

Furnace Tune Up

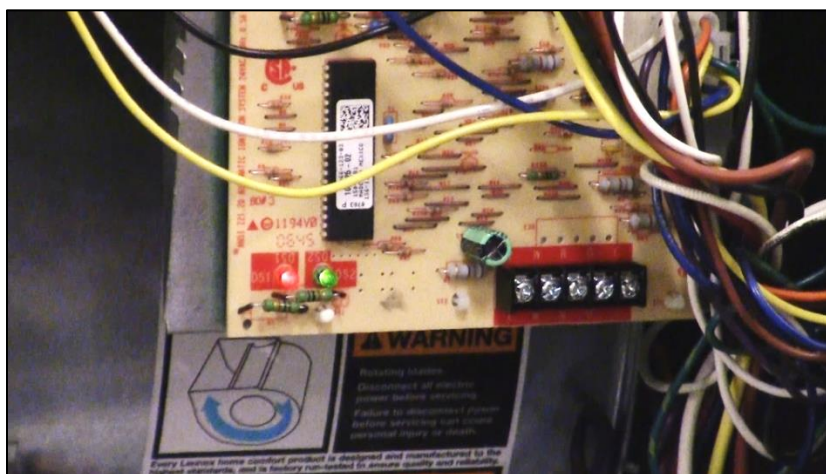
A handout containing the highlights of the video titled *Furnace Tune Up*

Preventative Maintenance

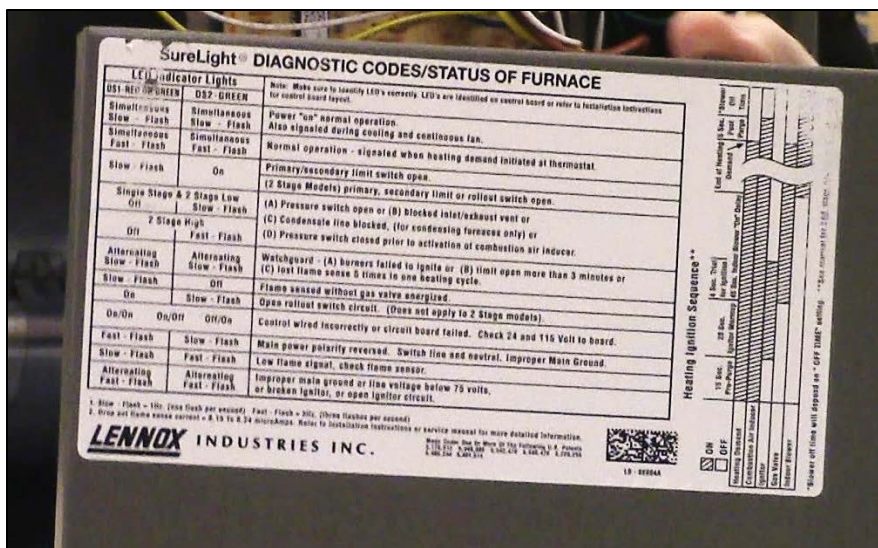
1. Unplug the furnace. Take the door panels off the furnace.



CAPTION 1. THE INSTRUCTOR TAKES THE UPPER DOOR PANEL OFF THE FURNACE.

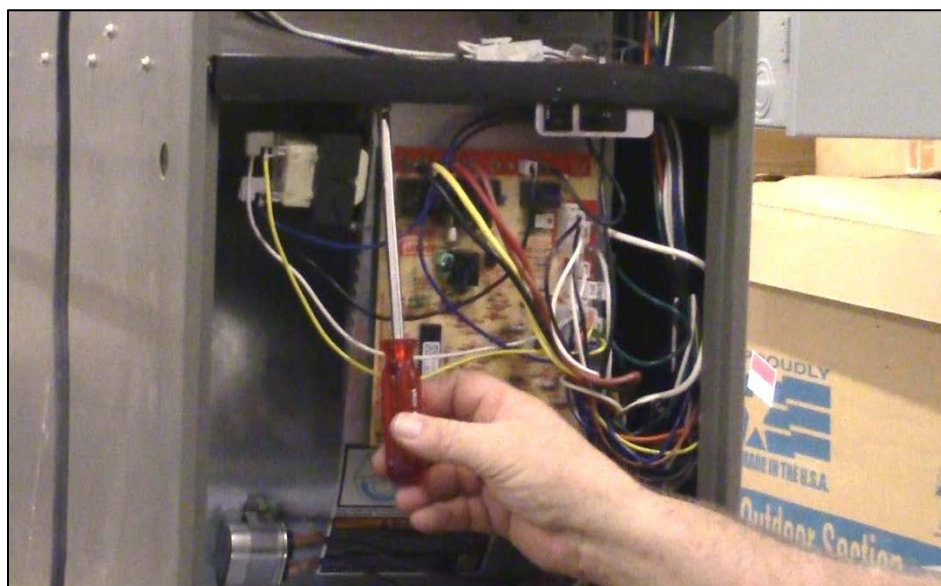


CAPTION 2. A CLOSE-UP OF THE CIRCUIT BOARD. THE LIGHTS ON THE CIRCUIT BOARD WILL FLASH A CODE IF THE FURNACE IS HAVING ANY PROBLEMS. YOU WILL THEN REFER TO THE DIAGNOSTICS CHART (USUALLY FOUND ON THE DOOR PANELS) TO SEE WHAT CODE IT'S FLASHING. THE CODES ON THE CHART WILL LET YOU KNOW WHAT THE PROBLEM IS, IF THERE IS ONE.



CAPTION 3. A PHOTO OF THE DIAGNOSTIC CODES REFERENCE CHART FOUND ON THE FURNACE DOOR PANEL

2. Unscrew the circuit board from its place using a quarter-inch nut driver. Move the circuit board out of the way to give enough space for you to pull the motor behind it out.



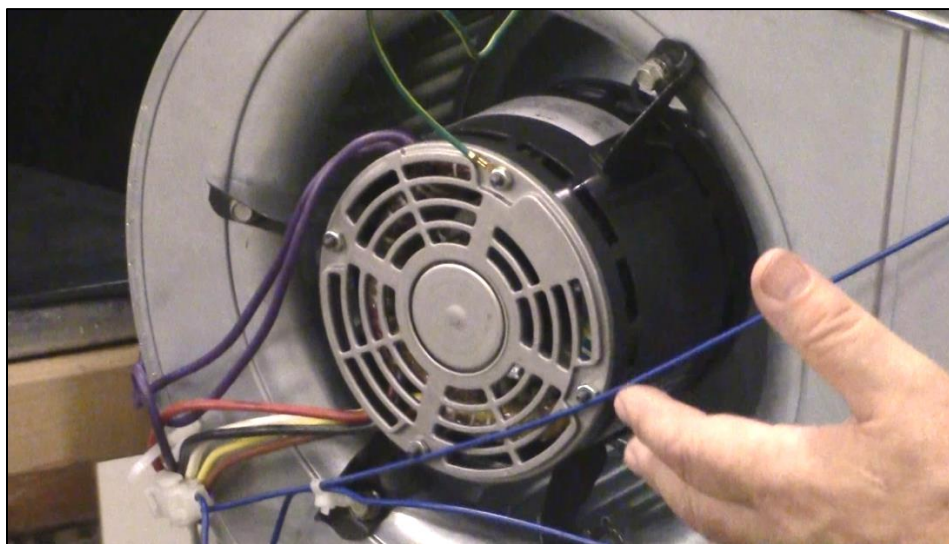
CAPTION 4. THE CIRCUIT BOARD IS UNSCREWED FROM THE FURNACE. NOTE THAT THE WIRES ARE STILL CONNECTED AND IN PLACE.

3. Set the circuit board aside. Carefully move wires to the side to give you some room to move. Next, unscrew the squirrel cage blower motor.
4. Pull the motor out carefully, and make sure there are no wires in the motor's way. Check the veins in the blower to see if it's clean. If it's not, disassemble the piece and clean it.



CAPTION 5. THE INSTRUCTOR IS HOLDING THE FURNACE BLOWER MOTOR.

5. Make sure the motor (on the back side) is also clean.



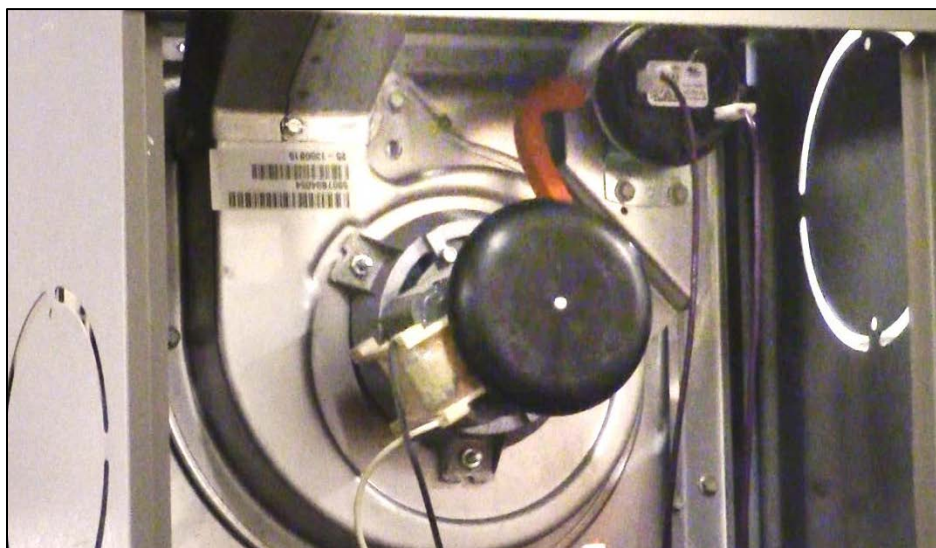
CAPTION 6. A CLOSE-UP VIEW OF THE BACK SIDE OF THE FURNACE BLOWER MOTOR.

- When the motor is clean, slide and screw it back to its place.

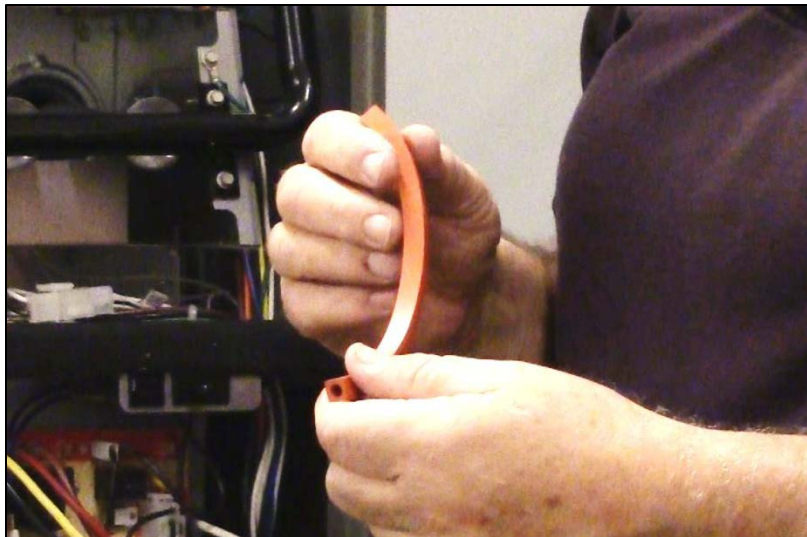


CAPTION 7. THE INSTRUCTOR RETURNS THE BLOWER MOTOR INSIDE THE FURNACE AFTER CHECKING IT.

- Place the circuit board back to in the furnace. Be careful of the wire connections.
- Move to the upper half of the furnace, and check the hose connected from the inducer motor to the pressure switch. Remove and clean the hose by simply blowing on it to remove any dirt inside it. Then put the hose back to the pressure switch and inducer motor.

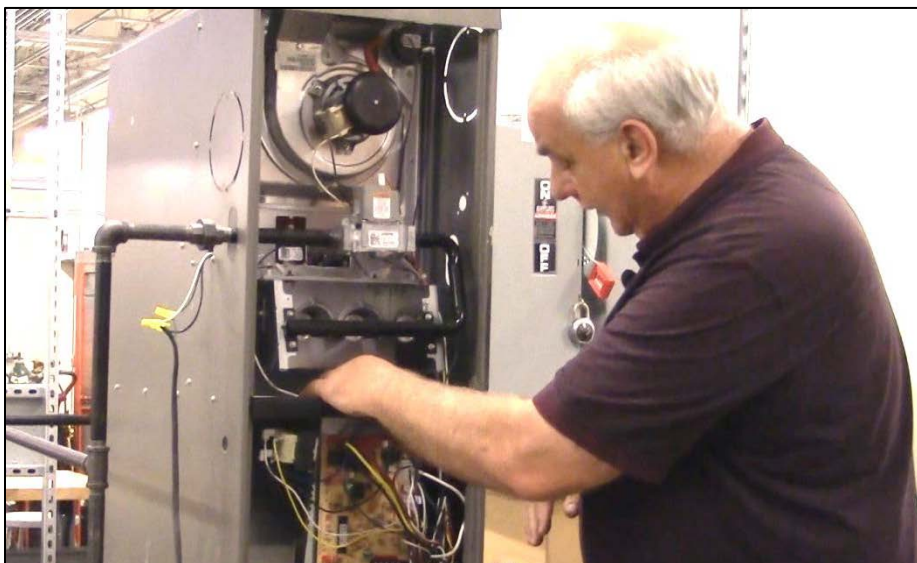


CAPTION 8. A CLOSE-UP OF THE INDUCER MOTOR AND THE PRESSURE SWITCH, WITH THE HOSE STILL CONNECTED.



CAPTION 9. A CLOSE-UP OF THE HOSE CONNECTING THE INDUCER MOTOR TO THE PRESSURE SWITCH.

- 9. Check and clean the burners.
- 10. Check the wiring. Make sure the wiring is still in good condition.



CAPTION 10. THE INSTRUCTOR CHECKS THE BURNERS AND THE WIRING INSIDE THE FURNACE.

Looking for other learning materials?

The [Beginning Heating and Refrigeration iTunes U course](#) has videos and other learning materials for you to view. You can [download iTunes for free](#) to view the course and course materials. Closed-captioned videos are available at [T4E's YouTube page](#).

Disclaimer and License information

This workforce product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The U.S. Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.



Unless otherwise noted, this work is licensed under the [Creative Commons Attribution 4.0 International License](#). To view a copy of this license, go to <http://creativecommons.org/licenses/by/4.0/> on your web browser.

