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› Chamberlain 41AB050-2 Garage Door Opener Logic Board Instruction Manual

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Model: 41AB050-2 | Brand: LiftMaster

1. PRODUCT OVERVIEW

The Chamberlain 41AB050-2 is a genuine Original Equipment Manufacturer (OEM) replacement receiver logic board designed for various LiftMaster and Chamberlain AC Belt Drive Garage Door Openers. This 315MHz Security+ Logic Board with End Panel Replacement Kit is compatible with units manufactured between 2005 and 2015, specifically those featuring a purple learn button. It serves as a critical component for the proper functioning of your garage door opener, managing signals from remote controls and keypads.

2. SAFETY INFORMATION

Always prioritize safety when working with electrical components and garage door systems. Disconnect power to the garage door opener before beginning any installation, maintenance, or troubleshooting. Failure to do so can result in serious injury or death. Consult a qualified technician if you are unsure about any steps. Keep hands and clothing clear of moving parts. Ensure the garage door path is clear before operation.

- **Disconnect Power:** Always unplug the garage door opener or turn off the circuit breaker before servicing.
- **Eye Protection:** Wear safety glasses during installation.
- **Proper Tools:** Use appropriate tools for the job to prevent damage to components or injury.
- **Read Instructions:** Fully understand all steps before proceeding.

3. SETUP AND INSTALLATION

This section outlines the general procedure for replacing the logic board. Specific steps may vary slightly depending on your garage door opener model. Refer to your opener's original manual for detailed diagrams if available.

3.1. Preparation

1. **Disconnect Power:** Unplug the garage door opener from the electrical outlet or turn off the circuit breaker supplying power to the unit.
2. **Access the Logic Board:** Locate the control panel or housing where the logic board is situated on your garage door opener. This typically involves removing a few screws to open the cover.

3. **Document Wiring:** Before disconnecting any wires, take clear photos of all wire connections to the existing logic board. Pay close attention to the orange/white and white/gray terminals, as well as any other connectors. This will aid in correct re-connection.

3.2. Board Replacement

4. **Disconnect Wires:** Carefully disconnect all wires and connectors from the old logic board. Some connectors, like the white one, may have a lock that needs to be gently disengaged with a small tool (e.g., a knife or tweezers). The black connector usually slides out.
5. **Remove Old Board:** Unscrew the mounting screws holding the old logic board in place (typically 3 screws). Carefully remove the old board.
6. **Install New Board:** Position the new Chamberlain 41AB050-2 logic board in the housing. Secure it with the screws removed earlier.
7. **Reconnect Wires:** Using your previously taken photos as a guide, carefully reconnect all wires and connectors to the new logic board. Ensure all connections are firm and correctly seated. Note that wires may be short, requiring careful manipulation.



Figure 1: Top view of the 41AB050-2 Logic Board, showing the learn button, wire terminals, and programming instructions.



Figure 2: Underside view of the 41AB050-2 Logic Board, revealing the electronic circuitry.

3.3. Initial Power-Up and Programming

7. **Restore Power:** Once all connections are secure and the cover is replaced, restore power to the garage door opener.
8. **Program Remotes:** The new logic board will need to be programmed to recognize your existing remote controls and any MyQ smart hubs.

To Program Receiver for Each Remote:

1. Press and release the LEARN button on the logic board.
2. Press and release the button on your remote control that you wish to operate the garage door.
3. When the opener light flashes, release the remote button.

To Erase All Receiver Codes:

1. Press and HOLD the LEARN button on the logic board until the opener light turns OFF (approximately 30 seconds).
2. Release the button. All previous codes are now erased.

After programming, test the operation of your garage door opener with all remotes and connected devices.

4. OPERATING THE LOGIC BOARD

The logic board is the central processing unit of your garage door opener. Once installed and programmed, it interprets signals from your remote controls, wall-mounted push buttons, and safety sensors to control the opening and closing cycles of the garage door. The purple learn button is primarily used for programming new remote controls or erasing existing ones.

The board also manages safety features, such as reversing the door if an obstruction is detected by the safety sensors. Proper functioning of the logic board is essential for reliable and safe garage door operation.

5. MAINTENANCE

The Chamberlain 41AB050-2 logic board is designed for durability and typically requires minimal maintenance. However, following

these general guidelines can help ensure its longevity:

- **Keep Clean:** Periodically inspect the area around the logic board for dust, debris, or insect nests. Gently clean with a soft, dry brush or compressed air if necessary.
- **Environmental Protection:** Ensure the garage door opener housing remains intact to protect the logic board from moisture, extreme temperatures, and physical damage.
- **Wiring Integrity:** Occasionally check that all wires connected to the logic board are secure and free from fraying or damage.
- **Power Surges:** Consider using a surge protector for your garage door opener to protect sensitive electronic components like the logic board from electrical spikes.

6. TROUBLESHOOTING

If your garage door opener is experiencing issues after logic board replacement, or if you suspect the logic board is failing, consider the following common symptoms and solutions:

Symptom	Possible Cause	Solution
Door only closes by holding down the wall button.	Safety sensors are misaligned, obstructed, or faulty; logic board not receiving sensor signal.	Check safety sensor alignment and ensure no obstructions. Clean sensor lenses. If sensors are confirmed working, the logic board may be the issue.
Remote controls or keypads do not work or lose programming.	Logic board programming issue or failure.	Reprogram all remote controls and devices using the LEARN button. If programming fails repeatedly, the logic board may be defective.
Opener clicks but does not move the door.	Logic board internal fault or motor issue.	Ensure all wiring connections are secure. If the issue persists, consult a professional or consider board replacement if other components are ruled out.
Diagnostic LED lights blinking (e.g., 5 flashes).	Specific error code indicating a problem with the logic board or connected components.	Consult your garage door opener's manual for the meaning of specific blink codes. Often, certain codes point directly to a logic board issue.

If troubleshooting steps do not resolve the issue, professional assistance may be required. Ensure power is disconnected before any further inspection or repair.

7. SPECIFICATIONS

Attribute	Detail
Manufacturer	Chamberlain
Part Number	41AB050-2
Item Weight	1 pounds
Package Dimensions	12.13 x 6.85 x 4.02 inches
Item Model Number	41AB050-2
Color	Black
Material	Plastic
Power Source	AC

Attribute	Detail
Installation Method	Screw-In
Item Package Quantity	1
Compatibility	LiftMaster and Chamberlain AC Belt Drive Garage Door Openers (2005-2015 models with purple learn button)

8. WARRANTY AND SUPPORT

Specific warranty details for the Chamberlain 41AB050-2 Logic Board are not provided within this document. For information regarding warranty coverage, technical support, or replacement parts, please contact Chamberlain or LiftMaster customer service directly or refer to the original documentation that came with your garage door opener.

It is recommended to purchase genuine OEM parts to ensure compatibility and performance.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

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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

Answered questions about this manual

Why will my garage door not stay closed even though the LiftMaster 41AB050-2 sensors are clean, unobstructed, and have active lights?

If your garage door reverses immediately after closing or refuses to stay closed despite the safety sensors being clean and lit, the issue often lies with the Logic Board or the Travel Limits. Based on...

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The lights are staying on all the time on my LiftMaster 41AB050-2 garage door opener. How do I shut them off?

If the lights on your LiftMaster 41AB050-2 garage door opener are staying on constantly, it is usually caused by one of the following issues: Light Feature on Wall Control: Many LiftMaster wall-mounted control panels have...

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