

**Original Poster:** 1999-Intruder

**Difficulty:** 2 of 10

**Time to Install:** 10 min

**Disclaimer:** The Ranger Station.com, The Ranger Station.com Staff, nor the original poster are responsible for you doing this modification to your vehicle. By doing this modification and following this how-to you, the installer, take full responsibility if anything is damaged or messed up. If you have questions, feel free to PM the original poster or ask in the appropriate section of The Ranger Station.com forums.

**Brief Explanation:** This modification allow the use of fog lamps while the high beams are on. It requires almost no tools and very little time to do, plus no need to cut your wire harness or dig around under the dashboard. Best of all, it can be put back the way it was.

**Tools needed:** A pair of pliers (needle nose), 2 toothpicks, fingernail polish and a rag.

**Step 1:** Open the hood and locate the PDB (power distribution box). Open the PDB by squeezing the latch on the fender side of the box and flip the door over to the engine side. Good you have just completed step 1. :)



**Step 2:** Stuff a rag behind the PDB against the firewall of the truck. This is because when pulling the relay out, you may drop it and it will slide down the inner fender panel and disappear. You will spend several hours scratching your arm up getting the bloody thing back out.

**Step 3:** Pull the relay corresponding to your fog lamp controller, which in this vehicles case (1999-Ford Ranger) is the small rectangular relay farthest back in the PDB. (Shown below)



**Doing the next few steps seated will be much easier, so take the relay inside and sit at a table with plenty of light.**

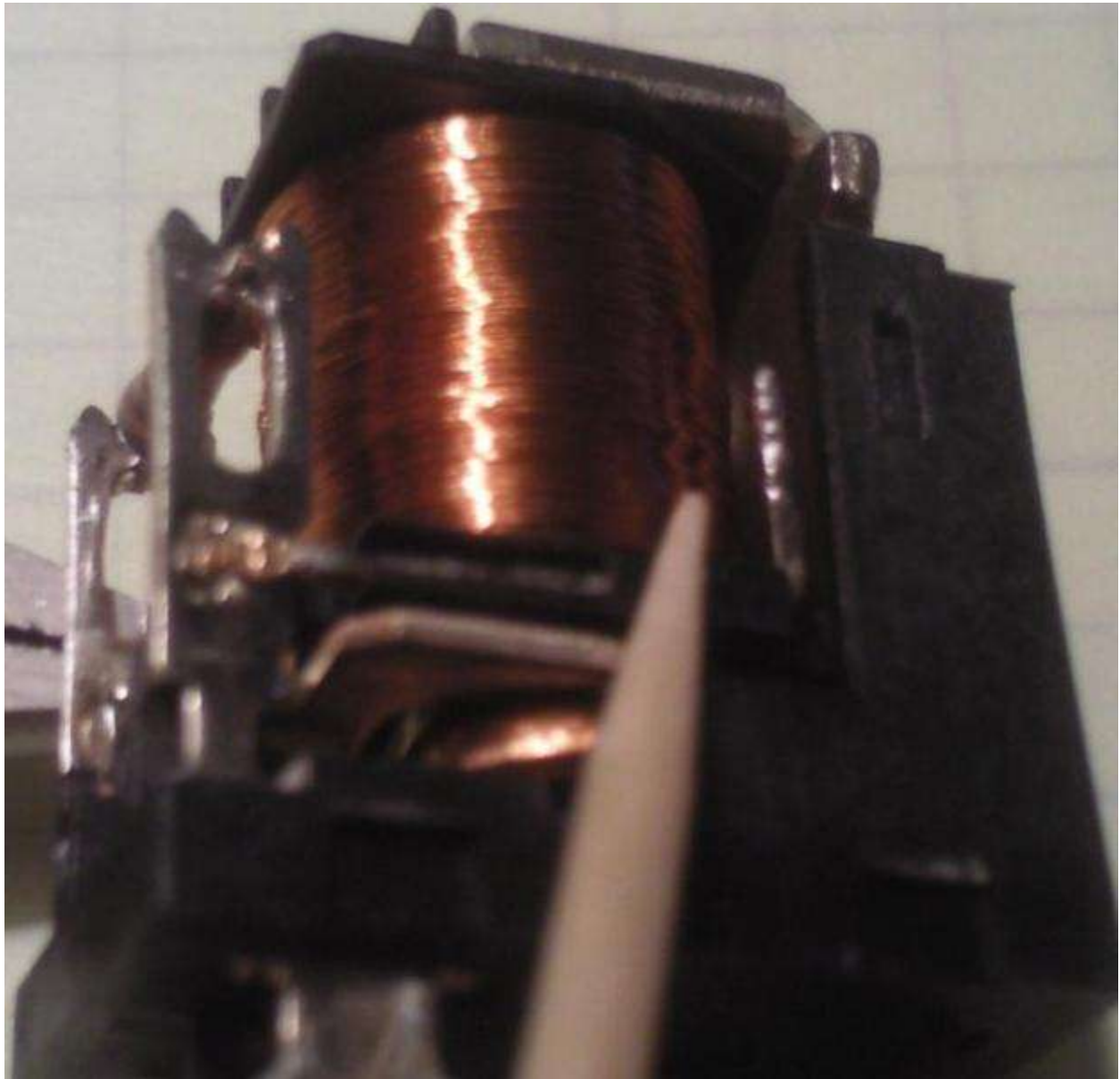
**Step 4:** Remove the cover of the relay by using two toothpicks to GENTLY pry the side away from the base as shown in the picture. This will free the clips that hold the cover on. Grab the center blade pin with a pair of pliers very well, and grasp the outer plastic cover with your other hand. Give a tug and the relay will separate from its housing.





**Step 5:** You will see there is a large coil of wire inside, this is what needs to be modified in order to allow the functioning of the fog lamps while the high beams are engaged. Using one of the toothpicks reach inside behind the silver pin (below shown with toothpick), and find the wire that goes to this pin from the coil. Break the wire and bring in out to the side.





**Step 6:** With the wire lying against the coil (very hard to see, it is so tiny), put finger nail polish on it to seal it and keep it in place. This will insulate it electrically. Shown here in Red is the wire broken and glued in place with cheap red nail polish.





**Step 7:** Wait for the nail polish to dry, and then snap the outer cover back on. It will only go on one way so don't force it if it doesn't go. Just take it back off and rotate it, and reinstall the cover.

**Step 8:** Now reinstall the relay into your vehicle and test your fog lamps. Now you can drive with fog lamps on even when the High beams are also on. ENJOY the success!!!