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› LiftMaster Garage Door Opener 41AB050-2M Receiver Logic Board User Manual

LiftMaster 41AB050-2M

LiftMaster Garage Door Opener 41AB050-2M Receiver Logic Board User Manual

Model: **41AB050-2M** | Brand: **LiftMaster**

INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the LiftMaster 41AB050-2M Receiver Logic Board. This logic board serves as a direct replacement component for compatible LiftMaster garage door openers, controlling the primary functions of the opener, including remote control reception, safety sensor operation, and door travel limits.

It is designed to restore full functionality to your garage door opener system when the original logic board has failed. Please read this manual thoroughly before proceeding with any installation or maintenance.

IMPORTANT SAFETY INFORMATION

WARNING: To reduce the risk of severe injury or death, always disconnect electrical power to the garage door opener before attempting any installation, repair, or maintenance. Garage door openers operate with high voltage and moving parts that can cause serious harm.

- Ensure the garage door opener is unplugged or the circuit breaker is turned off before beginning work.
- Always wear appropriate personal protective equipment, such as safety glasses.
- Be aware of the garage door's moving parts and springs, which are under extreme tension. Do not attempt to repair or adjust these components.
- Refer to your original garage door opener's user manual for specific safety warnings and procedures related to your model.
- Keep children and pets away from the garage door area, especially during installation and testing.

INSTALLATION AND SETUP

The LiftMaster 41AB050-2M logic board is designed for straightforward replacement. Follow these steps carefully:

1. **Disconnect Power:** Unplug the garage door opener from the electrical outlet or turn off the circuit breaker supplying

power to the unit. Verify that the unit is completely de-energized.

2. **Access the Logic Board:** Open the cover of your garage door opener unit to expose the existing logic board. The exact method for opening the cover may vary by model; consult your opener's manual if needed.
3. **Label and Disconnect Wires:** Before removing any wires from the old logic board, carefully label each wire with its corresponding terminal. This is crucial for correct re-installation. Disconnect all wires, including those for the safety sensors, wall control, and power.
4. **Remove Old Board:** Unscrew or unclip the old logic board from its mounting points. Gently remove it from the unit.
5. **Install New Board:** Position the new LiftMaster 41AB050-2M logic board in the same location as the old one. Secure it using the original screws or clips.
6. **Reconnect Wires:** Reconnect all wires to their correct terminals on the new logic board, using the labels you created. Pay particular attention to the safety sensor wires; incorrect connection can prevent the door from closing. Ensure all connections are secure.
7. **Restore Power:** Once all connections are verified, plug the garage door opener back into the electrical outlet or turn on the circuit breaker. The unit should power on.
8. **Reprogram Remotes and Accessories:** The new logic board will require all existing remote controls, keypads, and vehicle remotes to be reprogrammed.
 - Locate the **"LEARN"** button on the logic board (often purple).
 - Press and immediately release the LEARN button. The learn indicator light will glow steadily for 30 seconds.
 - Within 30 seconds, press and hold the button on your remote control or vehicle remote that you wish to operate the garage door.
 - Release the button when the opener lights flash or two clicks are heard. This indicates successful programming.
 - Repeat for all other remote controls and accessories.
9. **Adjust Open/Close Force and Travel Limits:** The new board may require adjustment of the open and close force settings and travel limits to ensure safe and proper operation. Refer to your garage door opener's main manual for detailed instructions on how to set these. Incorrect force settings can lead to injury or damage.



This image displays the LiftMaster 41AB050-2M Receiver Logic Board. Key features visible include the terminal block for wiring connections, the purple 'Learn' button for programming remotes, and adjustment screws for setting the open and close force limits of the garage door opener. Safety warnings and programming instructions are also printed on the board's surface.

OPERATION

Once the LiftMaster 41AB050-2M Receiver Logic Board is correctly installed, programmed, and adjusted, your garage door opener will resume normal operation. The logic board processes signals from your remote controls, wall control, and safety sensors to control the movement of the garage door.

For daily operation of your garage door opener, refer to the specific instructions provided in your original garage door

opener's user manual regarding the use of remote controls, wall buttons, and safety features.

MAINTENANCE

The LiftMaster 41AB050-2M Receiver Logic Board is a sealed electronic component and requires minimal maintenance. However, regular inspection of your overall garage door opener system is recommended.

- Periodically inspect all wiring connections to the logic board to ensure they remain secure and free from corrosion.
- Keep the interior of the garage door opener unit clean and free of dust, debris, and insects, which can interfere with electronic components.
- Ensure the safety sensors are clean, properly aligned, and free from obstructions.
- Do not attempt to open or repair the logic board itself. Doing so may void any applicable warranty.

TROUBLESHOOTING

If your garage door opener is not functioning correctly after installing the new logic board, consider the following common issues:

Problem	Possible Cause	Solution
Opener does not respond after installation.	No power, incorrect wiring, or remotes not programmed.	• Verify power supply to the opener. • Double-check all wire connections to the logic board, especially safety sensors. • Ensure all remote controls and accessories are properly programmed to the new board.
Garage door does not close, or lights flash.	Safety sensors are misaligned, obstructed, or incorrectly wired.	• Inspect safety sensors for obstructions. • Clean sensor lenses. • Ensure sensors are properly aligned (indicator lights on sensors should be solid). • Verify sensor wiring connections to the logic board.
Door opens/closes partially or reverses unexpectedly.	Travel limits or force settings are incorrect.	• Refer to your garage door opener's main manual to reset and adjust the travel limits and force settings.
Remote controls do not work.	Remotes not programmed or battery issues.	• Reprogram all remote controls to the new logic board (see Installation section). • Check and replace batteries in remote controls if necessary.

If problems persist after attempting these troubleshooting steps, it is recommended to contact a qualified garage door technician or LiftMaster customer support for further assistance.

SPECIFICATIONS

- **Brand:** LiftMaster
- **Part Number:** 41AB050-2M
- **Compatible Models:** Designed for various LiftMaster garage door opener models (refer to your opener's manual for compatibility).
- **Color:** Black
- **Item Weight:** Approximately 1.5 pounds (0.68 Kilograms)
- **Package Dimensions:** Approximately 12.32 x 6.73 x 4.09 inches
- **Assembly Required:** Yes (installation into existing opener unit)
- **UPC:** 640213243025

WARRANTY AND SUPPORT

For specific warranty information regarding the LiftMaster 41AB050-2M Receiver Logic Board, please refer to the documentation included with your purchase or visit the official LiftMaster website. Warranty terms and conditions may vary.

If you require technical assistance or have questions not covered in this manual, please contact LiftMaster customer support directly. Their contact information can typically be found on their official website or in your original garage door opener's documentation.

