get any water into exterior refrigerator cover – it happened anyway (at least three times).



B) Voltage surges can also cause this same error to display. Voltage surges are a common occurrence in an RV. We often think if we have one of the surge protectors between our unit and the campground power we won't see any power problems. Surge protectors only shield you from surges and electrical issues that are from outside RV but it is possible to generate surges and voltage irregularities from inside the unit. Keep in mind that this can always be the possible cause of the LiOP error.

I have found two very simple ways to reset the system and get the refrigerator back in business which are shared below – **BUT** watch your system carefully after a successful reset to make sure you don't have a true "high temperature problem".

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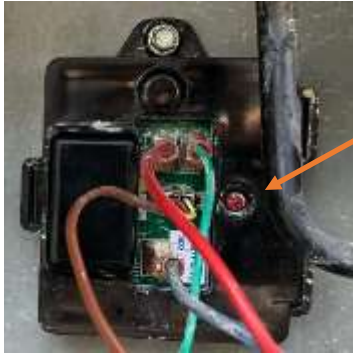
STEP 1 – Leave the refrigerator on.

Remove the exterior cover of the refrigerator.

Here you find access to some of the working parts including the electronics



STEP 2

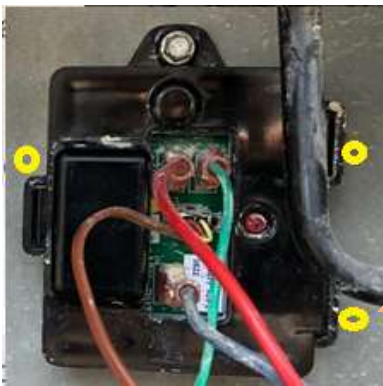


Look for a RED light – it may be solid or flashing.

If this light is not on solid or not flashing – go to the dealer.

IF THE LIGHT IS SOLID – THE NEXT STEP WILL REQUIRE:

- 1) A SMALL FLAT BLADED SCREWDRIVER
- 2) A STRONG MAGNET



Leave your refrigerator on even though it is displaying the LiOP code. First touch the screwdriver to the metal backplate of the refrigerator to discharge any static electricity. With the screwdriver release the three tabs that hold the plastic cover on this box – leave the wires hook up.



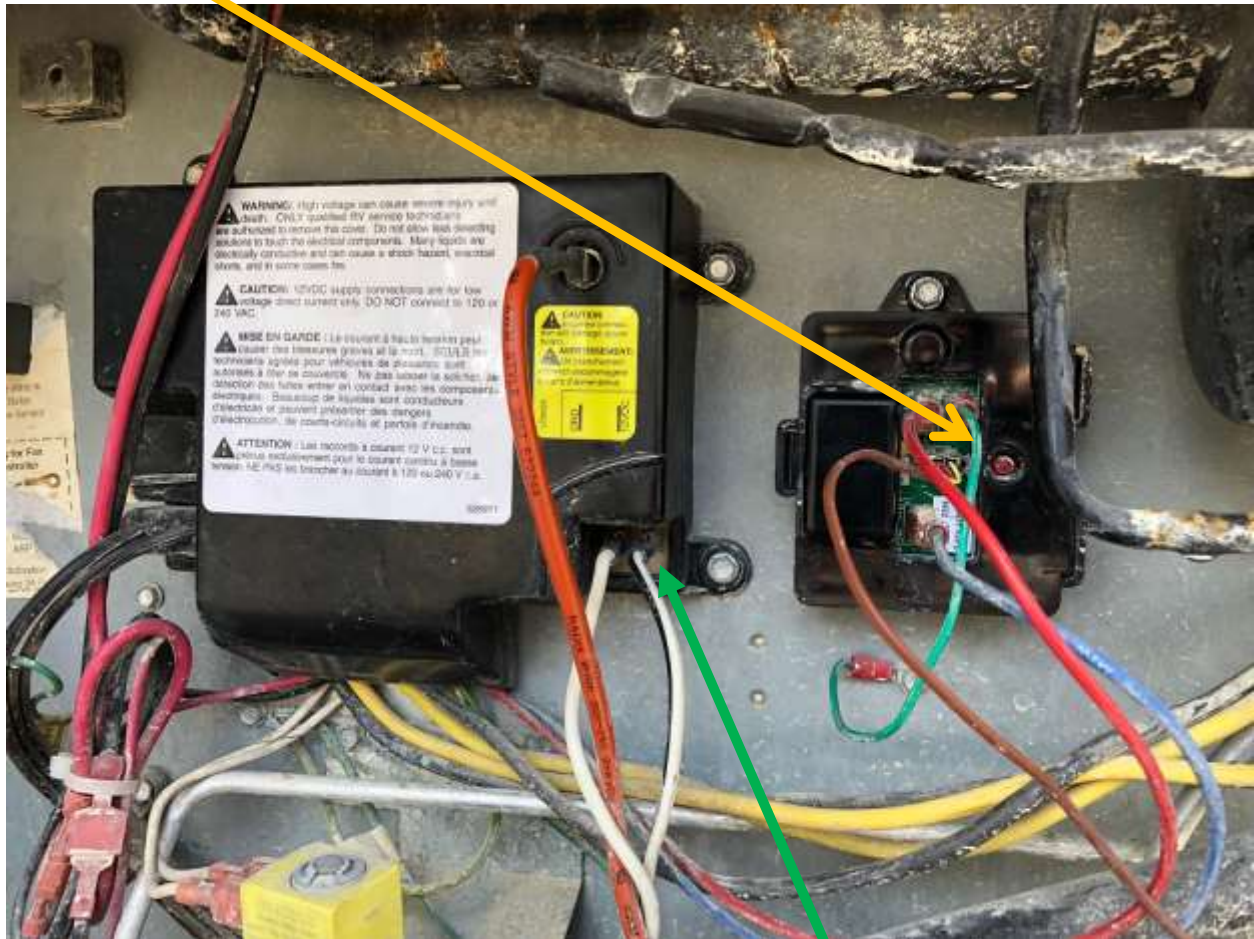
NOW IS WHEN YOU WILL NEED YOUR MAGNET TO RESET THE SMALL BLACK REED SWITCH ON THIS CIRCUIT BOARD.

FIRST TOUCH THE MAGNET TO THE BACKPLATE OF THE FRIDGE TO DISCHARGE STATIC ELECTICITY. THEN HOLD THE MAGNET OVER THE REED SWITCH ON THE END OF THE SWITCH WITH GREEN CIRCLE. HOLD IT THERE FOR AT LEAST 5 SECONDS – IF THE RED LIGHT GOES OUT – YOU HAVE SUCCESSFULLY RESET THE SWITCH



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IF THE RED LIGHT IS FLASHING – THE PROBLEM ‘MAY’ BE THE RESULT OF AN ELECTRICAL SURGE



LEAVE THE REFRIGERATOR ON

WITH A NEEDLE NOSE PLIERS PULL THE 12V LEAD OFF OF THE SPADE TERMINAL WITHOUT TOUCHING IT TO THE OTHER LEAD OR TO GROUND – IT IS THE ONE ON THE RIGHT. THE FLASHING LIGHT WILL GO OUT. NOW RE-ATTACHED THE 12V LEAD. IF THE LIGHT IS NO LONGER ON OR FLASHING – YOU WILL FIND YOUR NORCOLD IS BACK IN BUSINESS.

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