Fox Delta ST3 Satellite rotator controller interface (Yaesu G5500)

Errors in pin outs for ST3 – Rotator controller interface cable

Rotator controller Pin outs

Controller Pin No	Function	D9M connector
6	Elevation 2 - 4.5VDC	2
1	Azimuth 2 – 4.5VDC	1
4	Left	9
2	Right	5
5	Up	3 (not 4 as shown in ST3 diagram)
3	Down	4 (not 3 as shown in ST3 diagram)
7	+V (6 – 13VDC 200mA)	6
8	Common Ground	7 & 8

Calibration of ST3 to G5500 Controller

This calibration is based upon the steps provided in the Yaesu GS-232 manual.
Calibration should only be done after the rotator has been set up following the guidelines in the rotator manual.

Azimuth:
On controller, set azimuth to 360º - Clockwise/Right
Connect ST3 interface to PC and control box
Adjust OUT VOL ADJ potentiometer located on the rear of the controller box, to give 360º on the ST3 display.
Manually return the rotator to 0º and check LCD still displays corresponding azimuth i.e. 0º

Elevation:
On controller, set elevation to 180º - full scale
Connect ST3 interface to PC and control box
Adjust OUT VOL ADJ potentiometer located on the rear of the controller box, to give 180º on the ST3 display.
Manually return the rotator to 0º and check LCD still displays corresponding elevation i.e. 0º

NOTE:
The above has been tested using SATPC32 and is fully functioning.