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## Schema électrique réfrigérateur pdf

This time we will talk about how the electrical circuitry works in the refrigerator with automatic defrost (automatic defrost). The refrigerator discussed here is a type of application commonly found in households (home fridge). Inspection The refrigerator is a tool/machine used to store food so that food becomes more durable and fresher. Why can food stored in the fridge be more durable than being put outdoors? The cause is not long-lasting, the presence of food to change bacteria in foods, in outdoor conditions (high ambient temperatures, for example 30 C), the reproduction of bacteria occurs very fast fast food poor result. Based on the search for this reproduction it is possible to inhibit (slow down) if the temperature is reduced from the room. This important bacterial reproduction has decreased when the ambient temperature below 10 degrees Celsius becomes very slow. This can also slow down the process of decomposition of food. Then make a tool that serves to maintain the temperature/air conditioner to keep the food so that it can last longer. The tool is called a refrigerator or as we know it as a refrigerator. How can we keep the temperature of the fridge we want? The tool, called a thermostat, works to control the temperature in the cooling room. The thermostat maintains the temperature in a predefined area (serial). Never see controls on a refrigerator labeled 1-2-3 and so on, high medium-low, hot-cold markings colder, or others that indicate temperature level? They called it a thermostat. Is there a refrigerator with two different rooms, where is the function of each room? It is a frost-free refrigerator (no frost), 2-door refrigerator/freezer, usually referred to as such. There are two separate categories in the refrigerator of this type: Ambient temperature: A. Freezing room: freeze food with a temperature range of 0 C/d -25 C (usually placed on a high/high door)2. Refrigerated space: to preserve food in a few days with a temperature between 2 degrees Celsius/d 10 degrees Celsius (usually at the bottom). To maintain the temperature in each room, an electrical circuit is required to control the work of the compressor and also to operate the freezing process. Here is an example of a cooling circuit order, often used by many Producers. Before discussing how it works, I will first describe each component: Thermostat: There are two ways to install a thermostat, a installed freezer section or an item-mounted refrigerator. If the thermostat, which has an electric contact freezer to control part of the compressor cooler, is used to control the mechanical ambient temperature controller that controls the opening of the freezer channel covering the cold air entering the cooler space. Timer defrost: a tool used to adjust the length of the compressor part and manage the ice-gnating process on the evaporator (defrost cycle). Compressor scheduling usually works about 6 hours later, it is recommended to melt the frost on the evaporator and the water tank located under the cold. The length of the process depends on the thickness of the ice in the evaporator, which is the densest of the most dense. Thermo-defroster: A tool used to detect temperature around evaporation so that it can determine whether or not the fusion process should be done. This tool is also used to stop thaws when the evaporation temperature has been detected above 0 degrees Celsius. In general, about 4 degrees Celsius. According to the thermal thawing installation. Hot plate: used to melt ice on a water tank during the thawing process. Defrost resistance: this is the main heating device used to melt ice in the evaporator. The ukuran heater is about 120-150Watt. Thermo fusible: if the thermal thawing is damaged. For example, does not want to cut to a predetermined temperature the heating element of the freezer will continue to heat the room around the evaporator. As a result, evaporation will increase at room temperature and, if left very dangerous, in addition to the appliance, it may also be damaged within the level of the refrigerator's ability due to uncontrolled heating. Thermo Fusible will drop if the temperature reaches 72 degrees Celsius (there are several manufacturers limiting it to 70 or 71 degrees Celsius). Engine compressor: is used to power the compressor so that refrigerant can circulate. Heating protector: prevention of combustion of the engine compressor caused by excessive heat. PTC Starter: The type of start used during the compressor to start work. SC (from capacitor) The capacitor used to increase the torque on the compressor starts working. Rc its main function is to change the phase angle, and use auxiliary coils so that the compressor works more efficiently. Motor fan: Used to circulate air inside. Freezer door switch: The switch mounted on the freezer door is used to turn off the fan when the door is open so that it can reduce cold air outside the freezer. Fridge door switch: The switch placed on the refrigerator door is used to disconnect the fan from the evaporator when the door is open so that it can reduce the release of cold air from the refrigerator. Selain room that this switch also serves to turn on the lights in the refrigerator in the room. Inside the fridge lighting: a lamp that will live if the fridge door is open. Setting the functions Assumptions and components before interpreting the main works I have made some adjustments and components specific to hypotheses in order to facilitate interpretation: The ambient temperature of the freezer (electric thermostat) is set in the range -15 C s /d to -20 C. The room temperature of the refrigerator (thermostat damper) is specified in the range 4 C s /d '2' C. Set the compressor freezer for 6 hours of work and after the defrosteration process, the electrical contacts will return to the compressor (Run) after 7 minutes of thawing. Thermo thaming will be connected to a temperature of -2 C and cut to temperature 4 C The normal limit for the refrigerator is 220VAC / 50Hz Ambient temperature, initial state / produced about 30 C. How does it work? Refrigerator/refrigerator electrical circuits At some point there will be an appropriate voltage cooler and the position of the freezer thermostat in OFF state of the electrical energy flow as pictured under the system will still be in a state of death. If measured using a voltmeter on both feet with a thermostat, we will read the corresponding voltage input voltage, i.m. 220VAC. There may be one active component in this position, the room is the lighting cooler. If the door is open, then the lights are lit gets the full voltage of the 220VAC supply, as shown in the figure below: And if the door is closed, the internal lights in the refrigerator will die. Then, if the thermostat position is set to position 3, for example, this position is a range of -15 C s / From -20 C, then there will be a flow of electricity as shown below: Contact-Thermostat Freezer When connected, then the engine timer, engine fan of the engine dislocator engine, compressor, running capacitor, capacitor starter relay and Starter PTC operate according to their functions. When the compressor rotary plant at the maximum engine is 75%, the PTC Starter turns off the power through the circuit start capacitor, as the torque is now not too large (the start capacitor is no longer required when the engine has reached 75% of the maximum rotation). A auxiliary coil (coil start) always gets a current that passes through the race capacitor with low torque. For more details, see the figure below: When working with the compressor, the ambient temperature slowly drops from 30 degrees Celsius to the temperature corresponding to the setting. When the temperature of the refrigerator's low shutter location perlahan2 on the thermostat starts to close the air duct that goes into the refrigerator and is completely closed when the room temperature reaches 2 degrees Celsius, then the shutter closes properly. No more air circulation in the fridge in the room. While the ambient temperature of the refrigerator is reached, the compressor still cools its space in the freezer. At the time of evaporation temperature reaches -2 degrees Celsius, the contact point of thermo-relieving stops. See image below: Close the connection to the contacts on the thermal thaws, would not give any effect on the system. Close contacts only if the preparation time for thawsing heating can be achieved, then work to melt the ice on the evaporator. The back to the compressor continues to operate on the cooling freezer chamber. When the temperature of the freezer is up to a limit of -20 C, then the thermostat is cut off (cut). From the original conditions (30 C), tell us that the desired temperature (-20 C) will last about two hours. During this thermostat cut all

components, except the cooler light once opened, will be live. See the image below: When you turn off the compressor, the temperature will slowly resurrect the room. So, from -20 temperatur C to -19 C again reached -18 C and continued until it reached -15 C contact terhubungsehingga Thermostat Compressor to return to work again. Thus, the ambient temperature will be maintained between -20 degrees Celsius to -15 degrees Celsius. Similarly, the space in where temperatures have risen to 4 degrees Celsius, then the shock absorber reopens. This procedure is repeated to a constant temperature in the room maintained in a specified area (appropriate thermostat setting). When does the thawing begin? When the engine time is reached (6 hours). The engine timer then transfers contacts from position 3-4 (Run compressor/process cooling) to position 3-2 (defro defroderation/ice melting process into the flower evaporator). The ice melting process begins. The engine timer is dead, so in this case only heating (the thamres of the yag water heater melts the ice on the evaporator and this works on our hot plate to melt the ice in the pool of water under the evaporators. See below an explanation of the wire-removement process: Because active heating will increase, then it will finally increase in evaporator and ambient temperature. With this temperature rise through the ice, it will eventually melt. The prosed results of the water freezer is then placed in the container, which is placed at the bottom (in the pre-cold) or backward (on the compressor). Thawing when the body temperature at 4 C thermo contacts DEFRRORAGE will be determined to stop working. When the contact decides to unfreeze the thermo, the engine timer starts working again. When the timer engine is running, there is no direct contact on the timer, the delay (delay) is at about 7 minutes. The delay should let all the water fall into the tub and the shelters provide time for the heater's temperature not too high. Thus, when the engine fan mensirkulasikan work does not bring hot air into the heater. When the delay time is reached, the time-out contact will return to position 3-4 and return to compressor cooling. Compressors.

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