Technogram

02/02

Affects: D7039

1.0 Introduction

The Radionics Quality Assurance team has discovered a problem in the D7039 module used in your D7024 systems. The Addressable Mux Module D7039 may fail when, the circuit length exceeds 2000 feet (667 meters), and the line is then shorted past the 2000 foot (667 meter) mark. The short will not cause a fault on the panel, but the addressable devices will not operate.

We have determined the reason for the fault and have corrected it. We are supplying you the replacement chip to be installed in your D7039 Addressable Mux Module(s).

Replace the chips immediately if:

- There is greater than 2000 feet (667 meters) of 18 AWG (1 mm) wire or greater than 26 ohms in a Class B configuration, to the last device.
- There is greater than 1000 feet (333 meters) of 18 AWG (1 mm) wire, or greater than 26 ohms in a Class A configuration, to the furthest devices.

If the total wire is less than 2000 feet (667 meters) (Class B) or 1000 feet (333 meters) (Class A), the chips can be replaced at your next regularly scheduled service check. Please properly dispose of the old component.

2.0 Requirements

You will need a PLCC extraction tool for this procedure. This tool is not supplied with the update kit but may be purchased at Radio Shack (Part Number: 276-2101) or other electronic stores.



Do NOT use a screwdriver or any other prying device for this procedure. Incorrectly removing or replacing the chip may damage the board. Radionics cannot be responsible for products damaged as a result of incorrectly removing and installing the chips.



3.0 Updating the D7039

3.1 Before you begin

Remove all power from the system (AC and standby battery) before beginning this upgrade.

(Continued on reverse)



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3.2 Locating the chip to be removed

The chip to be replaced is resting in a square socket in the lower central portion of the board. See the diagram below.



Notice that one corner of the chip and one corner of the socket have been filed flat, and there is a notch in the chip and a corresponding notch in the socket.

When the new chip is inserted into the socket these indicators must line up.



3.3 Removing the chip



Prior to removing the chip, ground yourself to discharge any static electricity.

Place the tips of the PLCC extraction tool in the slots on diagonal corners of the socket. Then push the handles of the extractor in while gently lifting straight up. Do NOT rock the chip or pull one side up before the other as damage to the socket may occur. Discard the old chip.

3.4 Installing the update chip

Prior to handling the update chip, ensure that you are properly grounded and that static electricity has been minimized or eliminated.

Place the new chip over the socket, ensuring that the notch on the chip is lined up with the notch in the socket and that the flattened corner of the chip is lined up with the flattened corner of the socket. Once this has been determined, slowly push down on the chip making sure that it is fully seated. Again, do not rock the chip or allow one side to go in before the other.

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3.5 Finishing the installation

Reconnect power to the system. It will take approximately five minutes for the Control/Communicator to update the D7039's program.

4.0 Additional information

If you encounter any problems with the installation of this update kit, contact Technical Support at (800) 538-5807 Monday through Friday 5:00 a.m. to 5:00 p.m. Pacific Time.