



Boeing 737 Fuel Planner 1.5a

Design & Programming
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Application KEY for **FSUIPC.dll** :

Program name : **B737FP1**
Enter key: **7KOS T0A7 X3LN**

!!!! IMPORTANT WARNING !!!!

The program is usable for simulation purposes ONLY !

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1. Introduction

Boeing 737 Fuel Planner is a universal fuel planner. It is designed for Boeing 737, types 200/300/400/500/600/700/800/900.

All changes in new version 1.5 you can find bellow.

2. Installing

First of all, uninstall all previous versions of B737 Fuel Planner : Run uninstall.exe in application main folder. You can do it from Start/Programs/Boeing 737 Fuel Planner menu as well.

2.1 Installer

1. First of all, **uninstall all previous** versions of B737 Fuel Planner :
Run uninstall.exe in application main folder. You can do it from Start/Programs/Boeing 737 Fuel Planner menu as well.
2. MS FlightSim 2002/2004 users : To be sure - check FS/modules folder – if you find file called dlB737FPL.dll, **delete this file**.
3. Simply run B737FPL14_install.exe file and follow the installation instructions.

The installer will install these files :

B737FPL.exe
B737FPL.ini
B737FPL_manual.pdf
ReadMe.txt
uninstall.exe

2.2 Without Installer

1. First of all, **uninstall all previous** versions of B737 Fuel Planner :
Run uninstall.exe in application main folder. You can do it from Start/Programs/Boeing 737 Fuel Planner menu as well.
2. MS FlightSim 2002/2004 users : To be sure - check FS/modules folder – if you find file called dlB737FPL.dll, **delete this file**.
3. Simply unzip planner package file into directory where you want to be planner placed.

3. Lauching the planner

Double click on B737FPL.exe in install directory or click application shortcut on desktop or use Start/Programs menu for application start (if you have installed the planner by installer).

4. Using the Planner

4.1 The abbreviations

MZWF - Maximum Zero Fuel Weight [LB or KG]
ZWF - Zero Fuel Weight [LB or KG]
MTOW - Maximum Takeoff Weight [LB or KG]
TOW - Takeoff Weight [LB or KG]
PSX - Passengers [persons]
CG1 - Cargo 1 Load [LB or KG]
CG2 - Cargo 2 Load [LB or KG]
ALT - Cruise altitude [feet]
DST - Distance to Destination Airport [nm]
AAT - Distance to Alternate Airport [nm]
APU - Assumed APU Running Time [min]
TXI - Assumed Taxi Time [min]
COF - Contingency Fuel [LB or KG]
MTC - Maximum Tanks Capacity [LB or KG]

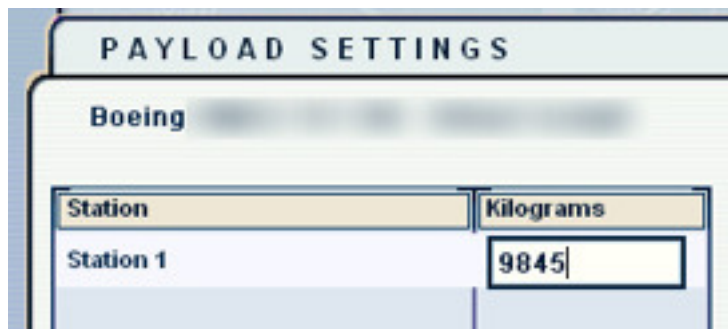
Note: Everytime you can click on button Help for understanding abbreviations.

4.2 Route fuel calculating

1. Start the program.
2. Select B737 type.
3. Select units.
4. Set values in section *Payload Setting*. You can also load weight from payload stations from MS Flight Simulator via button **Get payload from FS**. FS must be launched and FSUIPC installed – then green led on button is active.
5. Set values in section *Flight Setting*.
6. Click on button **Calculate**.

Write necessary values into flight simulator :

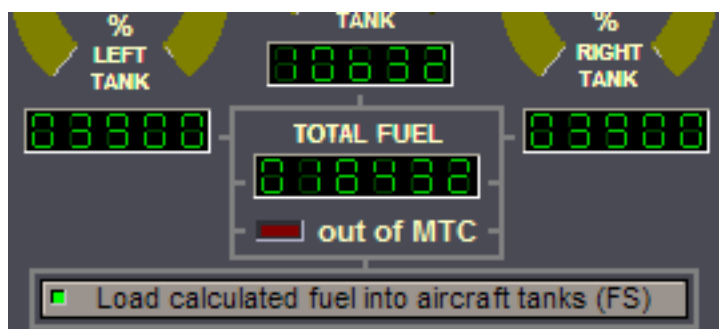
7. Write *Total Payload Weight* into FS.



Remark : If you got payload weight from FS via **Get payload from FS** button, you needn't do this step.

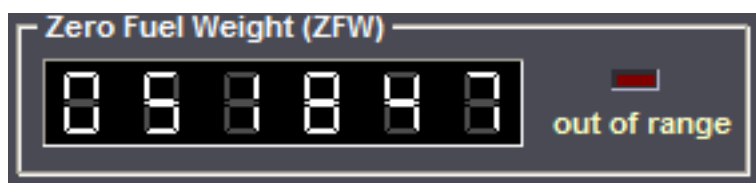
Caution : Check units of weight in FS ! (You can use Unit Setting buttons for unit convert).

8. Set calculated fuel into FS aircraft tanks. For this operation you can use button **Load calculated fuel into aircraft tanks**. FS must be launched and FSUIPC installed – then green led on button is active.



Caution : Check units of fuel in FS ! (You can use Unit Setting buttons for unit convert). If you use button **Load calculated fuel into aircraft tanks**, units are converted automatically.

9. Set Zero Fuel Weight (ZFW) value into ZFW section in aircraft FMC (if you use it).



Caution : Check units in your FMC ! (You can use Unit Setting buttons for unit convert).

4.3 Planner algorithmic

- Fuel calculating is possible when GREEN LED on button Calculate is ON – it happens when primary values ALT, DST and TXI are set and all warning RED LEDS are OFF.
- Unit changing (KG or LB) is possible every time during your work with planner.
- RED Displaying Values show limit values (in reflect of 737 type, weight values and FL) which can not be exceeded. You can not to change them.
- WHITE Displaying Values (with INS button by right side) - are appointed for modify and aircraft preflight settings. For value insert use number buttons. Set the value and yellow inserting display will show you value you're setting. Press button INS and value will be loaded to chosen section. If you want to clear inserting display, press CLR button.
- RED LEDS Warnings - when limit value or values are exceeded, RED LED in current section is ON. You must set new acceptable value or values.
- Button Load calculated fuel into tanks (FS) load calculated fuel into FS (FS98/2000/2002/2004, CFS2). For this operation program uses Pete Dowson's FSUIPC.dll. You should find this file in FS/modules folder. You can download FSUIPC.dll from www.schiratti.com/dowson as well. Note if you use any newer FSUIPC.dll version, you must set key for register the planner in FSUIPC. In this case follow instructions below :
 1. Run FS and create flight.
 2. In FS menu go to Modules/FSUIPC...
 3. Click on button Register an application program

4. Enter values :

Program name : B737FPl

Enter key : 7KOS T0A7 X3LN

Button Load calculated fuel into tanks (FS) is useable when GREEN LED is ON. These are possible causes when GREEN LED is OFF :

- you have not any calculated fuel yet
- MTC or (and) TOW is out of range
- FS doesn't run
- FS misses FSUIPC.dll

Note for FS2004 users :

Calculated fuel is loaded when you have loaded (created) any flight in FS. It doesn't work when you have FS in basic menu (after FS start).

- Active READING DATA ERROR LED shows some problems with B737FPl.ini file which is placed in the same directory as the application.

5. Planner settings

Click button Settings – in opened window “Settings” you can change these parameters :

5.1 Always on top

Checkbox checked - the Fuel Planner frame will be always on top, opposite to other windows.

5.2 Clear Inserting Display by INS button

Checkbox checked - after pressing INS button will be cleared yellow inserting display (you must not to press CLR button before new value setting).

5.3 Show Help Hint

Checkbox checked - when you hold mouse cursor above some display you can see Help Hint.

5.4 LEDS Contrast Setting

There are 5 contrast levels for every display colour.

6. Uninstall

Simply run Uninstall.exe file placed in the planner main directory. If you have installed planner by installer, you can run uninstall.exe via Start/Programs menu/Uninstall as well.

7. Versions history

1.5a January 2009

- fixed payload loading problem

1.5 February 2007

- payload weight loading function implemented
- some bugs repaired

1.4 December 2005

- added calculation for 737-600
- optimize fuel calculating engine

- added total payload indicator
- other changes

1.3 October 2004

- optimize fuel calculating engine
- possibility to load calculated fuel into FS

1.2 April 2004

- data for 737-200
- LEDs contrast setting
- fuel capacity percentage view

1.11 December 2003

- patch for multimonitor systems

1.1 December 2003

- released first version of planner

8. Credits

My thanks goes to :

- Microsoft for really great FS,
- Pete Dowson for FSUIPC and SDK,
- Petr Kadlec for his API programming sequence help,
- James Driscoll and Scott Braiding for important B737 materials,
- CZECH AIRLINES Virtual for its support with beta testing,
- all Beta testers, particularly Tomáš Gurecký, Marek Batelka, Tomáš Těhan
- many people for feedback.

9. Feedback

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