

Operating Note

Agilent Technologies 8530A/85370A

8530A Option 005/H58



Agilent Technologies

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Agilent 8530A/85370A (8530A Option 005/H58)

This note details a workaround for the erroneous “OVERSPEED ERROR” indications that can occur when using the 8530A Option 005 or 8530A H58, and the 85370A.

This note applies to both the 8530A Option 005 and 8530A H58 with operating system REV A.01.60.

Summary

Erroneous “OVERSPEED ERROR” indications can be encountered under certain circumstances while using the 8530A Option 005/H58 and the 85370A in DUAL SYNCHRO mode. These erroneous indications CANNOT be cleared by reducing the positioner speed or by backing the positioner up and repeating measurements.

These erroneous indications do not appear when using the 8530A Option 005 and the 85370A in SINGLE SYNCHRO mode. The workaround detailed here need not be used if measurements are to be made only in SINGLE SYNCHRO mode.

Cause

The 8530A Option 005/H58 can provide the 85370A an incorrect setting for the synchro misalignment correction. This incorrect misalignment correction causes the 85370A to report an incorrect angle to the 8530A Option 005/H58 thereby causing an apparent “OVERSPEED ERROR.”

The misalignment correction can be set incorrectly upon:

- Power-on
- Change of AXIS setting if the new AXIS is DUAL SYNCHRO

Operational Workaround

Use the following procedure when turning on the 8530A Option 005/H58 and the 85370A, or when changing the AXIS selection.

After turning power ON or changing axis:

1. Wait a minimum of .5 seconds.
2. Select DUAL SYNCHRO. Perform this step whether or not the DUAL SYNCHRO softkey shows it has been selected.

This workaround applies to both manual and automated measurements.