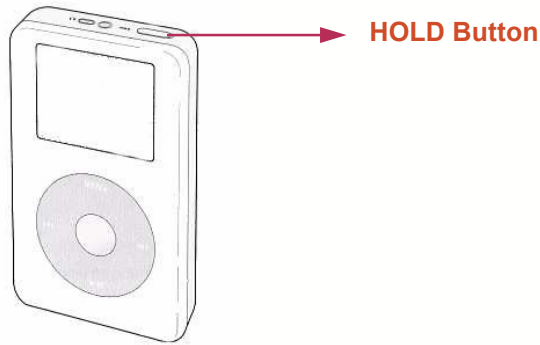


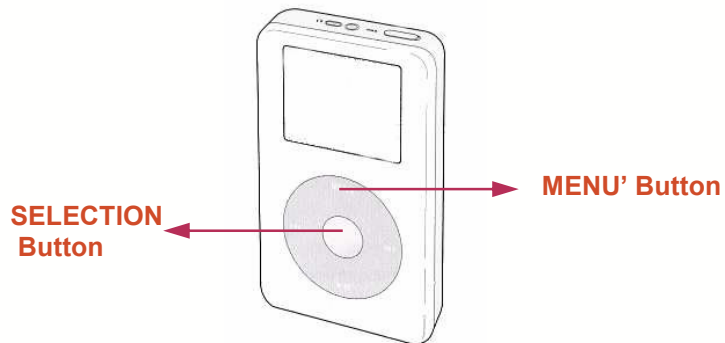
GENERAL INFORMATION

If some troubles occur to the normal function of the iPod, just follow the procedure indicated below in order to RESET the iPod.

1. Switch On and switch Off the HOLD button



2. Press together the MENU' button and the SELECTION button for 6 seconds.



This procedure is described in the original IPOD instruction.

WARRANTY CONDITIONS

IPLUGRDS is covered by a 2-year guarantee.

The guarantee no longer applies following mishandling of the product, improper use, negligence, incorrect installation and damage occurred by atmospheric agents.

The correct working of the equipment is guaranteed at the moment of the sale but no responsibility is taken for any eventual damages following working or signal irregularities and damage or loss with regard to the use of the same.

The right is also reserved to apply modifications or improvements to the product or instructions manual at any time without any warning obligations.

The guarantee form must be accompanied by the fiscal receipt issued by the seller with the date of purchase and the description of the product.

INSTALLATION MANUAL

IPLUGRDS®

UNIVERSAL adapter

for MP3 APPLE® player rev 7.0 IS7

Ipod - Ipod MINI– Ipod nano

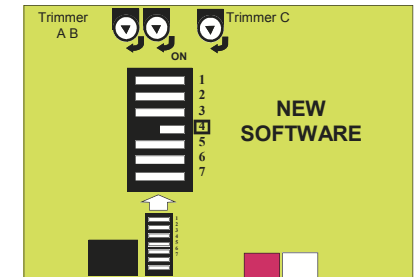
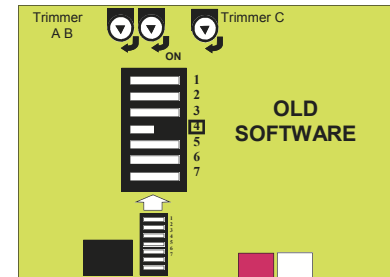


IPLUGRDS is a revolutionary electronic adapter within its market range.

In fact it is possible to interface EVERY OEM or Aftermarket autoradios, with all 4th and 5th generation APPLE iPod Players.

On default IPLUGRDS is set to work with APPLE iPod upgrade software from **2006-06-28**.

For old versions please set PIN 4 ON as below described.



The module has a UNIVERSAL compatibility and we can connect the iPod to it with some simple operations in any type of car.

The UNIQUE characteristic of IPLUGRDS is its capacity to send the song's TITLE directly to the autoradio's display!

This means you will immediately know the song you are going to listen to!

IPLUGRDS is a sophisticated FM modulator, in fact the audio quality is comparable to the **AUDIO CD QUALITY!**

ATTENTION DON'T CONNECT IPOD PLAYER IF ITS BATTERY IS LOW

INSTALLATION AND CONNECTIONS

IPLUGRDS kit is equipped with an electronic unit (A), an iPod connection harness (B) two wires antenna connectors - see DIN ANTENNA (D) and DIN PLUG (C), a REMOTE CONTROL PLUG (E) and a POWER plug (F).

Power connections:

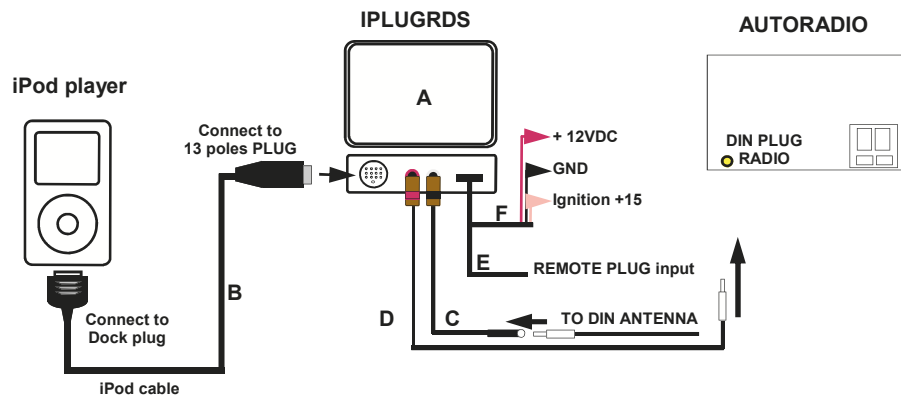
RED = Positive 12 VDC

BLACK = GND

PINK = Ignition Positive

Insert the car's DIN ANTENNA into the module's DIN PLUG (C).

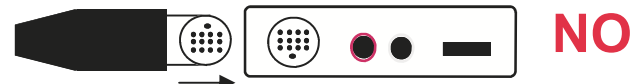
Insert the module's DIN ANTENNA (D) into the radio's DIN PLUG.



ISO AND FAKRA ADAPTERS ARE AVAILABLE SEPARATELY TO CONNECT IPLUGRDS TO ANY KIND OF AUTORADIO



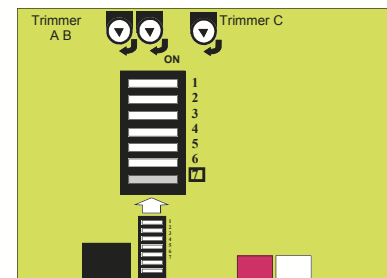
ATTENTION:
INSERT THE 13 POLES CONNECTOR CORRECTLY !



ATTENTION:
ALL THE CONNECTIONS MUST BE CARRIED OUT BY TECHNICIANS.
USE THIS PRODUCT IN VEHICLES WITH 12 VDC BATTERY HAVING NEGATIVE POLE TO THE GROUND. AVOID INTERLACING THE WIRES.
ARRANGE THE WIRES SO THAT THERE IS NO RISK OF BEING CUT OR STRIPPED.

TROUBLESHOOTING

- The default radio band is disturbed.
- Select one frequency available from those described in the section **FREQUENCY SELECTION** on page 4.
- Volume is lower than the volume of the other FM stations.
- Adjust the audio channels by turning the audio trimmers as described in the section **AUDIO SET UP** on page 5.
- By activating the radio TP FUNCTION, the audio turns in MONO.
- Some radios manage the TP FUNCTION in MONO, in this case disable the function as described in the section **TP FUNCTION** on page 6.
- With the player in pause a low noise is heard on the speakers .
- It must separate the Audio GND by setting off dip switch 7.



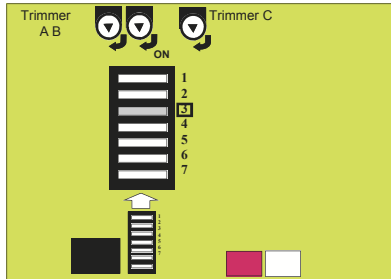
- With ignition off the player still works.
- Verify the right connection of PINK wire
- By changing the frequency (AF Function) the radio doesn't find the right FM station.
- Press the radio key where the IPLUGRDS is memorized, some radios doesn't manage the AF function correctly.

TP FUNCTION

On default, the module manages TP function.

If activated from the radio's menu, the TP function turns the audio source automatically from the cassette or cd, into the pre-memorized radio frequency: this happens as soon as the TP signal is received. This means that during the playing of a cd or a cassette, as soon as we plug the IPOD into the unit, the right station will be set automatically.

To change the TP setup use dip-switch 3 (see TAB 2).



TAB 2	
DIP 3	TP FUNCTION
OFF	AVAILABLE
ON	NOT AVAILABLE



ATTENTION:
SOME RADIOS MANAGE TP FUNCTION WITH MONO AUDIO.
IN THIS CASE IT IS SUGGESTED TO DISABLE THE FUNCTION BY SETTING DIP 3.

AF FUNCTION

The module manages AF function.

If the AF function is activated from the radio's menu, it is possible to change the frequency automatically, if disturbed, into a clear one.

To activate this function press the AF key of the radio. Then if the band frequency is noisy, press IPOD PLAY/PAUSE key 3 times (PLAY/PAUSE - PLAY/PAUSE- PLAY/PAUSE).

Automatically the band frequency will change to the alternative one.

TAB 3	
MAIN FREQUENCY	ALTERNATIVE FREQUENCY (AF)
87,7 MhZ	88.5 MhZ
87,9 MhZ	88.7 MhZ
88,1 MhZ	88.9 MhZ
88,3 MhZ	87,7 MhZ



PLAY-PAUSE X 3

TUNING AND CONTROL OF THE iPod

With the radio switched on, the iPod will turn ON as soon as the dock connector is plugged into the iPod dock socket. The menu will be displayed on the iPod screen.

The battery charge will only be activated if the ignition is switched on.

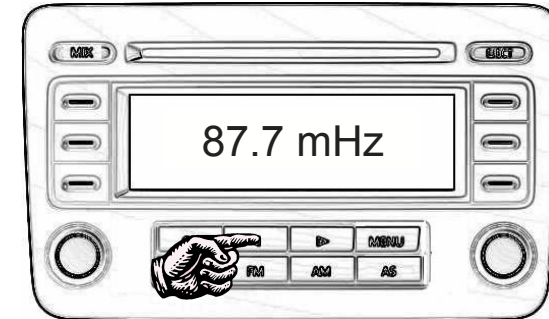
Select the FM band 87.7 frequency, the title of the song played or the word

IPLUGRDS, if the player is in a pause, will appear on the radio's display .

All the functions of the player can be controlled directly from the multifunction pad of the iPod .

Memorize the radio station to simplify future connections!

ATTENTION ACTIVATE THE RDS FUNCTION!



Select the song to listen to directly from multifunction iPod pad, the playing will start in a few seconds after the selection.

Use the volume knob of the autoradio to change the VOLUME.

By switching off the ignition, the iPod will switch off too.

In order to listen to the music with the ignition off, it is necessary to disconnect and reconnect the iPod from the dock connector.



AUDIO QUALITY

IPLUGRDS is designed to manage the audio files preloaded into the iPod, the audio quality is comparable to the CD audio quality.

To obtain this it is necessary to have high quality files.

The audio levels with which IPLUGRDS give the best results, follow the parameters chosen by APPLE, in this way, perfect audio it is obtained by recording our audio CD with iTunes.™

Otherwise, the quality is good, even if a big volume difference can be found from one file to another. In the case of bad quality files, distortion can be found if the volume of recording is too high, or deep audio if the volume of recording is too low.

RDS TEXT MANAGEMENT

At the beginning of each song, IPLUGRDS will not only send to the radio the audio data but also the TEXT data of each file.

In this way it will be possible to see the name of the file on the autoradio display.

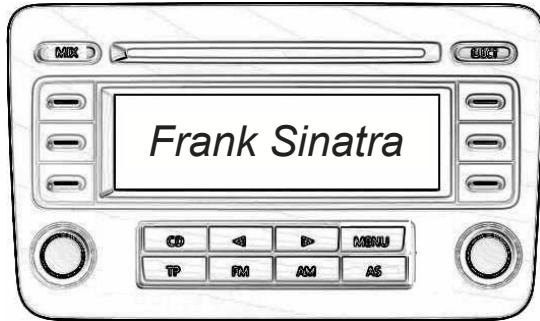
Usually the name of the file is the TITLE of the song as well.

The maximum number of characters supported and displayed by the unit for each name is 24.

The autoradio display usually supports a maximum of 8 characters at a time, for this reason

IPLUGRDS slides down the titles in order to obtain complete displaying.

It is suggested to give each file a name with a max of 24 characters, please don't use letters with an accent, because not all radios have the same alphabetic set.



ATTENTION:
THE CREATION OF THE PLAYLIST, ARTIST, ALBUM and GENRES LISTENING GROUPS CAN BE UNDERTAKEN WITH THE SOFTWARE SUPPLIED WITH THE iPod.
IF THE INFORMATION IS MISSING OR DAMAGED THE RDS COULD BE INCORRECT OR MISSING

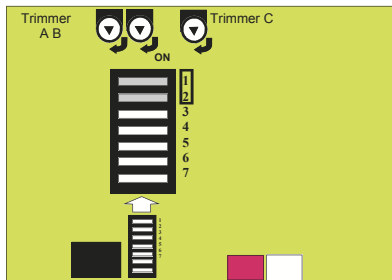
FREQUENCY SELECTION

On default the modulating frequency is fixed on 87.7 Mhz.

IPLUGRDS has a band selector on the circuit that allows you to set up to 4 different frequencies.

To set a new frequency modulation, use the dip-switches 1 and 2 of the selector.

Each combination of these two dip-switches will set the frequencies as described in TAB 1.



TAB 1		
DIP 1	DIP 2	FREQUENCY
OFF	OFF	87,7 MhZ
ON	OFF	87,9 MhZ
OFF	ON	88,1 MhZ
ON	ON	88,3 MhZ

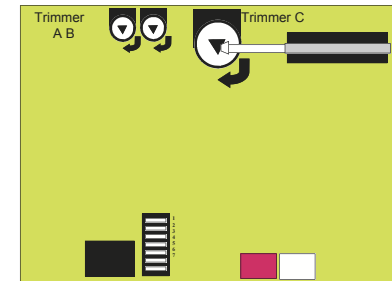
RDS SETUP

On default the module is set to send the RDS data following the standard used by the most part of autoradio manufacturers.

Otherwise it is possible that some autoradio models don't display the RDS data correctly.

In this case adjust the RDS signal through trimmer C.

To increase the RDS signal, turn trimmer C clockwise.



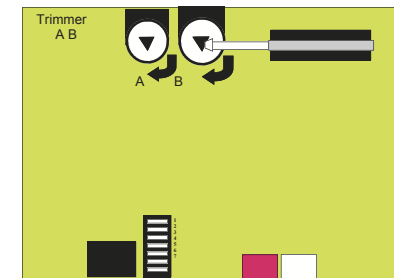
ATTENTION:
BE CAREFUL TO ADJUST THE RDS SIGNAL.
TOO MUCH SIGNAL CAN GENERATE BUZZING IN THE AUDIO SYSTEM.

AUDIO SETUP

On default the module is set to send the AUDIO signals following the standard used by the most part of autoradio manufacturers.

If it is necessary to increase or decrease the AUDIO signal, adjust trimmer A to set the right audio channel and trimmer B to set the left audio channel.

To increase the AUDIO signal, turn trimmer A or B clockwise.



ATTENTION:
BE CAREFUL TO ADJUST THE AUDIO SIGNALS.
TOO MUCH SIGNAL CAN GENERATE DISTORSION IN THE AUDIO SYSTEM.