

## ANSYS Class3 Error Report

**ERROR NO:**

2013-08

**Keywords:**

PERTURB    LINEAR PERTURBATION ANALYSIS    TARGE169    TARGE170  
PILOT NODE    NODAL COORDINATE SYSTEM

**Description of Error:**

When a linear perturbation analysis (PERTURB command) is performed and the finite element model used contains a pilot node (TARGE169, TARGE170) which is defined in a nodal coordinate system other than global Cartesian (the default), the coordinates of certain other nodes in the model could be updated incorrectly in the second phase of the linear perturbation process. This leads to a wrong solution (e.g. eigenvalues or mode shapes) for the associated pre-stressed modal, buckling or harmonic analysis.

**Typical GUI Path(s):**

Main Menu>Solution>Analysis Type>Restart

**Other Comments:****First Incorrect Version:**

Release 14.0

**Corrected In:**

Release 14.5

**Suggested User Action For Running on Uncorrected Version:**

Avoid defining the pilot node in a local coordinate system. Define it in the global Cartesian system instead.

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**Approval:**

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