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Opencockpits

Manual Rudder Trim B737 Panel IDC.

Index:

Introduction:

New Rudder Trim Panel with the same functionality as the real one including backlight inside the panel itself.

The panel includes all the elements and through its 10-pin IDC rear connector, it can be connected to any Input / Output card (Master Card, Outputs Card, ...), as well as it can be connected to the Pedestal Card. Opencockpits.

The indicator is displayed on an LCD screen with yellow lighting color and green background color, which provides a completely accurate measurement of the value of the Rudder Trim.

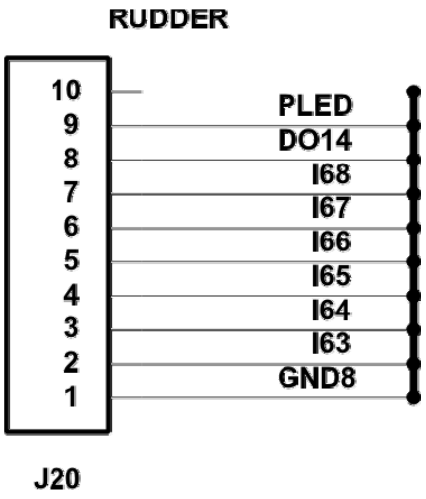
The backlight of the panel is warm white.

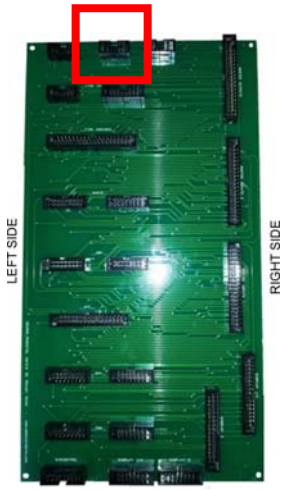
It has a button with momentary action just like the real one.

- The panel is compatible with the previous version, so it can be replaced to update the panel. You only need to include the button in the software instead of the previous system that was rotary encoder.

Wiring Rudder Trim:

Rudder Trim B737 IDC connector can be plugged to any I/O card and to Pedestal PCB using 10 contacts IDC connector:





Description of connectors Rudder Trim:

Rudder Trim panel is connected to PCB Pedestal 1 (Master nº1) when a Stab Trim panel is present on pcb pedestal 2 because they are incompatible in the same card (they have common inputs).

J19 CONNECTOR LEFT		
I/O	PIN	FUNCTION
GND8	1	Negative comon for Inputs
I63	2	AILERON LEFT WING UP
I64	3	AILERON RIGHT WING UP
I65	4	AILERON LEFT WING DOWN
I66	5	AILERON RIGHT WING DOWN
I67	6	NOSE LEFT
I68	7	NOSE RIGHT
DO14	8	Negative for backlight.

PLED	9	Positive for backlight. It takes 2.5 volts to 2.9 volts. ¡ActiveWarning: may burn more voltage backlight!
	10	NC

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

Declaration of inputs and outputs:

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

// RUDDER TRIM
Var 378, name RUDDER_NL, Link IOCARD_SW, DEVICE XX, Input 67 // RUDDER TRIM NOSE LEFT
Var 379, name RUDDER_NR, Link IOCARD_SW, DEVICE XX, Input 67 // RUDDER TRIM NOSE LEFT

//RUDDER TRIM
Var 564, name S_RDAILUL, Link IOCARD_SW, DEVICE XX, Input 63 // RUDDER TRIM AILERON UP LEFT SWITCH
Var 566, name S_RDAILUR, Link IOCARD_SW, DEVICE XX, Input 64 // RUDDER TRIM AILERON UP RIGHT SWITCH
Var 568, name S_RDAILDL, Link IOCARD_SW, DEVICE XX, Input 65 // RUDDER TRIM AILERON DOWN LEFT SWITCH
Var 570, name S_RDAILDR, Link IOCARD_SW, DEVICE XX, Input 66 // RUDDER TRIM AILERON DOWN RIGHT SWITCH

// SERVO
Var 582, name SERVO_RUDDER, Link USB_SERVOS, Device YY, Output 1, PosL 150, PosC 512, PosR 1023, Type 1

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/