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# Product Change Notification

## E5 Insert Overmold - PCN 1008

Date of Notification	Change		Part Numbers Affected
August 23, 2011	<input type="checkbox"/> Major	<input checked="" type="checkbox"/> Minor	All E5 & E5 based encoders including: S5, T5, H15 & H5

### Notification

<input type="checkbox"/> Product Obsolescence	<input type="checkbox"/> Product Marking	<input checked="" type="checkbox"/> Process Change	<input checked="" type="checkbox"/> Design Change
<input type="checkbox"/> Material Change	<input type="checkbox"/> Specification Change	<input checked="" type="checkbox"/> Component Change	<input type="checkbox"/> Other

### Notification Description (Including Extent, Purpose / Reason, and Effect on Form, Fit and Function)

In an effort to enhance the robustness of our E5 encoder, the four threaded inserts pressed into the base are being replaced with similar threaded inserts that will be insert-molded into the encoder base. This change in process will retain the insert with much greater strength.

The previous design utilized two tin plated carbon steel #4-40 threaded inserts for mounting the encoder module to the encoder base plate, and two #4-40 threaded brass inserts for mounting the encoder cover to the base. The revised design will instead come with four #4-40 threaded brass inserts. The new brass inserts maintain RoHS compliance and function identically to the previous inserts. Test results show that these new overmolded brass inserts can withstand as much as double the torque of the press in inserts before showing any sign of failure (contact US Digital for the detailed test report).



Figure 1, Shows side by side of the new part with overmolded inserts (left) to prior design with pressed in inserts (right)



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### Alternate Parts (as applicable)

N/A

### Effective Date (Including Last Time Buy Date and Conditions, as applicable)

Implementation will begin in October 2011 and be completed by March 2012 (use all existing inventory before completing implementation)