
Repair Instructions

To replace a Dixell Hot Key Sensor in the Pharmacy/Lab Fridge



To suit: TPR/TLR-360/520/750/950/1150/1500

Approvals		
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Safety Reminder

Replacing this sensor requires the technician to hold a suitable electrical licence.

These instructions do not purport to address all potential safety issues, if any, associated with the product's use. It is the responsibility of the user of these instructions to establish appropriate safety and health practices and determine the applicability of regulatory limitations before use.

Before attempting any of the following, perform the actions listed below:

- Turn OFF power to the machine.
- Unplug the machine.

Summary

These instructions are for removing and replacing a faulty Dixell Hot Key sensor on TPR and TLR cabinets 360/520/750/950/1100/1150/1500.

Tools Required	
Screw driver	Phillips Head
Screw driver	Large Flat head
Allen Key	5 mm
Spanner	7/8 th Open ended
Wire Snips	
Safety Step	

Kit Contents		
Item	Description	Quantity
41230	Dixell Hot Key Sensor	1

Section 1: Preparation

Turn off the power and remove the plug from the outlet. To access the controller you will need to remove the top panel. In some cases you will need a safety step or step ladder to be able to remove this panel safely.



Slide the panel up which will free it from the locating blocks on the cabinet.



Pull the panel forward free of the blocks. This will allow you to access the controller

Section 2: Remove the sensor



Once the panel is removed you will see a metal plate covering the controller.



To remove this plate to be able to access the controller, undo the screws on either side of the plate. You DO NOT need to unscrew the green earth wire on the back of the plate.



After removing the screws, lift the plate to reveal the controller. You can place the plate either behind the controller on the evaporator coil, or to the side.



You will find two white fixing clips on either side of the controller. To unlatch the tabs of these clips, slightly push the white tabs of these clips inwards toward the controller. Then, you will be able to slide the clips off the back of the controller.



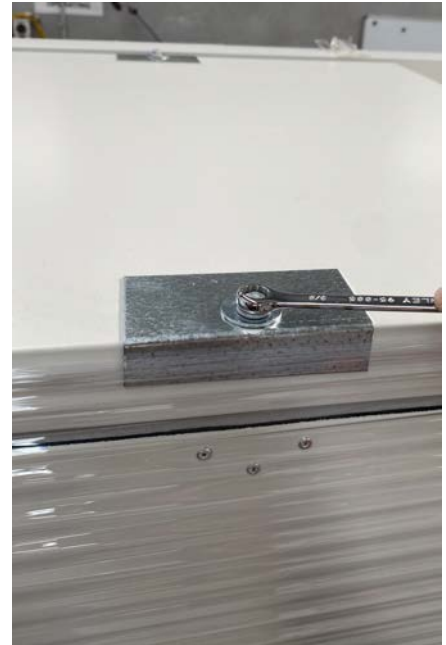
After removing the white clips, push the controller through the front panel to access the wires.



In order for you to have complete access to the sensor wires, you will need to remove them from under the fascia and move them to the side. This will provide you with sufficient slack to adjust the wires as required.



Remove the four screws (2 on either side) so you can remove the top cover of the fridge and gain access to the evaporator enclosure. This only applies to 360 cabinets. The other sizes do not have this cover.



Using a 5mm Allen Key, remove the screws that secure the cover of the evaporator enclosure.

Note: Some fridges have the evaporator cover held on by a bolt. Undo this using a 7/8th Spanner



To open the evaporator enclosure, you need to take a large flat head screwdriver and insert it between the foam tape and the top of the enclosure. Then, you should gently lever the screwdriver upwards to break the seal. This will allow you to remove the lid from the evaporator enclosure with ease.



After removing the cover, you'll be able to see the evaporator coil, fan, and a silver tube containing the Dixell Hot Key sensor.

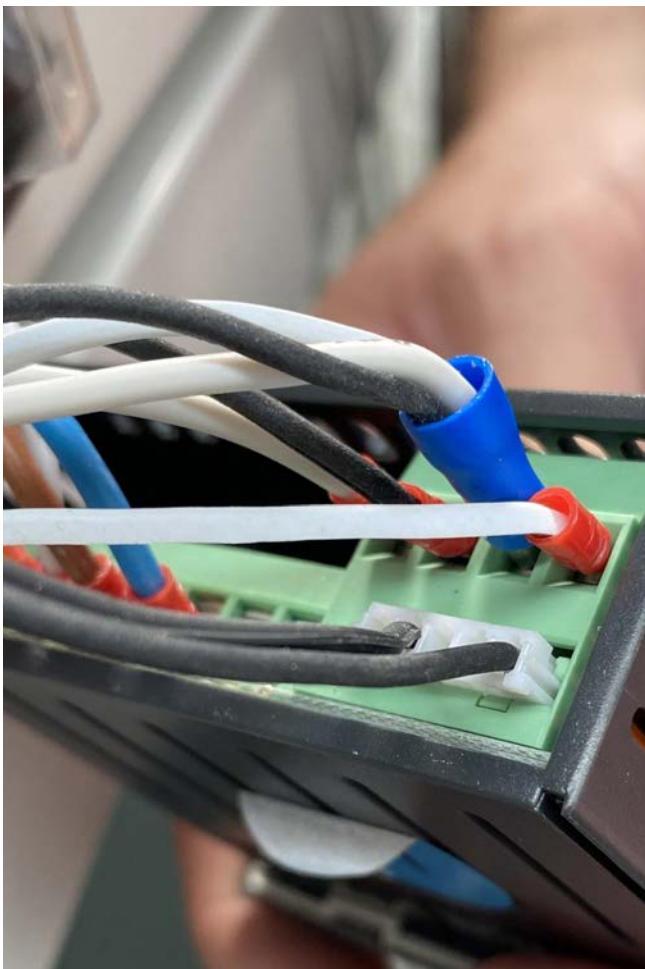


To remove the sensor, gently turn the silver tube 90 degrees. You will notice that the tube is filled with silicon. In most circumstances, the sensor can be easily pulled out of the tube after turning it. However, if the sensor proves to be difficult to remove, you can gently scrape the silicon from around the sensor to make it easier to remove.

Note: The hot key sensor is only inserted about 1 - 2 cm inside the metal tube.

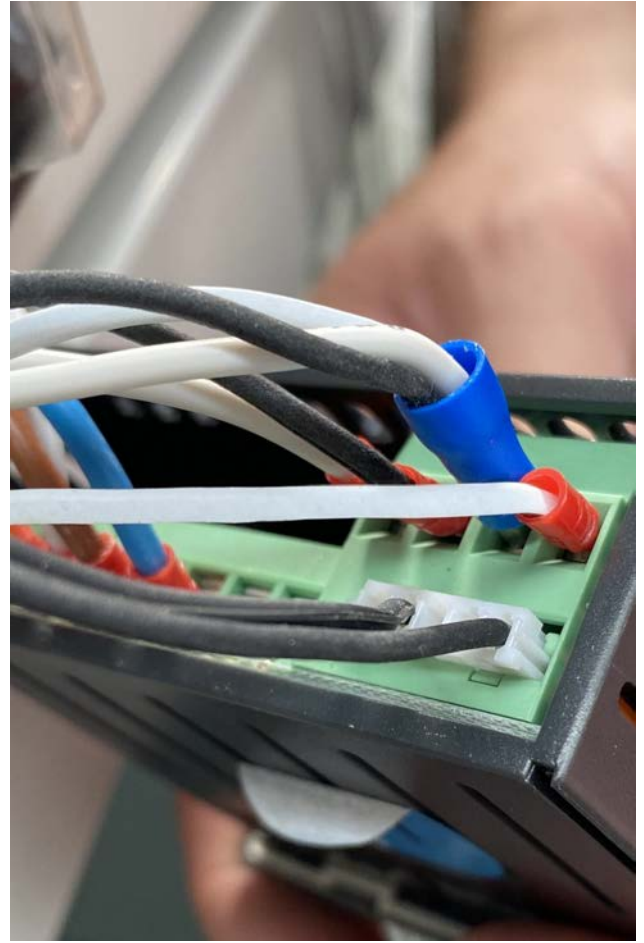


Remove the putty around the conduit that the Dixell sensor wire goes through but do not discard it (you will need this later to seal the area around the new sensor).



The Dixell Hot Key sensor is connected to the Dixell controller via a white connector. To disconnect it, gently pull the connector out.

Section 3: Installation



Insert the white plug of the new sensor into the back the Dixell Controller

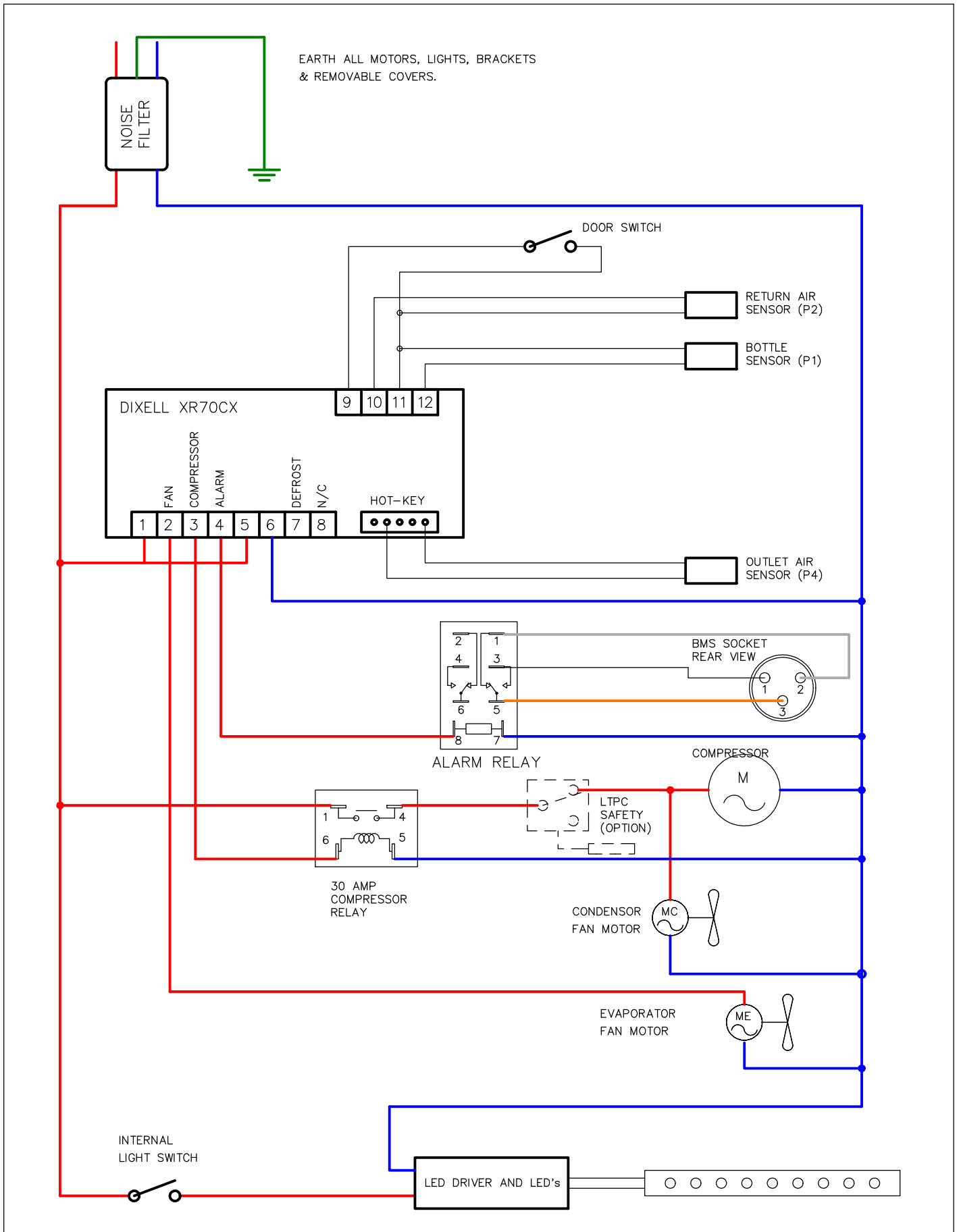


Thread the new Dixell Hot Key Sensor back into the section of the evaporator fan. Replace the putty once you are finished.

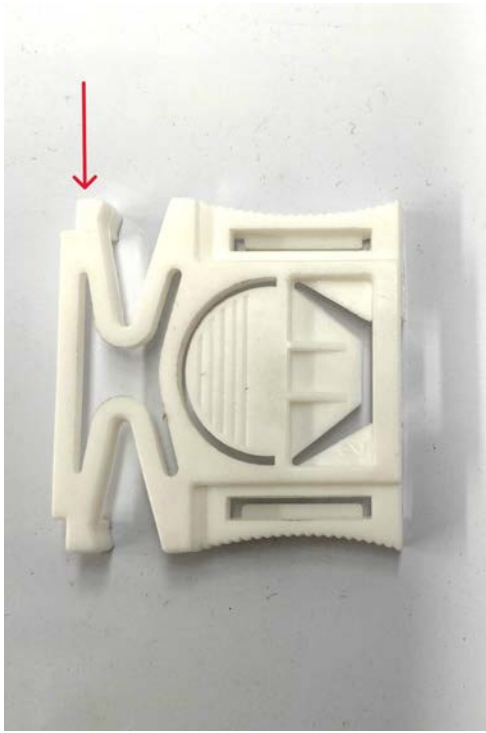


Gently push the sensor tip back into the silver tube until it is inserted about 1 to 2 cm.

If you had to remove any silicon to take out the sensor, first put the sensor back into the tube and then fill the area around it with more silicon.

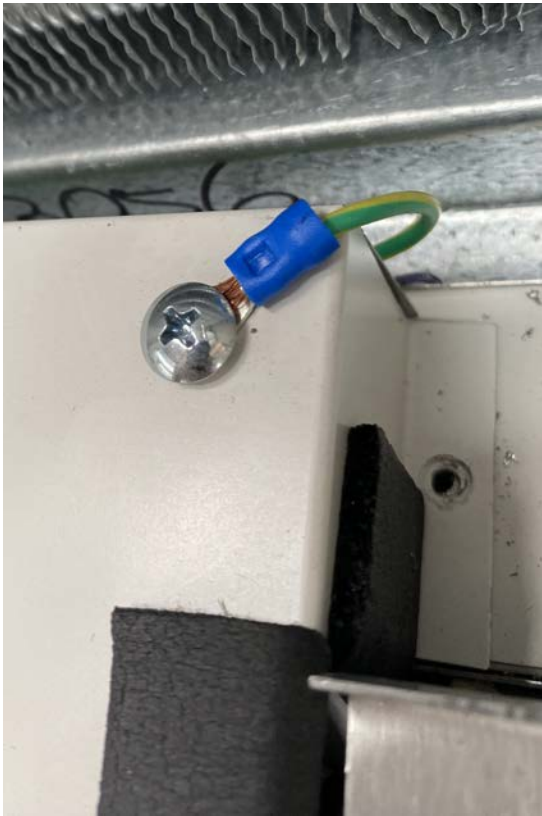


PRODUCT:	PHARMACY REFRIGERATORS	
MODELS:	TPR 520/750/950/1150 SERIES	22-05-18: Changed BMS wire colour
DESCRIPTION:	WIRING DIAGRAM FOR WILLIAMS PHARMACY REFRIGERATORS.	04-07-17: Changed to Dixell Controller.
		19-01-16: Changed to AD2-5 Controller
ISSUE DATE: 22-05-18	DWG.No: TPR 520 to 1150	20-5-14: Removed capacitor off transformer.
		15-11-10: NEW MODEL NUMBERS.



Once the hot key sensor is attached, the controller can be fixed into place. Slide the white clips through the grooves on the side of the controller.

Note: When sliding the clips onto the controller, make sure the side designated with the red arrow in the picture above is slid on first. This is the part of the clip that locks the controller in place.



Once the controller is in place you can replace the cover. Place the cover over the controller and line up the holes. Once they are lined up, screw the cover down.



Once the controller is in place, you can then place the wires under the fascia neatly.



Install the the evaporator enclosure lid. Make sure that the strip of foam going across the top is placed on top of the evaporator coil. This is to ensure that hot air is cooled through the evaporator rather then go above it. Once the lid is in place you can screw it down.



Screw the cover of the top of the fridge back on (for TPR/TLR-360 cabinets only).



You can reinstall the front panel. Place the panel slightly above it's final position matching the rectangular holes with the locating blocks.



Push the panel forward onto the blocks then slide it down to lock into place.



The panel should now be in place and even on all edges.

Section 4: Power ON

Plug the cabinet back in and turn on the power. Before using the fridge please make sure that the fridge is tested and does not need further calibration.

Section 5: Support and Contact

Repair and Support is available over the telephone Monday through Thursday from 8:30am to 4pm and Friday 8:30am to 2pm. Please contact service@thermoline.com.au for email technical support.

You can also visit our website at www.thermoline.com.au for access to additional useful troubleshooting guides, operating manuals, and technical information.

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