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› LiftMaster/Chamberlain 41AC050-2 Security and Receiver Logic Board User Manual

LiftMaster 041AC050-1M

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Model: 041AC050-1M

1. PRODUCT OVERVIEW

The LiftMaster/Chamberlain 41AC050-2 Security and Receiver Logic Board is a genuine replacement part designed for various LiftMaster AC chain drive and belt drive garage door openers manufactured between 2005 and 2015. This logic board operates on a 315MHz frequency and includes an end panel replacement kit. A key feature of this unit is its purple learn button, which is essential for programming remote controls and other accessories.

Before ordering, it is crucial to consult your garage door opener's manual or replacement parts diagram to ensure compatibility with the 041AC050-1M part number.



An overhead view of the LiftMaster/Chamberlain 41AC050-2 Security and Receiver Logic Board, showing various connectors, adjustment dials, and warning labels. A purple wire is visible, indicating the antenna.

2. SAFETY INFORMATION

Always prioritize safety when working with electrical components and garage door openers. Failure to follow these instructions may result in serious injury or death.

- **Disconnect Power:** Before beginning any installation, maintenance, or troubleshooting, ensure the garage door opener is disconnected from its power source. Unplug the unit or turn off the circuit breaker.
- **Professional Assistance:** If you are unsure about any step or uncomfortable working with electrical components, seek assistance from a qualified technician.
- **Force Settings:** After installation, it is critical to properly adjust the garage door opener's force settings. The motor must reverse if the door encounters a 1-inch (or 4.4 cm) object placed on the floor. Refer to your garage door opener's main manual for detailed instructions on setting proper movement pressure and force limits. Incorrect settings can lead to entrapment or injury.
- **Eye Protection:** Wear appropriate eye protection during installation.
- **Keep Area Clear:** Ensure the area around the garage door is clear of people and obstructions during testing and operation.

3. INSTALLATION AND SETUP

This logic board is designed as a direct replacement. The installation process typically takes 10-15 minutes for those with basic technical aptitude.

1. **Power Disconnection:** Ensure the garage door opener is unplugged from the electrical outlet.
2. **Access the Existing Board:** Carefully open the housing of your garage door opener to access the existing logic board. Note the position of all wires and connectors before removal. Taking a photograph can be helpful.
3. **Remove Old Board:** Disconnect all wires and connectors from the old logic board. This includes wires for safety sensors, wall control, and power. Remove the old board and its end panel.
4. **Install New Board:** Position the new 41AC050-2 logic board and its integrated end panel into the garage door opener housing.
5. **Connect Wires:** Reconnect all wires and connectors to the new board. Ensure all connections are secure and match their original positions. Pay close attention to the JST connectors (multi-pin connectors) to ensure they are fully seated.
6. **Adjust Force Settings:** Locate the force adjustment dials on the new board (often blue or purple). Before powering on, adjust these dials to match the settings from your old board. This is a critical step to ensure proper door operation and safety. If you do not have the old board for reference, refer to your garage door opener's main manual for initial force setting guidelines.
7. **Restore Power:** Plug the garage door opener back into the electrical outlet.
8. **Test Operation:** Test the garage door opener's basic functions (open/close) using the wall control.
9. **Program Remotes:** Use the purple learn button on the new logic board to program your existing remote controls and any HomeLink systems. Press and release the learn button, then press the button on your remote that you wish to program. Refer to your remote's instructions for specific programming steps.
10. **Perform Safety Reversal Test:** Place a 1-inch (or 4.4 cm) object flat on the floor in the path of the garage door. Close the door. The door must reverse upon contact with the object. If it does not, immediately adjust the force settings until it passes this test.

4. OPERATION

Once the 41AC050-2 logic board is installed and programmed, your garage door opener will function as before. Use your remote controls, wireless keypad, or wall-mounted control panel to operate the garage door.

- **Opening the Door:** Press the designated button on your remote or wall control.
- **Closing the Door:** Press the designated button on your remote or wall control. Ensure the path of the door is clear before closing.
- **Stopping the Door:** Press the button again while the door is in motion to stop it.
- **Light Operation:** The opener's light will typically turn on when the door is activated and remain on for a few minutes before automatically turning off.

5. MAINTENANCE

The 41AC050-2 logic board is a sealed electronic component and requires minimal maintenance. However, general care for your garage door opener system is recommended:

- **Keep Clean:** Periodically inspect the garage door opener unit for dust, debris, or insect nests. Gently clean the exterior with a dry cloth. Avoid using liquids directly on the logic board or other electronic components.
- **Check Wiring:** Occasionally inspect all wiring connections to the logic board to ensure they remain secure and free from damage.
- **Test Safety Features:** Regularly perform the safety reversal test (as described in Section 3) to ensure the door reverses properly when obstructed.
- **Battery Replacement:** Replace batteries in your remote controls as needed to ensure reliable operation.

6. TROUBLESHOOTING

If you encounter issues after installing the 41AC050-2 logic board, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Door opens but reverses immediately when closing, or only moves a few feet then reverses.	Incorrect force settings.	Adjust the force limit dials on the logic board. Refer to your garage door opener's main manual for precise adjustment procedures. Ensure the door reverses on a 1-inch object.
No lights or motor activation when button/remote is pressed.	Loose or improperly connected wires, especially JST connectors.	Disconnect power, then carefully inspect and re-seat all wire connections to the logic board, particularly the multi-pin connectors. Ensure they are fully pushed in.
Remote controls do not work after installation.	Remotes need to be reprogrammed to the new logic board.	Press and release the purple learn button on the logic board, then activate each remote control to program it. Refer to your remote's specific instructions.
Garage door opener does not respond at all.	No power to the unit.	Check if the opener is plugged in and if the circuit breaker is tripped.

7. SPECIFICATIONS

- **Manufacturer:** LiftMaster / Chamberlain / Sentex

- **Part Number:** 041AC050-1M
- **Item Model Number:** 041AC050-1M
- **Product Dimensions:** 12.2 x 6.4 x 3 inches
- **Item Weight:** 1.41 pounds
- **Compatibility:** Various LiftMaster AC chain drive and belt drive garage door openers (2005-2015)
- **Frequency:** 315MHz Security+
- **Learn Button Color:** Purple

8. WARRANTY AND SUPPORT

For specific warranty information regarding your LiftMaster/Chamberlain 41AC050-2 Security and Receiver Logic Board, please refer to the documentation included with your purchase or contact LiftMaster customer support directly. Warranty terms can vary based on purchase location and date.

For technical support, additional troubleshooting, or to inquire about replacement parts, please visit the official LiftMaster website or contact their customer service department. Always provide your product model number (041AC050-1M) and any relevant serial numbers when seeking support.

You can find more information and support resources on the [LiftMaster Store on Amazon](#).

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

