

INSTALLATION BULLETIN 119

31 March, 2005

Subject: This Installation Bulletin describes programming and interface between the Analog Interface Unit (AIU-1) and a Chelton AP-3C autopilot operating at 5KHz AC datum.

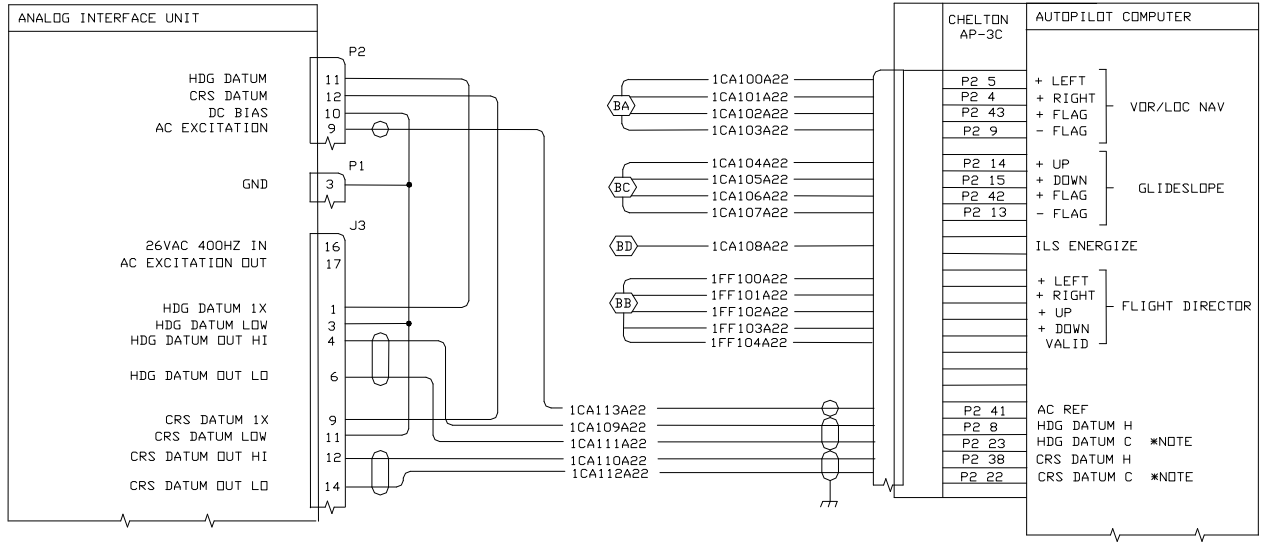
The Autopilot manufacturer has determined that the 5KHz AC datum interface described in this Installation Bulletin is favored over the DC datum interface for better noise immunity and autopilot operation.

AIU configuration is as follows:

DIP Switch #1	UP
DIP Switch #2	DOWN
DIP Switch #3	UP
DIP Switch #4	UP
DIP Switch #5	UP
DIP Switch #6	UP
DIP Switch #7	UP
DIP Switch #8	UP
DIP Switch #9	UP
Slide Switch SW1	RIGHT
Autopilot Heading Scaling Factor	2000
Autopilot Heading Polarity	Positive: LEFT
Autopilot Course Scaling Factor	2000
Autopilot Course Polarity	Positive: RIGHT
Autopilot Scaling Mode	SINE
Horizontal Flight Director Scaling Factor	N/A
Horizontal Flight Director Polarity	N/A
Vertical Flight Director Scaling Factor	N/A
Vertical Flight Director Polarity	N/A
Flight Director Valid Flag	N/A
Tap Transformer	1X

The Heading and Course Datum Scaling Factors contained in the table are for setup only. A flight test must be performed after completion of installation to align the AIU to the autopilot.

The AIU to Chelton AP-3C interface wiring should be as follows:



NOTE: Connect HDG Datum C and CRS Datum C to airframe ground at the AP-3C computer.

Connect ARINC-429 from the Chelton EFIS PFD to the AP-3C computer as follows:

PFD		AP-3C
P2 pin 14	----- TXA	----- P2 pin 34
P2 pin 27	----- TXB	----- P2 pin 35

AP-3C Configuration:

NOTE: Refer to the AP-3C Installation Manual (Doc. 150-041158) for additional information on Software Versions and autopilot dip switches.

Autopilot Software Version 05
Autopilot Dip Switches

SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
OFF	ON	OFF	OFF	ON	OFF	OFF	OFF

Information contained in this Installation Bulletin will be incorporated into the next revision of the AIU Installation Manual.

Robert DuRall
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