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Error 6011: Device Insertion Error

Date: 7/6/1995

Part Number: 983-0476-001a

Description:

General Information

The "Device insertion error" message can only be caused by a failure of the continuity check. The continuity check is activated prior to device programming. During the continuity check, the programmer applies low level current to each pin on the device to determine whether it is making good contact with the programming fixture.

After disabling the continuity test, we suggest loading a device rather than programming one. A load operation is less apt to harm the device because no programming voltages are applied.

Probable Cause: Solution

Device inserted improperly:

Ensure that the device is properly justified in the socket.

Faulty device(s):

Check device for bent or damaged leads. Repeat the operation with similar devices from same as well as other manufacturers. If the operation proves successful with similar devices, then the suspect part is likely defective.

Socket is dirty or worn:

Examine the socket for debris and wear. Clean or replace the socket as necessary.

Possible bug in programmer software associated with continuity check:

If this error occurs during an attempt to read the device (via Device/Read device from the main menu), disable the Continuity Checking parameter (remove "X" from [X]) in the General Parameters screen (via Config/General Parameters options from the main menu). If the device is read successfully without insertion errors, try to program the device. If the device programs successfully, you've found a reasonable workaround.

Note: Contact ChipLab Technical Support and report your findings.

Continuity problem with device/programmer interface:

If following the steps described in the previous section causes the device to fail programming, a subtle continuity problem may exist.

Workaround: Refer to your programmer's Device List and note the earliest version the device that is supported by your programmer. Boot your programmer with any previous software version that supports the device and attempt the operation again. If the operation is successful with the earlier software, then you've found a temporary workaround.

Note: Contact ChipLab Technical Support and report your findings.

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Error 6015: Compare Electronic ID Operation Failed on Memory Device

Date: 7/6/1995

Part Number: 983-0479-001a

Description:

General Information

Most memory devices are uniquely identified by their silicon signatures (electronic IDs). At times, device manufacturers change the signatures (IDs) of devices that undergo changes in their manufacturing processes. Typically, the silicon signature is altered to promote automatic device selection and usually does not reflect a change in the device programming specifications. Consequently, disabling the electronic ID check is a viable workaround for most memory devices.

Probable Cause: Solution

Improper device selected:

Make sure the device selection matches the manufacturer and part number of your device as precisely as possible. If it doesn't, select the proper characteristics and perform the operation again.

Note: Choosing the wrong manufacturer and/or part number (via Device/Select device option from main menu) causes the programmer to expect an electronic ID that differs from the ID in your device.

Device manufacturer has changed the Electronic ID of the device and programmer does not recognize it:

If the device is labeled with a recent date code, the manufacturer may have placed a new electronic ID in the device that is not recognized by your programmer. To minimize ID errors, use the latest software version on your programmer.

Workaround: If your programmer is at current version, disable the Enable Electronic ID parameter by entering "X" in [] under the Read device, Program device, Verify device, or General Parameters screens.

Note: You may wish to contact the device manufacturer to find out if they changed the ID on the device. If they did, please notify your ChipLab Technical Support Representative.

Faulty device(s):

If disabling the Enable Electronic ID parameter causes an operation (such as read, program, or verify) to fail, try the operation on other devices with the same date code. If the operation is successful on these devices, the original device may be defective.

Note: If a high percentage of parts fail the operation, you may wish to contact the device manufacturer and report your findings.

Possible bug in programmer software:

If disabling the Enable Electronic ID parameter causes the operation to fail on a high percentage of parts across several date codes, there may be a software bug in the programming algorithm associated with the part.

Workaround: On the programmer's Device List, find the earliest version of programmer software that supports the device. Run your programmer with any previous software version that supports the device and repeat the operation. If the operation is successful, you've found a temporary workaround.

Note: Contact your ChipLab Technical Support Representative and report your findings.

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