



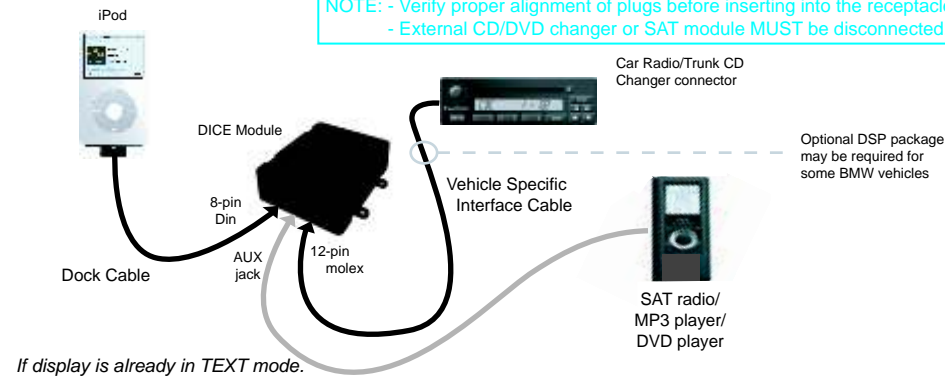
GM iPod Integration Kit

rev. IGM032207

### Connection Diagram.

For detailed installation instructions, please visit <http://support.diceelectronics.com>. Here, you will find the latest information and instructions regarding the installation of your DICE Electronics iPod Integration Kit.

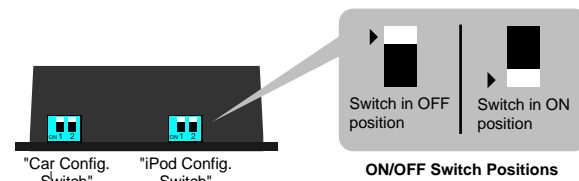
**NOTE:** - Verify proper alignment of plugs before inserting into the receptacles!  
- External CD/DVD changer or SAT module **MUST** be disconnected!



**CAUTION:** There may be more than one 3-pin plug if the vehicle is cellular phone ready; see supplement!

### Dip Switch Configuration.

The dip switches located on the DICE module are used to configure how the iPod will interface and function with the radio.



### Introduction.

Factory radio compatible iPod integration from DICE! Connect the iPod to your vehicle's factory entertainment system and hear what an iPod should sound like. CD quality sound\* and controls from your radio, steering wheel or the iPod. DICE keeps your iPod charged and ready to go. Radios supporting CD-text will also display text from your iPod, allowing you to view song title and artist name right on your radio's display.\*\* Please note that FM-RDS text display does not guarantee CD-text support!

\* Sound quality depends on the quality of the music on the iPod.  
\*\* CD Text may not be available on all text capable radios. Check compatibility guide for complete details.

### Warning!

Do not allow the Apple iPod to distract you from driving! Only operate the unit when stationary or ask passengers to operate it for you. Neither DICE Electronics, LLC., Apple Computer, Inc., its regional offices, distributors or resellers accept any responsibility for any damage or injury as a result of using the DICE iPod Integration Kit. The use of this product constitutes your acceptance of our terms and conditions.

Exercise good judgment and keep your eyes on the road at all times!

### Getting Started.

#### Is Your iPod Up To Date?

Before you start, please check your iPod firmware version. For a complete list of supported iPod firmware versions, please visit <http://support.diceelectronics.com>.

### Important!

To take full advantage of our quick music browsing system, you must have your music organized in playlists on your iPod before using your DICE iPod Integration Kit.

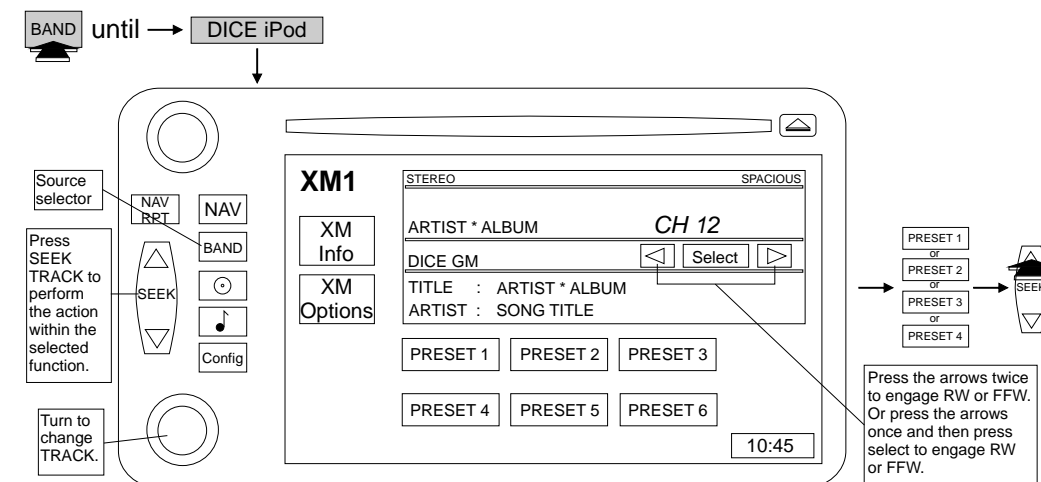
Make sure that the XM info T/O and the Category Seek are OFF.

If the module is inoperative after your visit to the GM dealership for service, cycle the ignition 5 times to reinitialize the module.

### Charging.

The DICE iPod integration kit automatically charges your iPods battery.

### Easy access - GM radio with navigation



### Car Configuration Switch.

The features of this switch are currently inactive.

| Selected Mode | Dip Switch # Position |     |
|---------------|-----------------------|-----|
|               | 1                     | 2   |
| Default       | OFF                   | OFF |

### iPod Configuration Switch.

Vehicle with navigation

| Selected Mode | Dip Switch # Position |     |
|---------------|-----------------------|-----|
|               | 1                     | 2   |
| with NAV      | OFF                   | OFF |

Vehicle without navigation

| Selected Mode | Dip Switch # Position |    |
|---------------|-----------------------|----|
|               | 1                     | 2  |
| without NAV   | OFF                   | ON |

OR

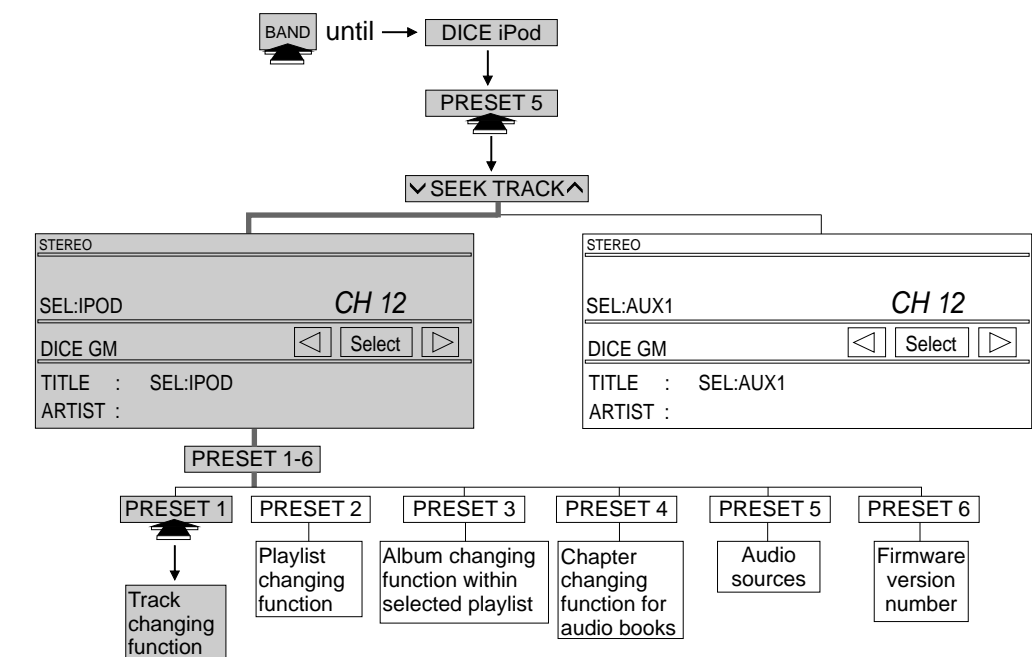
| Selected Mode | Dip Switch # Position |     |
|---------------|-----------------------|-----|
|               | 1                     | 2   |
| without NAV   | ON                    | OFF |

### Supported iPods.

| iPod  | Limitations  |
|-------|--|
| 3G    | Must have FW version 2.3 Does not support Albums and Chapters. FF/RW does not work from radio. |
| 4G    | Must have FW version 3.1.1   |
| Photo | Must have FW version 1.2.1   |
| Video | Must have FW version 1.1.1   |
| nano  | Must have FW version 1.1.1   |
| mini  | Must have FW version 1.4.1   |

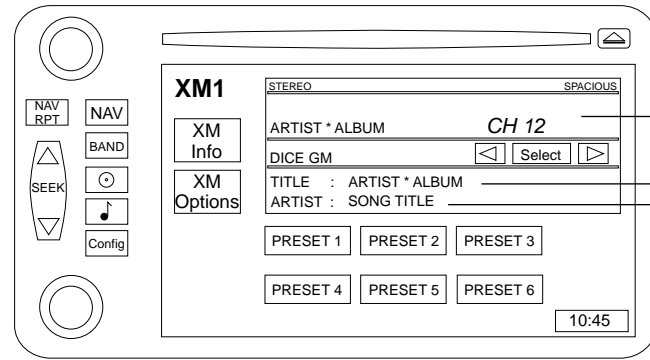
### General operation of a GM radio with navigation

Press the BAND button to access the DICE interface and its features. Pressing this button repeatedly will cycle through sources. When the DICE interface is active, use PRESET 5 and then select iPod audio source by pressing SEEK TRACK.

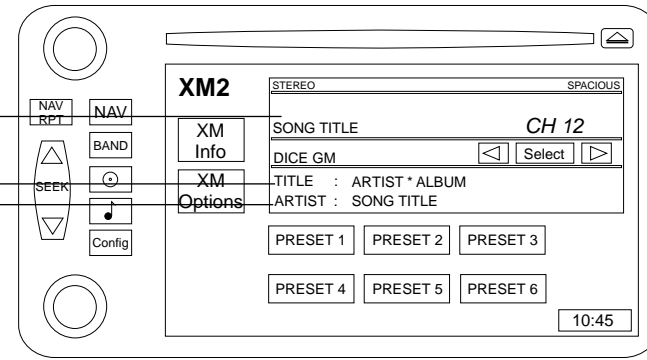


## TEXT display functions in GM radios with and without navigation (XM1 and XM2)

Both in XM1 and XM2 audio source you can access and control your iPod from the radio, the steering wheel or the iPod. However, the TEXT displayed on the navigation screen will change in each source. In the non-navigation radios press the DISP button to change between TEXT field.



XM1: Main TEXT field displays title TEXT field.

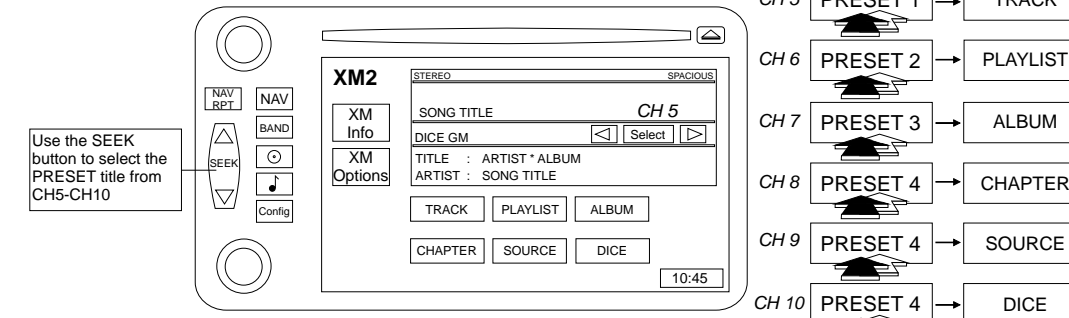


XM2: Main TEXT field displays artist TEXT field.

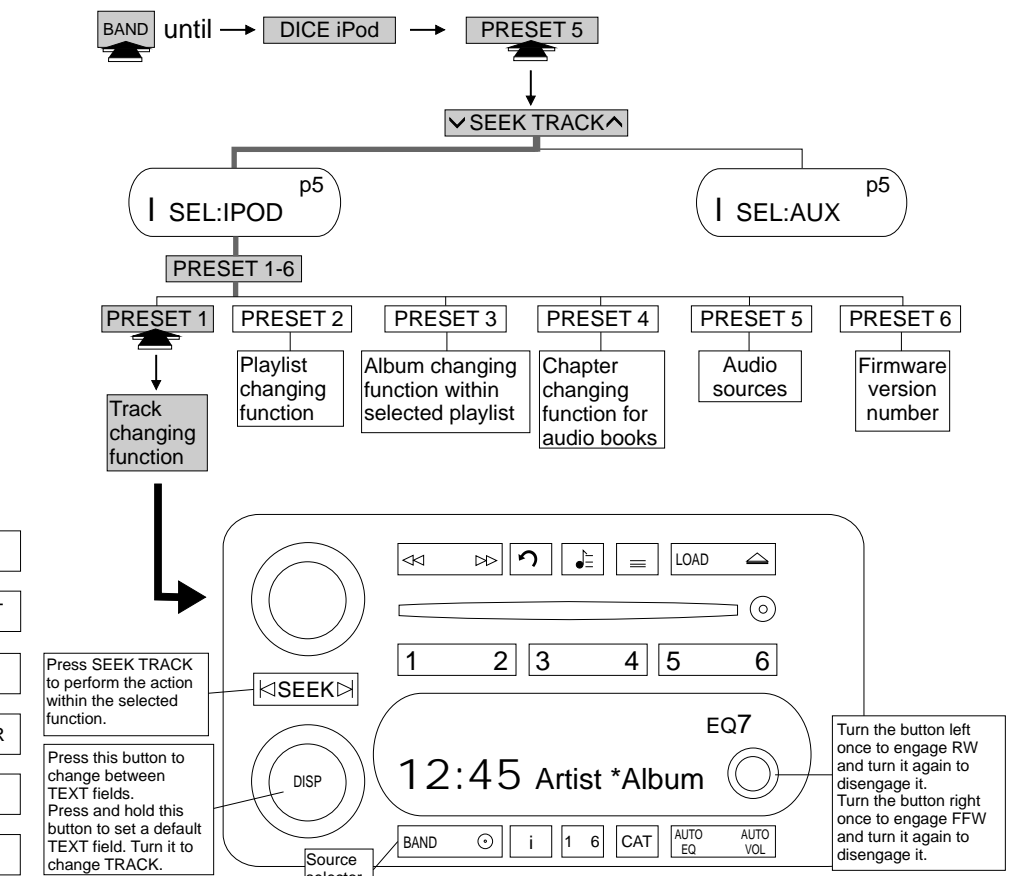
## Easy access - GM radio without navigation



## Programming the PRESET buttons



## General operation of a GM radio without navigation



## Auxiliary Input.

### Selecting the AUX Source.

Selecting PRESET 5 and then pressing the next track or previous track buttons will toggle between the iPod and an auxiliary audio device. Auxiliary device support doesn't include controls from the radio or charging. While DISC 5 is selected track 1 indicates that the iPod is selected and track 2 indicates that the AUX source is selected.

### AUX Source Settings.

The auxiliary input has settings for gain, bass and treble in order to optimize sound.

**Gain.** Should be adjusted if the input level from the auxiliary device is too low or too high. If you hear distorted audio while playing the auxiliary device, you need to reduce (-) the gain setting. If you notice the audio is too quiet while listening to an auxiliary device, the gain setting should be increased (+). Default settings are "50" ("68" is default for gain) and values may be adjusted between 01-99.

**Bass, Mid and Treble.** Should be adjusted to personal preference.

### Making the Adjustments.

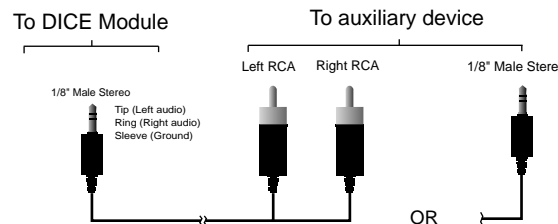
While listening to the auxiliary device, the next/previous buttons will adjust gain, bass, mid and treble. The DISC 1-4 modes select what functionality your next/previous buttons will have. See the matrix for the complete list of what each mode does.

| Selected Mode | Radio Buttons and Features |          |
|---------------|----------------------------|----------|
|               | Next                       | Previous |
| PRESET 1      | gain +                     | gain -   |
| PRESET 2      | bass +                     | bass -   |
| PRESET 3      | mid +                      | mid -    |
| PRESET 4      | treble +                   | treble - |

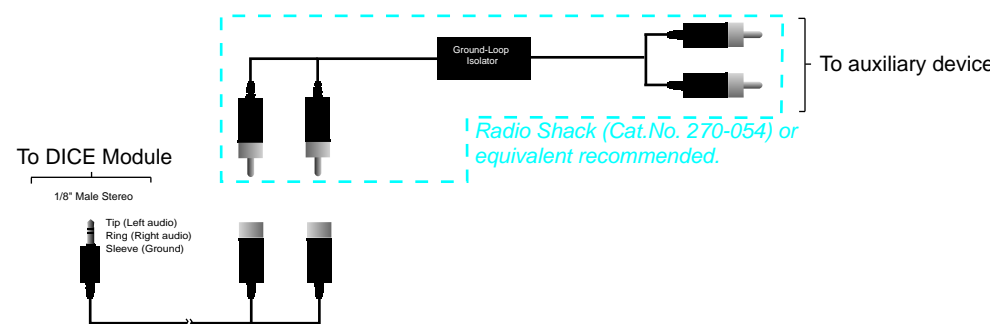
ie. When you select DISC 1, pressing the next/previous button will adjust +/- gain settings. If you select DISC 2, the next/previous button will adjust +/- bass settings.

## AUX Source Connections.

These are examples of component cables that can be used to connect an AUX device to the DICE module. These cables can be found at any stereo shop and are not included in this kit.



A Ground-Loop Isolator (not included) may be required when the auxiliary device is charged/powered from the vehicle's 12V battery source. This additional part can be found at Radio Shack®(Cat.No. 270-054) and will eliminate unwanted noise caused by ground loops.



## Disclaimer.

### Important Disclaimer, please read!

Driving is dangerous and requires concentration. Do not allow the DICE iPod Integration Kit to distract you from prevailing traffic conditions. If in doubt, only operate the unit when stationary or ask a passenger to operate it for you.

Do not submerge or expose to water or other fluids. DICE components are NOT water resistant and will be damaged by water. You must properly insulate its casing if your installation environment may subject the unit to water, such as a convertible vehicle.

### Keep away from children !

DICE components may contain small parts, can be broken or disassembled and components may become loose from vibration and heat. Small components and packaging materials may be a choking hazard when handled by children.

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### Warranty and Support.

DICE Electronics products carry a one year limited warranty that protects you from defects in material and workmanship of products sold by DICE Electronics or its authorized agents, distributors and dealers. We do not warrant any installation. If you experience any problems or need help, please contact your DICE Electronics retailer.

### Proof of purchase is required.

Warranty does not cover normal tear and wear, damages due to negligence, improper installation or operation.