# Addendum to Product Manuals:
# 590+, 590+DRV and DC590 Series DC Digital Drives
(HA466461U004, HA470388U003 and HA467078U001)

## Analog Tach Calibration Option Board

***IMPORTANT*** ***Refer to Product Manual Chapter 3: "Installing the Drive" – Speed Feedback, for further information.***

**WARNING**

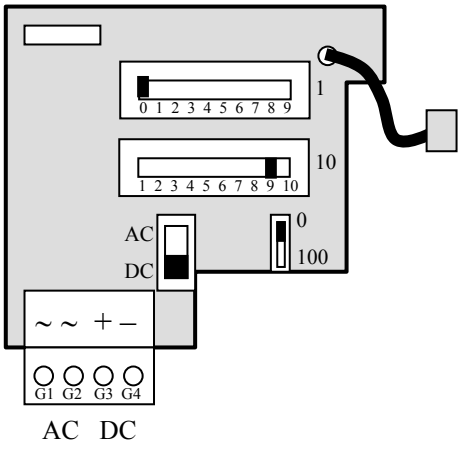
**Do not fit this Option Board with the drive powered-up**

This product may be fitted with a new version of the Analog Tach Calibration Option Board.

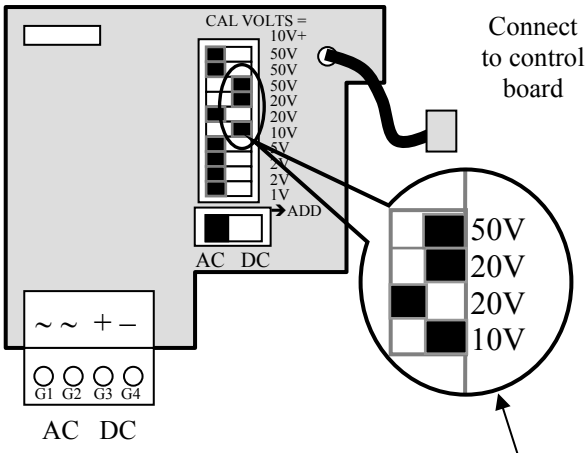
**ORIGINAL** The original option has Part Number AH385870U001 and is configured by setting its two 10-position slide switches and two 2-position slide switches. Refer to Product Manual Chapter 4: "Selecting Speed Feedback" for further information on using this original option.

**NEW** The new option has Part Number AH500935U001 and is mounted in the same manner as the original. The connecting link wire to the control board is still required and must be connected for operation.
It is configured by setting its single 10-way switch and single 2-position switch.

**ORIGINAL - AH385870U001**




**NEW - AH500935U001**




### Calibration of the new AH500935U001 version

On this new version of the option the full-speed tach generator voltage is configured by adding together the values from any number of the individual selection switches (on the 10-way switch).

*CALIBRATED FULL-SPEED VOLTAGE = 10V + SUM OF SWITCHES SELECTED*

**NOTE** **Individual switch values will be included if the switch is set to the right.**

In the example AH500935U001 shown above (with three switches selected):
Calibrated full-speed voltage = 10V + (50V + 20V + 10V) = 90V

***IMPORTANT*** ***The calibrated full-speed voltage is 10V greater than the sum of switch values selected.***

This AH500935U001 board continues to support both AC and DC analog tachs with a calibration range of 10 to 200V.

- For AC tach feedback, use terminals G1 & G2, with selector switch in the AC position (left). Calibrate the switches for √2 x full-speed voltage required, i.e. √2 x 90V = 127V. This adjusts the r.m.s. value received from an AC tach into the required peak value.
- For DC tach feedback, use terminals G3 & G4, with selector switch in the DC position (right).

**NOTE** **Do not set the calibration volts to greater than 200V, the max. terminal block rating.**


*HA500952-01*

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