MICROCONTROLLER TECHNOLOGY OTP PROGRAMMER SUPPORT
APPLICATION NOTE

SUBJECT: EPU Programming Yields for SOIC devices.

PROBLEM and SYMPTOMS:

The EPU has a history of poor programming yields when using the PGMA adapter with the SOIC open-top socket.   It is difficult to get devices in and out, and the contacts are not reliable.

Device pins may be bent during insertion and extraction.

SCOPE:

This problem can occur with any COP8 Family SOIC device.   It is a programming yield issue ONLY, and any devices that pass program/verify are good.

SOLUTIONS:

1. The EPU is an evaluation and development tool, and is not approved for volume programming of any OTPs. Use only third-party programmers approved for Production use: Approved Programmer List .

2. Instead of the Metalink PGMA adapter, use a standard 28SO-to-28DIP, lidded programming adpater inserted into the 40 DIP socket. This 1-1 adapter is commonly available from any programmer or adapter vendor. The ENPLAS lidded socket is recommended.

   National may have a limited supply of these adapters available for purchase in boxstock: pn# COP8-PGMA-28SO.

For more information contact Dave Katra by EMAIL: dave.katra@nsc.com.
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