STARTER, LO SWITCHES PANEL, IL FULE SELECTOR ED IL PARKING BRAKE

1) Scarica e installa l'IDE arduino da questo link: https://www.arduino.cc/en/Main/Software;
2) Scarica da www.simvim.com/ardsimx.html sia il firmware che il plugin di ardsimx (vedi fig. 1);

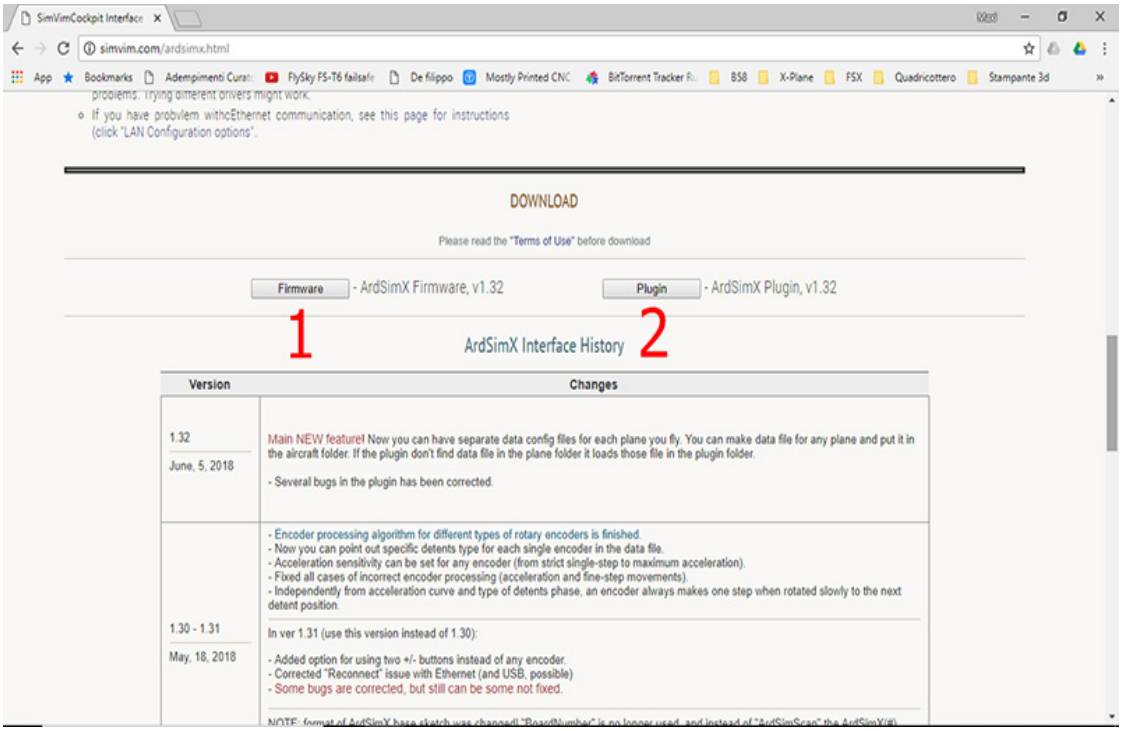

Fig. 1

3) Scompatta il file del firmware nella cartella TUOPC\Documents\Arduino/Libraries;
4) Scompatta il file Plugin nella cartella C:\...\XPlaneXX\resources\Plugin;
5) Apri Arduino IDE e programma la scheda arduino con il firmware che trovi fra gli esempi (nel menù file) sotto la voce ArdSimx 1.32\Ardsimx_USB (o Ardsimx_Ethernet se utilizzi il collegamento di arduino ethernet);
6) Copia il nostro file data.cfg nella cartella C:\...\XPlaneXX\resources\Plugin\Ardsimx, sovrascrivendo il vecchio;
7) Collega tutte le nostre periferiche come da fig. 2

Red wires = Starter Panel	**Purple Wires = Parking Brake Panel**
Green wires = Fuel Selector Panel	**Orange Wires = Gear panel**
Blu Wires = Switch Panel	**Grey Wires = Encoders**

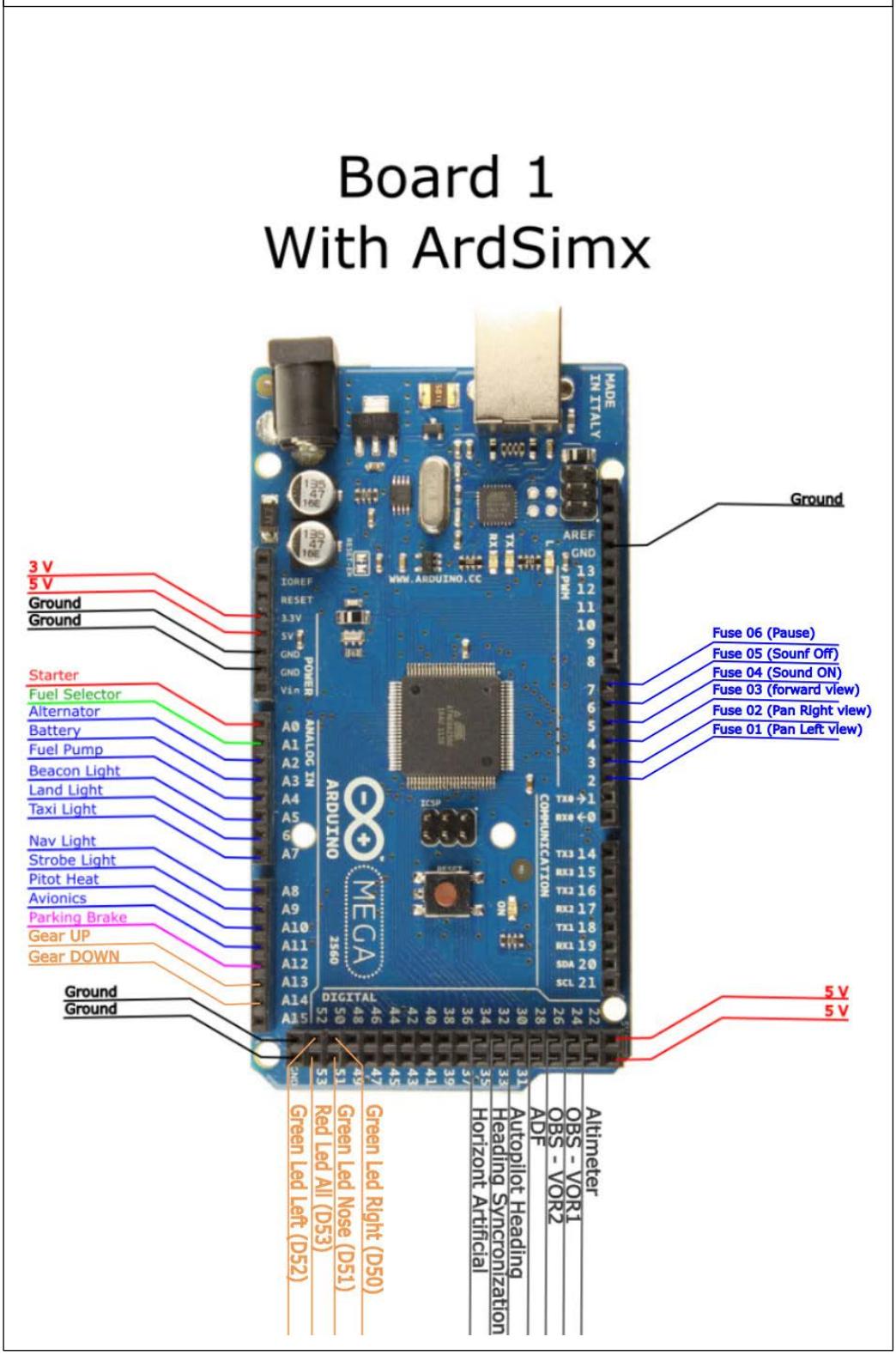

Fig. 2

8) Avvia Xplane e dovrai vedere una schermata simile a quella in fig. 3

Fig. 3

9) Chiudi la schermata di fig. 3 cliccando sulla X in alto a destra e hai finito…Buon volo.

Avvertenze

Per una esigenza di Ardsimx il rotary switch dello starter e del fuel selector dovrà essere collegato all'Arduino utilizzando delle resistenze da 5 KoHm ed un capacitore da 2.2 mF che dovranno essere saldati al rotary switch come da fig. 4

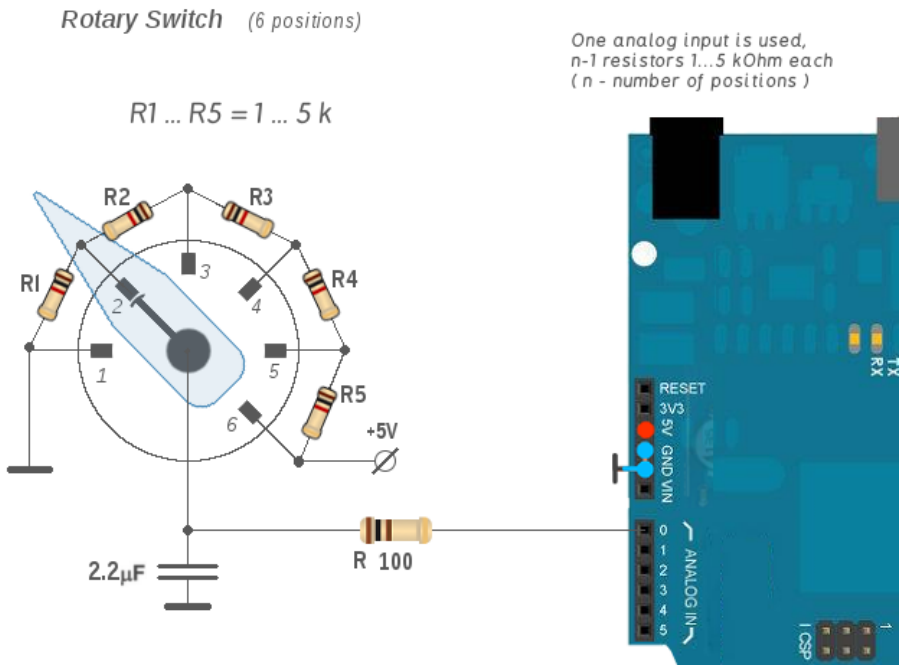

Fig. 4

BUSSOLA

1) Scarica e installa l'IDE arduino da questo link: https://www.arduino.cc/en/Main/Software (dovresti averlo già fatto);
2) Scarica e istalla Mobiflight da https://www.mobiflight.com/en/index.html);
3) Scarica e installa XPUIPC da https://web.archive.org/web/20171109165154/http://www.tosi-online.de/XPUIPC/XPUIPC.html
4) Collega l'arduino al PC ed apri Mobiflight;
5) leggerai un messaggio che ti avvisa che la scheda arduino collegata non ha caricato il firmware di mobiflight e ti chiederà se vuoi caricarlo;
6) Clicca su Yes e carica il nostro il nostro file denominato simmax_board.mfmc cliccando sul pulsante load, (bottone numero 1 della figura 5);
7) Una volta caricato il nostro file, clicca sul pulsante upload (bottone n. 2 della figura 5) e programma la scheda. Terminato l'upload clicca sul pulsante ok per chiudere la finestra;

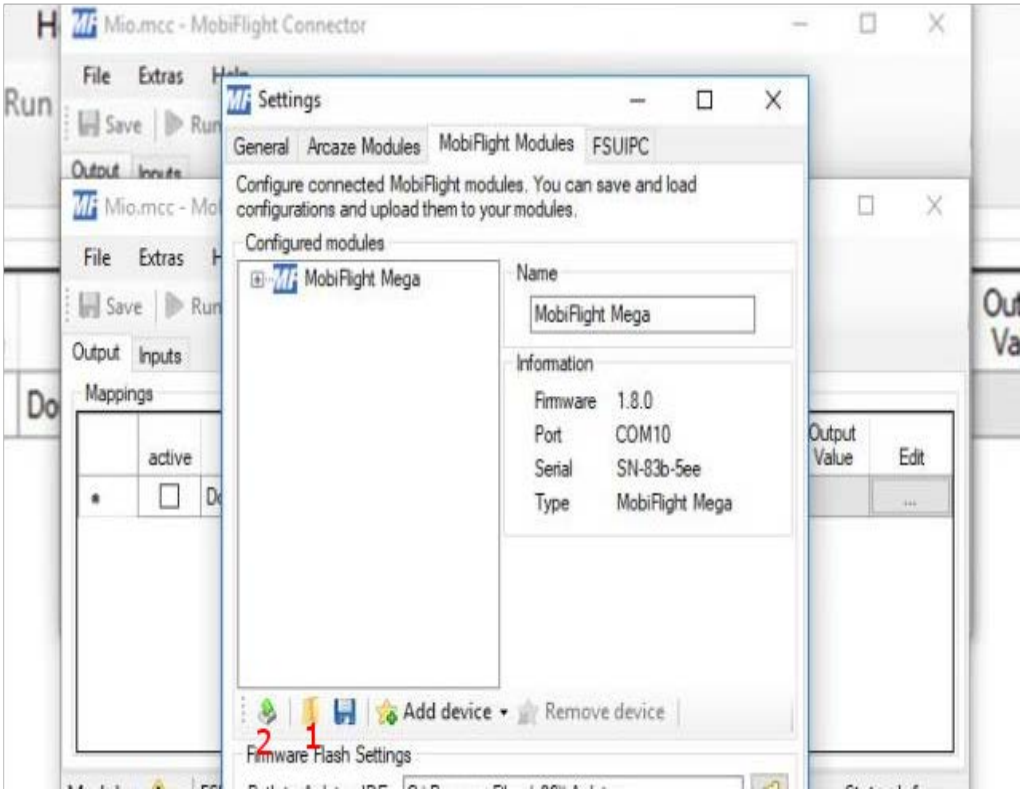

Fig. 5

8) Nella successiva schermata, clicca sul menù file e carica il nostro file denominato simmax_PIN.mcc (in questo file sono compresi anche i settaggi per il servo motore del flap panel);
9) Accertati che il pulsante Autorun di mobiflight sia evidenziato;
10) Collega i cavi della bussola sui PIN nn. D02, D03, D04 e D05 della scheda arduino con mobiflgiht;
11) Lancia Xplane e, utilizzando gli appositi tasti di mobiflight fai coincidere il dato della nostra bussola con quello della bussola di Xplane;
12) Hai finito, buon volo

FLAP PANEL

1) Apri la scatola del nostro Throttle Single Engine e troverai all'interno una scheda Arduino UNO R3;
2) Collega il cavo del potenziometro del Flap Panel al PIN A1;
3) Richiudi la scatola del nostro Throttle Single Engine;
4) Collega il servo motore del Flap Panel alla scheda Arduino Mega della bussola, utilizzando i 5V ed il ground della scheda ed utilizzando il PIN n. D39 per il cavo dati del servo motore;
5) Lancia Xplane ed assegna il quarto asse dell'UnoJoy al comando Flaps
6) Hai finito, buon volo

STARTER PANEL, SWITCHES PANEL, FULE SELECTOR PANEL AND PARKING BRAKE PANEL

1. Download and install the Arduino IDE from this link: https://www.arduino.cc/en/Main/Software;
2. Download from www.simvim.com/ardsimx.html both the firmware and the ardsimx plugin (see Fig. 1)

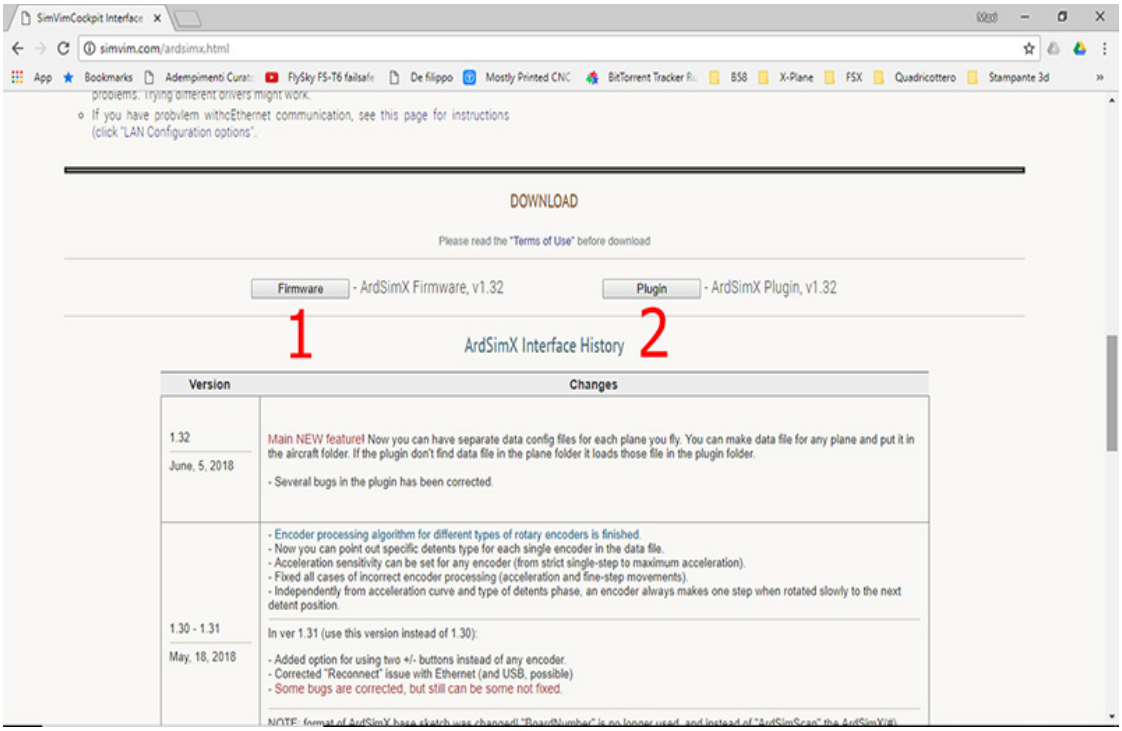

Fig. 1

3) Unzip the firmware file in the YOURPC\Documents\Arduino\Libraries folder;

4) Unzip the Plugin file in the C: \ ... \ XPlaneXX\resources\Plugin folder;

5) Open Arduino IDE and program the arduino board with the firmware you find among the examples (in the file menu) under the entry ArdSimx 1.32 \ Ardsimx_USB (or Ardsimx_Ethernet if you use the connection of arduino ethernet);

6) Copy our data.cfg file to the C: \ ... \ XPlaneXX \ resources \ Plugin \ Ardsimx folder, overwriting the old one;

7) Connect all our peripherals as shown in fig. 2

Red wires = Starter Panel	**Purple Wires = Parking Brake Panel**
Green wires = Fuel Selector Panel	**Orange Wires = Gear panel**
Blu Wires = Switch Panel	**Grey Wires = Encoders**

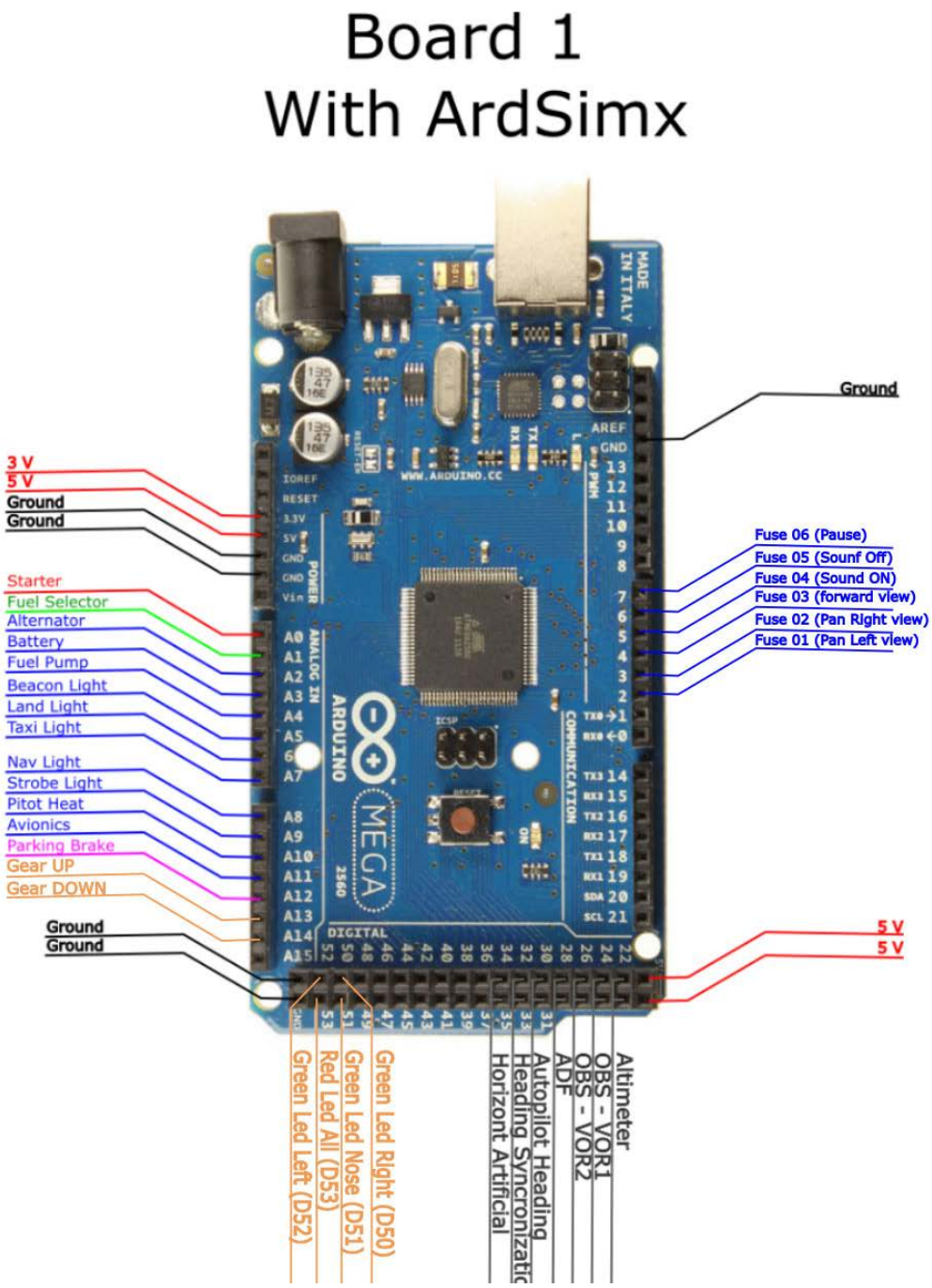

Fig. 2

8) Start Xplane and you will have to see a screen similar to the one in fig. 3

Fig. 3

Warnings

For Ardsimx's requirement, the starter and fuel selector rotary switch must be connected to the Arduino board using resistances of 5 kohm and a 2.2 mF capacitor which, must be welded to the rotary switch as shown in fig. 4

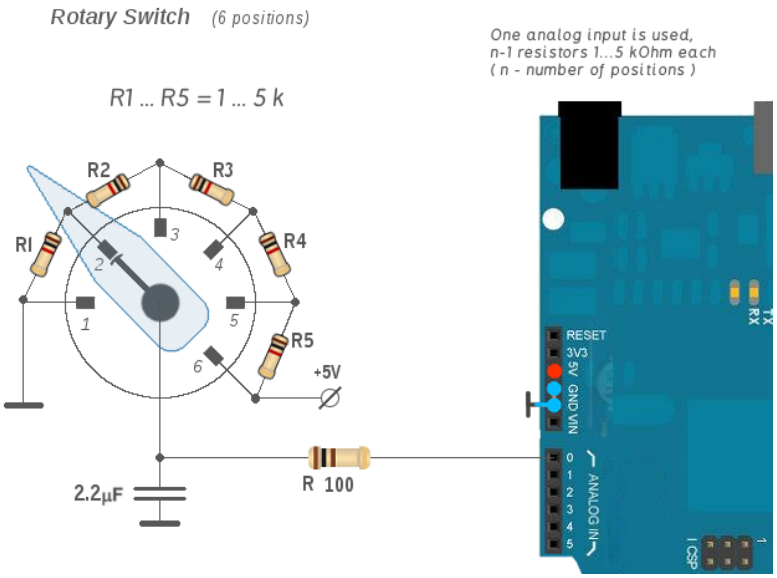

Fig. 4

COMPASS

1) Download and install the Arduino IDE from this link: https://www.arduino.cc/en/Main/Software (you should have already done so);
2) Download and install Mobiflight from https://www.mobiflight.com/en/index.html) ;
3) Download and install XPUIPC from https://web.archive.org/web/20171109165154/http://www.tosi-online.de/XPUIPC/XPUIPC.html
4) Connect the Arduino to the PC and open Mobiflight;
5) you will read a message that warns you that the connected arduino board has not loaded the mobiflight firmware and will ask you if you want to load it;
6) Click on Yes and upload our file named simmax_board.mfmc, by clicking on the button load (button number 1 in the fig. 5);
7) Once you have uploaded our file, click on the button upload (button number 2 in the fig. 5) and program the card. After uploading, click on the ok button to close the window;

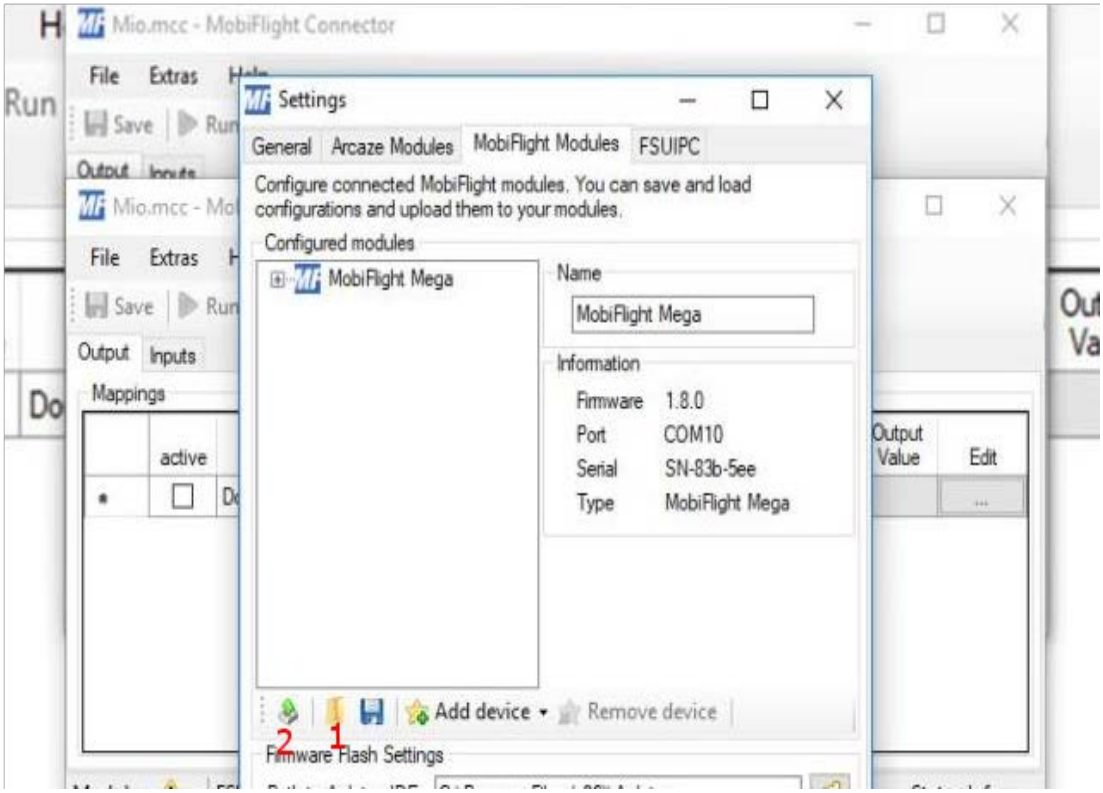

Fig. 5

8) In the next screen, click on the file menu and upload our file named simmax_PIN. mcc (this file also includes the settings for the servo motor of the flap panel);
9) Make sure that the Autorun button of mobiflight is highlighted;
10) Connect the compass cables to the PIN num. D02, D03, D04 and D05 of the Arduino board with mobiflight;
11) Lancia x Plane and, using the appropriate mobiflight keys, make the datum of our compass coincide with that of the compass of Xplane;
12) You're done, good flights

FLAP PANEL

1) Open the box of our Throttle Single Engine and you will find an Arduino UNO R3 card inside;
2) Connect the flap panel potentiometer cable to PIN A1;
3) Close the box of our Throttle Single Engine;
4) Connect the motor servo of the Flap Panel to the Arduino Mega board of the compass, using the 5V and the ground of the board and using PIN num. 39 for the data cable of the servo motor;
5) Launch Xplane and assigns the fourth axis of the Unojoy to the Flaps command
6) You have finished, good flights