



Opencockpits



B737 IDC Audio Panel Manual.

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Introduction:

B737 Audio Panel with integrated backlight technology BKI panel. Made from a 6mm thick piece, with painted finish and professional engraving.

This panel is designed for direct connection to an input / output card and the Pedestal PCB or Master card. The panel also supports the Audio module B737 P&P to have a complete set, is connected as a slave to P&P module with 16-pin IDC cables.

The panel has the following operating elements:

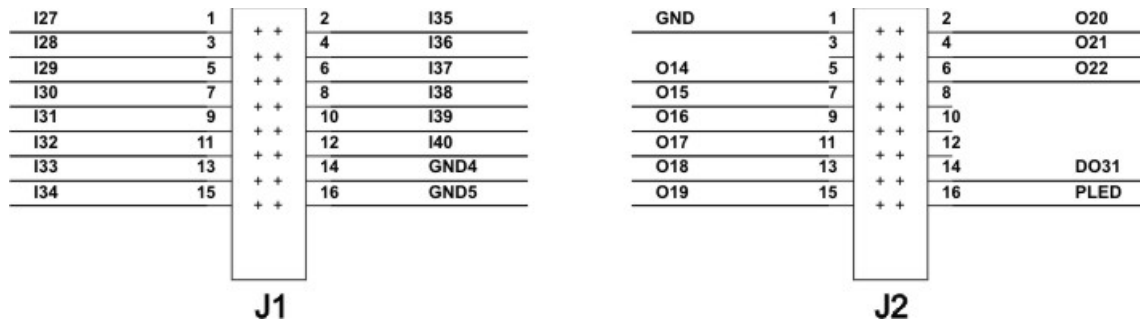
- VHF micro buttons 1 and 2 with their advertisers.
- VHF volume buttons 1 and 2, NAV 1 and 2, ADF 1 and 2 and Marker buttons with their respective illuminations. The volume function is not operational.
- Switches R/T - IC and ALT-NORM and rotary switch for filter selection.

BKI Technology:

The BKI technology is similar to the original used in the original Boeing panels, it is embedded within the backlight panels, increasing the quality of the backlight and a significant drop in energy consumption and to avoid light pollution around the panels.

Wiring plan:

Audio B737 IDC panel can be connected to any inputs and outputs card, the module Audio B737 P&P and Pedestal Card.



Description of connectors:

| <u>J1 CONNECTOR</u> | <u>J2 CONNECTOR</u> |
|------------------------------------------|---------------------------------------------------------------------------|
| Input 27 = AUDIO1 VHF1 MIC SWITCH | GND = Negative for outputs. |
| Input 28 = AUDIO1 VHF2 MIC SWITCH | (Feeding with +5 volts). |
| Input 29 = AUDIO1 VHF1 VOL SWITCH | Output 14 = AUDIO1 VHF1 MIC LED |
| Input 30 = AUDIO1 VHF2 VOL SWITCH | Output 15 = AUDIO1 VHF2 MIC LED |
| Input 31 = AUDIO1 NAV1 VOL SWITCH | Output 16 = AUDIO1 VHF1 VOL LED |
| Input 32 = AUDIO1 NAV2 VOL SWITCH | Output 17 = AUDIO1 VHF2 VOL LED |
| Input 33 = AUDIO1 ADF1 VOL SWITCH | Output 18 = AUDIO1 NAV1 VOL LED |
| Input 34 = AUDIO1 ADF2 VOL SWITCH | Output 19 = AUDIO1 NAV2 VOL LED |
| Input 35 = AUDIO1 MARKER VOL SWITCH | Output 20 = AUDIO1 ADF1 VOL LED |
| Input 36 = AUDIO1 FILTER R ROTARY SWITCH | Output 21 = AUDIO1 ADF2 VOL LED |
| Input 37 = AUDIO1 FILTER V ROTARY SWITCH | Output 22 = AUDIO1 MARKER VOL LED |
| Input 38 = AUDIO1 R-T SWITCH | DO31 = Negative for backlight. |
| Input 39 = AUDIO1 I-C SWITCH | PLED = Positive for backlight. Power feeding from 2.5 volts to 2.9 volts. |
| | USB Dimcontrol card is recommended. |

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <p>Input 40 = AUDIO1 ALT-NORM SWITCH GND4 = COMMON for inputs: 27, 28, 29, 30, 31, 32, 33, 34 and 35. GND5 = COMMON for inputs: 36, 37, 38, 39 and 40. (For Cards without common inputs, you should join GND4 and GND5)</p> | <p>Attention: more voltage may damage the backlight!</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|

Connections to other modules or pedestal card:

| PANEL | MODULE AUDIO P&P | PEDESTAL CARD |
|---------------|------------------|---------------|
| Connector J1: | J5 connector | J15 connector |
| Connector J2: | J6 connector | J16 connector |

Declaration of inputs and outputs:

To declare variables of inputs and outputs the following format must be used (the list belongs to the definition of Pedestal Opencockpits based on the pedestal card).

Outputs Audio Captain:

Var 212, name AU1VH1MI, Link IOCARD_OUT, DEVICE X, Output 14 // AUDIO1 VHF1 MIC LED
Var 214, name AU1VH2MI, Link IOCARD_OUT, DEVICE X, Output 15 // AUDIO1 VHF2 MIC LED
Var 216, name AU1VH1VO, Link IOCARD_OUT, DEVICE X, Output 16 // AUDIO1 VHF1 VOL LED
Var 218, name AU1VH2VO, Link IOCARD_OUT, DEVICE X, Output 17 // AUDIO1 VHF2 VOL LED
Var 220, name AU1NA1VO, Link IOCARD_OUT, DEVICE X, Output 18 // AUDIO1 NAV1 VOL LED
Var 222, name AU1NA2VO, Link IOCARD_OUT, DEVICE X, Output 19 // AUDIO1 NAV2 VOL LED
Var 224, name AU1AD1VO, Link IOCARD_OUT, DEVICE X, Output 20 // AUDIO1 ADF1 VOL LED
Var 226, name AU1AD2VO, Link IOCARD_OUT, DEVICE X, Output 21 // AUDIO1 ADF2 VOL LED
Var 228, name AU1MKRVO, Link IOCARD_OUT, DEVICE X, Output 22 // AUDIO1 MARKER VOL LED

Outputs Audio F/O:

Var 230, name AU2VH1MI, Link IOCARD_OUT, DEVICE X, Output 78 // AUDIO2 VHF1 MIC LED
Var 232, name AU2VH2MI, Link IOCARD_OUT, DEVICE X, Output 79 // AUDIO2 VHF2 MIC LED
Var 234, name AU2VH1VO, Link IOCARD_OUT, DEVICE X, Output 80 // AUDIO2 VHF1 VOL LED
Var 236, name AU2VH2VO, Link IOCARD_OUT, DEVICE X, Output 81 // AUDIO2 VHF2 VOL LED
Var 238, name AU2NA1VO, Link IOCARD_OUT, DEVICE X, Output 82 // AUDIO2 NAV1 VOL LED
Var 240, name AU2NA2VO, Link IOCARD_OUT, DEVICE X, Output 83 // AUDIO2 NAV2 VOL LED
Var 242, name AU2AD1VO, Link IOCARD_OUT, DEVICE X, Output 84 // AUDIO2 ADF1 VOL LED
Var 244, name AU2AD2VO, Link IOCARD_OUT, DEVICE X, Output 85 // AUDIO2 ADF2 VOL LED
Var 246, name AU2MKRVO, Link IOCARD_OUT, DEVICE X, Output 86 // AUDIO2 MARKER VOL LED

Inputs Audio Captain:

Var 444, name S_AU1VH1MI, Link IOCARD_SW, DEVICE X, Input 27 // AUDIO1 VHF1 MIC SWITCH
Var 446, name S_AU1VH2MI, Link IOCARD_SW, DEVICE X, Input 28 // AUDIO1 VHF2 MIC SWITCH
Var 448, name S_AU1VH1VO, Link IOCARD_SW, DEVICE X, Input 29 // AUDIO1 VHF1 VOL SWITCH
Var 450, name S_AU1VH2VO, Link IOCARD_SW, DEVICE X, Input 30 // AUDIO1 VHF2 VOL SWITCH
Var 452, name S_AU1NA1VO, Link IOCARD_SW, DEVICE X, Input 31 // AUDIO1 NAV1 VOL SWITCH
Var 454, name S_AU1NA2VO, Link IOCARD_SW, DEVICE X, Input 32 // AUDIO1 NAV2 VOL SWITCH
Var 456, name S_AU1AD1VO, Link IOCARD_SW, DEVICE X, Input 33 // AUDIO1 ADF1 VOL SWITCH
Var 458, name S_AU1AD2VO, Link IOCARD_SW, DEVICE X, Input 34 // AUDIO1 ADF2 VOL SWITCH
Var 460, name S_AU1MKRVO, Link IOCARD_SW, DEVICE X, Input 35 // AUDIO1 MARKER VOL SWITCH
Var 462, name S_AU1RT, Link IOCARD_SW, DEVICE X, Input 38 // AUDIO1 R-T SWITCH
Var 464, name S_AU1IC, Link IOCARD_SW, DEVICE X, Input 39 // AUDIO1 I-C SWITCH

Var 466, name R_AU1FILTV, Link IOCARD_SW, DEVICE X, Input 37 // AUDIO1 FILTER V ROTARY SWITCH

Var 468, name R_AU1FILTR, Link IOCARD_SW, DEVICE X, Input 36 // AUDIO1 FILTER R ROTARY SWITCH

Var 470, name S_AU1ALT, Link IOCARD_SW, DEVICE X, Input 40 // AUDIO1 ALT-NORM SWITCH

Inputs Audio F/O:

Var 472, name S_AU2VH1MI, Link IOCARD_SW, DEVICE X, Input 99 // AUDIO2 VHF1 MIC SWITCH

Var 474, name S_AU2VH2MI, Link IOCARD_SW, DEVICE X, Input 100 // AUDIO2 VHF2 MIC SWITCH

Var 476, name S_AU2VH1VO, Link IOCARD_SW, DEVICE X, Input 101 // AUDIO2 VHF1 VOL SWITCH

Var 478, name S_AU2VH2VO, Link IOCARD_SW, DEVICE X, Input 102 // AUDIO2 VHF2 VOL SWITCH

Var 480, name S_AU2NA1VO, Link IOCARD_SW, DEVICE X, Input 103 // AUDIO2 NAV1 VOL SWITCH

Var 482, name S_AU2NA2VO, Link IOCARD_SW, DEVICE X, Input 104 // AUDIO2 NAV2 VOL SWITCH

Var 484, name S_AU2AD1VO, Link IOCARD_SW, DEVICE X, Input 105 // AUDIO2 ADF1 VOL SWITCH

Var 486, name S_AU2AD2VO, Link IOCARD_SW, DEVICE X, Input 106 // AUDIO2 ADF2 VOL SWITCH

Var 488, name S_AU2MKRVO, Link IOCARD_SW, DEVICE X, Input 107 // AUDIO2 MARKER VOL SWITCH

Var 490, name S_AU2RT, Link IOCARD_SW, DEVICE X, Input 110 // AUDIO2 R-T SWITCH

Var 492, name S_AU2IC, Link IOCARD_SW, DEVICE X, Input 111 // AUDIO2 I-C SWITCH

Var 494, name R_AU2FILTV, Link IOCARD_SW, DEVICE X, Input 109 // AUDIO2 FILTER V ROTARY SWITCH

Var 496, name R_AU2FILTR, Link IOCARD_SW, DEVICE X, Input 108 // AUDIO2 FILTER R ROTARY SWITCH

Var 498, name S_AU2ALT, Link IOCARD_SW, DEVICE XX, Input 112 // AUDIO2 ALT-NORM SWITCH

With this purpose we end this manual and you are kindly invited to read the other Opencockpits items and the SIOC software manuals. Thank you for trusting us.

Links of interest:

Support zone for customers:

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