



## IL-FM

# UNIVERSAL IOS LIGHTNING ADAPTER INSTALLATION GUIDE FOR ANY FM RADIO

Created August 1, 2021  
Revised December 28, 2023

## PRODUCT SAFETY & DISCLAIMER

READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING, FAILURE TO DO SO MAY CAUSE PERSONAL INJURY OR DAMAGE TO PRODUCT AND/OR PROPERTY

- This installation guide is provided as a GENERAL installation guide, some vehicles vary and may require additional steps. We do not accept responsibility for third party labor charges or modifications. Exercise due-diligence when installing this product.
- We do not accept any responsibility for vehicle damage or personal injury resulting from the installation of this product.
- Careless installation and operation can result in equipment damage.

## Requirements:

ANY VEHICLE WITH FM RADIO

## Introduction

Thank you for choosing the IL-FM as your audio input solution. The IL-FM is designed to provide the connecting link between your Apple iOS device and FM radio. Using the supplied accessories, you will be able to connect, charge and play all Apple iOS devices (Except Nano 7G) on any radio with a FM band The IL-FM; (unlike wireless FM transmitters) connects directly to the radio antenna socket to provide high quality sound as you would expect from a commercial FM radio station.

See **Frequently Asked question** at the end of this guide for more details.

## Installation

The IL-FM is designed to install in line with the radio antenna usually located on the back of the radio but in some cases this connection may be at a remote radio tuner location (Please check your vehicle prior proceeding)

1. Remove radio from dashboard (Radio removal instructions are not part of this guide but may be available upon request)

**Warning:** This modulator connects to FM antenna Motorola (DIN) terminals (See Fig. 1). Vehicles with proprietary antenna terminals, requires an [antenna adapter](#) kit (sold separately)



Fig. 1

2. Disconnect OE antenna terminal from radio
3. Connect OE antenna terminal to antenna socket on IL-FM  
**Note:** If vehicle has a proprietary antenna plug, use adapter (sold separately) to convert proprietary antenna to standard as seen in Fig. 1
4. Connect IL-FM antenna plug to radio antenna socket.  
**Note:** If radio has a proprietary antenna socket; use adapter (sold separately) to convert proprietary radio antenna socket to standard as seen in Fig. 1
5. Select the FM frequency to access audio device. On the side of IL-FM module there is a two-position switch (See Fig.2)  
If a local radio station occupies either of these frequencies (87.9 or 88.3); move the switch to the position that does NOT match local station and make a note of selected frequency. We recommend setting one of the radio's FM preset buttons to the selected frequency.

87.9MHz    Δ    88.3MHz  
Tuning Frequency

Fig. 2

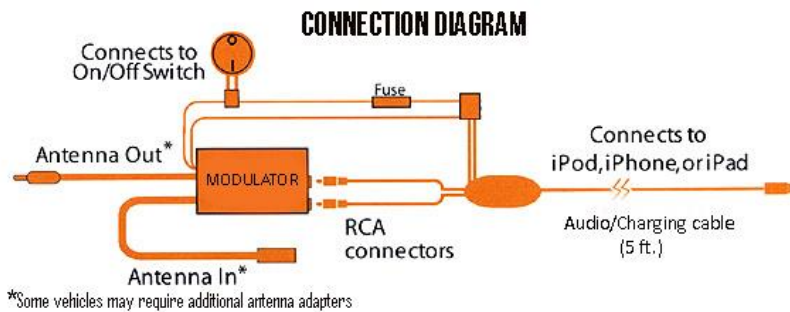
6. Locate 12V+ and ground wires behind the radio.
7. Connect the IL-FM red wire to 12V+
8. Connect the IL-FM black wire to ground

- The supplied rocker switch (See **Fig. 3**) is used to turn modulator ON/OFF. In the ON position, the IL-FM will interrupt incoming antenna signal to deliver the cleanest signal possible from IOS device through your FM radio. To regain standard AM/FM reception; move switch to OFF position.

**Note:** Regardless of switch position; the Lightning plug will always provide charging power to IOS device.



**Fig. 3**



**Fig. 5**

- Following diagram in **Fig.5**:  
Connect lightning cable RCAs (See **Fig. 6**) to left/right inputs on modulator



**Fig. 6**

- Connect Red wire to vehicles' power supply and black to ground
- Run/route lightning plug (See **Fig. 7**) to desired location on dashboard, glove box, console etc. (within 5 ft. of radio). **Use caution to not cut, pinch or crimp the cable during this step.**



**Fig. 7**

- Secure lightning cable in a location away from heat, humidity, moving parts, or sharp metal objects. **Damage to lightning plug may occur if subject to abuse.**

## Operation

1. Turn ignition and radio "ON"
2. Press radio button to select FM Band
3. Tune radio to FM Frequency selected in step 5 above.  
**Tip:** Now may be a good time to store selected frequency in one of the radios memory preset buttons for easy recall.
4. Turn toggle switch to "ON" position (I)
5. Connect IOS device to lightning plug
6. Device should begin charging
7. Put audio device in play mode
8. Control/select track and playlist using device built-in controls (Factory radio buttons are used to set playback level)

**Warning:** Playlist and Track selection is \*NOT\* possible from radio buttons. Use audio devices built-in controls to access and control audio files and selection

9. If correct operation is confirmed go ahead and reinstall radio

## Frequent ask questions & troubleshooting

1. **How do I know if OE radio needs additional antenna adapters?**  
You can either [email us](#) vehicle information (make/model) or remove radio and check. Most foreign vehicles require antenna adapter as do many newer domestic vehicles.
2. **Does the IL-FM work in all vehicles?**  
**YES;** so long vehicle has an FM radio.
3. **Will I be able to make phone calls?**  
**NO.** IOS device will mute during call. You must answer call using handset. Playback resumes upon ending call.
4. **How to I access music played from iPhone?**  
Turn radio to FM band and tune to either 87.9 or 88.3 MHz. For easier access we recommend storing the selected frequency to a radio present button.
5. **Do I need to install the switch or can it be left in the "ON" position?**  
We recommend installing the rocker switch. If for some reason you do not want to install it, you may opt to leave hidden behind the dash in the "ON" position, but you will not be able to tune stations broadcasting on the selected frequency (87.9 or 88.3)
6. **Do you offer a music streaming option for my GM with XM module?**  
**YES,** See our [A2D-GM3x](#)
7. **After connecting everything, playback is noisy/humming. Any ideas?**  
Ensure audio device volume is set to 80% or more. When listening to XM (if subscribed) ensure audio jack is empty. If engine noise, please install a [noise filter](#).

### Disclaimer

- This product has no affiliation with Apple
- We're not liable for misuse of this product.
- Whenever possible professional installation is recommended.

Email [support@discountcarstereo.com](mailto:support@discountcarstereo.com)

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