

Purpose

The GMPD2 lets you connect and control an Apple iPod directly from the controls on your factory GM radio. All factory options, including XM, continue to operate!

Features

The GMPD2 uses a simple “Y” or “T” harness for installation using factory connectors. There is *no need* to cut or splice any wires, including power and ground!



The GMPD2 works in the following vehicles:

BUICK		Malibu	2003	ISUZU	
Allure*	2005-2007	Monte Carlo	2003-2005	Ascender	2004-2008
Century*	2004-2005	Pickup HD Classic	2003-2007	I-Series*	2006-2008
LaCrosse*	2005-2008	Silverado/Classic	2003-2007	OLDSMOBILE	
Lesabre*	2004-2005	S10	2004	Alero	2003-2004
Lucerne*	2003-2005	SSR	2004-2006	Bravada	2003-2004
Park Avenue*	2003-2005	Suburban	2003-2006	Silhouette	2003-2004
Rainier*	2004-2007	Tahoe	2003-2006	PONTIAC	
Rendezvous*	2003-2007	Trailblazer	2003-2008	Aztek	2003-2005
Terraza*	2005-2007	Uplander*	2005-2008	Grand Am	2003-2005
CADILLAC		Venture	2003-2005	Grand Prix	2004-2007
Escalade/EXT/ESV	2003-2006	GMC		Montana	2003-2007
SRX*	2004-2006	Canyon	2004-2008	Sunfire	2003-2005
XLR/XLR-V*	2004-2006	Envoy	2003-2008	Torrent*	2006
CHEVROLET		Jimmy	2004	Vibe	2004-2007
Avalanche	2003-2006	Savana	2003-2008	SAAB	
Cavalier	2003-2005	Sierra/Denali/HD/Classic	2003-2007	9.7x*	2005-2008
Colorado	2004-2008	S15	2004	SATURN	
Corvette*	2005-2008	Yukon/Denali/XL	2003-2006	Relay*	2005-2007
Equinox*	2005-2006	HUMMER			
Express	2003-2007	H2*	2003-2007		
Impala	2003-2005	H3*	2006-2008		

*Vehicle must be XM Radio Ready

Note: Your radio must have a **BAND** button to be compatible with the GMPD2. Check www.soundgate.com for the most current compatibility information.


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Before You Start

WARNING

DO NOT DISASSEMBLE OR ALTER

Doing so may result in an accident, fire, or electric shock.

Do not block your view

Do not mount product or any added audio/video equipment where it can block your view through the windshield or block your view of dashboard indicators and displays.

Do not block safety devices

Do not mount product or any added audio/video equipment where it can obstruct the operation of any safety device, such as the airbag.

Distraction warning


Do not allow product or any added audio/video equipment to distract you while you are driving.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL

Before starting any installation work , wait 90 seconds after turning the ignition switch to the LOCK position and disconnecting the negative (-) terminal from the battery. The supplemental restraint system (SRS), or airbag(s) is equipped with a backup power source. If installation work is started less than 90 seconds after disconnection of the negative (-) battery terminal, the SRS may deploy. When the negative (-) terminal cable is disconnected from the battery, the clock and audio systems' memory may be erased. Before starting installation work, make a record of the clock and audio systems' memory settings. When installation is complete, reset the clock and audio systems to their previous settings. Power tilt, power telescopic steering column, power seats, power mirrors, power shoulder belt anchorage, and other power accessories may or may not be equipped with a memory function; consider keeping a record of these settings as well.

When installation is complete, readjust the features to their previous settings. Never use a backup power supply (such as another battery) during installation work in an attempt to avoid losing these memory settings.

Before You Start

CAUTION

DO NOT SPLICE INTO ELECTRICAL CABLES

Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and may result in fire or electric shock.

DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS

Cables or wiring that obstruct or get caught on places such as the steering wheel, shift lever, brake pedals, etc. can be extremely hazardous.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST

Moisture or dust may result in product failure.

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS

The wiring and installation of this product requires special technical skills and experience.

USE ONLY SPECIFIED ACCESSORY PARTS

Use of other than specified parts may damage product internally.

FOLLOW THE OPERATIONAL AND INSTALLATION MANUALS.

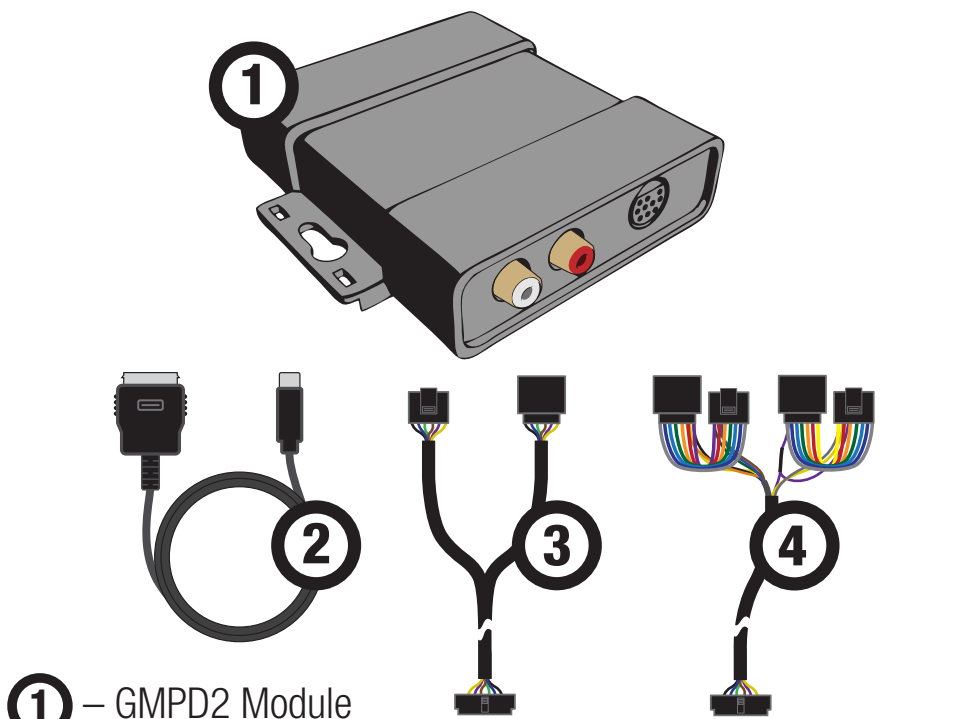
YOU SHOULD READ AND FAMILIARIZE YOURSELF THOROUGHLY WITH THE FOLLOWING INFORMATION PRIOR TO INSTALLING AND USING THIS UNIT. IN ADDITION, YOU MUST CAREFULLY READ AND FOLLOW THE INSTALLATION SCHEMATICS AND INSTRUCTIONS FOR THE PRODUCT AND THE VEHICLE IN WHICH IT IS BEING INSTALLED. FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS MAY DAMAGE THE PRODUCT AND THE VEHICLE, WILL VOID THE PRODUCT WARRANTY, AND MAY VOID THE VEHICLE WARRANTY.

CHECK YOUR LOCAL LAWS

Some States/Provinces or other governmental jurisdictions (such as cities) may have laws that prohibit the operation of a video screen within the sight of the driver. If you have purchased such a product, you should use the product only in locations where it is legal to do so, and if you do use the product, set up the screen so it is only visible to passengers.

TROUBLESHOOTING

Should this product fail to operate properly, please contact your Dealer or SoundGate Technical Support at 800-256-0808, or email us at sgtech@soundgate.com.



1 – GMPD2 Module

2 – Apple iPod dock connector

3 – “Y” harness (for radios *with* factory XM)

4 – “T” harness (for radios *without* factory XM)

Note: More than one “T” harness is included. Please read the INSTALLATION section for details on which harness you should use for your vehicle.

Before You Start

iPOD Details

The GMPD2 is designed to interface only with the GM vehicles listed on the front of this manual and the Apple iPod (4th generation and later), iPod Mini, iPod Nano, iPod Photo, and iPod Video.

We recommend that you turn on your iPod’s *SoundCheck* option. On certain factory radios, you may experience audible distortion if *SoundCheck* is not turned on.


Installation Overview

Please read this section fully and follow these steps closely to ensure that the GMPD2 functions correctly upon installation. The basic install procedure is outlined below (detailed steps are presented in the *INSTALLATION* section of this manual).

- Configure DIP switches on GMPD2 module.
- Connect “T” harness to factory radio (or “Y” harness to factory XM module).
- Connect “T” (or “Y”) harness to GMPD2 module.
- Connect iPod dock connector cable (and optionally connect an AUX input source) to GMPD2 module.
- Mount the GMPD2 module.
- Connect iPod to GMPD2 iPod dock connector cable.

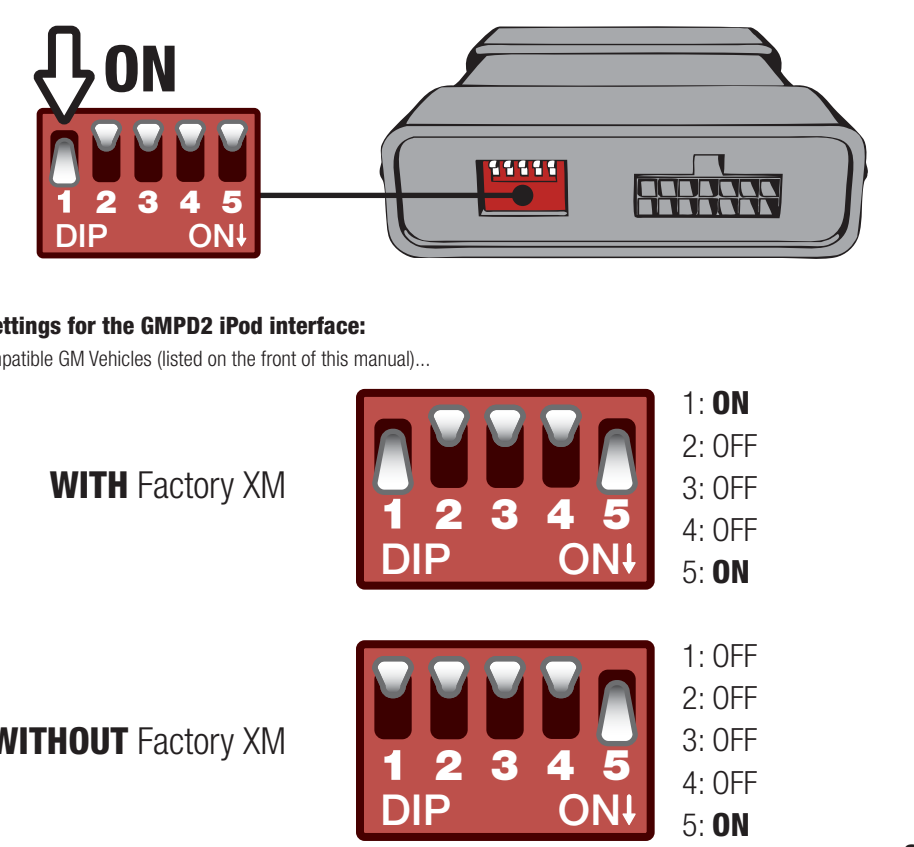
Configuration

The GMPD2 must be configured before installation and use. On the rear side of the GMPD2 module is a series of five small, DIP-style switches that must be set to a specific combination of **ON** and **OFF**, depending upon whether or not your vehicle has a factory-equipped XM tuner. Use the diagrams below to configure the DIP settings for your vehicle.

IMPORTANT

During configuration of the DIP switches, no cables should be connected to the GMPD2 module. If you change DIP switch settings while cables are connected, you must unplug the cables and reconnect them before the changes will take effect. This is especially important to remember if transferring the GMPD2 from one vehicle to another, as re-programming the DIP switches may be necessary.

Five DIP switches are located on the rear of the GMPD2. To configure a switch to the **ON** position, press the switch **downward**. Press the switch **upward** for the **OFF** position. In this example, switch 1 is turned **ON**.

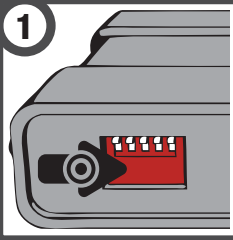


2

3

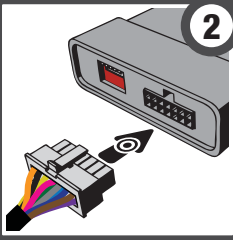
Installation

1



Configure DIP switches (see previous section).

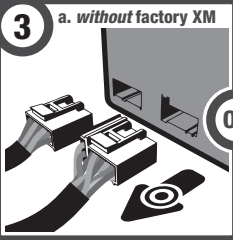
2



Connect appropriate "T" or "Y" harness to GMPD2 module (see below for details on which harness you should use).

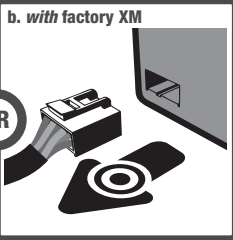
3

a. without factory XM



Disconnect double multi-pin factory connectors from your factory radio (see below for details).

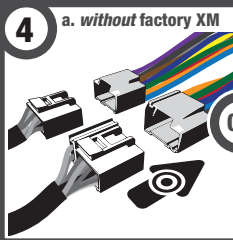
b. with factory XM



Disconnect 16-pin factory connector from your factory XM module.

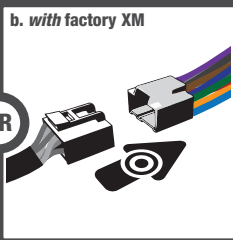
4

a. without factory XM



Connect double multi-pin factory connectors to matching locations on the GMPD2 "T" harness.

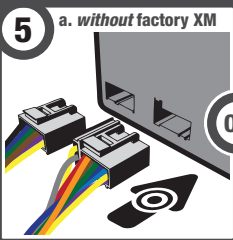
b. with factory XM



Connect 16-pin factory connector to matching location on the GMPD2 "Y" harness.

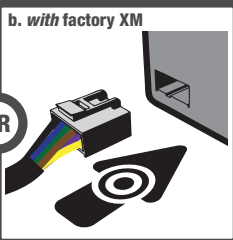
5

a. without factory XM



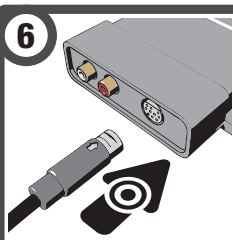
Connect GMPD2 "T" harness to factory radio.

b. with factory XM



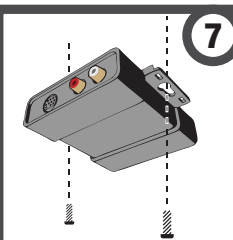
Connect GMPD2 "Y" harness to factory XM module.

6



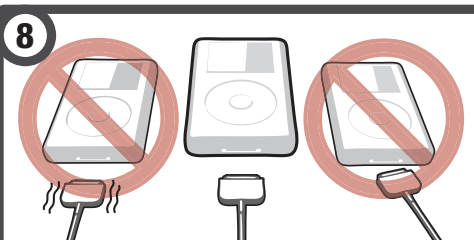
Connect iPod Dock cable to the GMPD2. You may optionally connect an AUX input source as well.

7



Mount the GMPD2 (behind dash or glove compartment). Be careful not to drill into wiring or vehicle mechanisms.

8



Connect iPod to GMPD2 iPod dock connector. Plug the connector in straight. Do not insert the cable at an angle or wiggle the cable during insertion.

Detailed Installation Guide

STEP 1

Turn your vehicle off and disconnect the negative terminal of your battery. Configure the DIP switches on the rear of the GMPD2 module (see page 3 for details).

STEP 2

If your vehicle **is not** equipped with a factory XM tuner, connect the included "T" harness to the GMPD2 module and use the following steps suffixed with **a**. You may need to skip ahead to step **3a** to determine which included "T" harness to use. If your vehicle **is** equipped with a factory XM tuner, connect the included "Y" harness to the GMPD2 module and use the following steps suffixed with **b**.

STEP 3a

If your vehicle **is not** equipped with a factory XM tuner, the GMPD2 will interface directly to the back of your factory radio. Consult factory literature or professional help for detailed radio access information. Generally, the trim panel around the outside of the radio will pull free on late model radios, exposing the bolts holding the radio in place. Remove the bolts (7mm) to view the desired connections (other radios may require extra panels to be removed before the back of the radio can be viewed). The radio may contain several connectors, but only two will match the connectors on one of the included GMPD2 "T" harnesses. Locate the matching connectors and disconnect them from the factory radio. These connectors are typically 14-pin and 16-pin; however, depending upon the vehicle, the number of pins may differ. Ensure that you only disconnect the connectors that match the GMPD2 "T" harness.

STEP 3b

If your vehicle **is** equipped with a factory XM tuner, the GMPD2 will interface directly with your factory XM module. Locate the XM module in your vehicle or consult with a professional for help. Typically, the XM module is located behind the glove compartment in SUVs or in the back deck in cars and "crossover" vehicles. The XM module has a single 16-pin connector and an antenna connected. Disconnect the 16-pin connector from the factory XM module.

STEP 4a

Connect the factory 14-pin and 16-pin connectors that you disconnected from the radio in step **3a** to the matching locations on the GMPD2 "T" harness.

STEP 4b

Connect the factory 16-pin connector that you disconnected from the XM module in step **3b** to the matching location on the GMPD2 "Y" harness.

STEP 5a

Connect the remaining 14-pin and 16-pin connectors on the GMPD2 "T" harness to the matching locations on the back of the factory radio.

Installation

STEP 5b

Connect the remaining 16-pin connector on the GMPD2 "Y" harness to the matching location on the factory XM module.

STEP 6

Connect the iPod dock connector cable to the GMPD2 module. You may also connect an optional AUX input to the RCA connectors on the GMPD2 module (white = LEFT, red = RIGHT).

STEP 7

Mount the GMPD2 module either behind the dash or glove compartment (mounting hardware not included). Be careful not to drill into wiring or vehicle mechanisms. You are solely responsible for securely fastening the GMPD3 in your vehicle. Ensure that the iPod dock connector is left in a convenient place for connection to your iPod/iPhone.

STEP 8

Connect your iPod to the GMPD2 dock connector. Plug the connector in straight. Do not insert the cable at an angle or wiggle the cable during insertion.

Operation

Operation Instructions

The following instructions will demonstrate how to navigate through your iPod music and playlists using the controls on your factory radio. The factory radio controls and their corresponding functions are illustrated here; however, please note that these examples only represent the most common GM "Class II" radio interfaces—your radio's controls may differ slightly. Please use the following section as a general operational guide for the GMPD2 interface and the following GM "Class II" radios.


GM "Class II" Standard Radio

- Press and hold **Preset 6** to switch between factory XM and iPod/AUX input.
- Using the **BAND** button, select XM1 for iPod; select XM2 for AUX input.
- Turn the **P-TYPE** knob to display and advance through iPod playlists.
- Select a displayed playlist with **SEEK**.
- Use the **SEEK** buttons to move forward or back through the current playlist.
- Press and hold the **SEEK** buttons to FF or RW. Press the buttons again to stop FF/RW.
- During playback, turn the **TUNE/DISPLAY** knob to advance through songs by increments of 10. Press the knob to display Song number, Name, Artist, and Album.

GM "Class II" 6CD Radio

- Press and hold Preset 6 to switch between factory XM and iPod/AUX input.
- Using the **BAND** button, select XM1 for iPod; select XM2 for AUX input.
- Press **P-TYPE** to display iPod playlists. Use the **TUNE** knob to advance through playlists.
- Select a displayed playlist with **SEEK**.
- Use the **SEEK** buttons to move forward or back through the current playlist.
- Press and hold the **SEEK** buttons to FF or RW. Press the buttons again to stop FF/RW.
- During playback, turn the **TUNE/DISPLAY** knob to advance through songs by increments of 10. Press the knob to display Song number, Name, Artist, and Album.

GM "Class II" Radio w/ LCD (non-Touch-screen)

- Press and hold the **Lower Right Button** to switch between factory XM and iPod/AUX input.
- Using the **BAND** button, select XM1 for iPod; select XM2 for AUX input.
- Press the **Up** button on the navigation joystick [] to display and advance through playlists. Select a displayed playlist with navigation joystick's **Center Button**.
- Use the **SEEK** buttons to move forward or back through the current playlist.
- Press and hold the **SEEK** buttons to FF or RW. Press the buttons again to stop FF/RW.

GM "Class II" Radio w/ LCD Touch-screen Interface

- Press and hold the **Lower Right Button** to switch between factory XM and iPod/AUX input.
- Using the **BAND** button, select XM1 for iPod; select XM2 for AUX input.
- Once the iPod is selected as your XM1 device, press the **SELECT** buttons to display and advance through iPod playlists.
- Select a displayed playlist with **SEEK**.
- Use the **SEEK** buttons to move forward or back through the current playlist.
- Press and hold the **SEEK** buttons to FF or RW. Press the buttons again to stop FF/RW.
- During playback, turn the **TUNE/DISPLAY** knob (on the lower lefthand side of your radio) to advance through songs by increments of 10. Press the knob to display Song number, Name, Artist, and Album.

Operation

GM "Class II" Corvette Radio w/ LCD Touch-screen Interface

- Press and hold the **Lower Right Button** to switch between factory XM and iPod/AUX input.
- Using the **XM 1/2** button on the touchscreen's source list, select XM1 for iPod; select XM2 for AUX input.
- Once the iPod is selected as your XM1 device, press the **CAT** buttons on the touchscreen to advance through iPod playlists.
- Select a displayed playlist with **SEEK**.
- Use the **SEEK** buttons to move forward or back through the current playlist.
- Press and hold the **SEEK** buttons to FF or RW. Press the buttons again to stop FF/RW.
- During playback, Press the **INFO** button on the touchscreen to display Song number, Name, Artist, and Album.

GM "Class II" Equinox Radio

- Press and hold Preset 6 to switch between factory XM and iPod/AUX input.
- Using the **BAND** (or **XM/AUX**) button, select XM1 for iPod; select XM2 for AUX input.
- Press **P-TYPE** to display iPod playlists. Use the **TUNE** knob to advance through playlists.
- Select a displayed playlist with **SEEK** (or **SEEK**).
- Use the **SEEK** (or **SEEK**) buttons to move forward or back through the current playlist.
- Press and hold the **SEEK** (or **SEEK**) buttons to FF or RW. Press the buttons again to stop FF/RW.
- During playback, turn the **DISPLAY ADJUST** knob to advance through songs by increments of 10.
- During playback, press the **MSG** button to display Song number, Name, Artist, and Album.

Why SoundGate Dealers have the edge...

The technologies used in today's vehicles are as sophisticated as any laptop computer. At SoundGate we believe these new technologies are full of opportunities for mobile electronic dealers across the nation. We make it a high priority to not only research these new systems, but to understand them and their impact on the aftermarket car audio industry. Armed with this knowledge, we are well equipped to help you integrate new components into these systems with our innovative, high-performance interfaces and unparalleled technical support.

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- Auxiliary Input Interfaces and Docking Stations which allow you to input audio from MP3 Players, DVD/Video, Satellite Radio, and more to OEM and aftermarket car audio systems
- High-performance Radio Replacement
- Interfaces for seamlessly integrating new receivers or CD players into OEM audio systems
- Competition-Grade Interfaces for adding amplifiers
- Remote Audio Control Interfaces that let you control aftermarket receivers and CD players from your factory rear seat, or steering-wheel mounted audio controls.
- And many others!

4

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6