

DELPHI
SA10035

User Guide

Roady



Satellite
Radio
Receiver

DELPHI

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

Welcome

Thank you for purchasing a Delphi XM[®] Roady™ Satellite Radio Receiver. Your Roady Receiver gives you access to over 100 XM Satellite Radio channels of music, news, and information.*

Your Roady Receiver must be used with the enclosed connecting devices to ensure maximum performance and safety.

*XM subscription required for reception. Not available in Alaska or Hawaii.



Warning: Do not modify or alter wires or connections in any way. Shortening wires or connections may prevent proper functioning of the protection circuit. Doing so may damage your receiver and will void your warranty.

About Roady

Roady is the latest in the acclaimed line of portable devices from Delphi XM Satellite Radio and represents the best in audio technology. Small, simple, and easy to use, Roady is always ready to go with you. Just plug it in and go!

About Delphi

Delphi is a worldwide leader in mobile electronics and transportation components of audio technology. Delphi created the first in-dash car radio decades ago, and is responsible for many audio innovations through the years. Now Delphi technology has helped make satellite radio a reality, and Delphi continues to expand its in-vehicle and consumer electronics technologies. Delphi has a broad portfolio of products to answer a wide variety of information and entertainment needs.

About XM

One big idea can change everything. And XM Satellite Radio is one big idea: Radio to the Power of X[®]. America's most popular satellite radio service gives you the power to choose what you want to hear—wherever and whenever you want it. XM offers 70 music channels—more than any other satellite radio service—plus 30 channels of news, talk, sports, and entertainment. That's 100 basic channels in all, for a low monthly subscription. Additional devices may qualify for a reduced subscription fee through the XM Family Plan.

Contents

Section 1	
Getting Started: Activating	
Roady	6
Section 2	
Roady Receiver	
Roady Display Screen	7
Roady Controls	8
Section 3	
Basic Operations	
Turning Roady On and Off	10
Basic Channel Selection	10
Save and Recall	12
Section 4	
Menu Commands and Settings	13
Section 5	
Installation	
Roady Kit Set-up	15
Roady Receiver Installation	17
XM Antenna Set-up	20
Section 6	
Reference	
Taking Care of Your Roady	24
Troubleshooting	25
Contacting Customer Service	28
Section 7	
Warranty	29

Getting Started: Activating Roady

To quickly begin enjoying Delphi XM Satellite Radio, follow these simple steps:

1. Set up your Roady Receiver using the installation instructions in Section 5 of this guide (see page 15) or with the help of a professional installer.
2. Press the power button to turn the Roady Receiver on and verify that it is playing Channel 1, the XM Preview Channel.
3. Select Channel 0. The receiver's eight-character XM Satellite Radio ID number will appear on the display. Write the number here:

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

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

4. Activate your XM Satellite Radio service. To subscribe, make sure you have a major credit card and your XM Satellite Radio ID number handy and contact XM at <http://activate.xmradio.com>. You can also activate your service by calling 1-800-852-9696.

Note: You will need to keep your Roady on for at least one hour after activation and installation to receive the full channel lineup.

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 to you or to others or in property damage.

Caution: Failure to properly follow all installation instructions may result in personal injury or damage to your Roady or to your vehicle.

Roady Receiver

Roady Display Screen

While tuned to an XM channel, the Roady default display contains information about that channel and the Roady settings. See figure 1.

Your Roady display can be customized. See the Basic Operations section, beginning on page 10.

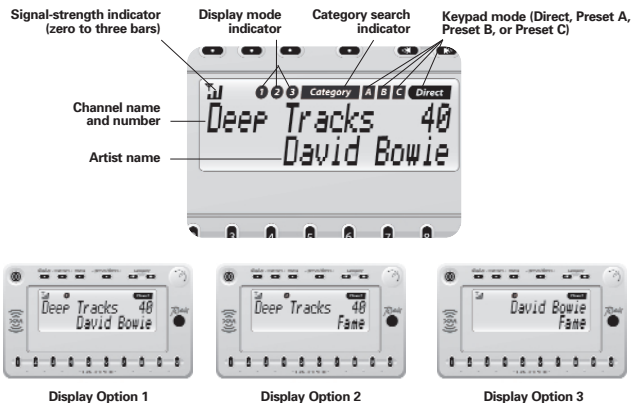


Figure 1. Roady Receiver display screens.

Roady Controls

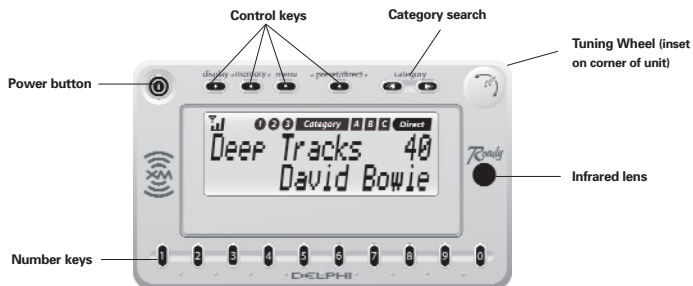


Figure 2. Roady Receiver.

The Roady unit has seven function buttons, a Tuning Wheel, and 10 number keys.



Turns the Roady Receiver on or off.

The display button toggles between three display options:



1. Channel name, channel number, artist name
2. Channel name, channel number, song title
3. Artist name, song title



Press Memory to save artist name and song title information. Press and hold memory key to recall information.



Press Menu to select and change receiver configuration options. Pressing Menu when in menu mode will allow the user to back out to the previous level.



Switches between Direct Entry, Preset A, Preset B, and Preset C.



Enters category search and displays channels grouped by category. Continued presses step through available categories. Use the Tuning Wheel to scroll through channels within a category; press the Tuning Wheel in to select a channel. Category search times out after 6 seconds if no channels are selected.




Use the Tuning Wheel to scroll through channel or menu options. Pressing the Tuning Wheel selects a channel or menu option.



Number keys are used to select a channel directly (when in Direct Entry mode), and to select or set presets when in a Preset mode.


Basic Operations

Turning Rody On and Off

Press  on the Rody Receiver. When first turned on, the receiver will automatically tune in to the last channel listened to and recall the previous settings.

Basic Channel Selection


Select a channel by number

1. Verify that Rody is in Direct Entry mode. "Direct" should appear in the upper right corner of the display. If A, B, or C appears, press  until the display says "Direct."
2. Enter channel number using the number keys, *i.e.*, 5 + 0 for Channel 50.


Set/select channel presets

Your Rody Receiver can store up to 30 preset channels. They are organized into three different groups (Preset A, Preset B, and Preset C), each with 10 channels corresponding to the 10 number keys. For preset 10, you only need to press "0."

Selecting channel presets

Press  until an A, B, or C appears in the upper right corner of the display. Press the number key corresponding to the desired preset.



Setting channel presets

1. Tune in the channel you want to register as a preset, making sure it is playing.
2. Select either Preset A, Preset B, or Preset C by pressing  until an A, B, or C appears in the upper right corner of the display.


3. Press and hold the number key corresponding to the preset you would like to set. The receiver will beep to indicate that the preset is registered.
4. Pressing a number key in preset mode without having saved a number to that preset will cause the Rody to display the number and then switch to Channel 1.

Preview and select channels using the Tuning Wheel

You can use your Rody to preview the XM channel lineup, see what is currently playing, and then decide if you want to leave your current channel.




1. Roll the Tuning Wheel  up or down repeatedly (hold to move quickly) to scroll through the channel lineup.
2. Select a channel by pressing the Tuning Wheel  in. If you do not select a channel, the display will time out and return to the channel you are listening to.

Tune to a channel using the Tuning Wheel (option)

Tune up and down the channel list using the Tuning Wheel . Using the Tuning Wheel allows you to tune automatically to the next channel, without highlighting or selecting. To activate this mode, go to "Direct Tune" option in the menu section.




Select a channel by category

Press either of the category keys  to enter category search.





1. Continue pressing one of the category keys  until a category you are interested in appears.
2. Use the Tuning Wheel  to display a channel within the given category.
3. Press the Tuning Wheel  to select a channel.
4. If you do not select a channel, category search will time out after several seconds.

Save and Recall Artist Name and Song Title Information



You can save the artist name and song title on the current channel for future reference.

1. Press and release  to save the current screen information. Up to 15 different artist and song titles can be saved, after which any new information that is saved will replace the oldest information in memory.
2. To recall saved information, press and hold  for 3 seconds. Next, use the Tuning Wheel  to display each saved artist name/song title.

Menu Commands and Settings

Pressing  enters the menu section of Roady. Here, you can change each of the following options using the Tuning Wheel . Select the highlighted item by pressing the Tuning Wheel . While in the menu section,  acts as a "back" button, allowing you to back out of existing sections. Following are the settings that can be changed:

Screen Color

Change the color of the display by simply using the Tuning Wheel  to scroll through the seven color choices. Select a new color by pressing the Tuning Wheel .



Audio Level

Use this to adjust the Roady Receiver audio-output level if it is too high, causing distortion, or too low for your car. Most users will 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 connected to your Roady Receiver.

Contrast

This control allows you to adjust the contrast of your display.

Auto-On




Once you have installed your Roady and the power has been turned on using the power button , you will discover your Roady has been factory-set to be turned off and back on again using the ignition key in your vehicle. To change this factory-set condition and always power your Roady on and off with the power button , select the "Auto-On" feature in the menu and then select "Off."

Auto-Off


You can set your radio to automatically shut off 60, 120, or 180 minutes after it is turned on. This feature should be used if your vehicle continues to power the cigarette lighter/auxiliary power after you remove your key, so if you leave it on, Roady will shut down automatically after the time period you select and will not drain your battery.

TuneSelect™

Using this function, you can program your Roady to alert you with a tone and display change when a favorite song is played again on a channel other than the one you are listening to.

1. While the song is playing, press and hold the Tuning Wheel  in for 2 seconds. Roady will beep and display "Song Selected" on line 1 of the display for 2 seconds, then return to normal display for the current song. Up to 10 songs may be stored in the TuneSelect list. Once the list is filled, a new entry will replace the oldest item on the list. You can erase songs from your TuneSelect list by going into the menu and choosing TuneSelect. Then, follow your options to erase specific song titles or clear out all titles.
2. When the song plays again on any channel other than the one you are currently listening to, your Roady will beep and display an alert notice. "Song Found" will appear on line 1 and the name of the song on line 2 for 5 seconds.
3. While the "Song Found" alert is displayed, push the Tuning Wheel  in to switch to the channel playing the song. If the Tuning Wheel  is not pressed while the alert is displayed, TuneSelect will time out and return to normal display mode.

Direct Tune

This feature changes the functionality of the Tuning Wheel so that it automatically selects a channel each time it is rolled, without having to press Tuning Wheel  in. Note: Roady does not have a preview mode when this feature is active.

Installation

Roady Kit Set-up

Your Roady Kit contains the following components:



Your kit also includes:

- Car mount bracket • Extra adhesive pad • Surface preparation cleaning kit
- Alcohol prep pad • Cable wrap

Figure 3. Roady Kit components.

Hooking up your Roady Receiver

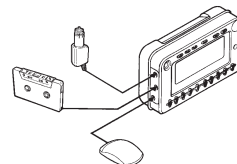


Figure 4. Connect accessories to your Roady Receiver as shown.

Caution: Connect only appropriate input devices to the Roady Receiver. Connecting an incorrect input device may damage the system and/or the external electronic device. It is recommended that you use only the 12V to 6V conversion power adaptor that came with your Roady Kit.

3. Clean the vehicle mounting surface with the enclosed surface preparation cleaning kit. Wipe with the towelette in only one direction. Do not wipe the surface in a circular motion or back and forth. Dry area with a clean, dry cloth. Wipe dry in the same direction again and then repeat this cleaning process. Allow to air dry thoroughly to ensure effective adhesion.
4. Clean the same surface with the enclosed alcohol prep pad. Wipe in the same direction and manner as with the towelette. Dry the area with a clean, dry cloth, wiping in one direction. Allow to air dry thoroughly. Ensure that the surface is at least 60°F.
5. Warm the car mount adhesive pad by using a hair dryer or by placing the car mount on top of the vehicle's defrost outlet for several minutes with the heater on. Remove the liner from the adhesive pad and adhere to the vehicle's surface. Make sure you accurately place the pad on the first try since in many cases it will bond almost immediately. 3M recommends a 72-hour curing time for maximum adhesion.
6. Clip the Roady Receiver onto the car mount (figure 5).

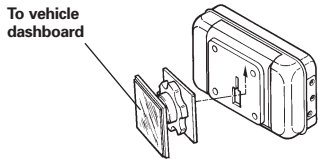


Figure 5. Attach car mount to back of Roady Receiver as shown.

7. Reassemble the system as in step 1, inserting cassette audio adaptor into the vehicle's cassette deck and the 12V power adaptor into the cigarette lighter.
8. Attach the antenna as explained on page 20.

Removing car mount from your dashboard

You can remove the car mount from your dashboard by taking the following steps:

1. Lift one edge of the adhesive pad gently with fingers or the rounded edge of a spoon. Once enough of the edge is loosened to grip with your fingers, pull the pad gently from the mounting surface at a 90-degree angle. Avoid using sharp tools that could damage the vehicle's interior.
2. If the pad fails to loosen, first warm it with a hair dryer for 2 to 3 minutes to soften the adhesive. Be careful not to apply too much heat, which could damage the mounting surface.
3. If any adhesive remains on the dashboard surface, the adhesive can easily be removed by rubbing your thumb or finger across it.
4. As necessary, use a mild household cleaner to clean the dashboard surface.



Caution: Never use a commercial heat gun or paint-stripping gun. This could result in damage to the unit or to your vehicle.

XM Antenna Set-up

Antenna Installation

- Best reception is achieved with the antenna mounted on the metal surface of the vehicle roof in the center of an area with at least 12" x 12" of surface area and a minimum of 6" from a window or sunroof. Figure 6 shows three typical mounting locations.
- If the vehicle has roof racks or skid ribs, it may be necessary to mount the antenna off-center.
- If the vehicle roof does not provide a sufficient metal surface area, then the antenna can be mounted on the metal trunk lid at least 4" from the rear window.
- If an appropriate antenna mounting location cannot be identified, contact your local retailer installation department for additional guidance.

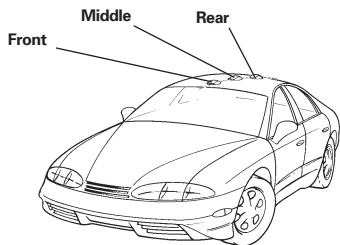


Figure 6. The design flexibility of your XM Antenna allows mounting on many types of vehicles. Trunk mounting of the antenna is an alternative only for hard- or soft-top convertibles with non-metallic rooftops. All other vehicles should have roof mounting.

Important: Do not install antenna inside vehicle passenger compartment. Mounting the antenna in the passenger compartment either on the front dashboard or on the rear window deck area of the vehicle will cause reception issues and must be avoided. Mounting the antenna on a non-metallic surface will also result in severe degradation in reception.

Warning: Failure to properly install the antenna may result in injury to you or others if it becomes detached during an accident.

Cable Routing

- Once you have mounted the antenna in the correct location, plan how to route the cable from this location to the receiver, avoiding blocked passages and any obstructions that could kink, crimp, twist, or chafe the cable. Figure 7 shows typical routing configurations. If the cable will come into contact with a rough metal opening, use a rubber grommet to prevent damage.
- For antenna mounting locations at the front or middle of the roof, the cable can be routed down along the door jamb and into the vehicle. In some vehicles, the cable may be brought into the vehicle through the grommet in the door jamb which carries the power window and power lock wires. If the cable does not fit easily through the grommet, do not try to force it through. Instead, route the cable under the weather seal near the bottom of the door.

Front Mounting Option

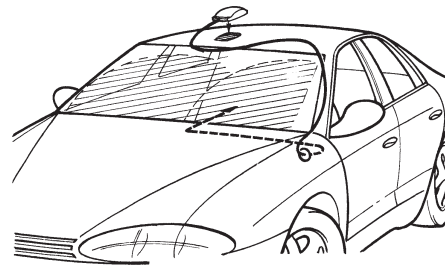


Figure 7. Route XM Antenna through windshield as shown.

- For antenna mounting locations at the rear of the roof, the antenna cable can be routed into the vehicle through the trunk, as shown in figure 8. Always route the cable under the weather seal near the lowest part of the trunk to help reduce possible water leaks.
- Use pre-existing wiring channels created by the vehicle manufacturer whenever possible.

Rear Mounting Option

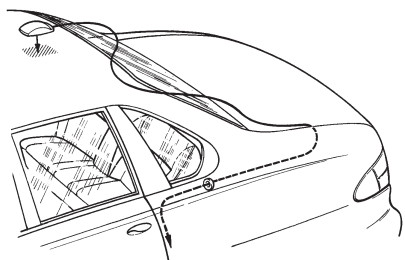


Figure 8. Route XM Antenna wiring as shown.

Final installation

Verify that the antenna is in its final desired position. The antenna contains a powerful magnet that will secure the antenna to a metal roof under normal driving conditions.


Reference

Taking Care of Your Roady

(Failure to follow these instructions may result in personal injury or damage to your Roady Receiver or to your vehicle.)

Important:

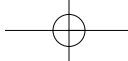
- Use only a soft, dry cloth to clean the outside of your Roady and any peripherals.
- Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives.
- Do not allow liquids to spill on the unit.
- Do not use sprays near your Roady.
- It is best to keep Roady out of direct sunlight or other sources of extreme heat.
- Avoid placing Roady in a setting where air cannot circulate around the unit.

 **Caution:** Refrain from using food or drinks near the Roady Receiver. Spilling food or drinks on the unit could damage it.

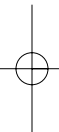
Troubleshooting

Your Roady Receiver is designed and built to provide you with trouble-free performance without the need for service. If it does not appear to be functioning correctly, please follow these troubleshooting steps:

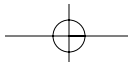
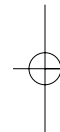
1. Make sure all connectors are properly attached.
2. Make sure the cigarette lighter/auxiliary power socket is clean and free of corrosion.
3. Make sure the adaptor is firmly seated in the cigarette lighter/auxiliary power socket.
4. Check the adaptor fuse by unscrewing the ribbed end of the adaptor and examining it. If required, replace with a 1-amp fuse only. If your cigarette lighter adaptor 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.

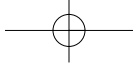


If you see this on the display:	You should:
<p>NO SIGNAL Cause: The XM signal is being blocked.</p>	<p>The message should disappear as soon as you move out of an obstructed area such as an indoor garage. If the problem persists, make sure your antenna is mounted outside and on top of your car with a clear view of the sky.</p>
<p>ANTENNA</p>	<p>Make sure antenna is correctly attached to the receiver and that antenna cable is undamaged and free from kinks. Turn the Roady Receiver off and back on to reset this message.</p>
<p>OFF AIR Cause: The channel selected is not currently broadcasting.</p>	<p>Tune in to another channel.</p>



If this happens:	You should:
<p>You do not receive all XM channels. Cause: Your Roady Receiver is not activated.</p>	<p>Contact XM as described in "Getting Started: Activating Roady" on page 6.</p>
<p>The audio sounds distorted</p>	<p>Reduce audio-output level as described under "Menu Commands and Settings: Audio Level" on page 13.</p>
<p>The audio level is too low</p>	<p>Increase audio-output level as described in "Menu Commands and Settings: Audio Level" on page 13.</p>
<p>You cannot tune to a channel</p>	<p>Verify that you are authorized to receive that channel as part of your subscription with XM and that you have not asked XM to block that channel on your Roady unit.</p>
<p>No song title or artist name displays</p>	<p>Nothing is wrong with your receiver. This is normal on many talk and news channels where there is no song playing. Also, this information may not yet be in the channel lineup for some selections.</p>





Contacting Product Technical Support and Customer Service

For additional information in solving problems with your Roady Receiver, contact Delphi at 1.877.GO DELPHI (1.877.463.3574) Monday—Friday.

- Customer Service: 8:00 am—4:30 pm Eastern Standard Time
- Technical Support: 8:00 am—8:00 pm Eastern Standard Time

Customer Service and Technical Support is also available at www.delphi.com.

Technical Information

Dimensions

Roady Receiver 3.97 in. W x 2.37 in. H x 1 in. D
(101 mm x 61 mm x 25.4 mm)

Weight

Roady Receiver 5.1 oz.
(144.6 g)

Inputs/Outputs

Antenna RF SMB connector
 Power P13 connector, 6V DC, 600 mA average, (⊖—⊕—⊖)
 positive polarity
 Audio output 3.5 mm diameter ministerejo jack

XM Satellite Radio Limited Consumer Warranty

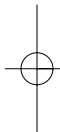
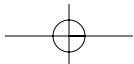
Delphi Product and Service Solutions (“Delphi”) warrants all XM Satellite Radio Products sold by Delphi (“Products”) to be free of defects in material and workmanship, subject to the following conditions.

The duration of Delphi’s warranty with respect to Delphi XM Satellite Radio Products 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. Under no circumstances will Delphi be liable for any incidental or consequential damages under this warranty or any implied warranties.

Delphi will not be responsible for damage resulting from any (i) deviation from 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) service by anyone other than a Delphi authorized repair facility, or (xi) other improper application, installation or operation of the Product.



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 remainder of the 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 provide a daytime phone 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 of any Product.

How state law relates to the warranty:

Some states do not allow limitations on how long implied warranties last, 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.