



Opencockpits



Manual ADF B737 Panel IDC.

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Introduction:

B737 ADF panel with IDC connection. Mounted in sandwich format (8mm height) professionally painted and engraved.

This panel is designed to connect it directly with an I/O card like the Master or PCB Pedestal.

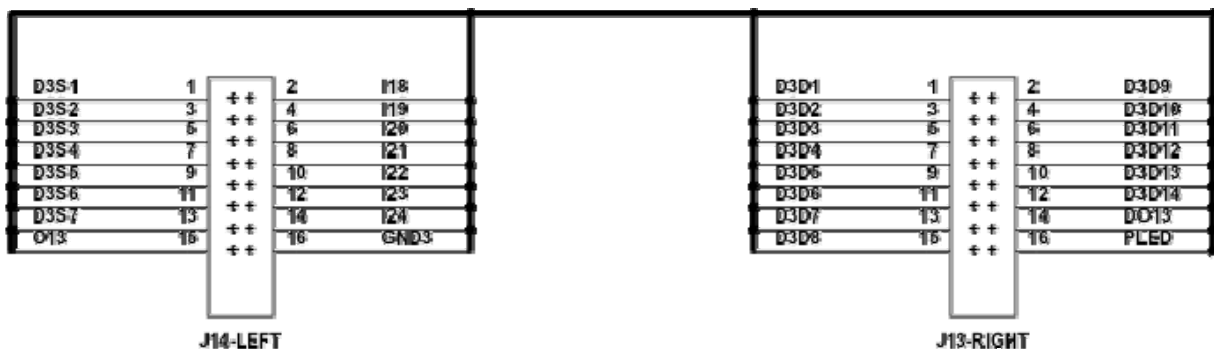
The panel has operative the following components:

- ADF/ANT, TONE ON/OFF y TFR buttons.
- High precision double encoder.
- 7-Segment digits displays.
- Mode indicators ADF/ANT.

Wiring ADF:

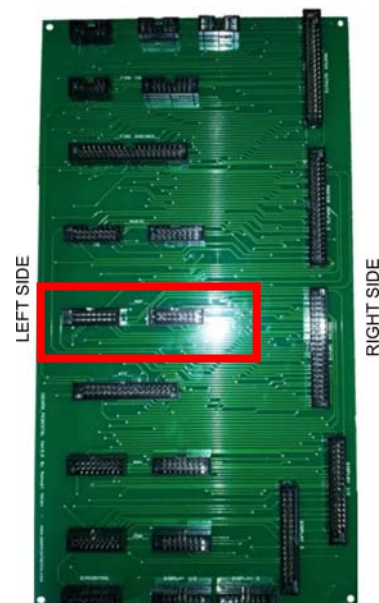
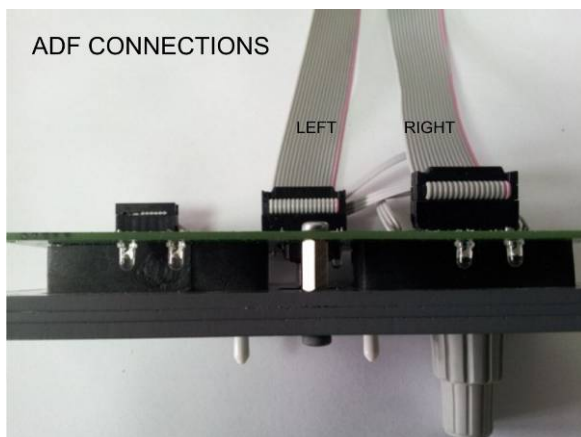
ADF B737 IDC connectors can be plugged to any I/O card and to Pedestal PCB using 16 contacts IDC connectors:

ADF



The names of the connectors on the PCB panel and the pedestal are the following:

PANEL IDC	PCB PEDESTAL
J3	J14
J2	J13



Description of connectors ADF captain:

Captain's ADF is connected to PCB Pedestal 1 (Master n°1).

J14 CONNECTOR LEFT	J13 CONNECTOR RIGHT
Inputs 18-19 = Encoder decimals. Input 20-21 = Encoder integers. Input 22 = Button ADF/ANT. Input 23 = TFR button (swap). Input 24 = Button TONE. Output 13 = Decimal dot. D3S1 = output 32, Digit 1 frequency active. D3S2 = output 33, Digit 2 frequency active. D3S3 = output 34, Digit 3 frequency active. D3S4 = output 35, Digit 4 frequency active. D3S5 = output 36, Digit 5 frequency active. D3S6 = output 37, Digit 1 frequency standby. D3S7 = output 38, Digit 2 frequency standby. GND3 = COMMON or GND for inputs.	D3D1 = output 39, Digit 3 frequency standby. D3D2 = output 40, Digit 4 frequency standby. D3D3 = output 41, Digit 5 frequency standby. D3D11 = output 42, indicator ADF freq. active. D3D12 = output 43, indicator ANT freq. active. D3D13 = output 44, indicator ANT freq. standby. D3D14 = output 45, indicator ADF freq. standby. D3D11...D14 are On when take value 0 and are off when take value 1. D3D4...D10 = No actives. DO13 = Negative for backlight. PLED = Positive for backlight. It takes 2.5 volts to 2.9 volts. ¡ActiveWarning: may burn more voltage backlight!

Description of connectors ADF first officer:

First officer ADF is connected to PCB Pedestal 2 (Master n°2).

J14 CONNECTOR LEFT	J13 CONNECTOR RIGHT
Inputs 90-91 = Encoder decimals. Input 92-93 = Encoder integers. Input 94 = Button ADF/ANT. Input 95 = TFR button (swap). Input 96 = Button TONE. Output 77 = Decimal dot. D3S1 = output 96, Digit 1 frequency active. D3S2 = output 97, Digit 2 frequency active. D3S3 = output 98, Digit 3 frequency active. D3S4 = output 99, Digit 4 frequency active. D3S5 = output 100, Digit 5 frequency active. D3S6 = output 101, Digit 1 frequency standby. D3S7 = output 102, Digit 2 frequency standby. GND3 = COMMON or GND.	D3D1 = output 103, Digit 3 frequency standby. D3D2 = output 104, Digit 4 frequency standby. D3D3 = output 105, Digit 5 frequency standby. D3D11 = output 106, indicator ADF freq. active. D3D12 = output 107, indicator ANT freq. active. D3D13 = output 108, indicator ANT freq. standby. D3D14 = output 109, indicator ADF freq. standby. D3D11...D14 are on when take value 0 and off when take value 1. D3D4...D10 = No actives. DO13 = Negative for backlight. PLED = Positive for backlight. It takes 2.5 volts to 2.9 volts. ¡ActiveWarning: may burn more voltage backlight!

The USBDimcontrol card is recommended. It is also recommended to use 3 volt power for the backlight.

Declaration of inputs and outputs panel ADF IDC:

To declare variables of inputs and outputs must use the following format (the list belongs to the pedestal's definition file of Opencockpits pedestal).

```
// DIGITS ADF
```

Var 116, name ADF1ACT, Link IOCARD_DISPLAY, DEVICE X, Digit 32, Numbers 5
 Var 118, name ADF1STBY, Link IOCARD_DISPLAY, DEVICE X, Digit 37, Numbers 5
 Var 120, name ANT1ACT, Link IOCARD_DISPLAY, DEVICE X, Digit 43, Numbers 1
 Var 122, name ANT1STBY, Link IOCARD_DISPLAY, DEVICE X, Digit 44, Numbers 1
 Var 124, name ADF1A, Link IOCARD_DISPLAY, DEVICE X, Digit 42, Numbers 1
 Var 126, name ADF1S, Link IOCARD_DISPLAY, DEVICE X, Digit 45, Numbers 1
 Var 128, name ADF2ACT, Link IOCARD_DISPLAY, DEVICE X, Digit 96, Numbers 5
 Var 130, name ADF2STBY, Link IOCARD_DISPLAY, DEVICE X, Digit 101, Numbers 5
 Var 132, name ANT2ACT, Link IOCARD_DISPLAY, DEVICE X, Digit 107, Numbers 1
 Var 134, name ANT2STBY, Link IOCARD_DISPLAY, DEVICE X, Digit 108, Numbers 1
 Var 136, name ADF2A, Link IOCARD_DISPLAY, DEVICE X, Digit 106, Numbers 1
 Var 138, name ADF2S, Link IOCARD_DISPLAY, DEVICE X, Digit 109, Numbers 1

// OUTPUTS ADF

Var 208, name ADF1DOT, Link IOCARD_OUT, DEVICE X, Output 13 // ADF 1 DECIMAL DOT
 Var 210, name ADF2DOT, Link IOCARD_OUT, DEVICE X, Output 77 // ADF 2 DECIMAL DOT

// ROTARY ENCODERS ADF

Var 366, name E_ADF1DEC, Link IOCARD_ENCODER, DEVICE X, Input 18, Aceleration 1, Type 2 // ADF 1 ENCODER DECIMAL
 Var 368, name E_ADF1ENT, Link IOCARD_ENCODER, DEVICE X, Input 20, Aceleration 1, Type 2 // ADF 1 ENCODER ENTEROS/INTEGER
 Var 370, name E_ADF2DEC, Link IOCARD_ENCODER, DEVICE X, Input 90, Aceleration 1, Type 2 // ADF 1 ENCODER DECIMAL
 Var 372, name E_ADF2ENT, Link IOCARD_ENCODER, DEVICE X, Input 92, Aceleration 1, Type 2 // ADF 1 ENCODER ENTEROS/INTEGER

// SWITCHES ADF

Var 416, name S_ADF1SWP, Link IOCARD_SW, DEVICE X, Input 23
 Var 418, name S_ADF2SWP, Link IOCARD_SW, DEVICE X, Input 95
 Var 420, name S_ADF1ANT, Link IOCARD_SW, DEVICE X, Input 22
 Var 422, name S_ADF2ANT, Link IOCARD_SW, DEVICE X, Input 94
 Var 424, name S_ADF1TONE, Link IOCARD_SW, DEVICE X, Input 24
 Var 426, name S_ADF2TONE, Link IOCARD_SW, DEVICE X, Input 96

With this we end this manual, we invite you to read the manuals for the other elements of Opencockpits and SIOC software and we thank you for trusting us.

Links of interest:

Customer Support Zone:

<http://www.opencockpits.com/catalog/info/>