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› Excalibur RS-170-B 70 Series Remote Start Module User Manual

Excalibur RS-170-B

Excalibur RS-170-B 70 Series Remote Start Module User Manual

Model: RS-170-B

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Excalibur RS-170-B 70 Series Expandable Add-On Vehicle Remote Start Module. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.



Figure 1: Excalibur RS-170-B 70 Series Remote Start Module. This image displays the compact black module with various ports and connectors, including a blue LED indicator and a separate wired blue LED.

KEY FEATURES

- **OEM Remote Control:** Supports lock/arm and unlock/disarm functions from original equipment manufacturer (OEM) remotes via data connection (module firmware must support this feature).
- **3X Lock Start:** Enables remote engine start by pressing the lock button three times on the OEM remote, via analog or data (module firmware must support this feature).
- **Expandable Design:** Ready for integration with any 70 Series antenna kit and remote combination.
- **Integrated Security:** Equipped with full security capabilities; requires addition of a compatible sensor and siren for activation.
- **Control Module:** Powered by the AL-XX70-B control module.
- **Blade Compatible:** Designed for compatibility with Blade interface modules.
- **Linkr Smartphone Control:** Supports Linkr smartphone control for enhanced accessibility.
- **Transmission Compatibility:** Compatible with both automatic and manual transmission vehicles.
- **Low Current Ignition Harness:** Compatible with the RS-6BLC low current ignition harness.
- **Data Ports:** Features two data ports, both supporting iDataLink or DBI protocols.
- **Analog Sensor Ports:** Includes two analog sensor ports for additional security or monitoring.
- **Onboard Relays:** Seven onboard relays, with five programmable for custom functions.
- **Auxiliary Outputs:** Up to four auxiliary outputs for controlling additional vehicle functions.

- **Backup Battery Port:** Dedicated port for connecting a backup battery.
- **Push Button LED:** Includes a push-button LED for status indication and programming.

SETUP AND INSTALLATION

Installation of the Excalibur RS-170-B module requires technical expertise and should ideally be performed by a certified professional. Incorrect installation can lead to vehicle damage or system malfunction. Always disconnect the vehicle's battery before beginning any electrical work.

Pre-Installation Checklist:

- Verify vehicle compatibility with the RS-170-B module.
- Gather all necessary tools (wire strippers, crimpers, multimeter, etc.).
- Ensure all required harnesses and accessories (e.g., antenna kit, siren, sensors) are available.
- Review the vehicle-specific wiring diagram.

Wiring Connections:

The RS-170-B module features multiple ports and relays for comprehensive integration. Refer to the specific wiring diagrams provided with your module and vehicle for precise connections.

- **Main Power/Ignition Harness:** Connect to vehicle's power, ignition, accessory, and starter wires. Ensure proper gauge wiring is used.
- **Data Ports (iDataLink/DBI):** Connect to compatible vehicle data interfaces for seamless integration with vehicle's electronic systems.
- **Analog Sensor Ports:** Connect external sensors (e.g., shock sensor, tilt sensor) for enhanced security.
- **Auxiliary Outputs:** Utilize programmable outputs for controlling additional vehicle functions such as trunk release or power windows.
- **Push Button LED:** Install the included push-button LED in an accessible location within the vehicle for system status and programming.

Module Programming:

After all physical connections are made, the module must be programmed to the specific vehicle. This typically involves a series of steps using the push-button LED and/or a specialized programming tool. Consult the detailed programming guide for your specific vehicle and module firmware version.

OPERATING INSTRUCTIONS

Remote Start Function:

- **Using OEM Remote (3X Lock Start):** Press the vehicle's factory remote lock button three times consecutively. The vehicle lights will flash, and the engine will start.
- **Using Aftermarket Remote (if installed):** Refer to the specific instructions for your aftermarket remote control.

Remote Stop Function:

- To turn off the engine after a remote start, press the 3X Lock Start sequence again, or use the designated button on an aftermarket remote.

Entering the Vehicle After Remote Start:

With the engine running via remote start, unlock the vehicle using your OEM remote or aftermarket remote. Enter the vehicle, insert the key into the ignition, turn it to the "ON" or "RUN" position, and then press the brake pedal. The remote start system will disengage, and the vehicle will operate normally.

Security System Operation (if installed):

- **Arming:** Press the lock button on your remote. The vehicle lights will flash, and the siren (if installed) will chirp once.
- **Disarming:** Press the unlock button on your remote. The vehicle lights will flash twice, and the siren (if installed) will chirp twice.
- **Panic Mode:** Press and hold the lock or unlock button (or designated panic button on aftermarket remote) for several seconds to activate the siren and flashing lights.

Linkr Smartphone Control (if activated):

If the Linkr smartphone control module is installed and activated, refer to the Linkr application's user guide for specific instructions on remote start, lock/unlock, and vehicle status monitoring via your smartphone.

MAINTENANCE

The Excalibur RS-170-B module is designed for reliable operation with minimal maintenance. Regular checks can help ensure continued performance.

- **Wiring Inspection:** Periodically inspect all wiring connections for signs of wear, corrosion, or looseness. Ensure all connections are secure.
- **Battery Check:** If a backup battery is connected, ensure it is properly charged and functioning.
- **Firmware Updates:** Consult with your installer or Excalibur support for information on available firmware updates that may enhance performance or add new features.
- **Cleaning:** Keep the module free from dust and moisture. Do not use harsh chemicals for cleaning.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Excalibur RS-170-B module. For complex problems, contact a certified installer or technical support.

Problem	Possible Cause	Solution
Remote start does not activate.	Vehicle not in park (automatic transmission). Hood pin switch open. Low vehicle battery. Remote out of range or battery low. Module not properly programmed.	Ensure vehicle is in park. Check hood pin switch for proper closure. Check vehicle battery voltage. Move closer to vehicle, replace remote battery. Consult installer for programming verification.
Engine starts but immediately shuts off.	Tachometer signal not detected or incorrect. Brake pedal pressed during remote start sequence. Door open or other safety input triggered.	Verify tachometer wire connection and programming. Ensure no brake pedal input during start. Check all doors, hood, and trunk are closed.

Problem	Possible Cause	Solution
Security system false alarms.	Sensor sensitivity too high. Faulty sensor or wiring.	Adjust sensor sensitivity (refer to sensor manual). Inspect sensor wiring and connections.

SPECIFICATIONS

- **Model:** RS-170-B
- **Control Module:** AL-XX70-B
- **Data Port Compatibility:** iDataLink, DBI (2 ports)
- **Analog Sensor Ports:** 2
- **Onboard Relays:** 7 (5 programmable)
- **Auxiliary Outputs:** Up to 4
- **Transmission Compatibility:** Automatic, Manual
- **Ignition Harness Compatibility:** RS-6BLC Low Current
- **Smartphone Control:** Linkr compatible
- **Security Features:** Full security ready (requires external sensor/siren)
- **OEM Remote Integration:** Supports 3X Lock Start, Lock/Arm, Unlock/Disarm (firmware dependent)

WARRANTY INFORMATION

For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Excalibur website. Keep your proof of purchase for warranty claims.

SUPPORT AND CONTACT

If you require technical assistance or have questions regarding your Excalibur RS-170-B module, please contact your authorized Excalibur dealer or visit the manufacturer's support website. Professional installation is highly recommended for this product.

Manufacturer: Excalibur (Lessco Electronics)
Website: www.lessco.com (or relevant Excalibur support site)

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