

**DELPHI**

user  
guide



SA10175



## XM Satellite Radio Receiver



Important: This manual contains important safety and operating information. Please read, understand, and follow the instructions in this manual. Failure to do so could result in personal injury, death, and/or damage to your roadyXT, accessories, and/or to your vehicle or property.

FCC ID: RS2SA10177A

Please note that the cables and antenna wire that have been supplied with your device are supplied with permanently attached ferrite beads. It is the responsibility of the user to use the cable and antenna wire with the ferrite beads.

The user is cautioned that changes or modifications not expressly approved by XM Satellite Radio Inc. can void the user's authority to operate this device.


This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

 **Warning:** The FCC and FAA have not certified the Delphi XM roadyXT Satellite Radio Receiver for use in any aircraft (neither portable nor permanent installation). Therefore, Delphi cannot support this type of application or installation.



**This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.**

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### A Brief History

The new Delphi roadyXT Satellite Radio Receiver—smaller, lighter, and more versatile than the best-selling Roady2®.

- Dock your roadyXT into cradles that are easily installed in your vehicles or your home. One simple motion connects your roadyXT's power, audio, and antenna.
- A built-in FM transmitter allows you to hear XM programming on your vehicle's FM radio, using any unused frequency on the FM band.
- Exclusive Info Extras and Stock Ticker bring you personalized stock information, sports scores, and more.
- TuneSelect™ alerts you when your favorite song is being played on any XM channel.

### About Delphi

Delphi is a worldwide leader in mobile electronics, vehicle components, and audio technology. Delphi created the first in-dash car radio in 1936 and continues its strong tradition of innovation in the audio industry. Now Delphi technology has helped make satellite radio a reality, and Delphi continues to expand its in-vehicle and consumer electronics technologies. With its exciting line of satellite radio products, Delphi offers a broad portfolio of products to answer a wide variety of information and entertainment needs—in the vehicle, home, office, or virtually anywhere.

### About XM


XM Satellite Radio is the nation's leading provider of satellite radio with more than 4 million subscribers. XM offers more than 160 digital radio channels: 67 commercial-free music channels, ranging from hip hop to opera, rock to bluegrass, big band to reggae; 64 talk radio channels, including news, sports, comedy, and children's programming; and 21 channels of round-the-clock traffic and weather reports. Subscribers pay \$12.95 a month for the XM service, which was named Best Radio Service by the music industry's leading magazine *Billboard* at the 2004 Digital Entertainment Awards. Exclusive programming on XM includes Major League Baseball® games for every team, all season long. You can listen to XM on a variety of satellite radio receivers for the vehicle, home, and portable use. In-dash XM radios are available in more than 120 vehicle models for the 2005 model year. XM is broadcast via satellite from coast to coast, so you can listen to XM continuously as you travel across the country.


\*To receive the XM service, you must subscribe to XM. Available in the continental United States and Canada only. Satellite radio reception depends on the ability of the antenna to receive a signal. The signal may not be available in buildings or if obstructed (e.g., by mountains, trees, bridges, etc).

## Let's Get Started

### First, some important reminders

We know you're eager to turn on your new roadyXT and listen to XM. Please take a moment to remember the following:

 **Warning:** This manual contains important safety and operating information. Please read, understand, and follow the instructions in this manual. Failure to do so could result in personal injury, death, and/or damage to your roadyXT, accessories, and/or to your vehicle or property.

 **Warning:** When using this product it is always important to keep your eyes on the road and your hands on the wheel. Not doing so could result in injury and/or death to yourself or to others and/or in property damage.

**Caution:** Use your roadyXT only with the enclosed components or approved accessories. Do not modify wires or other connectors in any way; you could cause a malfunction, which could damage your roadyXT and will void your warranty.

**Caution:** Refrain from using food or drinks near your roadyXT. Spilling food or drinks on the unit can damage it. Also, improperly installing the antenna cable can cause leaks, which can damage your roadyXT and/or your vehicle.

### Controls

power

menu – access advanced features and configuration options

disp – change what you see on the display

pre/dir – select between direct channel entry or up to 30 presets

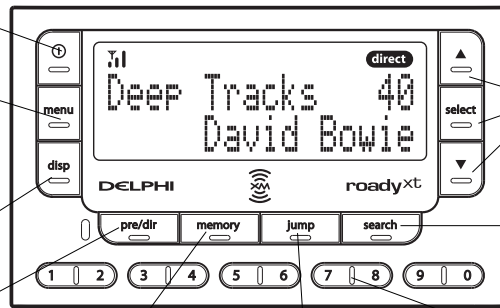
memory – save and recall up to 20 artist names or song titles

jump – return to previous channel; press and hold to select one of the last six FM frequencies used for the modulator

up and down arrows, select – change channels, choose menu options, TuneSelect™

search – look up channels by category or scan all channels

numbers – enter a channel directly or select favorite presets



Let's Get Started

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### Display

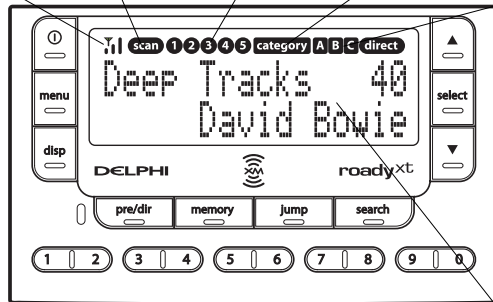
signal strength –  
1 to 3 bars

search by scanning  
all channels

display  
modes 1-5

search channels  
by category

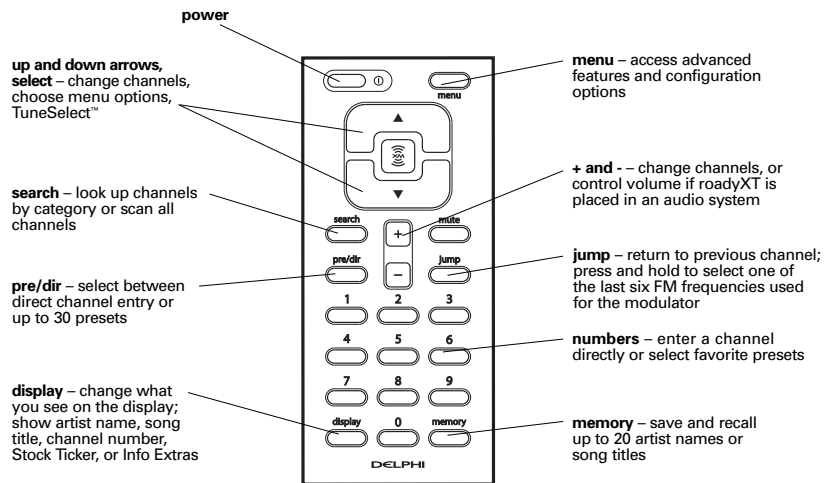
channel selection  
mode – direct  
entry or preset  
banks A, B, or C



additional info – channel  
name, channel number,  
artist, song title, Stock  
Ticker, and Info Extras



### Remote control\*



\*Sold separately

### Activating Your roadyXT


Use the arrow buttons to find channel 0, then push the “**select**” button to choose it. You should see an 8-character XM Radio ID in the display. (The XM Radio ID should also be on the bottom of your roadyXT, and on the package.) Write the ID here:


--	--	--	--	--	--	--	--

Note: Carefully check your XM Radio ID. **The letters I, O, S, and F are not used.**

Activate your XM Satellite Radio service by contacting XM at <http://activate.xmradio.com> or by calling 1.800.XM.RADIO (1.800.967.2346). You will need the XM Radio ID and a major credit card.

XM will send a signal from the satellites to activate the full channel lineup. Activation normally takes 10 to 15 minutes, but during peak busy periods, you may need to keep your roadyXT on for up to an hour to complete the activation process. When you can access the full channel lineup on your roadyXT, you’re done!

 **Warning:** When using this product it is always important to keep your eyes on the road and your hands on the wheel. Not doing so could result in injury and/or death to yourself or to others and/or in property damage.

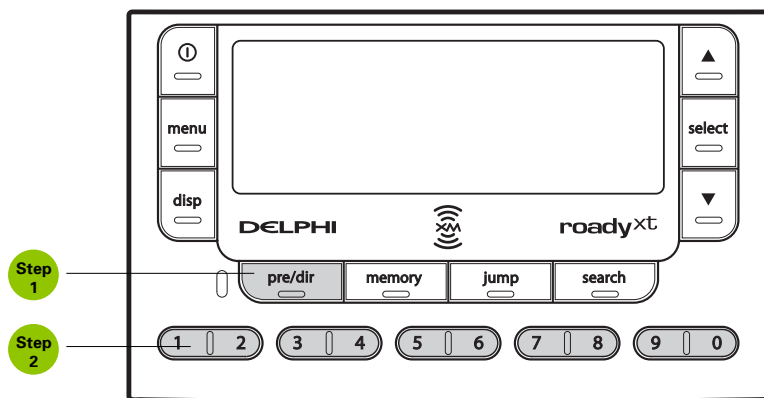
 **Warning:** Failure to properly follow all installation instructions may result in personal injury, death, and/or damage to your roadyXT, accessories, and/or to your vehicle or property.

## Listening to XM

### Selecting channels

Select a channel directly by entering its channel number. Press the "pre/dir" button (step 1) until **direct** appears on the screen. Then press the number buttons (step 2) corresponding to the channel. Channel 12 can be entered as "1," then by "2," or as "0," "1," and "2."

Or press the up and down arrows to quickly step through each channel. When you find one you like, press the "select" button.



**Warning:** When using this product it is always important to keep your eyes on the road and your hands on the wheel. Not doing so could result in injury and/or death to yourself or to others and/or in property damage.

### Searching for channels by category

XM channels are arranged by categories, or neighborhoods. This allows you to see all channels in the "Rock" category, for example.

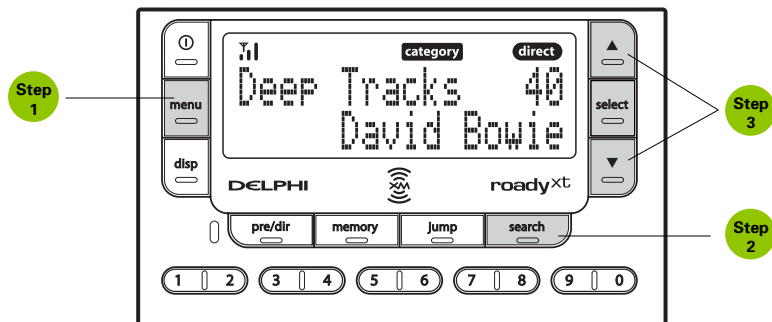
Press the "menu" button (step 1), go to "Search Mode," and select "By Category."

Each press of the "search" button (step 2) tunes you to the first channel of a new category.

Notice that the **category** icon is highlighted in the display.

Use the arrow buttons (step 3) to sample the channels within a category. Press the "select" button to choose a channel.

If you do nothing for 10 seconds, the radio automatically returns to the normal channel selection method.

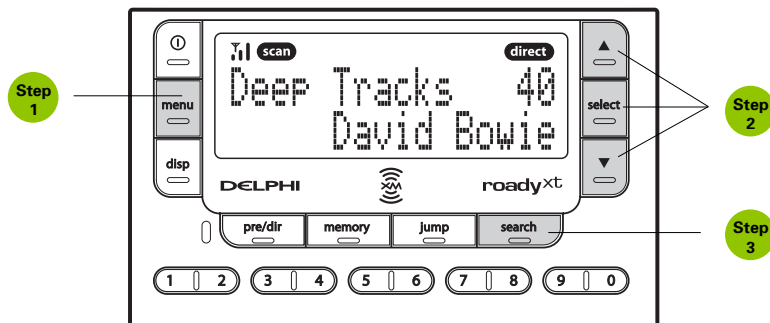


### Searching for channels by scanning

Your roadyXT can also scan through each channel, pausing long enough to hear the programming before moving on to the next one.

Press the **"menu"** button (step 1), go to "Search Mode," and select "By Scanning" (step 2).

Press the **"search"** button to begin scanning (step 3). Each channel plays for about 5 seconds. While scanning channels, **scan** blinks in the display. Press the **"search"** button again to stop on a channel.



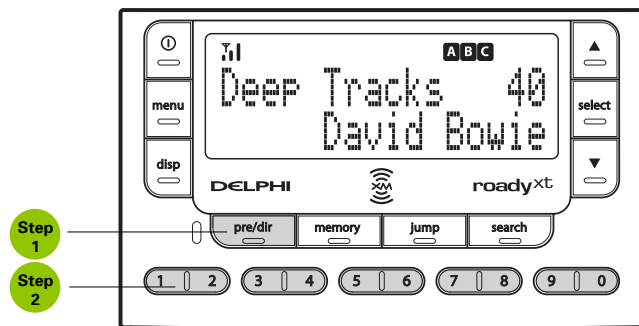
### Using presets

Your roadyXT can store up to 30 of your favorite channels as presets. The presets are organized into three banks (A, B, or C) that each contain 10 presets.

Press the **“pre/dir”** button one or more times to select bank A, B, or C (step 1). After you’ve tuned to your desired channel, press and hold a number button to save the channel into that preset (step 2).

Whenever you want to quickly tune to that channel, simply press that button again.

You can use the preset banks to organize your channels in different ways: Store your favorite channels in bank A, and someone else’s favorite channels in bank B. Or use one bank for music, another for news.



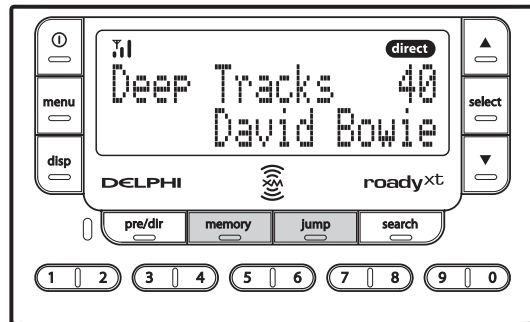
### Memory and jump

Press the **“memory”** button to remember a song’s artist or title. Your roadyXT can remember up to 20 entries. (After 20, any new entry replaces the oldest entry in memory.)

To recall the list of songs, press and hold the **“memory”** button, then use the up and down arrow buttons to step through the list.

Press the **“jump”** button to return to the previous channel you were listening to.

You can press and hold the **“jump”** button for FM presets. See page 16 for more information.



### Personalizing Your roadyXT

You can easily adapt your roadyXT to suit your listening habits. Simply press the **"menu"** button to see the options you can customize. If you ever get lost or decide not to change anything, press the **"menu"** button several times to return to normal operation. Or just wait about 15 seconds and roadyXT automatically cancels whatever you're doing.

#### Making your vehicle's FM radio an XM radio

Your roadyXT contains a built-in FM transmitter that sends the XM audio signal to your car or marine FM radio when using the vehicle cradle only.

1. Turn on your FM radio, and turn off your roadyXT.
2. Unplug any cassette adapter or audio cable from the roadyXT cradle. If you are using the Delphi FM Direct Adapter (model SA10112, sold separately), connect it to the vehicle cradle.
3. Find an FM frequency that is not being used by any commercial FM station. Tune your FM radio through the FM band and note which frequency has no FM station or the least amount of interference.
4. Turn on your roadyXT.
5. Press the **"menu"** button and select **"FM Frequency."**
6. Match the FM frequency that you found in step 3.
7. You should now hear XM programming on your vehicle's FM radio. If the sound isn't clear or you hear noise or static, try another FM frequency. If you're traveling, you may need to retune periodically; this is due to the differences in signal strength of local FM stations and is not a problem with your roadyXT.
8. Pressing and holding the **"jump"** button for 2 seconds pulls up a list of the last six FM frequencies you selected. This allows you to quickly tune to unused FM frequencies when using the FM transmitter. Use the arrow buttons and the **"select"** button to choose the frequency you want.



#### Screen color

To change the color of the display, press the **"menu"** button and select **"Screen Color."** Use the arrow and the **"select"** buttons to choose a color; to cancel, press the **"menu"** button.

#### Contrast

To vary the contrast of the display, press the **"menu"** button and select **"Contrast."** Use the arrow buttons to adjust the contrast, and press the **"select"** button to confirm.

#### Audio level

You may adjust roadyXT's audio output level if it is too high (causing distortion) or too low. Choose a setting so that the XM audio matches your other audio sources, such as your CD player or FM radio. To change the audio output level, press the **"menu"** button and select **"Audio Level."** Use the arrow buttons to adjust the level and the **"select"** button to confirm. Press the **"menu"** button to exit.

Most users should NOT need to change this level from the factory setting. This is not a volume control; you should set the volume using the audio system that is connected to your roadyXT.

### Aiming the antenna

Note: For use with the Home Kit, sold separately.

Your roadyXT can help you choose the best antenna position and orientation.

1. Press the **"menu"** button. Use the arrow and **"select"** buttons to choose "Antenna Aiming."
2. Slowly turn and tilt the antenna. The signal bars on the display will change. Find the position that gives at least two bars on either "satellite" or "terrestrial."
3. The antenna aiming screen remains as long as it's needed to help you position the antenna. When you've found the best position, press the **"menu"** button twice to return to normal operation.

### TuneSelect™

TuneSelect can alert you whenever one of your favorite songs or artists is playing on any XM channel.

1. Press the **"menu"** button and select the "TuneSelect" option, then select "Song or Artist." You can choose to select "By Song" (factory default) or "By Artist." Press the **"menu"** button again to return to normal operation.
2. When you hear one of your favorite songs or artists, press and hold the **"select"** button until you hear a beep. This indicates that roadyXT has saved the song or artist information to its TuneSelect list. The list holds up to 20 entries; when it is full, any new entry replaces the oldest song in the list.
3. When any song or artist on the list is currently playing on any XM channel, your roadyXT beeps and flashes "Artist / Song Found" on its display.
4. Press the **"select"** button to switch to that channel.
5. To edit the list, press the **"menu"** button and choose the "TuneSelect" option, then the "Erase" option. You can either erase specific songs or artists on the list, or erase all songs and artists.

### Stock Ticker

You can track up to 20 stock symbols and see their prices and movements right on the roadyXT's display.\*

#### TO ADD A STOCK SYMBOL:

1. Press the **"menu"** button, select "Stock Ticker," and select "Add Stocks."
2. Use the arrow buttons to add each letter of the desired stock symbol. Press the **"select"** button after choosing each letter. (Your roadyXT has a list of more than 9,000 stock symbols, and will not only help you complete each entry but prevents you from entering incorrect symbols.)
3. When you've entered all your desired stock symbols, press the **"menu"** button several times (or simply wait a few seconds) until your roadyXT returns to normal operation.
4. Press the **"disp"** button until you see "Stocks" and a ticker across the bottom of the screen.\*\*

#### TO ERASE A STOCK SYMBOL:

1. Press the **"menu"** button, select "Stock Ticker," and select "Erase Stocks."
2. Choose "Erase All" or "Erase Some."
3. If you're erasing some stocks, press the arrow buttons to select the stock to be deleted. Press the **"select"** button to erase the chosen stock symbol.
4. Press the **"menu"** button several times to return to normal operation.

\*Quotes are provided by ComStock, Inc. and cover most stocks listed on the NYSE, AMEX, or NASDAQ. Market information is delayed by approximately 25 minutes.

\*\*Extreme cold temperatures can affect the performance of the LCD in "Scroll" mode. We recommend you change to the "Pages" mode until the temperature rises.

### Info Extras

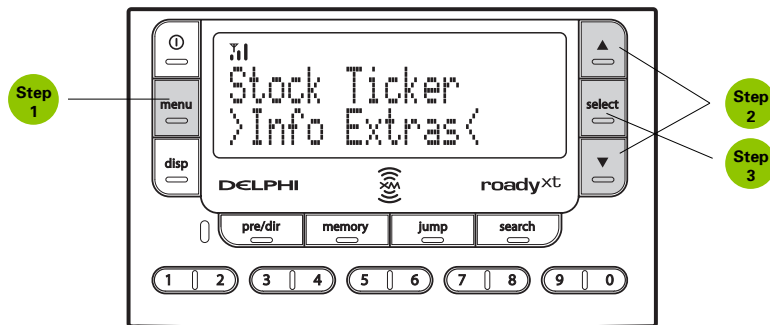
XM Satellite Radio will broadcast information such as sports scores and other features at various times.\*

Press the **"menu"** button and select "Info Extras" (step 1). Use the arrow buttons to see what's available (step 2).

Press the **"select"** button to add or remove the Info Extras item (step 3).

"-" indicates that you have not yet selected the item; "+" means you've chosen the item.

To view the Info Extras that you chose, press the **"disp"** button until you see the Info Extras items at the bottom of the screen (display mode 5).



\*Sports scores are provided by Stats, Inc.

### Changing display information

The Stock Ticker and Info Extras can either be scrolled (moving from right to left in the display) or paged (one symbol at a time). To switch from one option to the other:

1. Press the **"menu"** button and select "Display Mode."
2. Choose either "Pages" or "Scroll." Press the **"select"** button to confirm.

### Direct Tune

Normally as you press the arrow buttons, you can preview what's playing on other XM channels before actually selecting a channel. To automatically tune to a channel without having to press the **"select"** button, set the following option:

1. Press the **"menu"** button.
2. Select "Direct Tune."
3. Select "On." To return to the factory-default method, select "Off."

### Auto-On

When you use your roadyXT in a car or truck, it normally turns on when you switch on the vehicle's ignition. If you prefer to manually turn on your roadyXT using its power button, set the following option:

1. Press the **"menu"** button.
2. Select "Auto-On."
3. Select "On." To return to the factory default, select "Off."

You should also set this option to "Off" if your roadyXT is connected to a power source that is always live.

#### Auto-Off and "sleep" timer

You can set your roadyXT to shut off the radio 1 to 3 hours after being turned on. Set this option if you have connected your roadyXT to a power source in your vehicle that is always live. Your roadyXT will then automatically shut off and prevent you from draining your vehicle's battery. You can also use this feature as a "sleep" timer.

1. Press the **"menu"** button.
2. Select "Auto-Off."
3. Select the desired time interval. Choose "Off" if you do not want to use the sleep timer.

#### Resetting to factory default

You can return your roadyXT to the state it was shipped from the factory. Be careful: this will erase all settings, including Stock Ticker, Info Extras, presets, display options, and audio options.

1. Press the **"menu"** button.
2. Select "Factory Default."
3. Select "Yes" to restore your roadyXT to the factory settings.

### Other Things You Should Know

#### Care

You should be able to use your roadyXT during most of your daily activities. However, you should remember:

- If your roadyXT does get dirty, wipe the case with a soft cloth (lightly moistened with water if necessary), then wipe dry with another cloth. Avoid chemicals such as paint thinner, alcohol, or abrasive cleansers.
- It is best to keep your roadyXT out of direct sunlight or other sources of extreme heat.

**Caution:** Refrain from using food or drinks near the roadyXT. Spilling food or drinks on the unit could damage it. Also, improper antenna cable installation can cause a leak that could result in damage to your roadyXT and/or your vehicle.

#### Accessories (sold separately)

We're always developing useful and clever accessories for your roadyXT such as a Home Kit. Check our web sites, [www.xmradio.com](http://www.xmradio.com) or [www.delphi.com](http://www.delphi.com), or your favorite electronics retailers.

**Troubleshooting**

Your roadyXT should provide you with trouble-free performance without needing any servicing. If it does not appear to be working properly, first try to remedy the problem by following these steps:

1. Attach all connections firmly and securely.
2. Ensure the cigarette lighter adapter or auxiliary power socket is clean and free of corrosion.
3. Check the adapter fuse by unscrewing the ribbed end of the adapter. If required, replace with a 2-amp fuse only. If your cigarette lighter adapter does not have a removable end cap, then it is equipped with an internal fuse that resets itself after it is left unpowered for a period of time.

<b>If you see this on the display:</b>	<b>You should:</b>
NO SIGNAL Cause: The XM signal is being blocked.	Move your roadyXT away from the obstructed area (e.g., an underground garage).
ANTENNA Cause: Possible problem with XM antenna.	Connect the antenna. Make sure the cable and connectors are not damaged or kinked.
ANTENNA Cause: When using home stand or vehicle cradle, home or car antenna is not plugged in.	Make sure the home or car antenna is plugged into the home stand or vehicle cradle.
OFF AIR Cause: The channel selected is not currently broadcasting.	Tune to another channel.



**If you see this on the display:**

**You should:**

UPDATING

Cause: Your roadyXT is being updated with the latest encryption code.

Simply wait a few seconds until the update is done.

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Cause: You may have tried to tune to a channel that you have blocked or that you cannot receive with your subscription package.

To receive that channel, contact XM Satellite Radio at 1.800.967.2346.

<b>If this happens:</b>	<b>You should:</b>
The display is blank; nothing happens when you push the power button.	Check the power connections to your roadyXT.
You do not receive all XM channels you have subscribed to.	Your roadyXT may not be activated. Contact XM Satellite Radio (see page 10).
Audio sounds distorted when using the built-in FM transmitter.	Reduce audio output level (see page 17).
Audio is too soft when using the built-in FM transmitter.	Increase audio output level (see page 17).
No audio from your audio system.	Check whether your audio system can play a CD, or regular AM or FM stations. Then check the audio connections between your audio system and your roadyXT.
You cannot tune to a channel.	Contact XM Satellite Radio at 1.800.967.2346. Verify that you are authorized to receive that channel as part of your XM subscription, and that you have not asked XM Satellite Radio to block that channel.
No song title or artist name displayed.	Nothing is wrong with your roadyXT. That information may be in the process of being updated. On some sports and news channels, there is no title or artist information.
No audio when listening through your vehicle's FM radio.	Make sure that the vehicle's FM radio and your roadyXT are set to the same frequency (see page 16).

**If this happens:**

Audio has static while listening through an FM radio.

Audio on XM instant traffic and weather channels sounds different from other XM channels.

**You should:**

Change to another FM frequency (see page 16). If the problem persists and you are using the wireless FM transmitter in a vehicle, use the Delphi FM Direct Adapter (model SA10112, sold separately).

Nothing is wrong with your roadyXT. These channels use a different audio technology than the other XM channels.

**Contacting Technical Support**

For additional information in solving problems with your roadyXT, contact Delphi Technical Support at 1.877.GO DELPHI (1.877.463.3574), 8:00 a.m.— 8:00 p.m. Eastern Time, Monday — Friday. Technical Support is also available at [www.delphi.com](http://www.delphi.com).

**Technical Information****DIMENSIONS**

receiver, without cradle: 2.25 in (H) x 3.7 in (W) x 0.7 in (D)  
5.7 cm (H) x 9.4 cm (W) x 1.8 cm (D)

remote: 3.7 in (H) x 1.7 in (W) x 0.6 in (D)  
9.4 cm (H) x 4.3 cm (W) x 1.5 cm (D)

**WEIGHT**

receiver, without cradle: 2.6 oz  
76 g

remote: 1 oz  
30 g

**POWER**

receiver: 5 V, 2000 mA maximum current, positive polarity



remote: 1 CR2032 3 V cell

**INPUTS AND OUTPUTS**

antenna: 1 RF SMB connector

audio: 3.5 mm diameter mini-stereo jack

## Warranty

### Delphi limited consumer warranty

Delphi Product and Service Solutions ("Delphi") warrants all XM Satellite Radio Products sold by Delphi (each "Product") to be free of defects in material and workmanship, subject to the following conditions:

The duration of Delphi's warranty with respect to each Product is limited to one (1) year from the date of sale to the original consumer purchaser.

No other express warranties are made with respect to any Product. All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited to the warranty period set forth above. This warranty is not transferable and applies only to the original consumer purchaser of the Product.

Delphi will, as its sole obligation under this warranty, replace or repair, at its option, any Product that does not conform to this warranty. Products may be repaired or replaced with new or with refurbished items. This limited warranty does not cover defects in appearance, cosmetic or decorative items, including any non-operative parts. Under no circumstances will Delphi be liable for any incidental or consequential damages under this warranty or any implied warranties. These remedies are the customer's exclusive remedies for breach of warranty. This limited warranty only extends to customers who purchase the Products in the United States.

Delphi will not be responsible for damage resulting from any (i) deviation of Delphi's operating instructions as printed in Delphi's catalog or on any packaging, labels or other literature provided with a Product, (ii) installation of a Product in a manner which is inconsistent with Delphi's written instructions,

(iii) alteration or modification of a Product, (iv) misuse, (v) neglect, (vi) abuse, (vii) accident, (viii) normal wear and tear, (ix) commercial use, (x) improper storage, (xi) environmental conditions, including excessive temperature or humidity, (xii) service by anyone other than a Delphi authorized repair facility, (xiii) other improper application, installation or operation of this Product, or (xiv) defects or malfunctions of which Delphi is not advised within ten (10) days of the expiration of the limited warranty period.

#### **How you (the Customer) can get service**

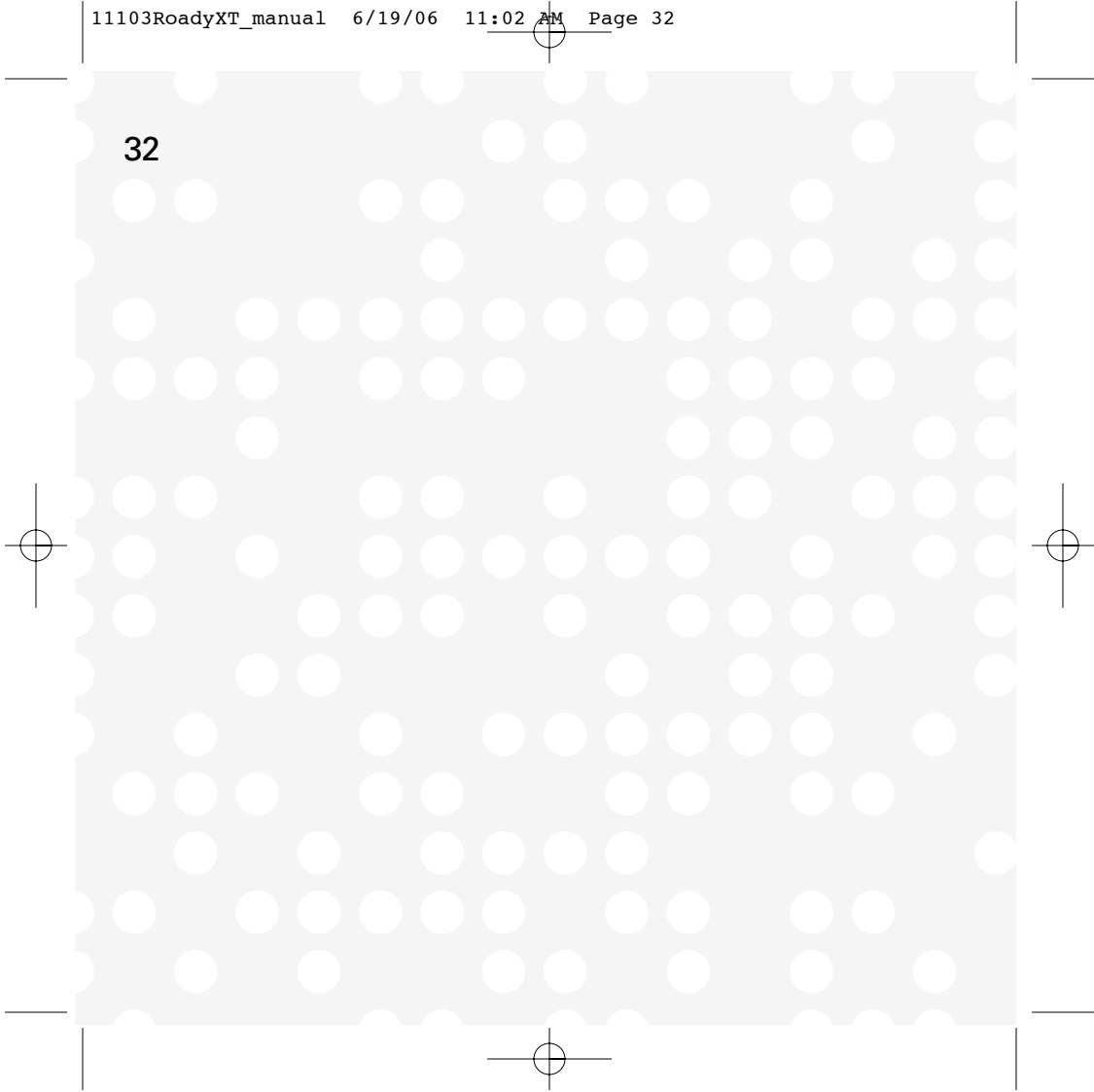
To obtain warranty service during the first thirty (30) days after the date of purchase, you must return the defective Product with the original receipt to the original place of purchase. To obtain warranty service during the first thirty (30) days for Products purchased from [www.delphi.com](http://www.delphi.com) and for all Products for the remainder of the limited warranty period, you must contact Delphi by phone at 1.877.GO DELPHI (1.877.463.3574) or by fax at 1.866.790.3675. When contacting Delphi by fax, please include a letter detailing your complaint and a daytime telephone number where you can be reached. If further clarification or additional information is required from Delphi, you may call Delphi at 1.877.GO DELPHI (1.877.463.3574).

If warranty service is needed at any time during the warranty period, the purchaser will be required to furnish a sales receipt/proof of purchase indicating the date of purchase, amount paid, and place of purchase. Customers who fail to provide such proof of purchase will be charged for the repair or replacement of any Product.

#### **How state law relates to the warranty**

Some states do not allow limitations on the duration of implied warranties, or the exclusion or the limitation of incidental or consequential damages. So the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights that may vary from state to state. **NO PERSON IS AUTHORIZED BY DELPHI TO MODIFY OR ADD TO THIS LIMITED WARRANTY.**

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### 3. Wireless FM Modulator

The XM receiver is equipped with an FM modulator, which can transmit the XM audio to your car's FM radio without wires.

**IMPORTANT:** For best wireless FM modulator performance, you must locate the satellite radio antenna in a location that is in close proximity to the vehicle's FM antenna.

For example, with reference to figure 1, if your FM antenna is located on a rear fender or top of the roof, mount the XM antenna near the rear window location (option 1). If your FM antenna is located on a front fender, mount the XM antenna near the windshield location (option 2). Remember, the closer the satellite radio antenna can be to the FM antenna, the better the wireless FM reception and sound quality will be.

In order to optimize the operation of the wireless FM modulator, follow the installation guidelines outlined in steps 1 through 4:

#### Step 1:

First, determine the proper location for your satellite radio antenna based on the following criteria for your specific vehicle:

- You must locate the satellite radio antenna on the top of the roof either in front of the rear window (option 1) or behind the windshield (option 2). The satellite radio antenna will perform best if magnetically attached to a steel surface with an unobstructed view of the open sky and minimum of 3 to 6 inches of metal surrounding the antenna.

- When routing the antenna cable along the windshield or rear window, tuck the antenna cable under the window seal to maintain a professional looking installation and to avoid loose wires on the exterior of the vehicle that are susceptible to damage. Follow the interior cable routing diagram depicted by dashed lines in figure 1 where possible.

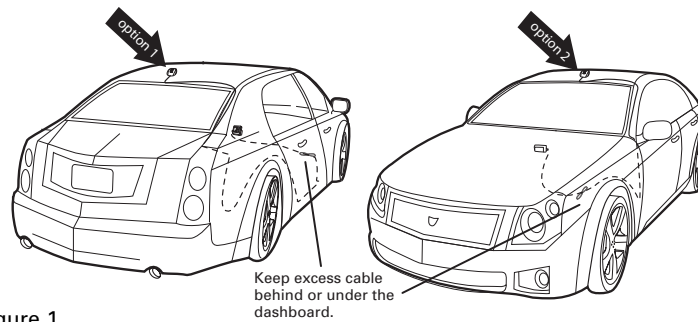


Figure 1.

- For best FM modulator performance, you must locate the satellite radio antenna in a location that is in close proximity to the vehicle's FM antenna.
- Avoid kinking, crimping, twisting, or chafing the cable. Use pre-existing wire channels when possible.

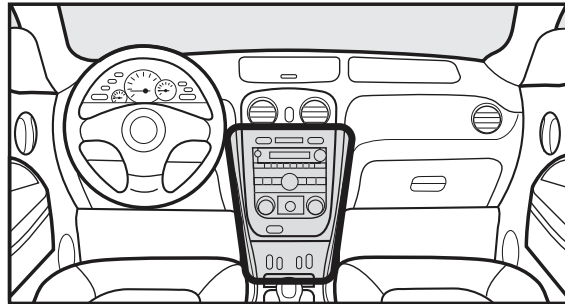
- For option 1 and rear mounting locations, route the cable into the trunk as shown. Always cross the weather seal at the lowest part of the trunk to reduce water leaks. From the trunk, route the cable into the passenger compartment through available wire channels and then along the floor under the door jamb trim or under the carpet to the front of the passenger compartment. Do not leave the cable loose in the passenger compartment where it is likely to be damaged.
- For option 2 and front mounting locations, route the cable along the door jamb and into the vehicle as shown. Route the cable across the weather seal near the bottom of the door to reduce water leaks.

**Step 2:**

Be sure to locate your car cradle and receiver below the top of the dash in your vehicle to keep your receiver within easy reach while driving. Choosing a lower location in your installation should also make it easier to manage the cables and achieve a more desirable appearance when the installation is completed. A lower location for the receiver in the vehicle will ensure that the installation does not cause interference with other FM radios outside the vehicle.

See figure 2 and be sure to locate your car cradle within the shaded area.

Figure 2.



**Step 3:**

Once you have plugged the power and antenna jacks into the car cradle, use the included cable organizer as shown in figure 3 to improve the overall appearance of the installation.

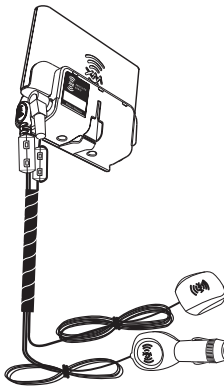


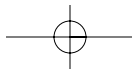
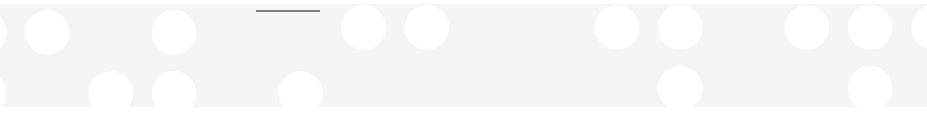
Figure 3.

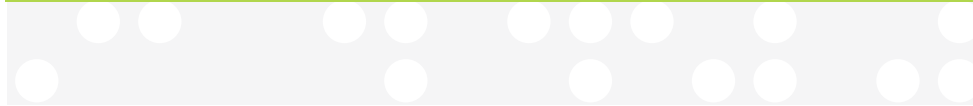
**Step 4:**

Reuse the cable twist ties that were provided with the power adapter and car antenna cables and always be sure to gather, bundle, twist tie, and secure any excess cable remaining after determining the best location for your satellite radio installation.

For example, secure the excess cable up under your dash, between the seat and the console, or on the floor under a seat or floor mat. This will help to prevent the excess cable from interfering with the everyday use of your vehicle, improve the appearance of the installation, and avoid any undesirable accidental damage to the cables that might result in loss of power or satellite signal.

For wireless FM modulator installations, securing and tie-wrapping the excess cable is important to reduce background hissing noise. Be sure to choose a location carefully by taking notice of how doors and trunks open and close, as well as how seats move when they are adjusted, so you can be certain ample clearance is provided for the cables.





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