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# Miller 236049 Circuit Card Assembly Instruction Manual

Model: 236049 | Brand: Miller

## 1. INTRODUCTION

This manual provides essential instructions for the proper handling, installation, and maintenance of the Miller 236049 Interconnecting Circuit Card Assembly. This component is designed for specific welding equipment applications. Adherence to these instructions is crucial for ensuring the longevity and correct function of the circuit card and the overall system.

Due to the sensitive nature of electronic components, particular attention must be paid to static electricity precautions during handling and installation.

## 2. SAFETY INFORMATION AND STATIC PRECAUTIONS

**WARNING:** Static electricity can severely damage electronic components. Always follow these precautions to prevent damage to the circuit card assembly.



Figure 1: Miller 236049 Circuit Card Assembly in its static-proof packaging, highlighting static electricity handling instructions.

This image displays the Miller 236049 Circuit Card Assembly sealed within its static-proof packaging. The packaging includes a 'NOTICE' label detailing precautions against static electricity damage, such as grounding oneself, using static-proof bags, and avoiding direct contact with components. It also emphasizes that the seal must remain unbroken for return credit.

- **Ground Yourself:** Before handling the circuit card, always ground yourself. This can be done by wearing a grounded wrist strap or by touching a grounded object (e.g., a metal pipe, unpainted metal chassis) immediately before and during handling.
- **Use Static-Proof Bags:** Keep the circuit card in its static-proof bag until immediately before installation.
- **Handle by Edges:** Only touch the edges of the circuit card. Avoid touching components or soldered areas.
- **Disconnect Power:** Ensure all power to the equipment is disconnected before installing or removing the circuit card.
- **Proper Installation:** Install the board or part according to the specific instructions for your equipment.
- **Return Policy:** To ensure return credit for unused parts, the seal on the static-proof bag must remain unbroken. Always use a static-proof bag to prevent damage and ensure return credit.

### 3. SETUP AND INSTALLATION

- Preparation:** Ensure the equipment where the circuit card will be installed is powered off and disconnected from the main power supply.
- Grounding:** Ground yourself using an appropriate method (e.g., wrist strap, touching grounded metal).
- Unpackaging:** Carefully remove the Miller 236049 Circuit Card Assembly from its static-proof packaging, holding it only by its edges.
- Orientation:** Observe the correct orientation for the circuit card within the equipment chassis. Refer to the equipment's service manual for specific slot or connector locations.
- Insertion:** Gently align the circuit card with its designated slot or connector. Apply even pressure to fully seat the card. Do not force the card into place.
- Securing:** Secure the circuit card using any provided screws, clips, or fasteners as per the equipment's design.
- Reassembly:** Reassemble any covers or panels removed during installation.
- Power On:** Reconnect the equipment to the power supply and power it on.

### 4. OPERATION VERIFICATION

Once installed, the Miller 236049 Circuit Card Assembly functions as an integral part of the welding equipment. Its operation is typically passive, facilitating communication or control within the system. Verification of correct operation involves:

- System Self-Test:** Many welding machines perform a self-test upon startup. Observe for any error codes or unusual behavior.
- Functionality Check:** Perform basic operations of the welding equipment that rely on the circuit card's function. For example, if the card controls a specific welding parameter, test that parameter's adjustment and response.
- Indicator Lights:** Check for any diagnostic LEDs on the circuit card itself or on the main equipment panel that indicate proper function or errors.

Refer to your specific welding equipment's user manual for detailed operational checks after component replacement.

### 5. MAINTENANCE

The Miller 236049 Circuit Card Assembly is designed for minimal maintenance. However, to ensure its longevity and reliable performance:

- Keep Clean:** Periodically inspect the circuit card for dust or debris accumulation. If necessary, gently clean with compressed air (ensure it's electronics-safe and held upright to prevent propellant discharge) or a soft, anti-static brush. Ensure the equipment is powered off and disconnected before cleaning.
- Environmental Control:** Operate the equipment in a clean, dry environment within specified temperature and humidity ranges to prevent corrosion or component stress.
- Avoid Physical Shock:** Protect the equipment from impacts or vibrations that could dislodge components or damage solder joints.

### 6. TROUBLESHOOTING

If the equipment malfunctions after installing the Miller 236049 Circuit Card Assembly, consider the following

troubleshooting steps:

- **Re-check Installation:** Ensure the circuit card is fully and correctly seated in its slot. Verify all connections are secure.
- **Static Damage:** If static precautions were not strictly followed, the card might be damaged. This often requires professional diagnosis.
- **Compatibility:** Confirm that the 236049 circuit card is the correct part for your specific equipment model and serial number. Incorrect parts will not function.
- **Other Components:** The issue might not be with the new circuit card but with another component in the system. Isolate the problem by testing other parts if possible.
- **Professional Diagnosis:** If problems persist, it is recommended to consult a Certified Miller Technician for diagnosis and repair.

## 7. SPECIFICATIONS

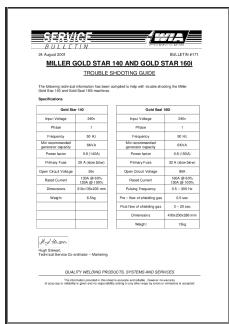
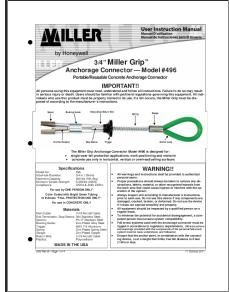
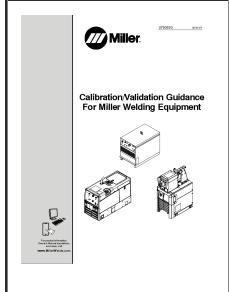
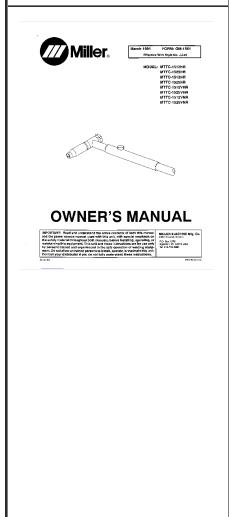
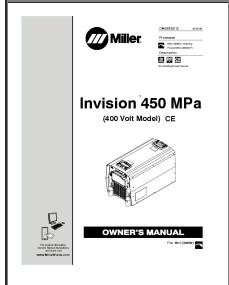
Attribute	Value
Product Name	Circuit Card Assembly, Interconnecting w/Cmpnts
Model Number	236049
Brand	Miller
Product Dimensions	6 x 1 x 1 inches
Item Weight	1.8 Pounds
Manufacturer	Miller Electric
UPC	715959393607

## 8. WARRANTY AND SUPPORT

This product is a replacement part for specialized equipment. Please note the following regarding support and returns:

- **No Returns:** This product is generally non-returnable. Ensure you are ordering the correct part by verifying compatibility with your equipment's serial number before purchase.
- **Technical Assistance:** For technical inquiries or to confirm part compatibility, it is recommended to contact Miller Tech Support directly. Have your equipment's serial number ready when calling.
- **Professional Diagnosis:** If you encounter a problem or defect and are not a Certified Miller Technician, it is your responsibility to take the item to a Certified Miller Technician for diagnosis.

For further assistance, contact Miller Tech at [\(800\) 558-3517](tel:8005583517).

	<p><a href="#">WIA Service Bulletin #171: Miller Gold Star 140 &amp; Gold Star 160i Troubleshooting Guide</a></p> <p>This service bulletin from Welding Industries of Australia (WIA) provides a troubleshooting guide, specifications, parts lists, and circuit diagrams for the Miller Gold Star 140 and Gold Star 160i welding machines.</p>
	<p><a href="#">Miller Grip Model 496 Anchorage Connector User Manual   Fall Protection Safety</a></p> <p>Comprehensive user manual for the Miller Grip Model 496 portable/reusable concrete anchorage connector. Includes installation, use, safety warnings, inspection, and disposal instructions for fall protection applications by Miller (Honeywell).</p>
	<p><a href="#">Miller Welding Equipment Calibration and Validation Guidance</a></p> <p>Comprehensive guidance on the calibration and validation of Miller welding equipment, adhering to industry standards like IEC 60974-14. Learn about definitions, procedures, tolerances, and best practices for ensuring equipment accuracy and performance.</p>
	<p><a href="#">Miller Classic Series Welding Helmets: User Manual and Safety Guide</a></p> <p>Comprehensive user manual and safety guide for Miller Classic Series auto-darkening welding helmets, covering operation, maintenance, specifications, troubleshooting, and parts list. Model OM-252 052F.</p>
	<p><a href="#">Miller MTTC Series Owner's Manual - Welding Torch Guide</a></p> <p>Comprehensive owner's manual for Miller MTTC series welding torches, covering installation, operation, maintenance, safety, and parts. Essential guide for Gas Tungsten Arc Welding (GTAW) processes.</p>
	<p><a href="#">Miller Invision 450 MPa Owner's Manual: Arc Welding Power Source</a></p> <p>Owner's Manual for the Miller Invision 450 MPa (400 Volt Model) CE arc welding power source. Provides detailed operating instructions, safety precautions, specifications, and troubleshooting for MIG and Pulsed MIG welding.</p>

