

INSTALLATION BULLETIN 106

Revision 2
July 18, 2005

Subject: This revision to IB-106 describes the wiring changes for proper integration of the Flight Director Command Bar presentation to the Chelton EFIS and AIU from the Sperry SPZ-200/500 Flight Director Computer. Scaling Factors for the AIU Flight Director Horizontal and Vertical detectors are increased as shown in the table.

Correct AIU configuration is as follows:

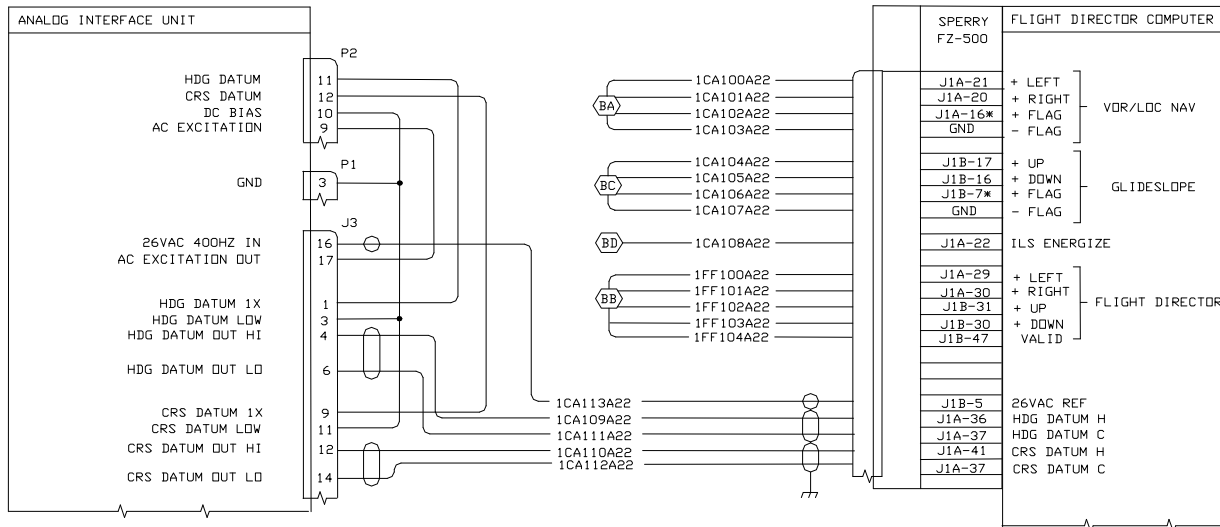
DIP Switch #1	UP
DIP Switch #2	DOWN
DIP Switch #3	UP
DIP Switch #4	UP
DIP Switch #5	DOWN
DIP Switch #6	UP
DIP Switch #7	UP
DIP Switch #8	DOWN
DIP Switch #9	UP
Slide Switch SW1	RIGHT
Autopilot Heading Scaling Factor	2600
Autopilot Heading Polarity	Positive: LEFT
Autopilot Course Scaling Factor	2600
Autopilot Course Polarity	Positive: RIGHT
Autopilot Scaling Mode	LINEAR
Horizontal Flight Director Scaling Factor	30mV/°
Horizontal Flight Director Polarity	Positive: LEFT
Vertical Flight Director Scaling Factor	30mV/°
Vertical Flight Director Polarity	Positive: UP
Flight Director Valid Flag	Active: HIGH
Tap Transformer	1X

200mV/Deg AC, 400Hz Heading Datum

200mV/Deg AC, 400Hz Course Datum

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 Honeywell-Sperry SPZ-200/500 interface wiring should be as follows:



*NOTE: FLAG INPUTS TO AUTOPILOT MUST BE ROUTED THROUGH A BENDIX/KING KDA-688 SUPER FLAG CONVERTER OR EQUIVALENT.

NOTE: The Sperry Flight Director Computer (FZ-500) must be strapped for a 5-inch indicator drive. If the Flight Director Computer strapped for a 4-inch indicator drive, perform the following steps.

- (1) Remove the wire from FZ-500, J1A, Pin 61 and insert into J1A, Pin 60 for the Roll Command bar. This will make a jumper between J1A, Pin 62 and J1A, Pin 60.
- (2) Remove the wire from FZ-500, J1B, Pin 12 and insert into J1B, Pin 11 for the Pitch Command bar. This will make a jumper between J1B, Pin 13 and J1B, Pin 11.
- (3) Adjust the Horizontal and Vertical Flight Director Scaling in the AIU Maintenance program as described in Chapter 5 of the AIU Installation Manual (Doc. 570-7000).

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

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