

## INSTALLATION BULLETIN 121

1 August, 2005

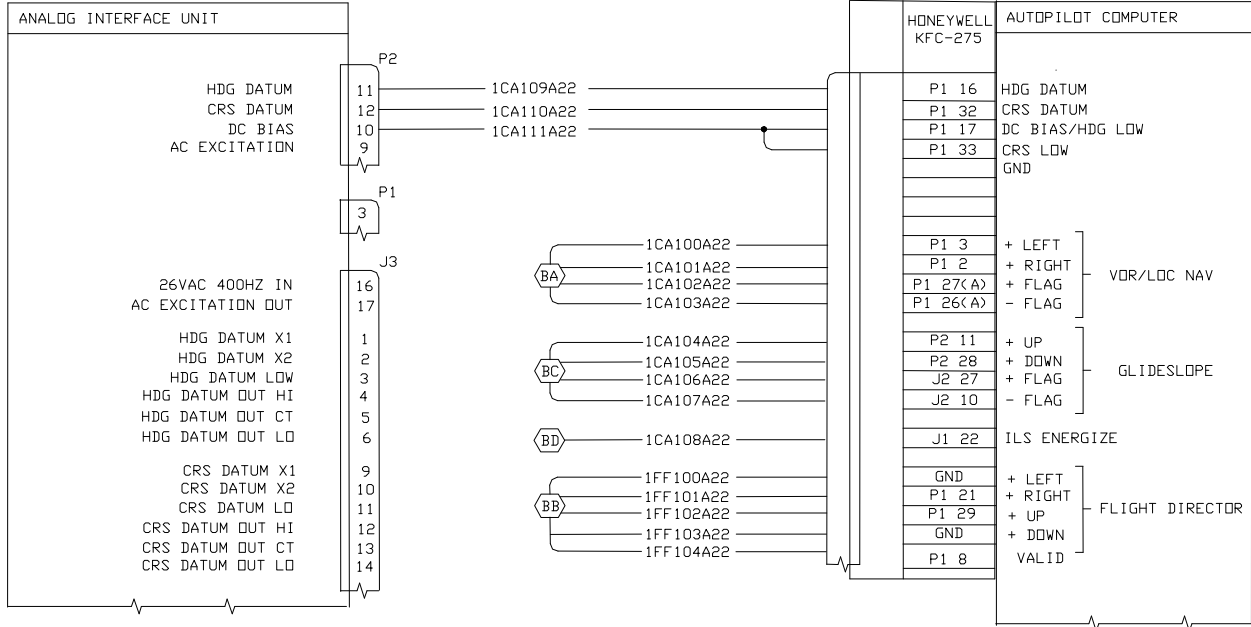
Subject: This Installation Bulletin describes programming and interface between the Analog Interface Unit (AIU-1) and a Bendix/King KFC-275 autopilot operating DC datum.

AIU configuration is as follows:

DIP Switch #1	DOWN
DIP Switch #2	UP
DIP Switch #3	UP
DIP Switch #4	DOWN
DIP Switch #5	DOWN
DIP Switch #6	UP
DIP Switch #7	UP
DIP Switch #8	DOWN
DIP Switch #9	UP
Slide Switch SW1	LEFT
Autopilot Heading Scaling Factor	3250
Autopilot Heading Polarity	Positive: RIGHT
Autopilot Course Scaling Factor	1650
Autopilot Course Polarity	Positive: RIGHT
Autopilot Scaling Mode	LINEAR
Horizontal Flight Director Scaling Factor	25mV
Horizontal Flight Director Polarity	+ RIGHT
Vertical Flight Director Scaling Factor	200mV
Vertical Flight Director Polarity	+ DOWN
Flight Director Valid Flag	HIGH
Tap Transformer	N/C

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.

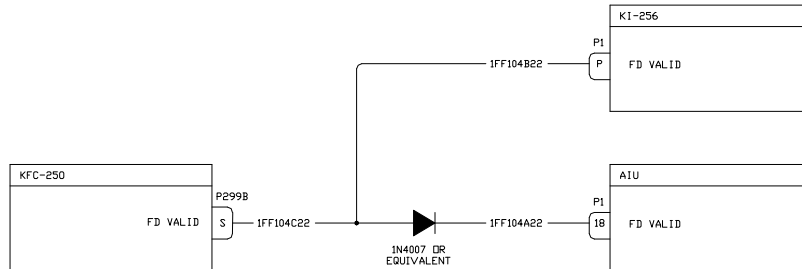
The AIU to Bendix/King KFC-275 interface wiring should be as follows:



**NOTES:**

(A) Connect to KMC-321 coupler.

Connecting the Bendix/King KI-256 ADI in parallel with the AIU will cause the V-Bars on the KI-256 to be in view when power is applied to the AIU. If this option is used, install a blocking diode (1N4007 or equivalent) in series with the FD VALID input on the AIU P1, Pin 18 as shown below.



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

Robert DuRall  
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