

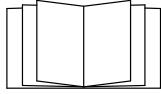
FIELD INSTRUCTIONS

2014-01

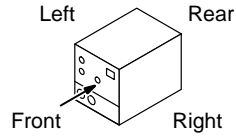
FORM: F266 593A

Use above FORM number when ordering extra manuals.

For Updating Software In ProHeat® 35 Models



Have only trained and qualified persons install, operate, or service this unit. Call your distributor or the equipment manufacturer if you do not understand the directions. For WELDING SAFETY and EMF information, read Owner's Manual.



All directions are given as facing front panel.

Keep hardware for reuse.

1. Safety Symbol Definitions

	<p>DANGER! – Indicates a hazardous situation which, if not avoided, will result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.</p> <p style="text-align: right;"><small>Fsafe1 2013-10</small></p>		<p>Beware of electric shock from wiring. Disconnect input power before installing this kit. Reinstall all panels and covers.</p> <p style="text-align: right;"><small>Fsafe6 2013-10</small></p>
	<p>Indicates a hazardous situation which, if not avoided, could result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.</p> <p style="text-align: right;"><small>Fsafe2 2013-10</small></p>		<p>Wear safety glasses with side shields.</p> <p style="text-align: right;"><small>Fsafe8 2013-10</small></p>
<p>NOTICE</p>	<p>Indicates statements not related to personal injury.</p> <p>Indicates special instructions.</p> <p style="text-align: right;"><small>Fsafe3 2013-10</small></p>		<p>Static electricity can damage parts on circuit boards. Put on grounded wrist strap before touching board.</p> <p style="text-align: right;"><small>Fsafe21 2013-10</small></p>

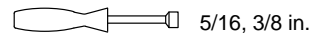
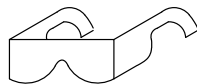
CALIFORNIA PROPOSITION 65 WARNINGS

Welding or cutting equipment produces fumes or gases which contain chemicals known to the State of California to cause birth defects and, in some cases, cancer. (California Health & Safety Code Section 25249.5 et seq.)

This product contains chemicals, including lead, known to the state of California to cause cancer, birth defects, or other reproductive harm. Wash hands after use.

Fsafe4 2013-10

2. Tools Needed

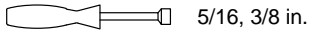


5/16, 3/8 in.

3. Measuring Input Capacitor Voltage



Tools Needed:



- Turn off welding power source.
- Disconnect and lockout/tag-out input power before removing covers or panels and working inside unit. Follow established procedures regarding the installation and removal of lockout/tagout devices.

Remove right side panel and disconnect fan motor FM3.

- 1 Current Source Interconnect Board PC4
- 2 Voltmeter

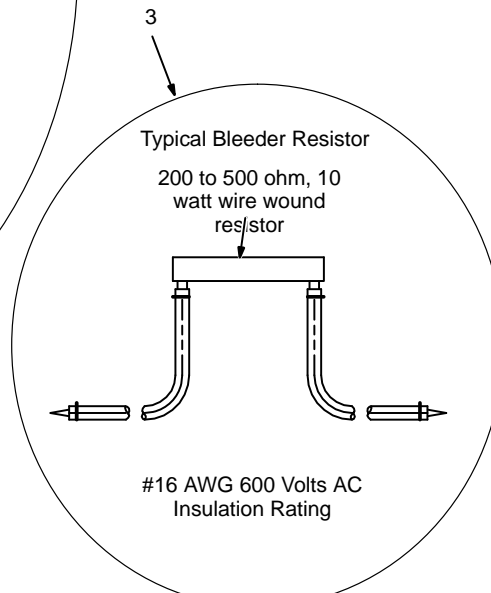
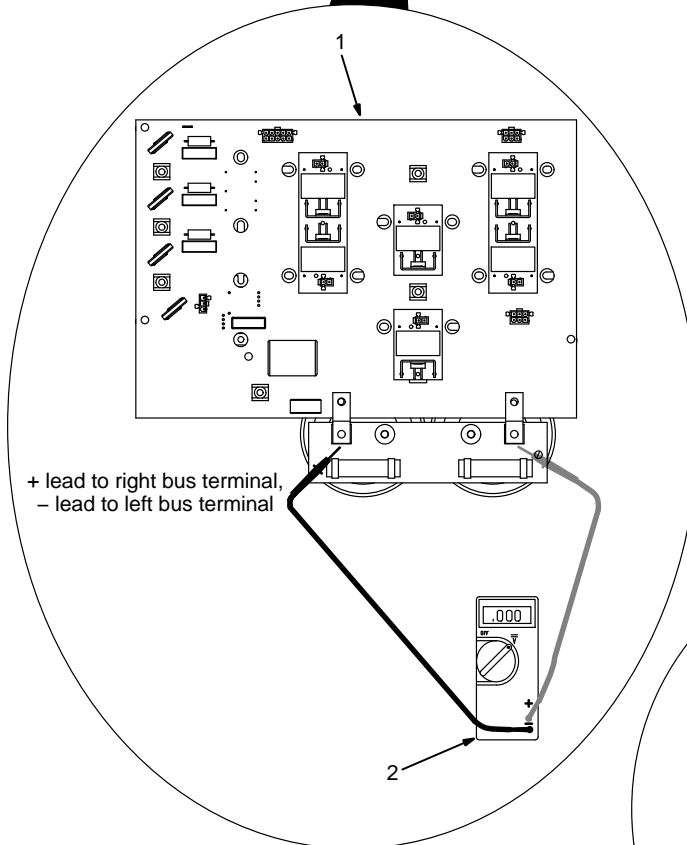
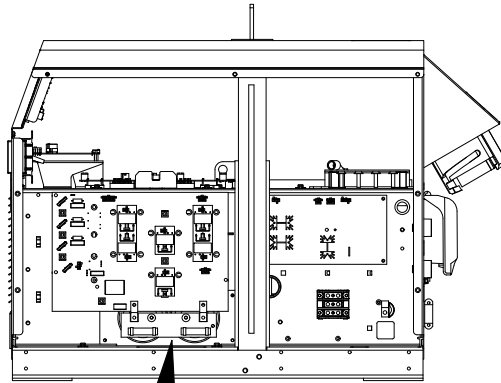
Measure the DC voltage across the + bus terminal and - bus terminal on PC4 as shown until voltage drops to near 0 (zero) volts.

If the capacitor voltage does not drop to near zero after several minutes, use a bleeder resistor of between 200 and 500 ohms, at least 10 watts, and #16 AWG 600 volts ac insulation rated wire to discharge the capacitor(s).

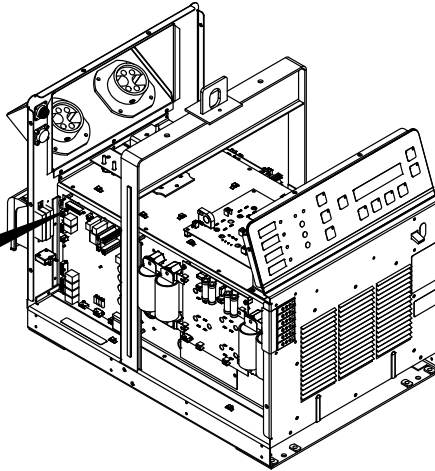
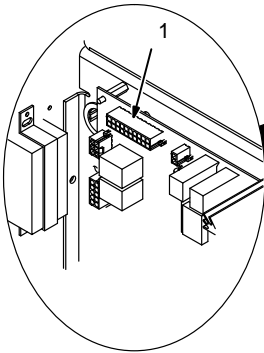
- 3 Typical Bleeder Resistor

An example of a typical bleeder resistor is shown on this page.

Proceed with job inside unit. Reconnect FM3 and reinstall right side panel when finished.



4. Disconnecting Connector From RC3 On PC1

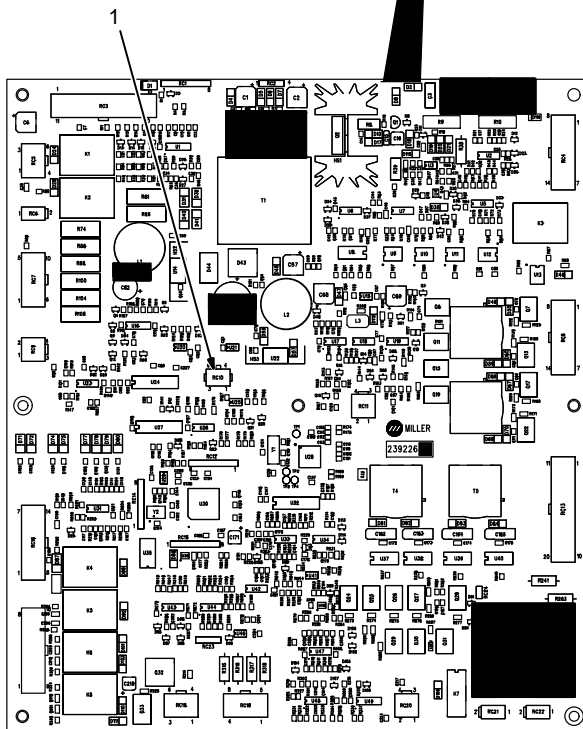
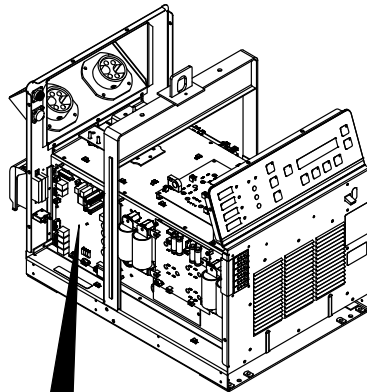


- ⚠ Turn off welding power source.
- ⚠ Disconnect and lockout/tag-out input power before removing covers or panels and working inside unit. Follow established procedures regarding the installation and removal of lockout/tagout devices.

Remove cover and left side panel.
 1 Receptacle RC3
 Disconnect connector from RC3 on PC1.

804 627-A

5. Connecting Programming Adapter To Control Board PC1



- ⚠ Turn Off welding power source, disconnect input power, and check voltage on input capacitors according to Section 3 before touching any parts.

- 1 Receptacle RC10 On PC1
- 2 Programming Adapter Plug
- 3 Plug From Programmer Power Supply Cord
- 4 PS (Power Source) Control Programming Pod

Connect plug from programming adapter into RC10.

Connect PS Control programming pod to adapter.

Connect power supply cord to a 110 VAC wall outlet.

If necessary, customer must supply proper adapter to supply the required 110 VAC.

Press red button on programming pod to begin programming PC1. Programming pod LED lights and flashes when programming starts and continues throughout the programming sequence.

Programming pod LED turns off when programming is complete.

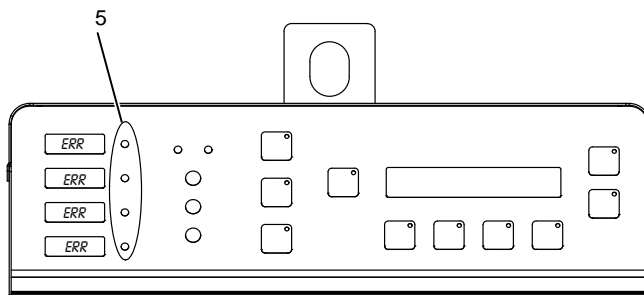
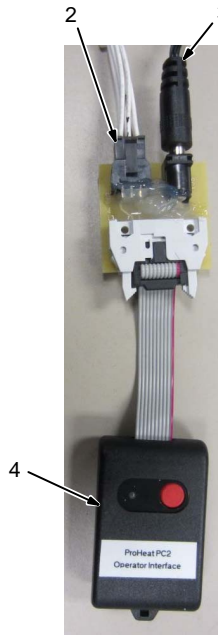
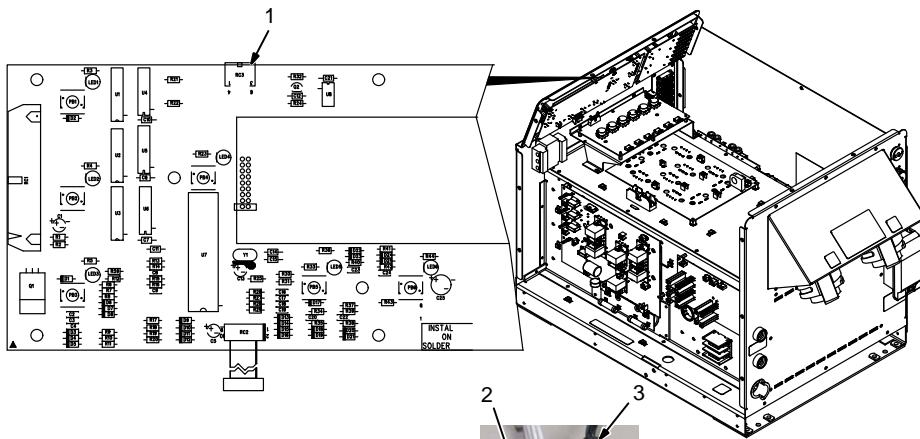
If the programming pod LED momentarily turns solid red and then turns off, the board did not program correctly. Check all connections and try to program again. If the problem persists, contact a Factory Authorized Service Center.

Disconnect programming adapter from PC1. Disconnect PS Control programming pod from adapter. Disconnect programmer power supply cord from 110 VAC.

Keep RC3 disconnected.

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6. Connecting Programming Adapter To Operator Interface Board PC2



⚠ Turn Off welding power source, disconnect input power, and check voltage on input capacitors according to Section 3 before touching any parts.

- 1 Receptacle RC3 On PC2
- 2 Programming Adapter Plug
- 3 Plug From Programmer Power Supply Cord
- 4 Operator Interface Programming Pod
- 5 Front Panel LEDs

Connect plug from programming adapter into RC3 of PC2.

Connect Operator Interface programming pod to adapter. Connect programmer power supply cord to 110 VAC.

Front Panel LEDs illuminate once the programming adapter is connected.

Press red button on programming pod to begin programming PC2.

Programming pod LED lights and flashes when programming starts and continues throughout the programming sequence.

Front panel LEDs turn off while programming is in progress.

Programming pod LED turns off when programming is complete.

ⓘ If the programming pod LED momentarily turns solid red and then turns off, the board did not program correctly. Check all connections and try to program again. If the problem persists, contact a Factory Authorized Service Center..

Front panel LEDs illuminate when programming is complete.

Disconnect Operator Interface programming pod. Disconnect programmer power supply from wall outlet. Disconnect programming adapter from PC2.

Reconnect connector to RC3 on PC1 (see Section 4 for location).

Install all side panels and cover removed earlier.

Follow established lockout/tagout procedures to put unit in service.

ⓘ Return kit with all original packaging materials, manual, and other accessories provided by the Miller Electric Mfg. Co. using the supplied UPS Authorized Return Service Label per loaner kit agreement.