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## OEM Replm for Carrier HK42FZ017

# HK42FZ017 - Carrier OEM Replacement Furnace Control Board User Manual

Model: HK42FZ017 | Brand: OEM Replm for Carrier

## PRODUCT OVERVIEW

The HK42FZ017 is an OEM replacement furnace control board designed for Carrier furnace systems. This board serves as the central control unit for various furnace operations, including ignition, fan control, and safety monitoring. It ensures the efficient and safe operation of your heating system.



This image displays the HK42FZ017 Carrier OEM Replacement Furnace Control Board, a rectangular circuit board with various electronic components, relays, and terminal blocks. It is designed to manage the operations of a furnace.

## SETUP AND INSTALLATION

**Safety Warning: Before attempting any installation or maintenance, ensure the main power supply to the furnace is completely disconnected at the circuit breaker or fuse box. Failure to do so can result in serious injury or death from electrical shock.**

Installation of the HK42FZ017 control board should ideally be performed by a qualified HVAC technician. If you are performing the installation yourself, follow these steps carefully:

1. **Power Disconnection:** Turn off all power to the furnace unit at the main electrical panel. Verify power is off using a voltage tester.
2. **Access the Control Board:** Locate and open the furnace access panel to expose the existing control board.
3. **Document Wiring:** Before disconnecting any wires, take clear photos of the existing wiring connections on the old control board. Label each wire if necessary to ensure correct re-connection.
4. **Disconnect Old Board:** Carefully disconnect all wires and connectors from the old control board. Remove any mounting screws or clips securing the old board.
5. **Install New Board:** Position the new HK42FZ017 control board in the same location as the old one. Secure it with the appropriate mounting screws or clips.
6. **Connect Wiring:** Refer to your documented photos and labels to meticulously re-connect all wires and connectors to the corresponding terminals on the new HK42FZ017 board. Ensure all connections are secure and correct.
7. **Close Access Panel:** Once all connections are verified, close and secure the furnace access panel.
8. **Restore Power:** Turn the main power supply back on at the circuit breaker or fuse box.
9. **Test Operation:** Initiate a heating cycle to confirm the furnace operates correctly with the new control board. Observe for proper ignition, fan operation, and temperature regulation.

## OPERATING INSTRUCTIONS

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The HK42FZ017 furnace control board operates automatically in conjunction with your thermostat and other furnace components. Once installed and powered, it manages the sequence of operations for heating and cooling cycles.

- **Thermostat Control:** The board receives signals from your thermostat to initiate heating or cooling demands.
- **Ignition Sequence:** During a heating call, the board controls the ignition sequence, including activating the inducer motor, proving the draft, energizing the igniter, and opening the gas valve.
- **Fan Operation:** It manages the blower fan operation for both heating and cooling, ensuring proper airflow throughout your home.
- **Safety Monitoring:** The board continuously monitors various safety sensors (e.g., flame sensor, limit switches) to ensure safe operation and will shut down the furnace if a fault is detected.
- **Diagnostic Codes:** Many control boards feature LED indicators that flash diagnostic codes to assist in troubleshooting. Refer to your furnace's specific manual for a list of these codes.

## MAINTENANCE

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The HK42FZ017 control board itself requires minimal direct maintenance. However, ensuring the overall furnace system is well-maintained will contribute to the longevity and reliable operation of the control board.

- **Regular Furnace Servicing:** Schedule annual professional maintenance for your furnace. A technician can inspect all components, including the control board, for signs of wear or damage.
- **Keep Area Clean:** Ensure the area around the furnace and control board is free from dust, debris, and obstructions. Excessive dust can accumulate on electronic components and affect performance.

- **Air Filter Replacement:** Regularly replace or clean your furnace's air filter as recommended by the furnace manufacturer. A clogged filter can restrict airflow, causing the furnace to overheat and potentially stress electronic components.
- **Inspect Wiring:** Periodically, with power disconnected, visually inspect wiring connections to the control board for any signs of looseness, corrosion, or damage.

## TROUBLESHOOTING

If your furnace is not operating as expected after installing the HK42FZ017 control board, consult the table below for common issues and potential solutions. Always ensure power is disconnected before inspecting internal components.

| Issue                                   | Possible Cause  | Solution   |
|---|---|--|
| Furnace not turning on.                 | No power to furnace; thermostat issue; safety switch tripped; incorrect wiring.     | Check circuit breaker. Ensure thermostat is set to heat and temperature is above ambient. Verify all safety switches (e.g., limit switch, rollout switch) are reset. Re-check wiring connections on the control board.                           |
| Blower fan not running.                 | Fan motor issue; capacitor failure; control board fault; thermostat fan setting.    | Check thermostat fan setting (should be "Auto" for normal operation). Inspect fan motor and capacitor for visible damage. Consult a professional if the issue persists, as it may indicate a board or motor fault.                               |
| Furnace ignites then shuts off quickly. | Dirty flame sensor; restricted exhaust/intake; clogged filter; faulty limit switch. | Clean the flame sensor with fine sandpaper or steel wool. Check for obstructions in the flue or intake. Replace dirty air filter. If a limit switch is tripping, it indicates an airflow or overheating issue that needs professional diagnosis. |
| No heat, but fan runs continuously.     | Ignition failure; gas supply issue; control board fault.                            | Verify gas supply is on. Check for diagnostic codes on the control board. This often indicates a problem with the ignition system (igniter, gas valve) or a board component. Professional assistance is recommended.                             |

For complex issues or if you are unsure about a repair, it is highly recommended to contact a certified HVAC technician.

## SPECIFICATIONS

**Model Number:** HK42FZ017

**Product Type:** OEM Replacement Furnace Control Board

**Brand:** OEM Replm for Carrier

**Manufacturer:** Carrier

**Product Dimensions:** 6 x 6 x 6 inches

**Item Weight:** 1 Pound

**ASIN:** B00FPP0FE6

**First Available:** October 8, 2013

## WARRANTY AND SUPPORT

Specific warranty information for this OEM replacement part may vary depending on the seller and the terms of purchase. Please refer to your purchase documentation or contact the vendor from whom you acquired the HK42FZ017 control board for details regarding warranty coverage and return policies.

For technical support or professional installation assistance, it is recommended to contact a qualified HVAC technician or the original equipment manufacturer (Carrier) if the issue pertains to the furnace system itself.

