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Opencockpits

Manual COMM B737 Panel IDC.

Index:

Introduction:

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

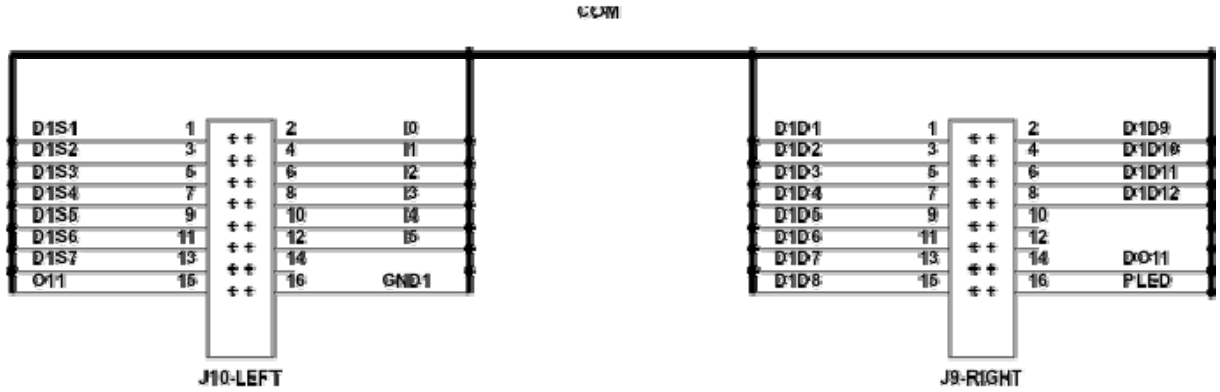
This panel is designed to connect it directly with an I/O card like the Master or PCB Pedestal.

The panel has operative the following components:

- TEST & TFR buttons.
- High precission double encoder.
- 7-Segment digits displays.

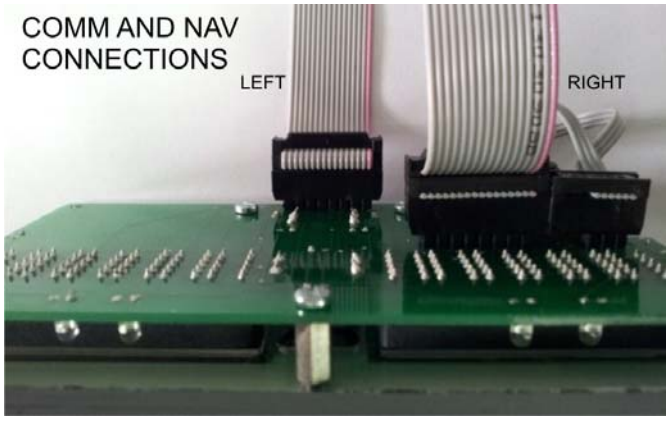
Wiring panel COMM:

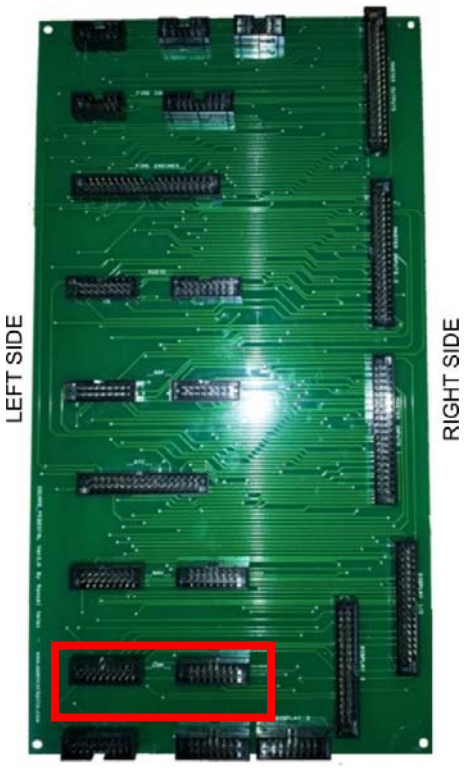
COMM B737 IDC connectors can be plugged to any I/O card and to Pedestal PCB using 16 contacts IDC connectors:



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

PANEL IDC	PCB PEDESTAL
J3	J10
J2	J9





Description of connectors COMM captain:

Captain's side COMM is plugged to PCB Pedestal 1 (Master 1).

J10 CONNECTOR LEFT	J9 CONNECTOR RIGHT
Inputs 0-1 = Encoder decimals. Input 2-3 = Encoder integers. Input 4 = Test button. Input 5 = TFR button (swap). Output 11 = Decimal dot. D1S1 = output 0, Digit 1 frequency active. D1S2 = output 1, Digit 2 frequency active. D1S3 = output 2, Digit 3 frequency active. D1S4 = output 3, Digit 4 frequency active. D1S5 = output 4, Digit 5 frequency active. D1S6 = output 5, Digit 6 frequency active. D1S7 = output 6, Digit 1 frequency standby. GND1 = COMMON or GND.	D1D1 = output 7, Digit 2 frequency standby. D1D2 = output 8, Digit 3 frequency standby. D1D3 = output 9, Digit 4 frequency standby. D1D4 = output 10, Digit 5 frequency standby. D1D5 = output 11, Digit 6 frequency standby. D1D6 = No active. D1D7 = No active. D1D8 = No active. D1D9 = No active. D1D10 = No active. D1D11 = No active. D1D12 = No active. DO11 = Negative backlight. PLED = Positive backlight. Are needed 2.5 volts to 2.9 volts. ¡ActiveWarning: may burn more voltage backlight!

Description of connectors COMM first officer:

First officer COMM is connected to PCB Pedestal 2 (Master nº2).

J10 CONNECTOR LEFT	J9 CONNECTOR RIGHT
Inputs 72-73 = Encoder decimals. Input 74-75 = Encoder integers. Input 76 = Test button. Input 77 = TFR button (swap). Output 75 = decimal dot. D1S1 = output 64, Digit 1 frequency active. D1S2 = output 65, Digit 2 frequency active. D1S3 = output 66, Digit 3 frequency active. D1S4 = output 67, Digit 4 frequency active. D1S5 = output 68, Digit 5 frequency active. D1S6 = output 69, Digit 6 frequency active. D1S7 = output 70, Digit 1 frequency standby. GND1 = COMMON or GND.	D1D1 = output 71, Digit 2 frequency standby. D1D2 = output 72, Digit 3 frequency standby. D1D3 = output 73, Digit 4 frequency standby. D1D4 = output 74, Digit 5 frequency standby. D1D5 = output 75, Digit 6 frequency standby. D1D6 = No active. D1D7 = No active. D1D8 = No active. D1D9 = No active. D1D10 = No active. D1D11 = No active. D1D12 = No active. DO11 = 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 COMM 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 COMM
Var 100, name CM1ACT, Link IOCARD_DISPLAY, DEVICE X, Digit 0, Numbers 6
Var 102, name CM1STBY, Link IOCARD_DISPLAY, DEVICE X, Digit 6, Numbers 6
Var 104, name CM2ACT, Link IOCARD_DISPLAY, DEVICE X, Digit 64, Numbers 6
Var 106, name CM2STBY, Link IOCARD_DISPLAY, DEVICE X, Digit 70, Numbers 6

// OUTPUTS COMM
Var 200, name COM1DOT, Link IOCARD_OUT, DEVICE X, Output 11 // COMM 1 DECIMAL
Var 202, name COM2DOT, Link IOCARD_OUT, DEVICE X, Output 75 // COMM 2 DECIMAL

// ROTARY ENCODERS COMM
Var 350, name E_CM1DEC, Link IOCARD_ENCODER, DEVICE X, Input 0, Aceleration 1, Type 2 // COMM 1 ENCODER DECIMAL
Var 352, name E_CM1ENT, Link IOCARD_ENCODER, DEVICE X, Input 2, Aceleration 1, Type 2 // COMM 1 ENCODER ENTEROS/INTEGER
Var 354, name E_CM2DEC, Link IOCARD_ENCODER, DEVICE X, Input 72, Aceleration 1, Type 2 // COMM 2 ENCODER DECIMAL
Var 356, name E_CM2ENT, Link IOCARD_ENCODER, DEVICE X, Input 74, Aceleration 1, Type 2 // COMM 2 ENCODER ENTEROS/INTEGER

// SWITCHES COMM
Var 400, name S_CM1TST, Link IOCARD_SW, DEVICE X, Input 4
Var 402, name S_CM2TST, Link IOCARD_SW, DEVICE X, Input 76
Var 404, name S_CM1SWP, Link IOCARD_SW, DEVICE X, Input 5
Var 406, name S_CM2SWP, Link IOCARD_SW, DEVICE X, Input 77

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/