

# INSTALLATION MANUAL AND USE

## IPLUGFM

### UNIVERSAL Adapter for MP3 players rev 1.0 10 iPod - iPod MINI- iPod nano

**IPLUGFM** is an electronic module able to interface ALL OEM or aftermarket car radios with MP3 players or every audio devices.

The compatibility it's UNIVERSAL; with this module, we can connect our player with few operation on every kind of car.

The IPLUGFM 's DSP processor controls the audio gain and manages the FM modulation all in digital mode, so so to grant an audio quality similar to the CD's one!

The module can work in 3 different configuration; they are:

In series with the IPOD, in connection with an audio source trough PLUG JACK, connected to a an audio source as TV tuner, DVD etc.

For an excellent working, it will be necessary to program the module as described more next in the present manual.

#### CONNECTIONS AND INSTALLATION (JACK or RCA profile)

**IPLUGFM** kit is composed by an interface unit (A), a connection MINIJACK cable (B), 2 connection ANTENNA DIN cable (D), and DIN PLUG one (C), a connector for the power supplying (E).

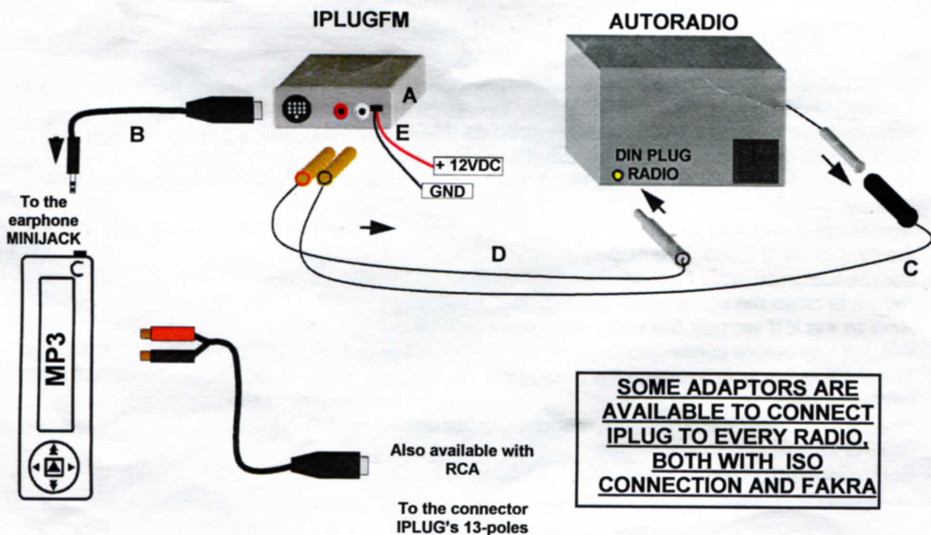
Power supplying connections:

Red = 12 VDC Positive

Black = GND

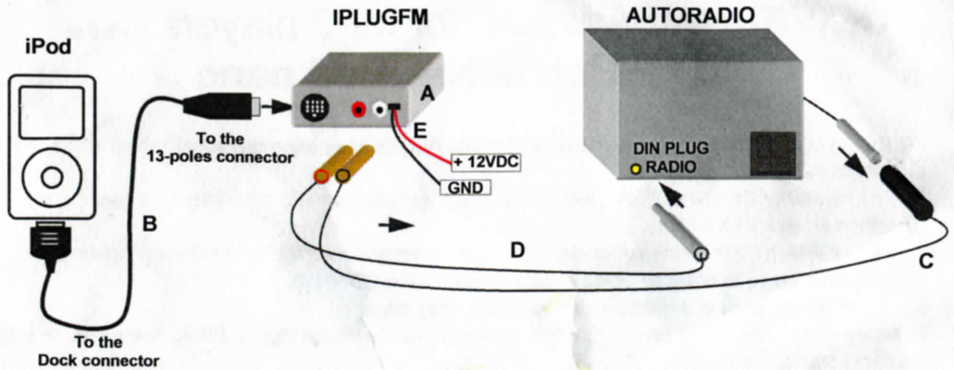
Insert the car DIN ANTENNA in the DIN PLUG (C).

Insert the DIN ANTENNA (D) in the DIN PLUG RADIO.



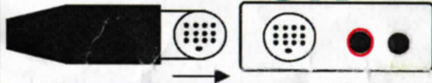
## CONNECTION TO THE IPOD

IPLUGFM can be connected directly to the iPod through the cable of connection (B) for the iPod (included depending from the version). This solution allows to manage the connection through the iPod's docking input in order to manage not only the audio but also the battery's charge, both for the new IPOD and IPHONE.



**ATTENTION:**  
**INSERT THE 13-POLES PLUG CORRECTLY!**

**OK**



**NO**



### ATTENTION:

THE CONNECTIONS MUST BE DONE BY QUALIFIED TECHNICAL TEAM.  
USE THE PRODUCT ON VEHICLES WITH 12 V BATTERY CHARGE WITH NEGATIVE TO THE BODYWORK. DON'T WEAVE THE CABLES TO NEAR OBJECT.  
ARRANGE THE CABLES AS THEY DON'T RISK TO BE CUT OR PULLED UP.

## SETTING

### FREQUENCIES

IPLUGFM is designed to transmit in 2 different frequencies selectable.

The default frequency is set on 87,7 MHz. The alternative frequency it's 88,1 MHz.

#### How to set it if we use the unit configured as JACK or RCA:

Without any device connected and with IPLUGFM 2.0 switch off, open the unit and insert J5. The module will switch on and the display will visualize the word IPLUGFM on the default frequency.

Now remove and wait till the module switch off, once it's off, within 5 seconds, put and remove the jumper J5 3 times. The display will visualize GO TO 88,1 MHz.

Set manually the radio frequency on 88,1 MHz.

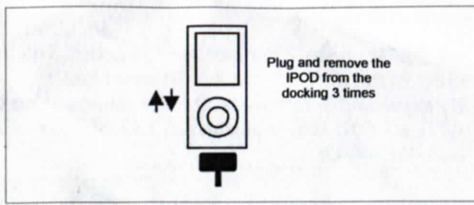
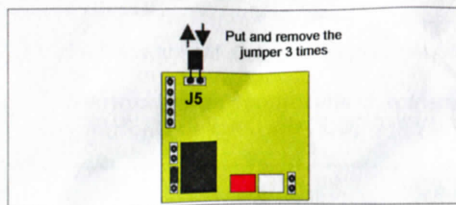
Before to close the unit be sure that the J5 is not inserted.

#### How to set it if we use the unit configured as IPOD:

Without any device connected and with IPLUGFM 2.0 switch off insert the IPOD to the docking. The module will switch on and the display will visualize the word IPLUGFM on the default frequency.

Now, within 5 seconds, plug and remove from the docking for 3 times. The display will visualize GO TO 88,1 MHz.

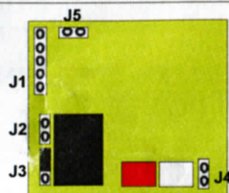
Set manually the radio frequency on 88,1 MHz.



### IPOD / IPHONE PROFILE

IPLUGFM is totally compatible with the IPOD and the IPHONE of new generation (see the compatibility table).

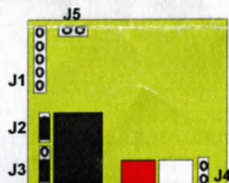
To have a correct working of the system, it's necessary to set J3 as described in the picture below. With this setting, IPLUGFM will turn on at every insertion of the IPOD in the dock input; it will turn off only at the moment in which the player is disconnected.



### AUDIO JACK PROFILE

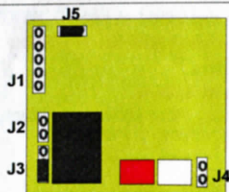
In the case of you want to use the IPLUGFM to reproduce mp3 players' audio system to a JACK connection, it's necessary to set the Jumpers J2 and J3 as described in the picture below.

With this setting, the IPLUGFM will turn on at every insertion of the audio surveying and it will turn off after 20 seconds that this defects.



### AUDIO RCA PROFILE

In case you want to use the IPLUGFM to reproduce audio , dvd, tv tuner systems or similar devices, it's necessary to set the Jumpers J5 and J3 as described in the picture below. With this setting, the IPLUGFM it's necessary to connect the IPLUGFM's positive under controller positive, because with this setting the module, when is power supplied, it's always turned on.

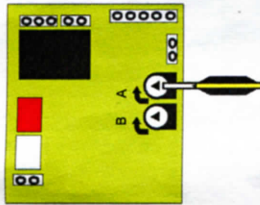


**ATTENTION:**  
THE SETTINGS AND THE REGULATIONS MUST BE DONE  
WITH THE UNIT NOT POWER SUPPLIED

## VOLUME SETTINGS

IPLUGFM allows 2 trimmers on the circuit. The trimmers in object regulate the out volume in order to the right (A) and left (B) channels.

By regulating in clockwise, the out volume is incremented; in anti-clockwise is decremented. ATTENTION: THE VOLUME IS YET SET BY DEFAULT; REGULATE ONLY IN CASE OF AUDIO ANOMALY



**ATTENTION:**  
**THE REGULATIONS AND THE SETTINGS MUST BE DONE WITH THE UNIT NOT POWER SUPPLIED**

## SYNTONIZATION AND MP3 PLAYER CONTROL

With the radio turn on, connect the player to the dedicated module connector .

Play the first track of the library.

(The battery charge will be active only for IPOD with docking connection)

**Select the radio FM band at the frequency 87.7.**

**All managing function of the player you can do directly by the player's command.**

**Memorize the station to simplify the next connections.**

**IPLUGFM manages a RDS static information, that's means that, by memorizing the station 87.7, if the RDS is active, it will be displayed the phrase IPLUGFM.**

**The volume regulation can be done both trough the radio and trough the player.**

## AUDIO QUALITY

IPLUGFM is got to manage audio sources; the reproduction's quality is similar to the CD's one. To obtain this results, it's necessary to allow the audio of origin of excellent quality.

The audio levels on which is got IPLUGFM respect the standards chosen by the most important producers of devices; this means that we'll have a perfect listening result, if for example the tracks are CD burned with the software dedicated to the player whom we have.

In case of bad quality audio, you can survey some alteration (if the recording volume is too much high) or some case of dull audio (if the recording volume is too much low).

## TROUBLESHOOTING

- **The radio band is disturbed.**
- Select the alternative frequency as described at page 2 **SETTING FREQUENCIES.**
- **Changing the frequency the radio doesn't tune the new frequency.**
- Search manually the alternative station.
- **The audio of mp3 file is low or with distortions.**
- Filter MP3 files with MP3GAIN (or any other software to normalize the volume) to normalize the volume. If with JACK or RCA adjust the volume of the device.
- **The output audio is too low/high.**
- Adjust the trimmers as described above.
- **The audio it si not reproduced.**
- Verify that the module is powered, the station is correctly tuned, the antennas right connected and that the player is connected and in play.

THIS PRODUCT IS GRANTED FOR 2 YEARS IN ORDER TO EVERY BUILDING DEFECT.  
AS VALIDITY, YOU MUST CONSERVE THE PURCHASING INVOICE.