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HNARL 1600419

HNARL JLG ES Ground Control Circuit Board 1600419 User Manual

For JLG Scissor Lift Models: 1230ES, 1930ES, 2030ES, 2630ES, 2646ES, 3246ES

1. Introduction

This manual provides essential information for the proper installation, functionality, maintenance, and troubleshooting of the HNARL JLG ES Ground Control Circuit Board, Part Number 1600419. This circuit board is a critical component designed for specific JLG ES series scissor lift models.

2. Product Overview

The HNARL JLG ES Ground Control Circuit Board (Part Number 1600419) serves as the PCB controller for the ground control functions of compatible JLG Scissor Lifts. It ensures reliable communication and operation of the lift's essential systems from the ground station.

Key Features:

- **Part Name:** JLG ES Ground Control Circuit Board
- **Part Number:** 1600419
- **Application:** Compatible with JLG SCISSOR LIFT Models 1230ES, 1930ES, 2030ES, 2630ES, 2646ES, and 3246ES.



Figure 1: Top view of the JLG ES Ground Control Circuit Board 1600419, displaying its main components and layout.



Figure 2: Bottom view of the circuit board, revealing the underside components and solder connections.

3. Setup and Installation

Installation of the JLG ES Ground Control Circuit Board 1600419 requires specialized knowledge and should only be performed by qualified technicians or personnel experienced with industrial electrical systems and JLG equipment. Improper installation can lead to equipment malfunction, damage, or personal injury.

Installation Steps:

1. **Safety First:** Ensure the JLG scissor lift is powered off and disconnected from all power sources. Implement lockout/tagout procedures to prevent accidental power restoration.
2. **Access the Control Panel:** Locate and carefully open the ground control panel where the circuit board is housed.

3. **Disconnect Old Board:** Document all wiring connections to the existing circuit board. Take photographs if necessary. Carefully disconnect all wires and connectors.
4. **Remove Old Board:** Unfasten any mounting hardware securing the old circuit board and remove it from the panel.
5. **Install New Board:** Position the new HNARL JLG ES Ground Control Circuit Board 1600419 in place and secure it with the appropriate mounting hardware.
6. **Reconnect Wiring:** Carefully reconnect all wires and connectors to the new circuit board according to your documentation. Ensure all connections are secure and correctly seated.
7. **Close Panel:** Securely close the ground control panel.
8. **Test Functionality:** Restore power to the scissor lift and perform a thorough functional test of all ground control operations as per the JLG operator's manual.



Figure 3: Detailed view of the main connector on the circuit board, highlighting connection points.

4. Operating

The JLG ES Ground Control Circuit Board 1600419 is an internal component that facilitates the operation of the JLG scissor lift's ground controls. It does not have direct user-operable controls. Once correctly installed, the circuit board enables the standard ground control functions of the scissor lift.

For detailed instructions on operating your specific JLG Scissor Lift model, please refer to the official JLG operator's manual provided with your equipment.

5. Maintenance

Proper maintenance ensures the longevity and reliable performance of the circuit board.

Maintenance Guidelines:

- **Regular Inspection:** Periodically inspect the circuit board for any visible signs of damage, corrosion, loose connections, or overheating.
- **Keep Clean:** Ensure the environment around the circuit board is clean and free from dust, debris, and moisture. Use a soft, dry brush or compressed air to gently remove dust if necessary. Do not use liquid cleaners directly on

the board.

- **Environmental Control:** Operate the scissor lift within its specified environmental conditions to prevent damage to electronic components from extreme temperatures or humidity.
- **Professional Service:** Do not attempt to repair the circuit board yourself. Any repairs or replacements should be handled by qualified service technicians.

6. Troubleshooting

If issues arise with the ground control functions of your JLG scissor lift after installing the HNARL 1600419 circuit board, consider the following troubleshooting steps:

Common Troubleshooting Steps:

- **Verify Connections:** Double-check all wiring connections to the circuit board to ensure they are secure and correctly installed according to the wiring diagram.
- **Power Supply:** Confirm that the scissor lift is receiving adequate power and that all fuses and circuit breakers are functioning correctly.
- **Consult JLG Manual:** Refer to the specific JLG scissor lift's service manual for detailed diagnostic procedures and error codes related to ground control issues.
- **Isolate the Problem:** If possible, test other components of the ground control system to determine if the issue is isolated to the circuit board or another part of the system.
- **Professional Assistance:** If the problem persists after basic troubleshooting, contact a qualified technician or HNARL customer support for further diagnosis and repair.

7. Specifications

Specification	Detail
Manufacturer	HNARL
Part Number	1600419
Item Weight	2.2 pounds
Product Dimensions	8.86 x 4.92 x 3.74 inches
Item Model Number	1600419
Included Components	JLG ES Ground Control Circuit Board
Batteries Included?	No
Batteries Required?	No

8. Warranty Information

This HNARL JLG ES Ground Control Circuit Board 1600419 is covered by a**12-month warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

To make a warranty claim, please retain your original proof of purchase and contact HNARL customer support or your authorized dealer. The warranty does not cover damage resulting from improper installation, misuse, neglect, unauthorized modifications, or normal wear and tear.

9. Support

For technical assistance, inquiries regarding replacement parts, or warranty claims, please contact HNARL customer support. You can typically find contact information on the product packaging, the seller's website, or through your authorized dealer.

When contacting support, please have the following information ready:

- Product Part Number: 1600419
- Date of Purchase
- Description of the issue
- Model of the JLG Scissor Lift it is installed in

For additional resources and product information, you may visit theHNARL Store on Amazon.

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