



## FSC 737NG Main Instrument Panel assembly and cabling guide

this guide is for sku: 817918, 817919, 817922,817923

version 1.2 June , 07 2018 --- ME145214

Please read carefully this document before starting.

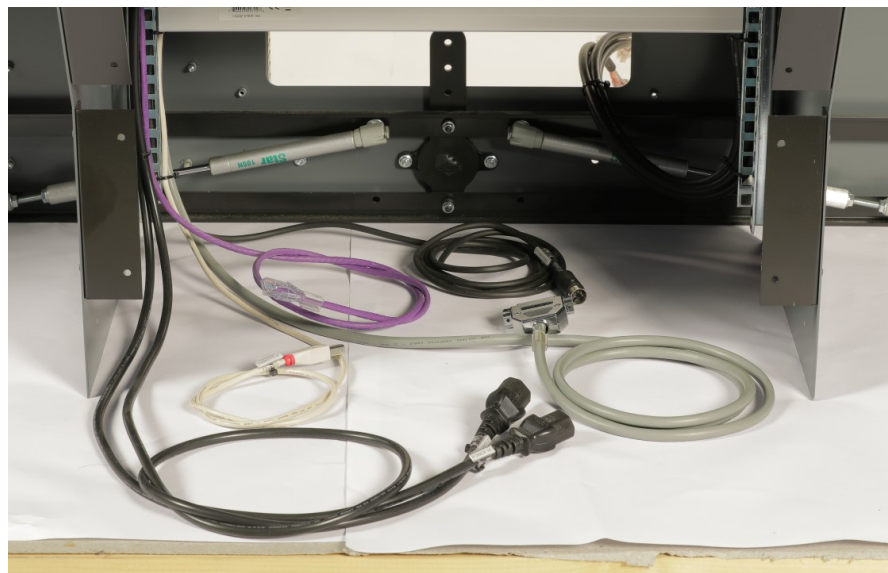


## The MIP has many connections:

### FRONT CONNECTIONS:

Below MIP there's a square hole, inside there are these connections:

1. CPflight Pedestal DIN 5 pins Plug
2. Standard European Plug 220V for Pedestal Power supply unit
3. European VDE plug 220V for TQ Unit
4. LAN cable male Rj45 for TQ unit lan interface
5. USB type D male plug for TQ USB Interface
6. HD 44 pins Male connector for FSC Yoke (axis and buttons) (see schematics)





## REAR CONNECTIONS:

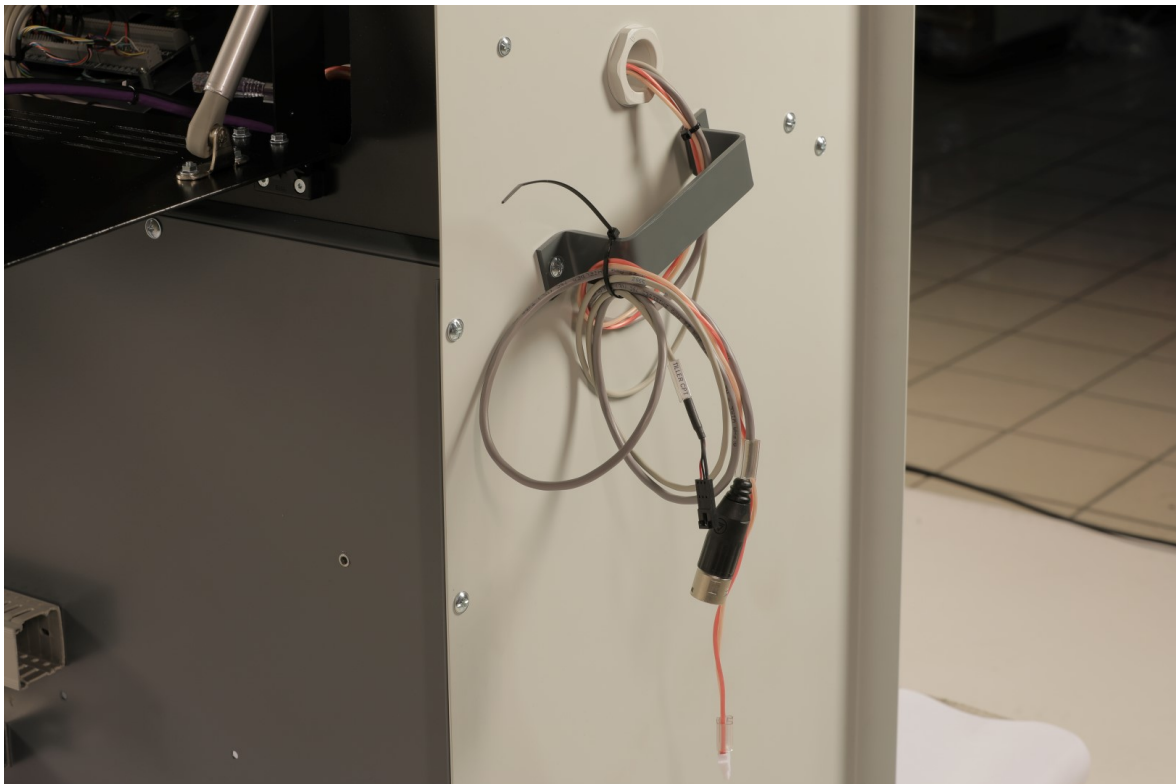
**in the rear Panel, there is an inspection window with all external connections:**

- 1. Power ON leds:** indicate the function of the 2 Main Power supply units.
- 2. Instruments USB Input:** PC connection for input of instruments, Gauges, annunciators, switches ecc.
- 3. Controls USB Input:** PC connection with Joystick interface, Roll, Pitch, Tillers, Brakes, Rudders and all Yoke switches, can be connected on a separate PC.
- 4. Radio:** Intercom XLR connection for Clearcom and similar aeronautical devices (not included), see schematics.
- 5. LAN:** is the network connection with simulator local area interface (used for TQ, CDU's , MCP and other devices)
- 6. SPARE:** is the spare LAN connection , and can be connected on the same LAN switch or to a separate device.
- 7. SPK's:** 4 Powercom stereo inputs for Audio speakers (not included) tha can be located inside the cockpit, see schematics.
- 8. 4 VGA inputs:** For 4 screen connection: CPT PFD/ND , F/O PFD/ND, LOWER EICAS, UPPER EICAS.



**SIDE PANELS CONNECTIONS:  
in the Left side Panel, there is an hole with external  
connections:**

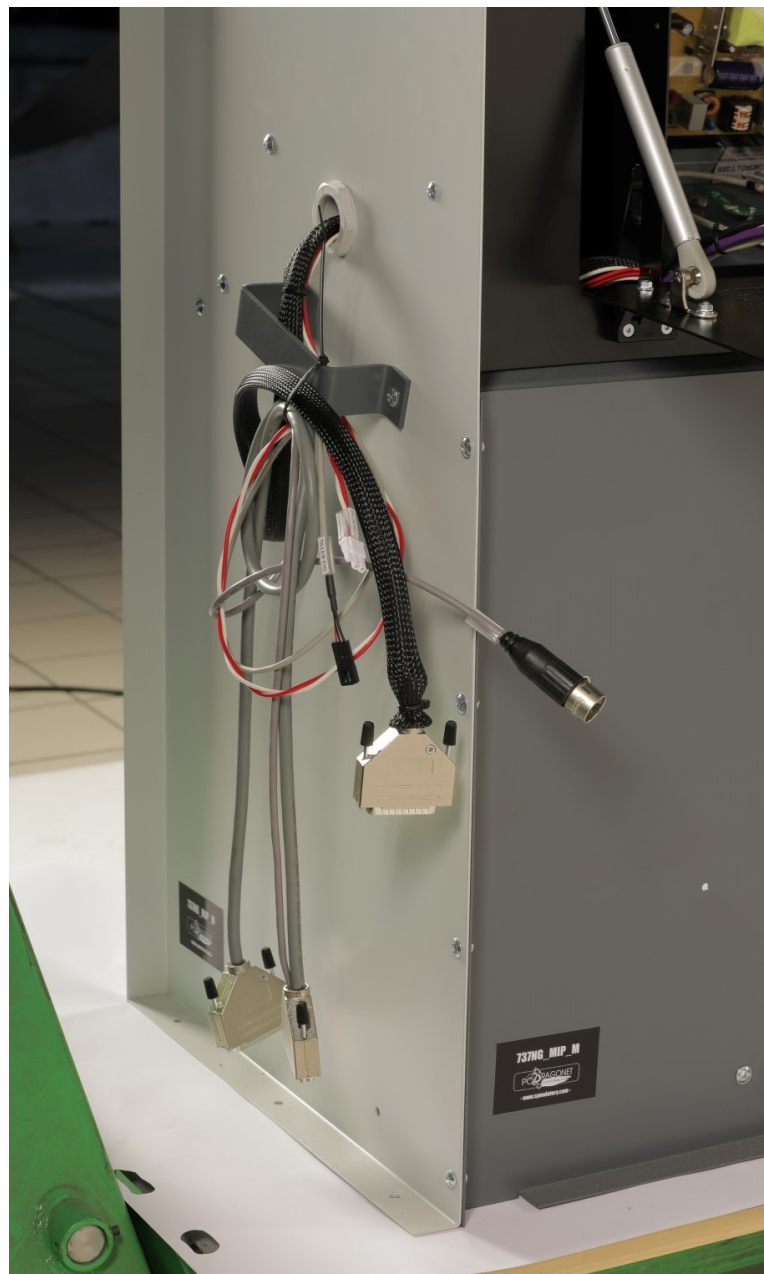
- 1. CPT Tiller wiring**
- 2. left Speaker**
- 3. CPT Interphone Jack**





**SIDE PANELS CONNECTIONS:  
in the Right side Panel, there is an hole with  
external connections:**

- 1. F/O Tiller wiring**
- 2. Right Speaker**
- 3. Interphone Main Connector (see schematics)**
- 4. F/O Interphone Jack**



## Hardware Configuration

### Hardware COM port discover:

If the MIP is not supplied together with an our simulation PC, You must discover the communication ports manually.

Download the latest FTDI drivers:

<https://www.ftdichip.com/FTDrivers.htm>

and install them.

To discover the right COM port of each device, is better disconnect all USB ports before start , then reconnect only the usb cable for the device You want configure, one by one.

To do so, open the left backpanel on the rear of the MIP.

Locate the USB HUB, then disconnect the 4 cables labeled:

Throttle , Overhead , MCP , Gauges , MIP.

Press "windows" key on the PC connected to the MIP and digit: "devmgmt.msc" then click on the program icon to open the device Manager, click on "Ports(COM & LPT)"

Reconnect the USB cable of the device You want configure, and check if there is a new COM port, take note and create a list of the new COM port assigned, like the typical FSC configuration:

FSC Throttle COM3 (and / or COM13 via LAN interface)

CpFlight MIP COM4

FSC MIP COM5

Gauges (GSA55) COM6

CpFlight Overhead COM8







## **Flight Illusion Gauges Configuration:**

**Download the Configuration program from this page:**

**<https://www.flightillusion.com/support/>**

**Then start "Simulator Control program" and click on "configure" button.**

**In the configuration page, set the COM port assigned, and "Search/ Check Connected Units"**

**The list of connected units can be for Project Magenta or Prosim, unfortunately they are different for some instruments, so if You want to switch from a system to another, You must reprogram the "id" number of some gauges.**

**To do so, click on a gauge item on the left window and change the id assigned on the right.**



## **Flight Illusion Prosim 737 Standby Instruments id**

- **Brake Pressure 160**
- **Standby Speed with Barberpole 100**
- **Standby Altimeter 101**
- **Standby Speed 102**
- **Standby Attitude 103**
- **Clock Captain 104**
- **Clock First Officer 204**
- **Wet Compass 105**
- **Flaps Indicator 106**
- **Yaw Damper 107**

## **Flight Illusion Project Magenta Standby Instruments id**

- **Brake Pressure 108**
- **Standby Speed with Barberpole 102**
- **Standby Altimeter 104**
- **Standby Speed 102**
- **Standby Attitude 103**
- **Clock Captain 101**
- **Clock First Officer 109**
- **Wet Compass 105**
- **Flaps Indicator 107**
- **Yaw Damper 106**

**No need to save any template or specific configuration, the program "Simulator Control" is only used to change the ids.**





## **Flight Illusion Prosim 737 Standby Instruments setup**

**Open prosim 737 configuration page.**

**go to "Drivers" Tab**

**In "Flight Illusion support" field, fill the COM port assigned**

**Go to "Combined config" Tab**

**Go to "MIP", "Gauge", Insert in the filed the correct values eg:**

**"Flaps", and "Flap right" for Flap indicator 106, check the needle moving and calibrate the position of each detent.**

**repeat with all other Gauges.**

## **Flight Illusion Project Magenta Standby Instruments setup**

**Open "PmFiComm" folder**

**Edit pmficomm.ini file with a text editor (for example Notepad)**

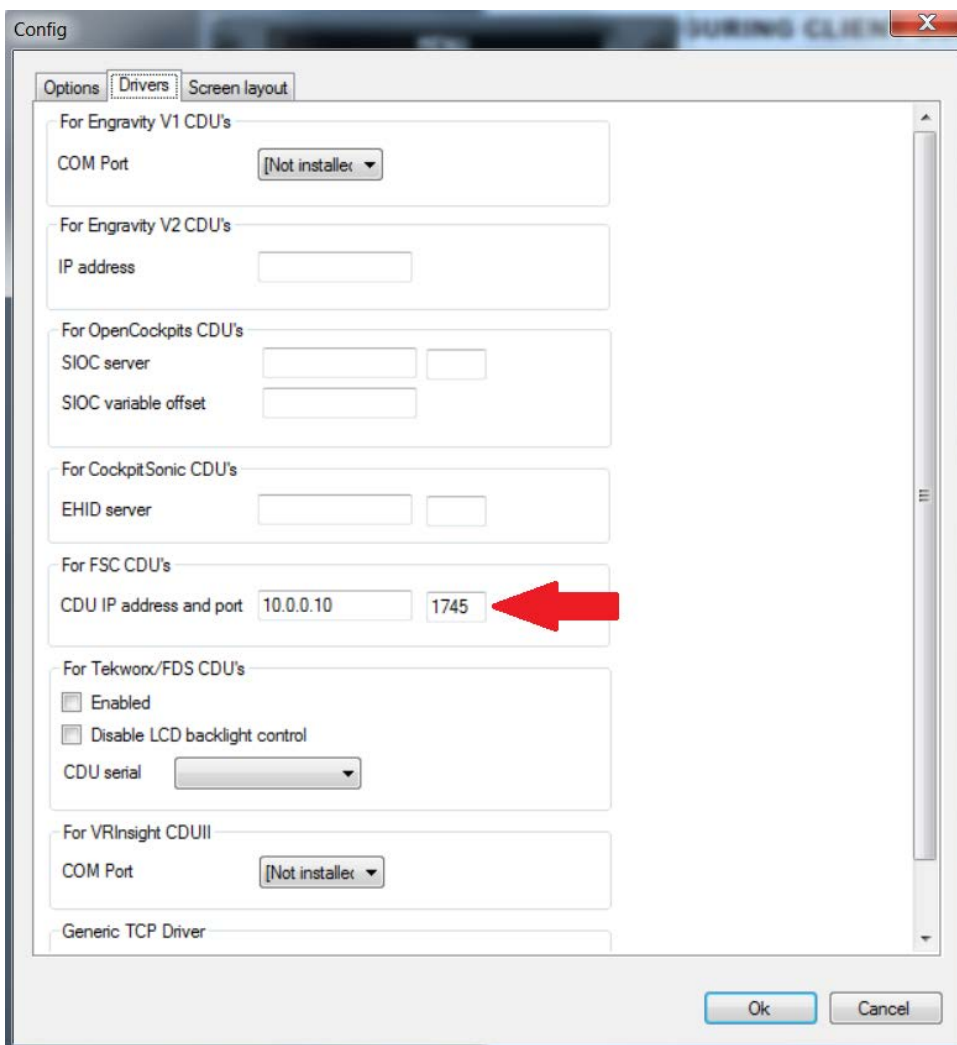
**Set "FiComm= xx" where "xx" is the COM port assigned Save the file.**

## Configuring FSC CDU's with Prosim 737

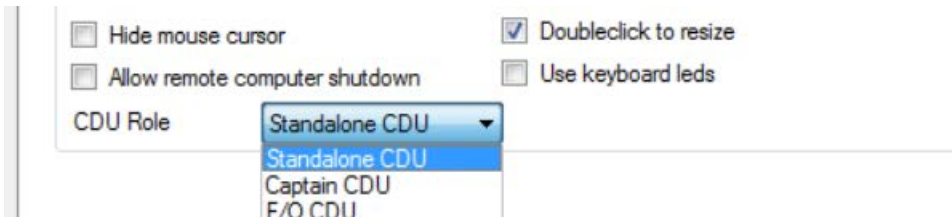
In this guide, you can find below a sample configuration for Prosim:

If You are using 2 CDU's together (CP&F/O) You must have 2 folder with Prosim CDU: for example "ProsimCDU\_CP" and "Prosim CDU\_FO", because the configuration are different for each side.

Assuming You are running Prosim already connected and configured, start ProsimCDU.exe , right mouse click and "Config", and go to "Drivers" tab:



Insert the CDU ip and port (the port should be 1745) in the field "For FSC CDU's"



Return to "Option" tab, and change the "CDU Role" for Your needs.



## Configuring FSC CDU's with Project magenta

In this guide, you can find below a sample configuration for Project Magenta:

Close **cdu.exe** and wait few seconds, or make sure is closed.

Open cdu.ini with a text editor (for example Windows Notepad). This file is usually located in the same folder where Project Magenta was installed, in "CDU" subfolder.

In the [Hardware] section, specify the FMC IP address as indicated below:

```

cdu.ini - Blocco note
File Modifica Formato Visualizza ?
[Flight]
LimitMCPSpeed=Off
AutoFlapRetract=Off
AutoFlapExtract=Off
                                     / MCP Speed limits set by MCDU, flap
                                     / retraction auto or manual

[User]
Printer=
PrinterMargin= 0
PrinterWidth= 80
PrinterFont=courier new
PrinterFontBold=Off
PrinterFontSize= 10
                                     / Printer name to target print outputs,
                                     / has to be set
                                     / Current printer is:
                                     / Epson AL-C1100

LastBuild= 505
                                     / Last version of the software run
                                     / on this PC

DeleteCFPFiles=Off
                                     / Automatically deletes binary CDU
                                     / Flight Plan Files (.CFP files)
                                     / when flight plans flushed and program
                                     / exits.

[Hardware]
FSC1=10.0.0.20
FSC2=
EngravityComm= 0
                                     / Serial communication to Engravity
                                     / CDU hardware

SFSCComm=Off
                                     / Simflight Studio Communication
                                     / handling

EHIDComm=Off
EHIDPort=
                                     / UDP communication to FMC hardware.
                                     / do not set it to on if you do not
                                     / have any such hardware connected
                                     / This is for EHID Support

ElanComm= 0
                                     / Serial communication to CDU hardware
                                     / Logs flight path calculation.

Font=pmbcdu
FontNoSerif=Off
FontBold=Off
FontFactor= 1
                                     / Font display parameters

UseOtherFont=
                                     / Override Default Font (unsupported,
                                     / use at your own discretion)

Text=white
    
```

if you are using only one FMC unit, just fill out only the FSC1 line, leaving FSC2 empty as indicated above. If you are using two FMC units, just fill both FSC1 and FSC2 lines with pertinent IP address as already discussed. Save cdu.ini and start Project Magenta cdu.exe

## Configuring FSC MIP with Prosim 737

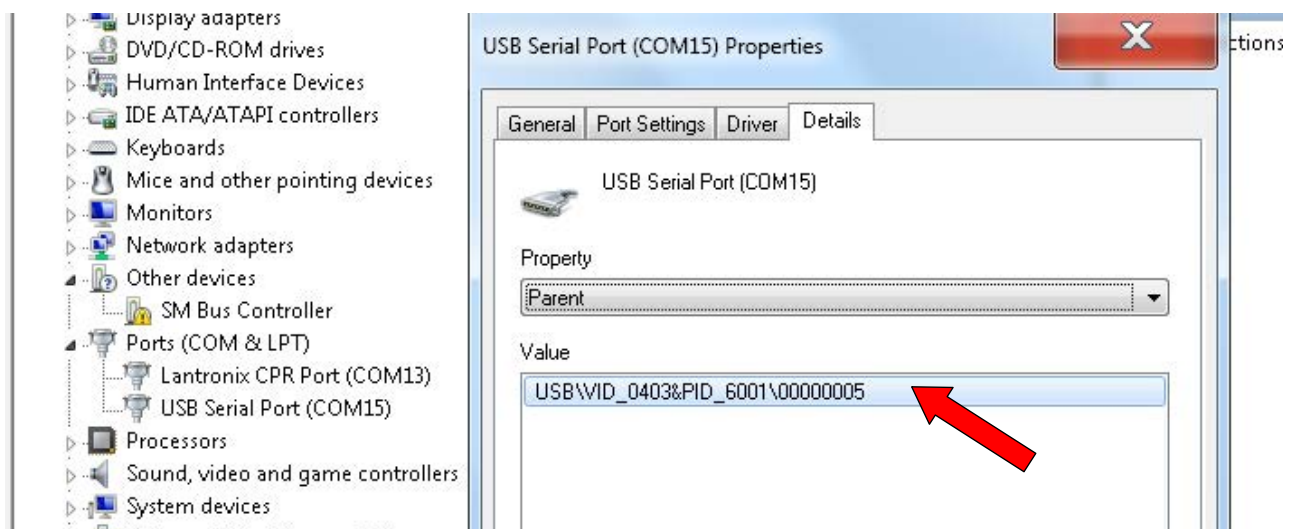
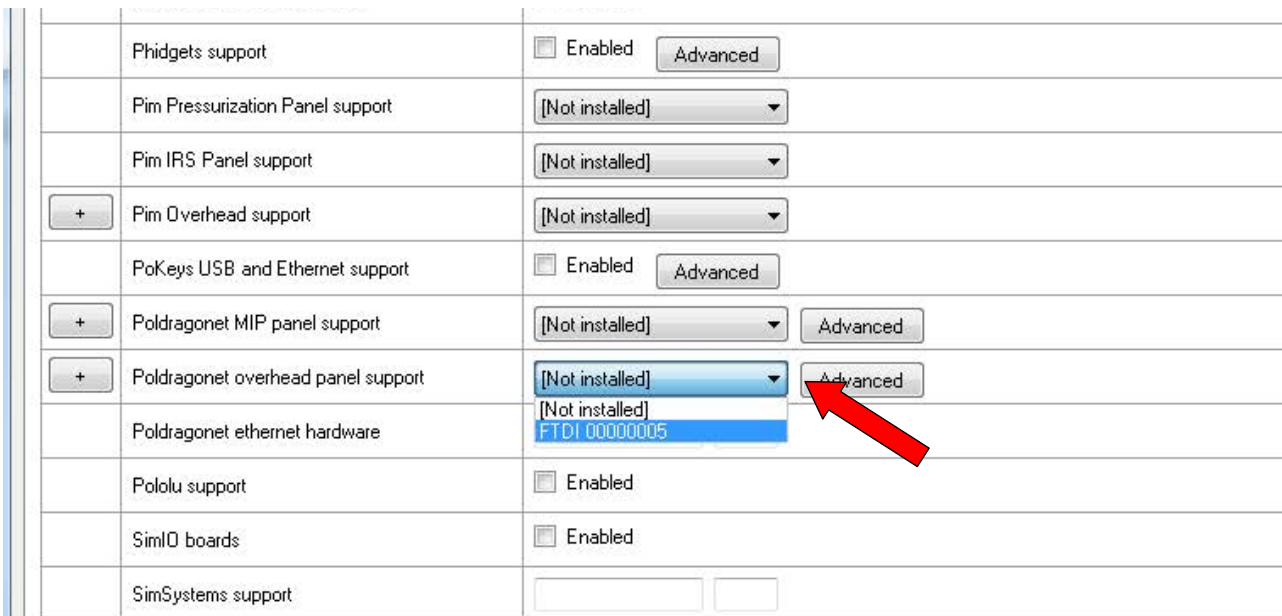
In this guide, you can find below a sample configuration for Prosim:

Open prosim 737 configuration page.

go to "Drivers" Tab

In "Poldragonet MIP panel support" field , fill the HID FTDI id.

If You have many id's and don't know which is the right one, You can find it in the COM port Properties in Device Manager, the id is named "FTDI" plus the code in the "Parent" section: for example "FTDI 00000005"



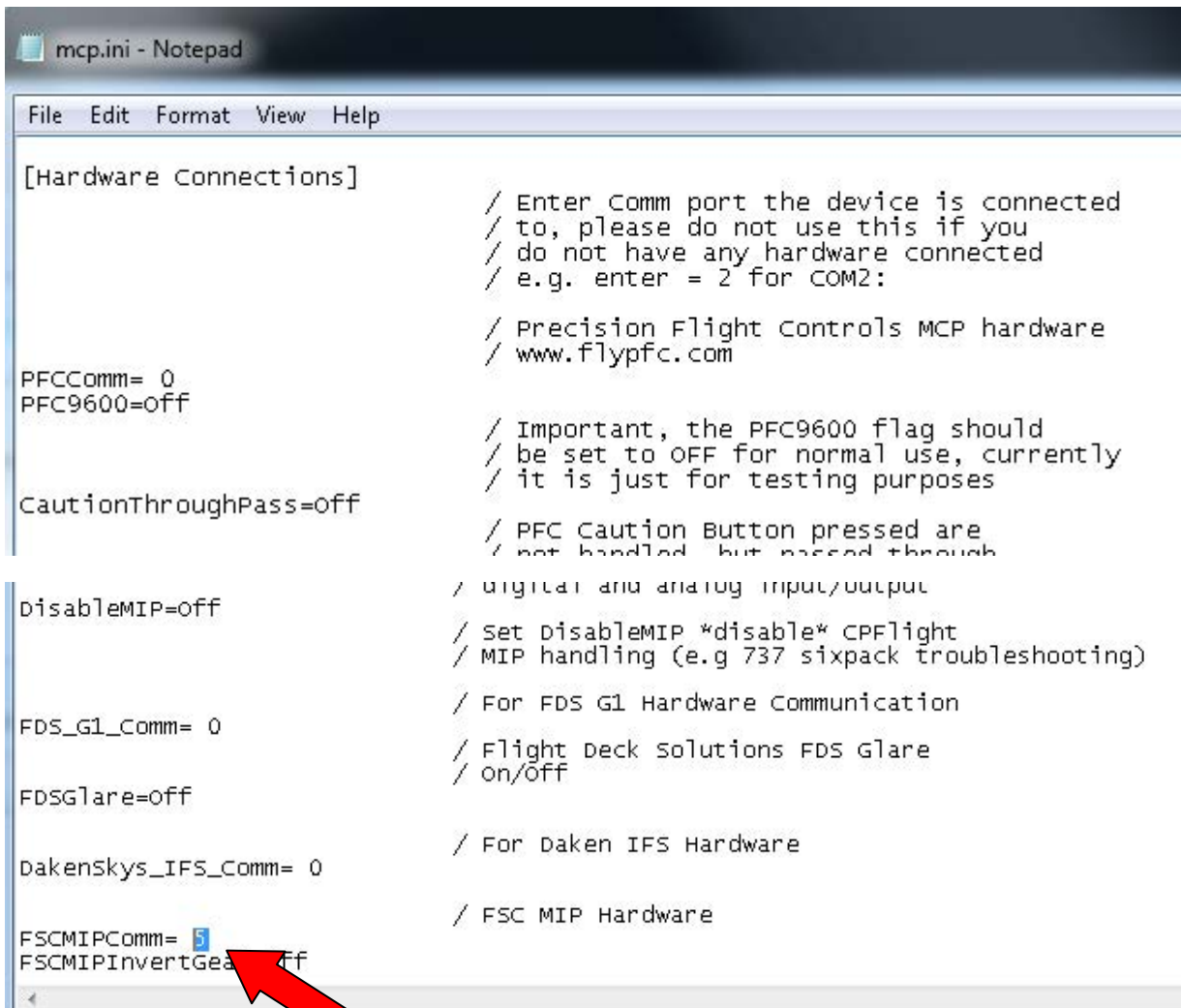
## Configuring FSC MIP with Project magenta

In this guide, you can find below a sample configuration for Project Magenta:

Close **mcp.exe** and wait few seconds, or make sure is closed.

Open mcp.ini with a text editor (for example Windows Notepad). This file is usually located in the same folder where Project Magenta was installed, in "MCP" subfolder.

In the [Hardware connections] section, specify the FSCMIPComm address as indicated below:



```
mcp.ini - Notepad
File Edit Format View Help

[Hardware Connections]
                                / Enter Comm port the device is connected
                                / to, please do not use this if you
                                / do not have any hardware connected
                                / e.g. enter = 2 for COM2:

                                / Precision Flight Controls MCP hardware
                                / www.flypfc.com

PFCComm= 0
PFC9600=off

                                / Important, the PFC9600 flag should
                                / be set to OFF for normal use, currently
                                / it is just for testing purposes

CautionThroughPass=off

                                / PFC Caution Button pressed are
                                / not handled but passed through

                                / digital and analog input/output

DisableMIP=off

                                / set DisableMIP *disable* CPFlight
                                / MIP handling (e.g 737 sixpack troubleshooting)

FDS_G1_Comm= 0

                                / For FDS G1 Hardware Communication

                                / Flight Deck solutions FDS Glare
                                / On/Off

FDSGlare=off

                                / For Daken IFS Hardware

Dakenskys_IFS_Comm= 0

                                / FSC MIP Hardware

FSCMIPComm= 5
FSCMIPinvertGear=off
```



## Configuring CpFlight MCP with Prosim 737

Open prosim 737 configuration page.

go to "Drivers" Tab

Check "CPFlight boards/ICS MIP through MCP", this will enable the EFIS and PEDESTAL connection directly via the MCP, according to FSC MIP connections.

Close Prosim 737 configuration Page.

CPFlight boards/ICS MIP through MCP	<input checked="" type="checkbox"/> Enabled <i>Use only when the boards are connected to the MCP</i> <span>Advanced</span>
CPFlight boards direct connection	[Not installed] <i>Use only when the boards are directly connected to the computer witho</i>
Directinput support for joysticks	<input type="checkbox"/> Enabled
EHID Server	<input type="text"/> <span>Advanced</span>
FDS hardware support	<input type="checkbox"/> Enabled <span>Advanced</span>
Flight Illusion support	COM13 <span>Advanced</span>
FSBUS support	[Not installed]

Open prosim 737 MCP configuration page.

go to "Main" Tab

Locate the "For CP Flight MCP's" field , and fill it with the MCP COM port.

Close Prosim 737 MCP configuration Page.

If the FSC MIP is equipped with the NEW CPFlight MCP PRO2 LAN, insert the correct IP address in the IP Address section as indicated below.

ProSim737 server	Server: 127.0.0.1
For CP Flight MCP's	COM port: [Not installed]
IP Address	192.168.1.40 4500
Communication delay	40
For OpenCockpits MCP's and throttle	SIOC server: <input type="text"/>
	<input type="checkbox"/> MCP/EFIS <input type="checkbox"/> Throttle
Leave the SIOC Base Offset at "0", unless you want to relocate all SIOC variables by a certain number.	

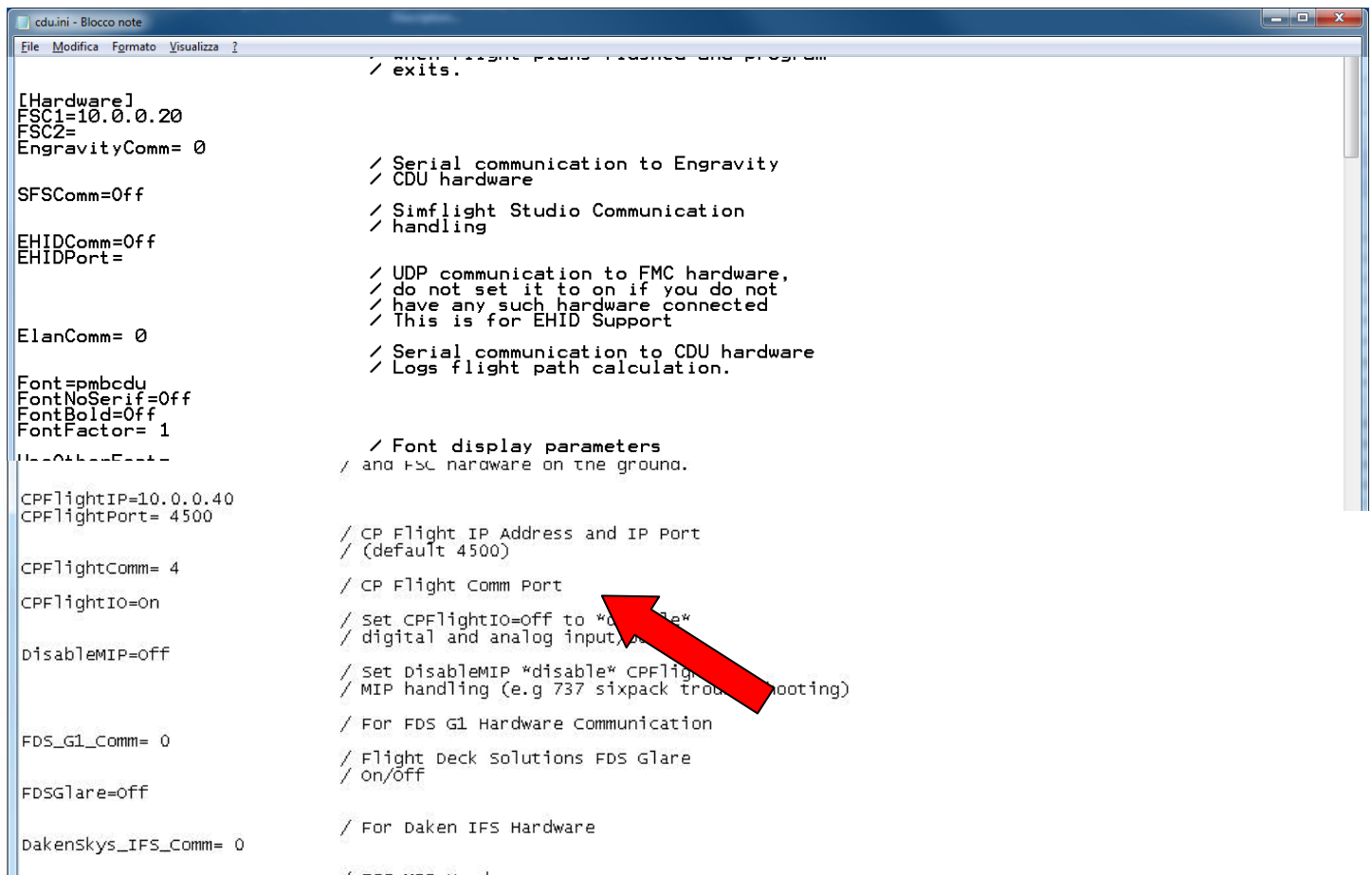
## Configuring CP flight MCP with Project magenta

In this guide, you can find below a sample configuration for Project Magenta:

Close **mcp.exe** and wait few seconds, or make sure is closed.

Open mcp.ini with a text editor (for example Windows Notepad). This file is usually located in the same folder where Project Magenta was installed, in "MCP" subfolder.

In the [Hardware] section, specify the CPflight MCP COM port as indicated below:



```

[Hardware]
FSC1=10.0.0.20
FSC2=
EngravityComm= 0
SFSCComm=Off
EHIDComm=Off
EHIDPort=
ElanComm= 0
Font=pmbcd
FontNoSerif=Off
FontBold=Off
FontFactor= 1
CPFlightIP=10.0.0.40
CPFlightPort= 4500
CPFlightComm= 4
CPFlightIO=On
DisableMIP=Off
FDS_Gl_Comm= 0
FDSGlare=Off
DakenSkys_IFS_Comm= 0
  
```

If the FSC MIP is equipped with the NEW CPflight MCP PRO2 LAN, insert the correct IP address in the CPFlightIP section as indicated above.

## INTERCONNECTIONS MIP737



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- Power Connections
  - Pg 21 – All Power System Diagram



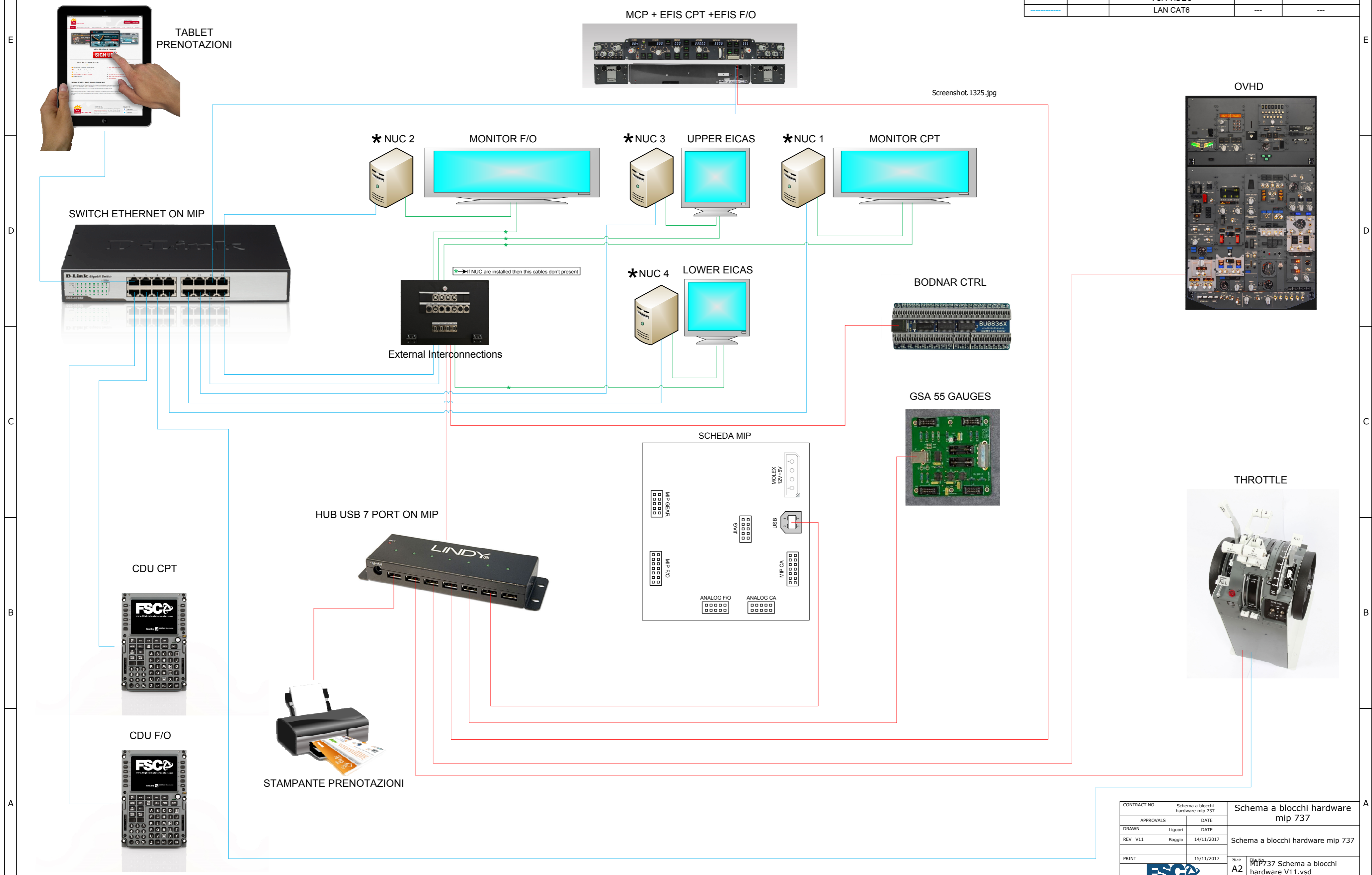
## HARDWARE CONNECTIONS

### Index:

- All System Block Diagram
- Gauges Diagram
- Control Diagram
- Efis & Pedastal Diagram
- Tie Panel (type A)
- Tie Panel (type B)

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REVISIONS				
COLOR	REV	DESCRIPTION	DATE	APPROVED
---	---	USB	---	---
---	---	VGA VIDEO	---	---
---	---	LAN CAT6	---	---



CONTRACT NO.	Schema a blocchi hardware mip 737		Schema a blocchi hardware mip 737	
APPROVALS	Liguori	DATE	14/11/2017	
DRAWN	Baggio	DATE	15/11/2017	
REV	V11	DATE	15/11/2017	
PRINT	15/11/2017		Size	A2
FSC Flight Simulator Center			File No.	MIP737 Schema a blocchi hardware V11.vsd
SCALE	----	SHEET	1	of 6



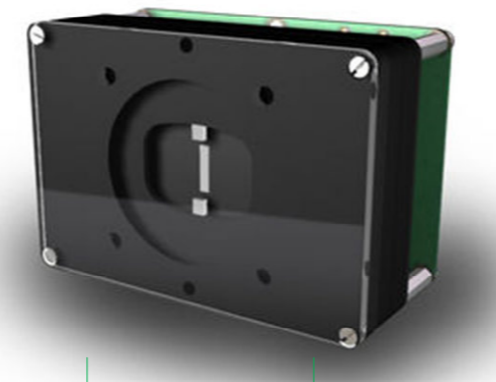
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REVISIONS				
COLOR	REV	DESCRIPTION	DATE	APPROVED
---	---	LINE 1 (CPT)	---	---
---	---	LINE 2 (F/O)	---	---
---	---	LINE 3 (CEILING)	---	---

GSA28



GSA73



GSA34



GSA14 GSA44



GSA 70 (F/O)



5 V. 12 V.



GSA 55

USB GAUGES

GSA42



GSA16




GSA 70 (CPT)



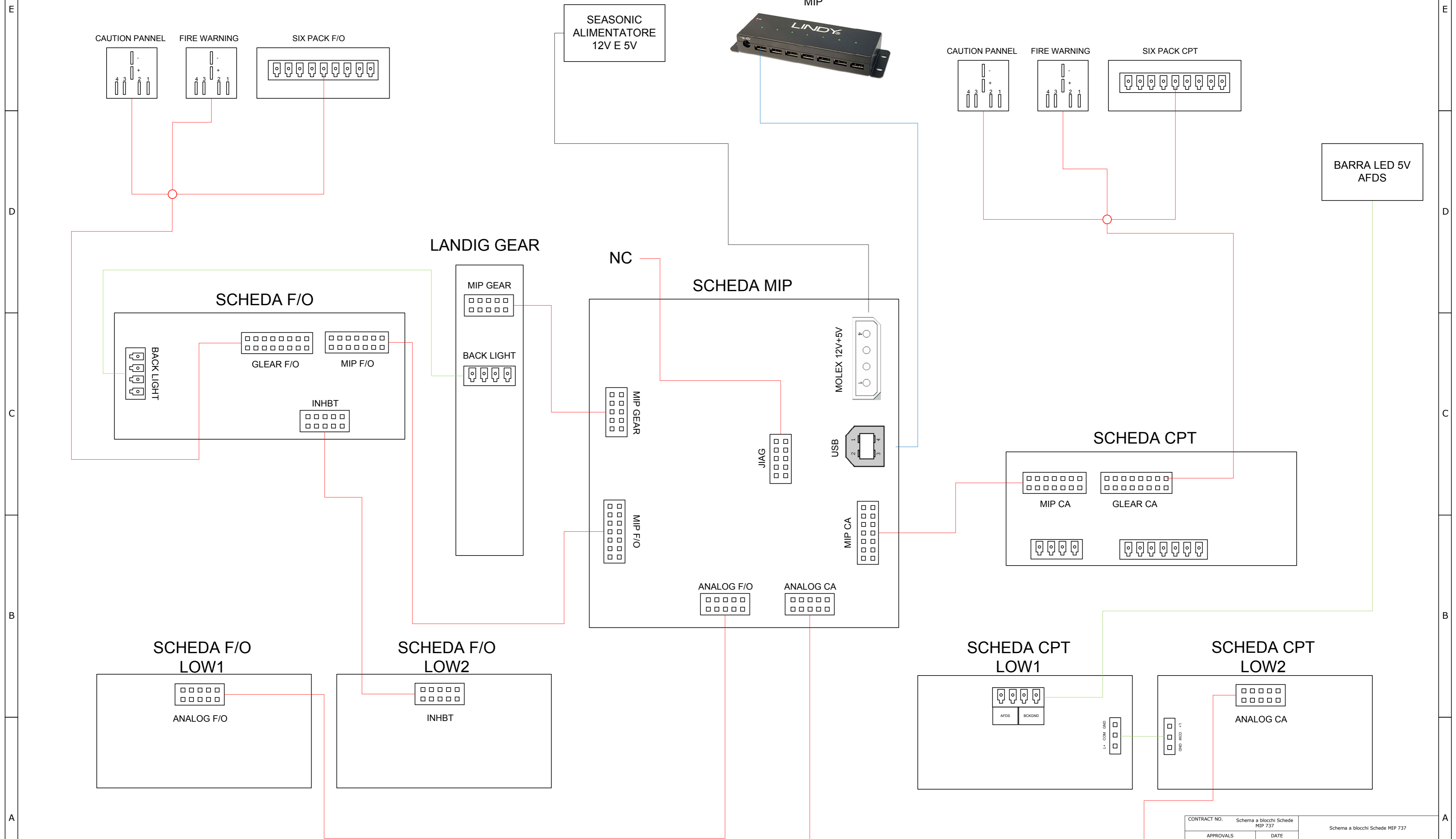
GSA13 - GSA18



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APPROVALS	DATE	
DRAWN	Liguori	DATE
REV	Liguori	DATE
PRINT	15/11/2017	Size File No. A2 schema a blocchi gauges V11.vsd
		SCALE SHEET 2 of 6

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REVISIONS				
COLOR	REV	DESCRIPTION	DATE	APPROVED
-----		POWER 12V. + 5V.	---	---
-----		USB	---	---
-----		CABLE FLAT	---	---
-----		CABLE 0.5MM	---	---



CONTRACT NO.	Schema a blocchi Schede MIP 737	Schema a blocchi Schede MIP 737
APPROVALS	DATE	
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REV	Liguori	DATE
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SCALE	----	SHEET 3 of 6



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REVISIONS				
COLOR	REV	DESCRIPTION	DATE	APPROVED
-----		Connection of din cable 5 pole	---	---
-----		Power 12 v.	---	---
-----		Usb cable	---	---

MCP737PRO/USB + EFI737PRO



737NG-PED737PRO+FIREPANEL

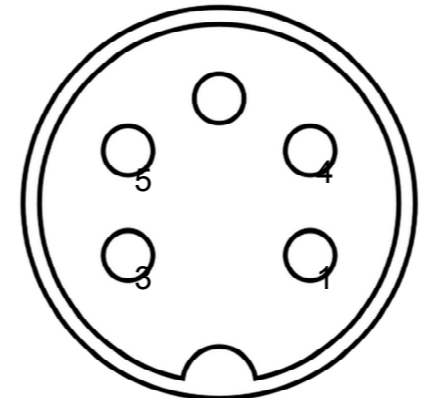


Usb 7Port Mod.42794 on MIP



Pin 1	+5v
Pin 2	RS485
Pin 3	GND
Pin 4	RS485
Pin 5	+V BACKLIGHT

Connector din 5 way



240°

5V

6V

CONTRACT NO.	Schema a blocchi mcp efis pedestal 737		Schema a blocchi mcp efis pedestal 737	
APPROVALS	Liguori	DATE		
DRAWN	Liguori	DATE		
REV	Liguori	DATE	Schema a blocchi	
PRINT	15/11/2017	Size	A2	File No. schema a blocchi mcp efis pedestal V11.vsd
		SCALE	----	SHEET 4 of 6

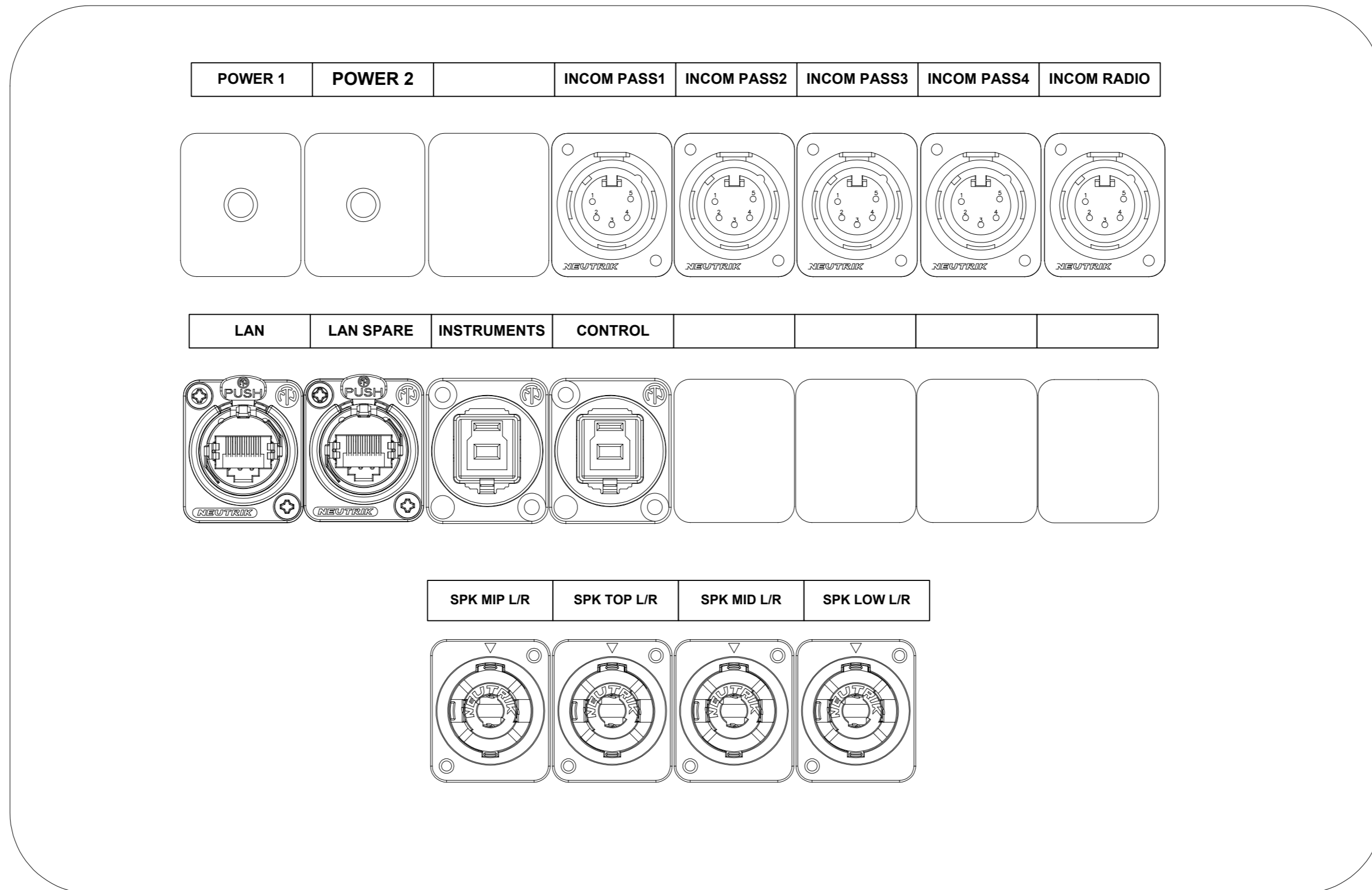




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REVISIONS				
COLOR	REV	DESCRIPTION	DATE	APPROVED

# Panel type B



CONTRACT NO.	Schema a blocchi sportello mip 737 con nuc	Schema a blocchi sportello mip 737 con nuc
APPROVALS	Liguori	DATE
DRAWN	Baggio	DATE
REV	V11	DATE
PRINT	15/11/2017	Size File No.
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SCALE	.....	SHEET 6 of 6

## BODNAR CONNECTIONS

### Index:

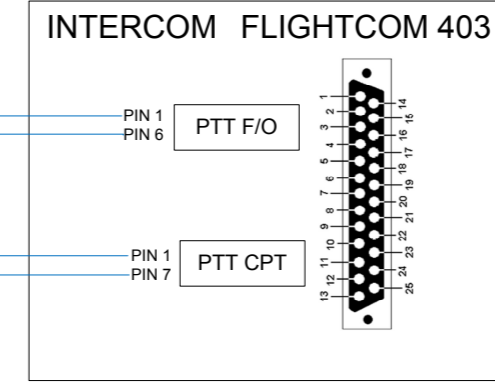
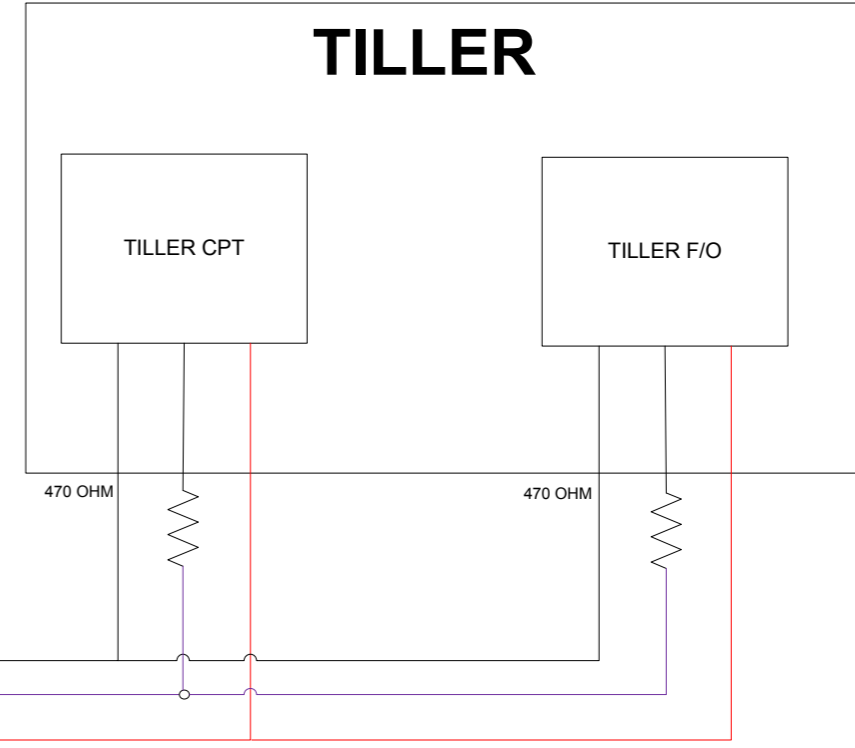
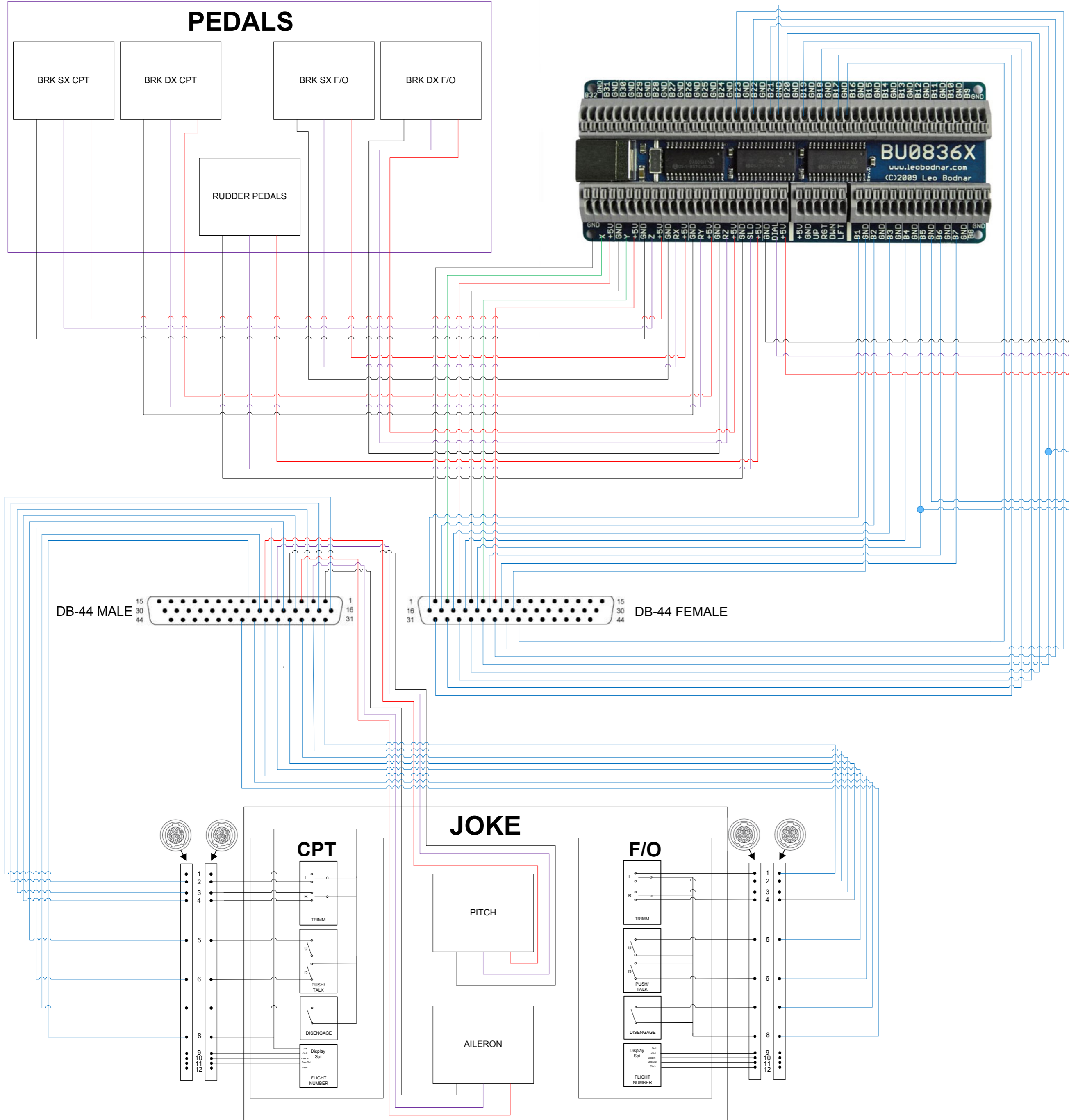
- All System Block Diagram
- Brake Diagram
- Rudder Diagram
- Yoke All Diagram
- Tiller Diagram
- Intercom PTT
- Brake parallel mode Diagram



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REVISIONS		DESCRIPTION
---	---	5 V POTENZIOMETER
---	---	SHIELD POTENZIOMETER
---	---	SIGNAL POTENZIOMETER
---	---	CABLE COLORED SEE SCHEME (CTRLS BU0836 CA2025G)
---	---	CABLE FROM BTN YOKE WEEL

E  
D  
C  
B  
A



CTRLS BU0836 CABLE CA2025G		
<b>YOKE BANK</b>	GND X 5V	brown red orange
<b>YOKE PITCH</b>	GND Y 5V	yellow green blue
<b>BRK SX CPT</b>	GND Z 5V	shield black red
<b>BRK SX F/O</b>	GND RX 5V	shield black red
<b>BRK DX CPT</b>	GND RY 5V	shield black red
<b>BRK DX F/O</b>	GND RZ 5V	shield black red
<b>RUDDER</b>	GND SLD 5V	shield black red
<b>TILLER F/O-CPT</b>	GND DIAL 5V	shield black red
<b>CPT</b>		
STB TRIM 1 UP	B1 GND	blue black/yellow
STB TRIM 1 DOWN	B2 GND	grey black/yellow
STB TRIM 2 UP	B3 GND	white black/yellow
STB TRIM 2 DOWN	B4 GND	black black/yellow
INCOM 1	B5 GND	black/brown black/yellow
INCOM 2	B6 GND	black/red black/yellow
AP DISENGAge	B7 GND	black/orange black/yellow
SPARE	B8 GND	
<b>F/O</b>		
STB TRIM 1 UP	B17 GND	black/green white/orange
STB TRIM 1 DOWN	B18 GND	black/lightblue white/orange
STB TRIM 2 UP	B19 GND	black/pink white/orange
STB TRIM 2 DOWN	B20 GND	black/grey white/orange
INCOM 1	B21 GND	green/yellow white/orange
INCOM 2	B22 GND	lightblue white/orange
AP DISEGAGE	B23 GND	pink white/orange
SPARE	B16 GND	

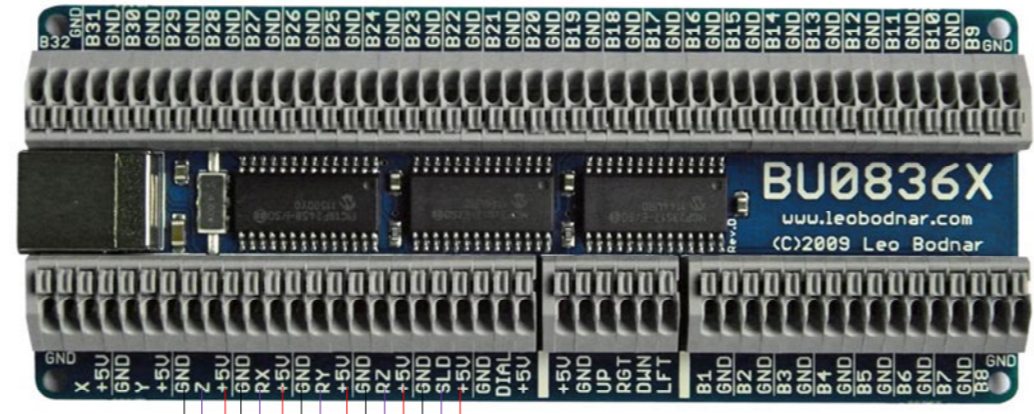
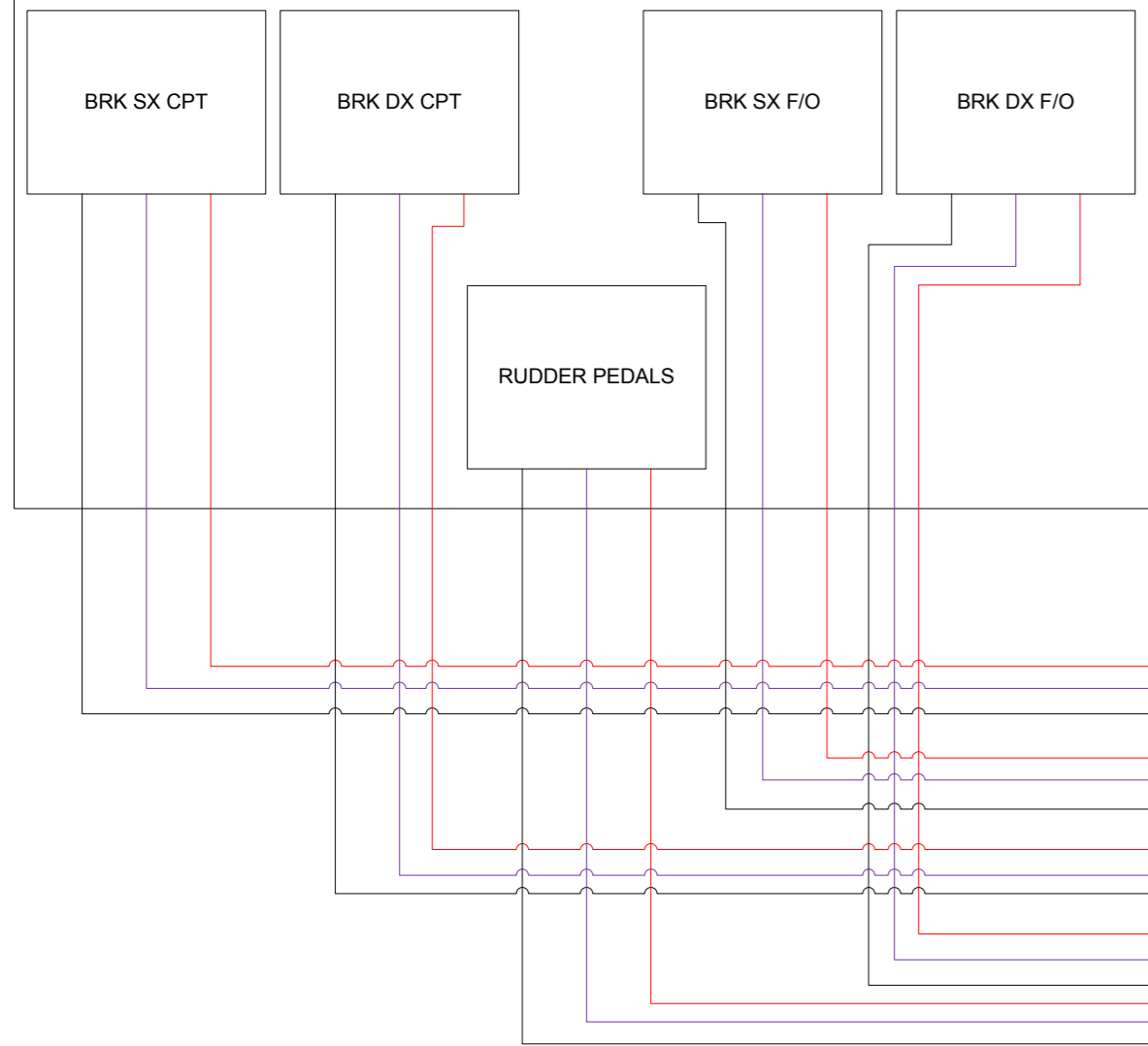
NOTE:

CONTRACT NO.	Schema a blocchi Bodnar 737	Schema a blocchi Bodnar 737	
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DRAWN	Liguori	Schema a blocchi	
REV	Baggio 13/11/2017	Schema a blocchi	
PRINT	14/11/2017	Size	File No.
		A2	Schemi a Blocchi Bodnar V11
		SCALE	SHEET 1 of 2

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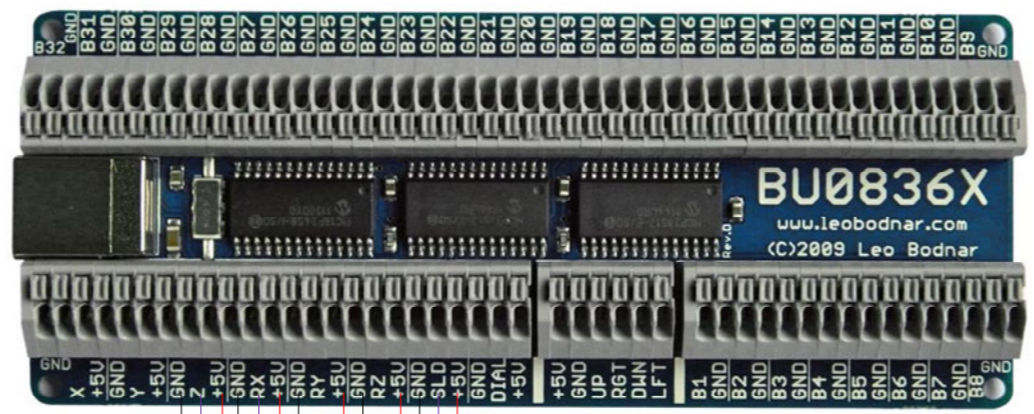
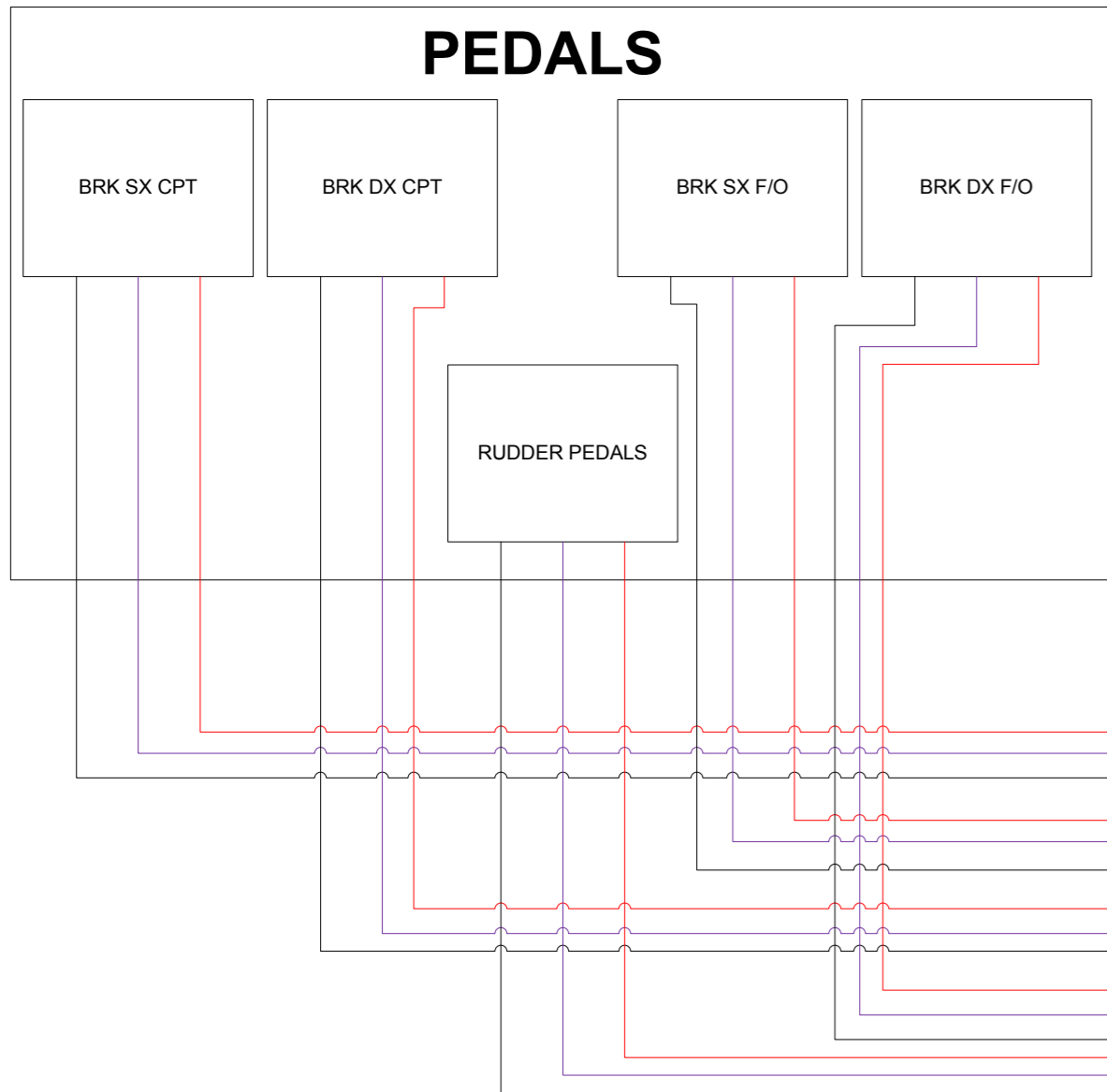
REVISIONS		
COLOR	REV	DESCRIPTION
-----		5 V POTENZIOMETER
-----		SHIELD POTENZIOMETER
-----		SIGNAL POTENZIOMETER
-----		CABLE COLORED SEE SCHEME (CTRLS BU0836 CA2025G)
-----		CABLE FROM BTN YOKE WHEEL

### PEDEALS



### TYPICAL CONNECTION

### PEDALS



### PARALLEL BKAKES CONNECTION

### CTRLS BU0836 CABLE CA2025G

BRK SX CPT	GND Z 5V	shield black red
BRK SX F/O	GND RX 5V	shield black red
BRK DX CPT	GND RY 5V	shield black red
BRK DX F/O	GND RZ 5V	shield black red
RUDDER	GND SLD 5V	shield black red

NOTE:

CONTRACT NO.	Schema a blocchi Bodnar 737	Schema a blocchi Bodnar 737	
APPROVALS	DATE	Pedals	
DRAWN	Liguori	Pedals	
REV	Baggio 13/11/2017	Pedals	
PRINT	13/11/2017	Size	File No.
		A2	Schema a Blocchi Bodnar V11
		SCALE	SHEET 2 of 2



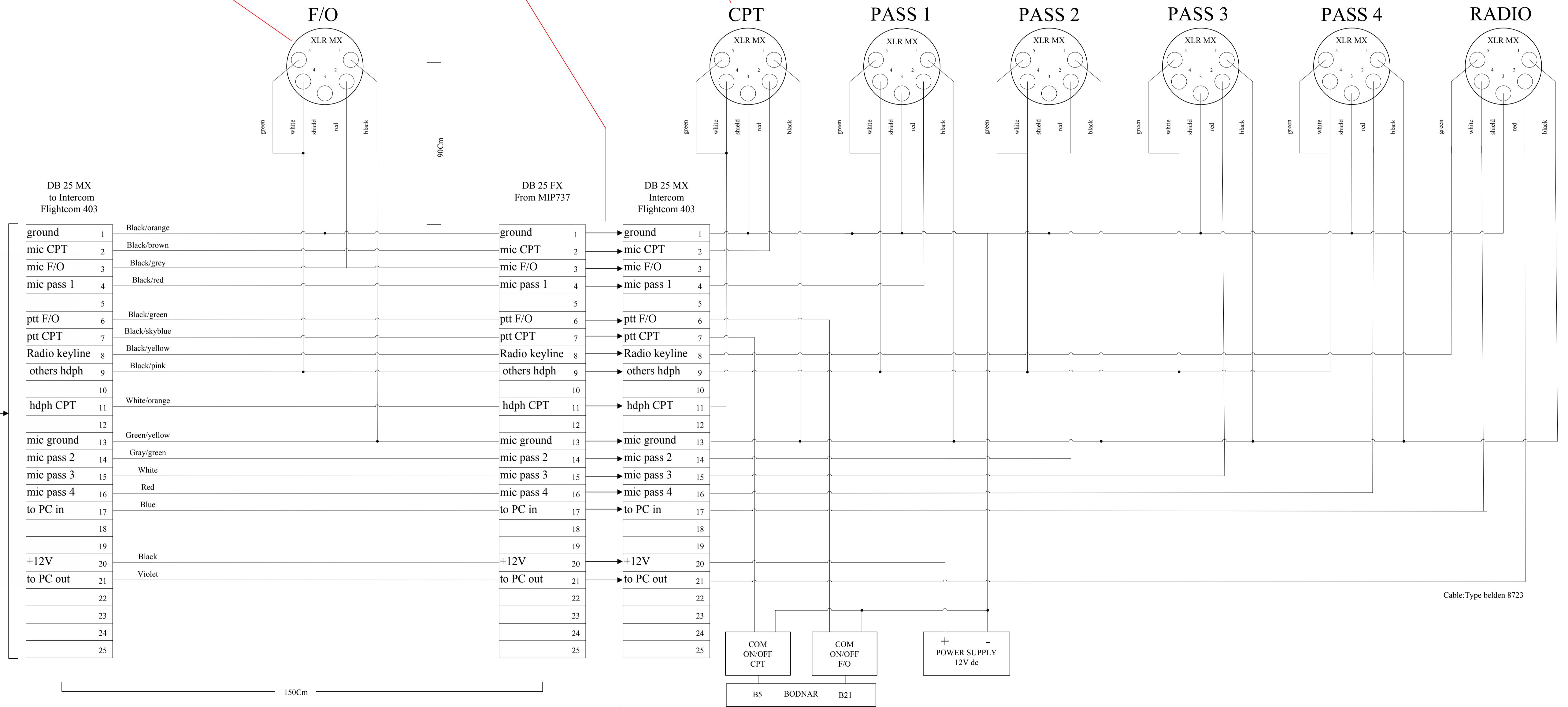
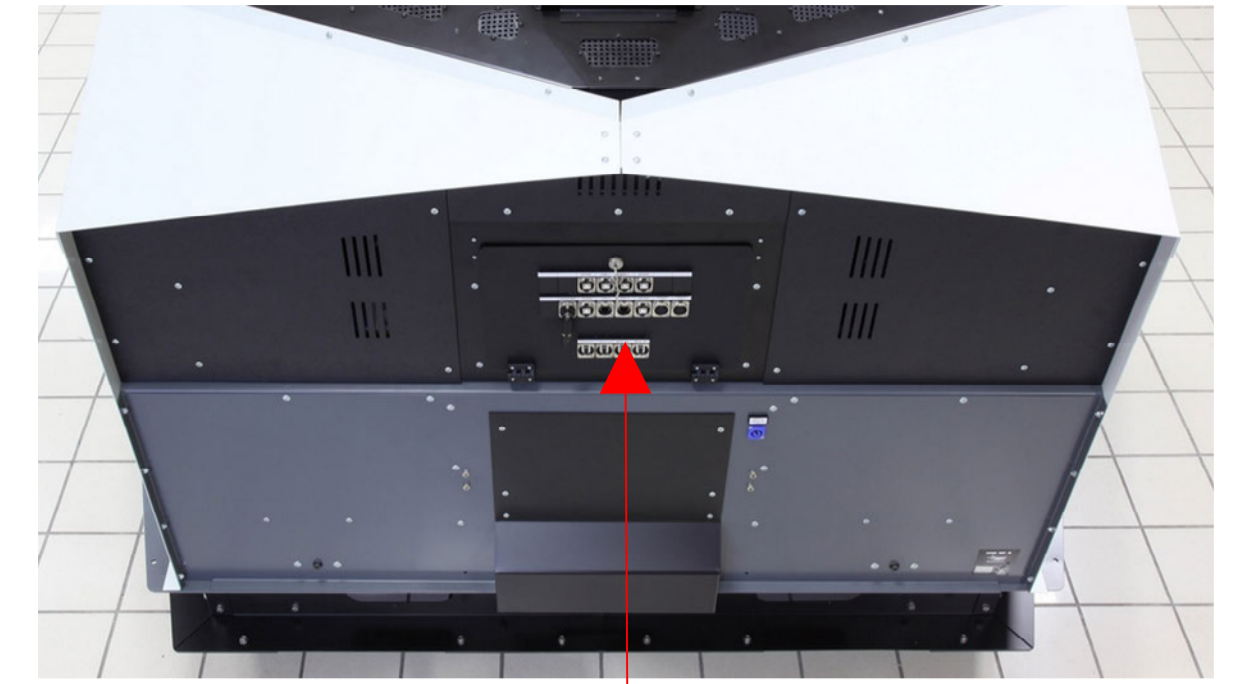
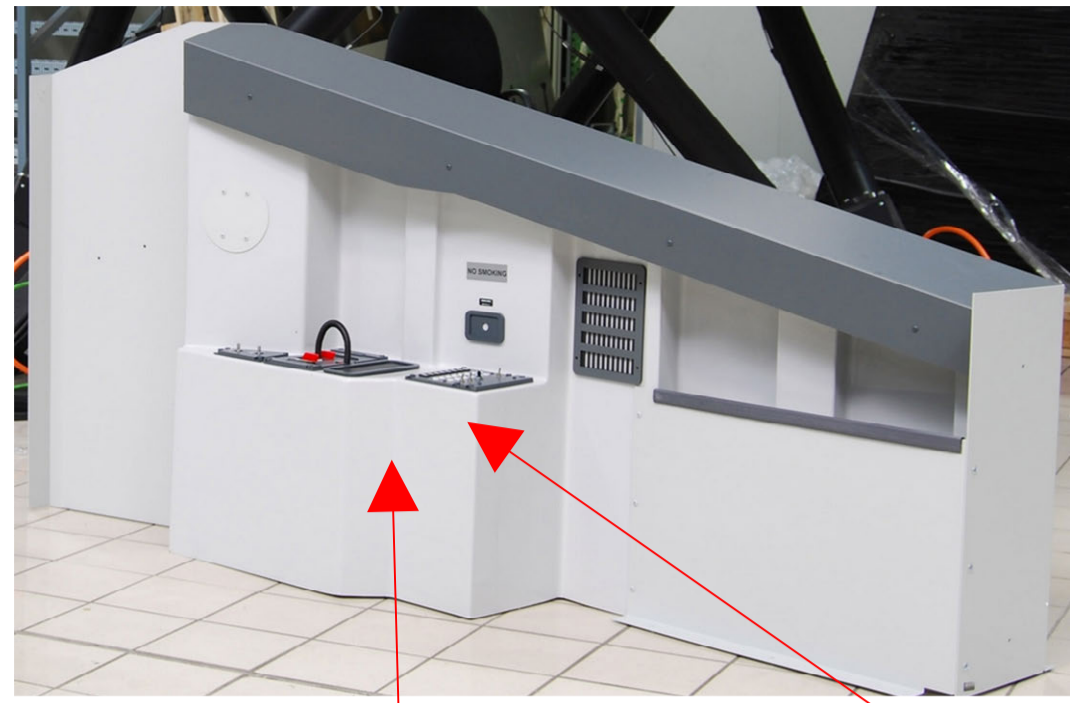


## INTERCOM CONNECTIONS

### Index:

- All System Block Diagram
- Interconnections Main Station
- Extention Cable





Main Station Intercom installed on Shell side

Extension cable installed from MIP right side to Shell

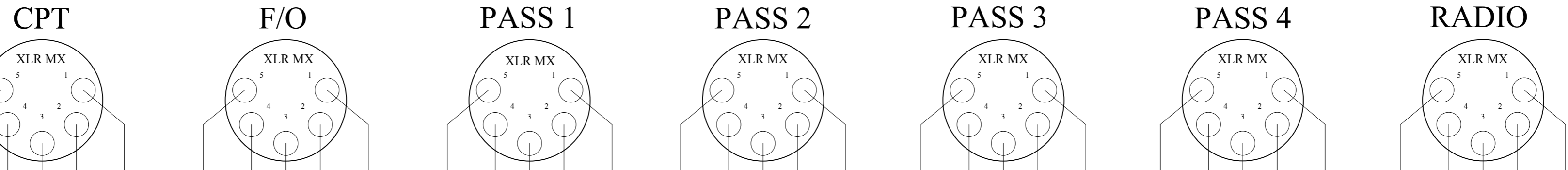
Interconnections from external MIP right side to in MIP

CONTRACT NO.		ASSIEME INTERCOM	
APPROVALS	DATE	MIP737 INTERCOM SYSTEM	
DRAWN BAGGIO	13/11/2017		
REV	Baggio		
PRINT	14/11/2017		
SCALE		Sheet No.	MIP737 EXTENSION CABLE FOR INTERCOM
		A1	1 of 3
		SHEET	1 of 3



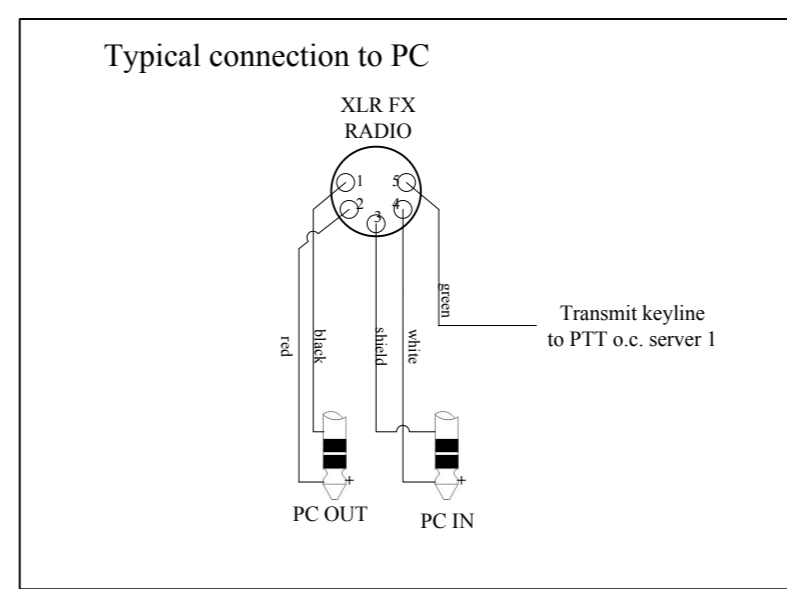
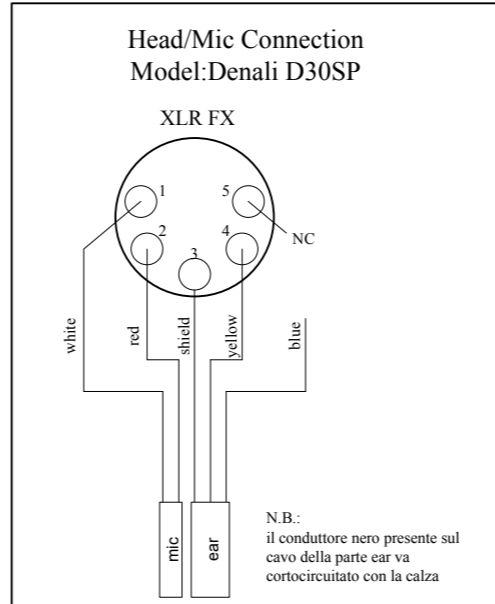
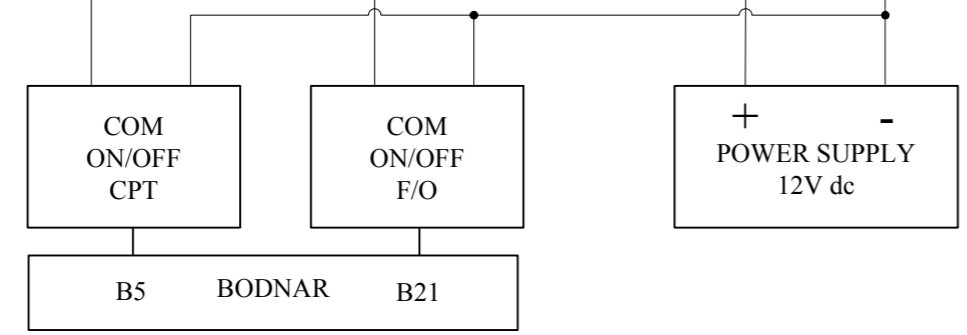
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REVISIONS		
COLOR	REV	DESCRIPTION
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DB 25 MX  
Intercom  
Flightcom 403

ground	1
mic CPT	2
mic F/O	3
mic pass 1	4
	5
ptt F/O	6
ptt CPT	7
Radio keyline	8
others hdph	9
	10
hdph CPT	11
	12
mic ground	13
mic pass 2	14
mic pass 3	15
mic pass 4	16
to PC in	17
	18
	19
+12V	20
to PC out	21
	22
	23
	24
	25

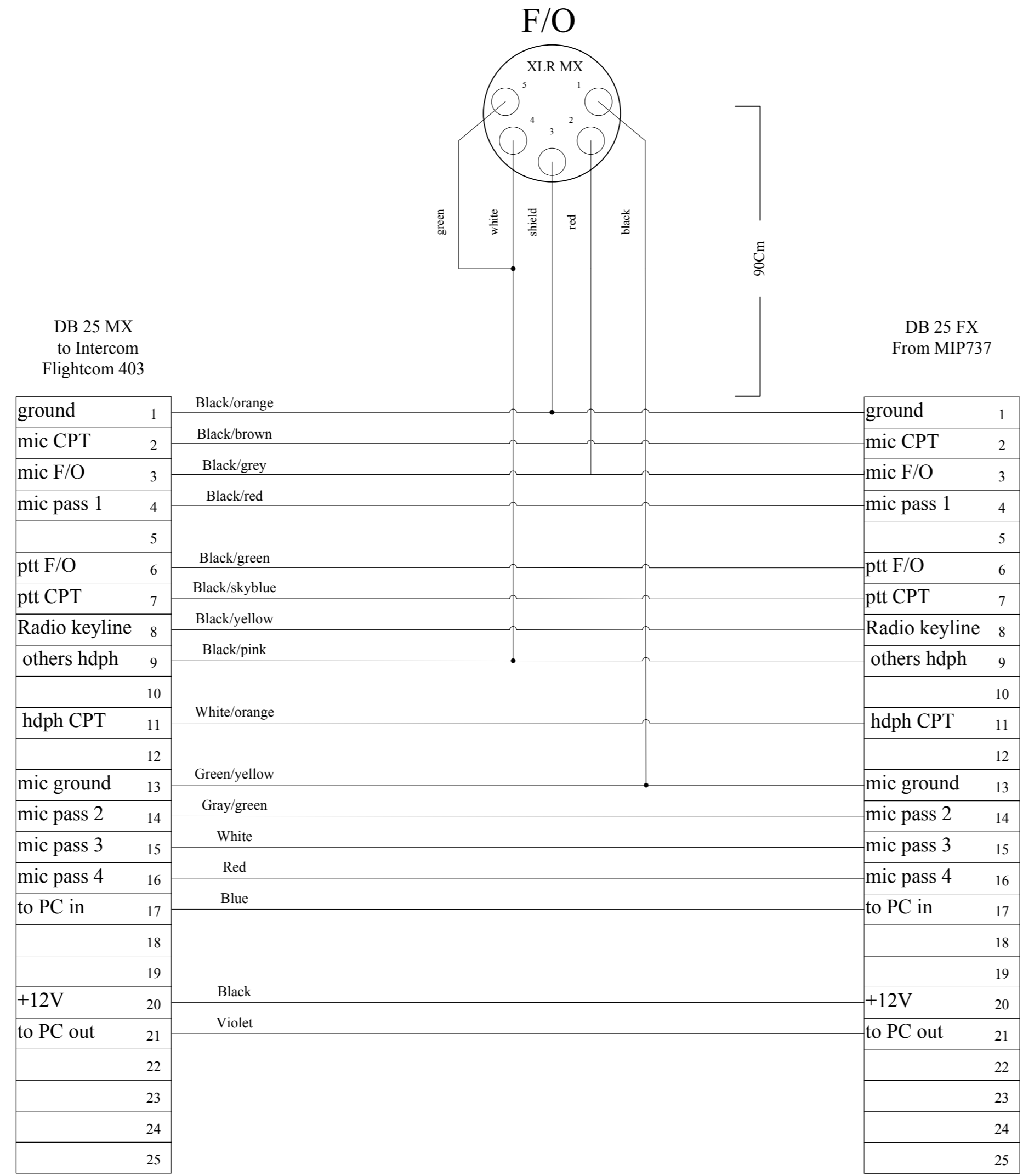


Cable: Type belden 8723

CONTRACT NO.			
APPROVALS	DATE		
DRAWN Trolese	10/01/2015	MIP737 INTERCOM SYSTEM	
REV Baggio	13/11/2017		
PRINT	14/11/2017	Size A4	File No. MIP737 INTERCOM SYSTEM
FSC Flight Simulator Center		SCALE	SHEET 2 of

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REVISIONS		
COLOR	REV	DESCRIPTION
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## EXTENTION CABLE for Intercom Flightcom 403

CONTRACT NO.		EXTENTION CABLE	
APPROVALS	DATE	MIP737 INTERCOM SYSTEM	
DRAWN Trolese	10/01/2015		
REV Baggio	13/11/2017		
PRINT	14/11/2017	Size A4	File No. MIP737 EXTENTION CABLE FOR INTERCOM
		SCALE	SHEET 3 of





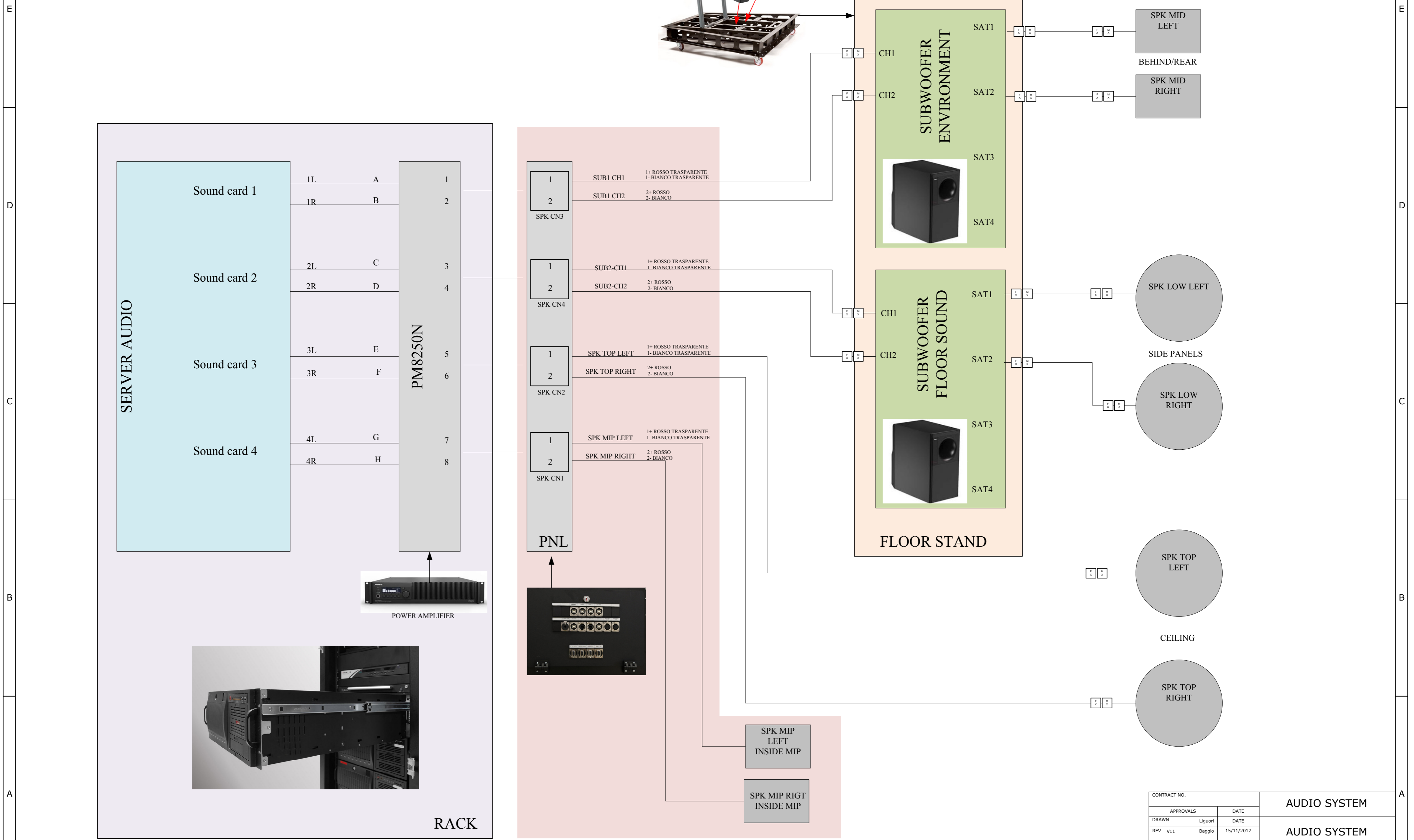
## AUDIO CONNECTIONS

### Index:

- All System Block Diagram
- Layout Speaker Position

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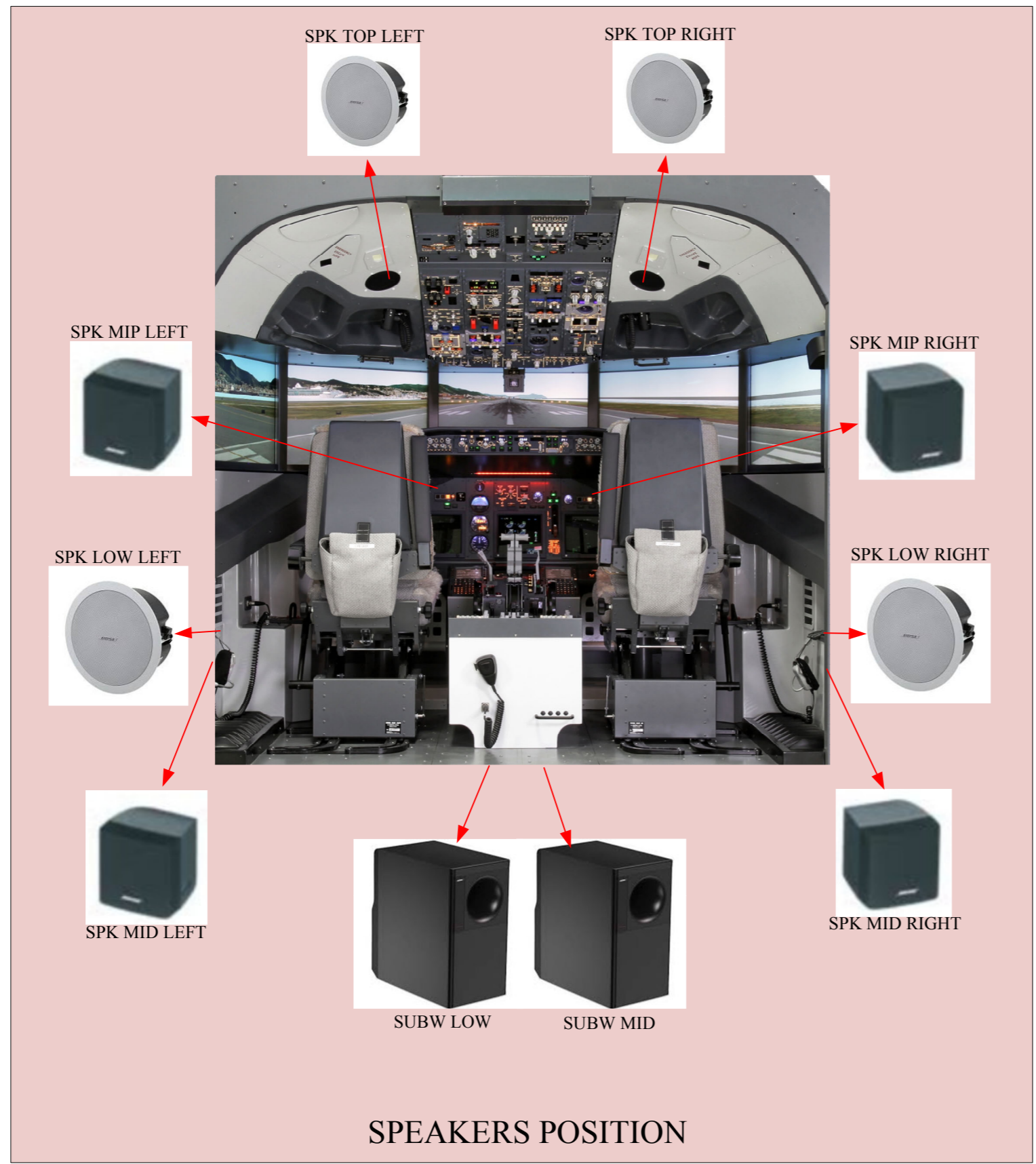
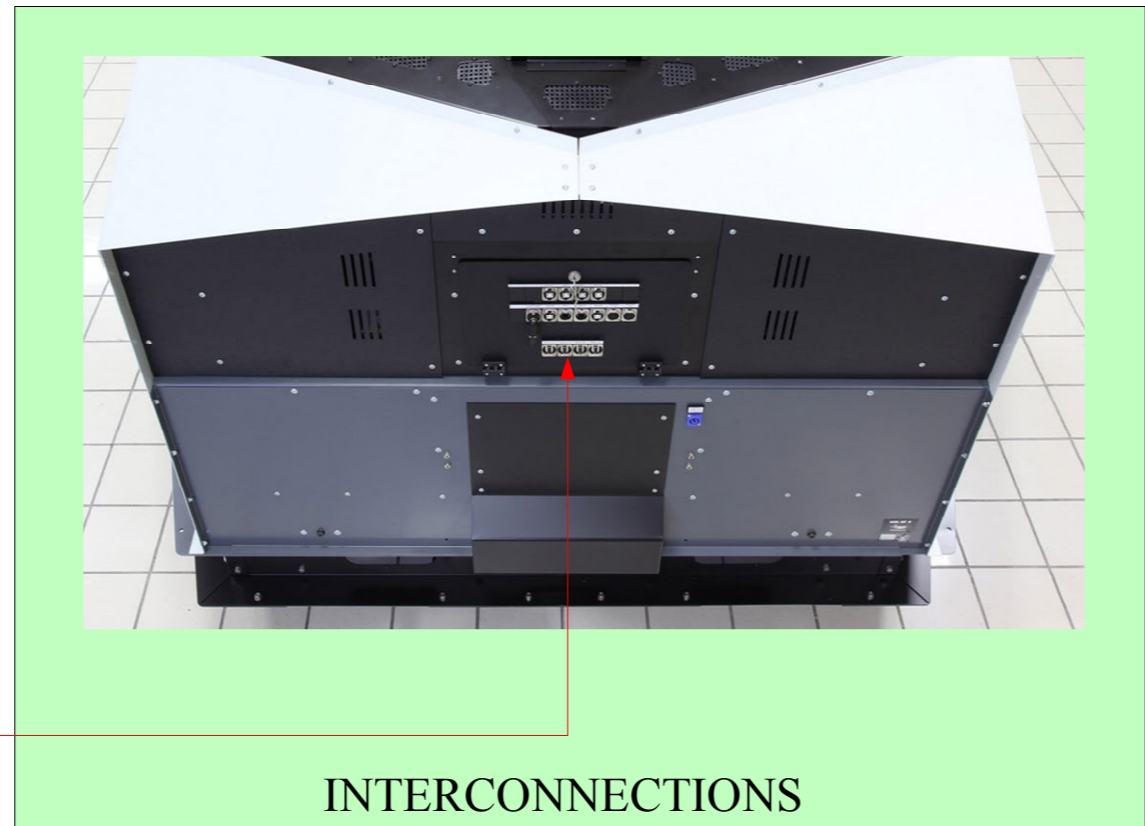
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CONTRACT NO.		AUDIO SYSTEM	
APPROVALS	DATE	AUDIO SYSTEM	
DRAWN Liguri	DATE		
REV v11	Baggio 15/11/2017		
PRINT	15/11/2017	Size	File No.
		A2	MIP737 Audio System.vsd
		SCALE	SHEET 1 of 2

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REVISIONS				
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CONTRACT NO.		AUDIO SYSTEM LAYOUT	
APPROVALS	DATE	AUDIO SYSTEM LAYOUT	
DRAWN Liguri	DATE	AUDIO SYSTEM LAYOUT	
REV V11	Baggio 15/11/2017	Size	File No.
PRINT	15/11/2017	A2	MIP737 Audio System Layout.vsd
FSC Flight Simulator Center		SCALE	SHEET 2 of 2





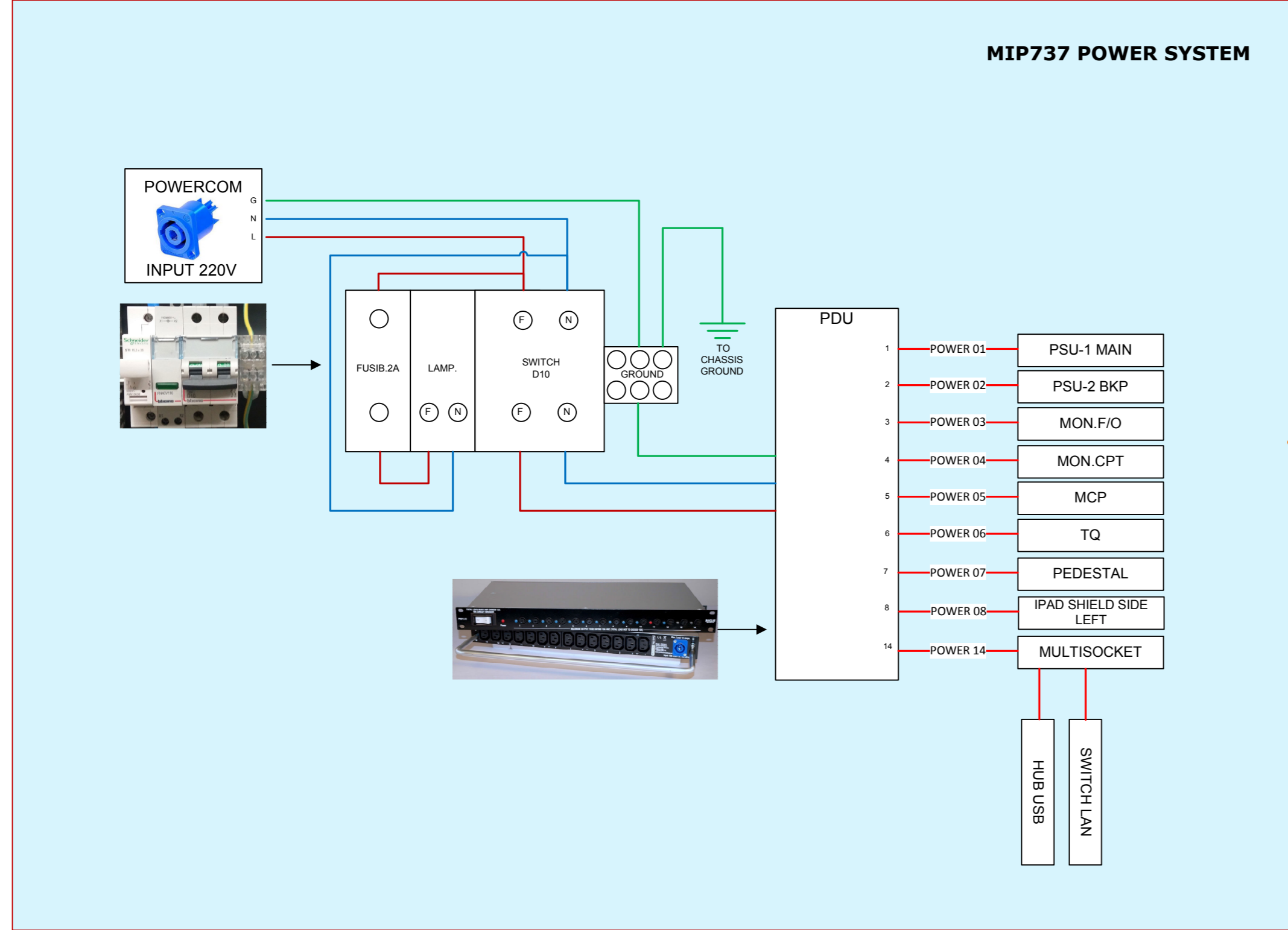
## POWER CONNECTIONS

### Index:

- All System Block Diagram

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REVISIONS	
COLOR	REV
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CONTRACT NO.	Schema a blocchi Bodnar 737	<b>MIP737 POWER SYSTEM</b>	
APPROVALS	DATE		
DRAWN Liguri	DATE		
REV V11 Baggio	13/11/2017	<b>MIP737 POWER SYSTEM</b>	
PRINT	15/11/2017	Size	File No.
		<b>A2</b>	<b>MIP737 POWER SYSTEM</b>
		SCALE	SHEET 1 of 1