



User Guide

Starmate 5

Plug & Play SIRIUS Radio



Here's your new **SIRIUS® Starmate ST5** **Plug & Play Radio**

Your new SIRIUS Starmate ST5 Plug & Play Radio comes with everything you need to enjoy SIRIUS® in your car. And with available SIRIUS Universal Docking accessories you can use your Starmate ST5 just about anywhere.

Your new Starmate ST5 gives you powerful features:

- >> SIRIUS Replay™ – Pause, rewind and replay up to 44 minutes of live radio.
- >> Memo function – Store up to 30 favourite songs and artists plus a favourite sports team or NASCAR® car and get an alert whenever they're playing on any channel.
- >> Easy-to-read wide-angle 5-line display.
- >> Built-in wireless FM transmitter so you can listen to SIRIUS through your car's FM stereo. An FM Presets button makes transmitter frequency changes quick and easy.
- >> Full-function wireless remote control

Use this manual to familiarize yourself with all of your SIRIUS Starmate ST5's features and capabilities. For the latest information about your ST5 and other SIRIUS products and accessories, visit <http://www.siriuscanada.ca>.

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Warning & Safety Information



Warning

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Canadian Compliance

This Class B digital apparatus complies with Canadian ICES-003.

IC STATEMENT

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. For product available in the Canada market, only channel 1-11 can be operated. Selection of other channels is not possible. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p) is not more than that permitted for successful communication. IC Radiation Exposure Statement: This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

General Precautions

Liquid Crystal Precautions

If the LCD screen on the radio is damaged, do not touch the liquid crystal fluid. If any of the following situations happen, take the action indicated:

1. If the liquid crystal fluid comes in contact with your skin, wipe the skin area with a cloth and then wash the skin thoroughly with soap and running water.
2. If the liquid crystal fluid gets into your eye, flush the eye with clean water for at least 15 minutes. Seek medical care.
3. If the liquid crystal fluid is ingested, flush your mouth thoroughly with water. Drink large quantities of water and induce vomiting. Seek medical care.



Safety Precautions

Be sure to observe the following warnings. Failure to follow these safety instructions and warnings may result in a serious accident.

- Do not operate your SIRIUS ST5 in a way that might divert your attention from driving safely. As a driver, you alone are responsible for safely operating your vehicle in accordance with traffic safety laws at all times.
- Do not install the radio where it may obstruct your view through the windshield, or of your vehicle's indicator displays.
- Do not install the radio where it may hinder the function of safety devices such as an airbag. Doing so may prevent the airbag from functioning properly in the event of an accident.
- Be sure the radio and accessories are installed as described in these installation instructions and the instructions which accompany each accessory kit. SIRIUS Satellite Radio is not responsible for issues arising from installations which were not installed according to the instructions.
- Before attaching the suction cup mount to your windshield, you should check your state and local laws for regulations regarding mounting this device on your wind-

shield.

- To avoid short circuits, do not open the radio or accessories, and never put or leave any metallic objects (coins, tools, etc.) inside the radio.
- If the radio or accessories emit smoke or unusual odors, turn the power off immediately, and disconnect the radio from any power source.
- Do not drop the radio or subject it to strong shocks.
- If your ST5 doesn't seem to be working properly, turn it off, wait 10 seconds and then turn it on again.
- The installation and use suggestions contained in this manual are subject to any restrictions or limitations that may be imposed by applicable law. The purchaser should check applicable law for any restrictions or limitations before installing and/or operating this unit.
- Do not install the FM Transmitter Antenna where it will hinder or block your view. In some states it may be illegal to mount it on the windshield of your vehicle. Check applicable law for any restrictions or limitations before installing the FM Extender Antenna on your windshield.
- Do not install the FM Transmitter Antenna where it may hinder the function of safety devices such as an airbag. Doing so may prevent the airbag from functioning properly in the event of an accident.



Warnings

Operating Temperature

The radio is designed to operate between -20° to $+85^{\circ}$ C (-4° to $+185^{\circ}$ F). Avoid leaving the radio in a vehicle or elsewhere where the temperature may fall outside this range. Extreme temperatures or extreme temperature fluctuations can degrade the performance of the LCD display screen, and possibly damage it.

Cleaning and Maintenance

If the radio or accessories become dirty, turn the power off and wipe it clean with a soft cloth. Do not use hard cloths, strong cleaning fluids, paint thinner, alcohol, or other volatile solvents to clean. These may cause damage to the radio.

Cigarette Lighter Adapter

The Vehicle Dock cannot be powered directly from a vehicle's 12VDC power system. It must be powered from the vehicle's cigarette lighter or similar power port using the included Cigarette Lighter Adapter or an equivalent DC power adapter (see your local electronics dealer). Connecting the Vehicle Dock directly to the vehicle's 12VDC power system may result in damage to the Vehicle Dock or SIRIUS radio, or both.

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® “SIRIUS”, the SIRIUS dog logo, channel names and logos are trademarks of SIRIUS Satellite Radio Inc. All other trademarks, service marks, sports team names, album art, and logos are the property of their respective owners. All Rights Reserved.

™ “Starmate” is a trademark of SIRIUS Satellite Radio.

Portions of the software on this radio are licensed under the eCos License. Distribution of eCos requires that the eCos source code be made available to SIRIUS Satellite Radio customers. The eCos License and eCos source code are available to the public at <http://www.sirius.com/ecoslicense>.

SIRIUS Satellite Radio reserves all rights to all radio software not covered under the eCos license. This includes all portions of radio software that were not distributed to SIRIUS as part of the eCos operating system.

Hardware, subscription and activation fee required. For full Terms & Conditions, visit <http://siriuscanada.ca>. Prices and programming are subject to change. Not available in HI and AK. Equipment and subscription sold separately. Installation required with some equipment.

Package Contents

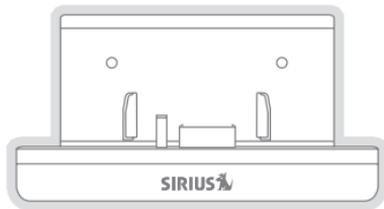
The following items are included with your SIRIUS Starmate ST5 radio:



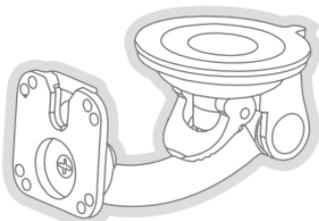
Starmate ST5 Radio



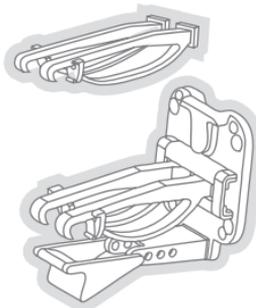
Remote Control



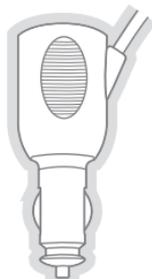
Vehicle Dock



Suction Cup Mount



Vent Mount &
Extended Vent Hooks



Cigarette Lighter
Adapter



Magnetic Antenna



Antenna
Cover/Tail



Mounting Screws



Alcohol Swab

Unpack your SIRIUS Starmate ST5 radio carefully and make sure that everything shown is present. If anything is missing or damaged, or if your SIRIUS Starmate ST5 fails to operate, notify your dealer immediately. We recommend that you retain the original carton and packing materials in case you need to ship your radio in the future.

Installation

SIRIUS suggests that you have your Starmate ST5 professionally installed in your vehicle. Professional installation provides an experienced technician to install this product in your vehicle, advice for selecting a suitable mounting location for the Vehicle Dock, installation of the antenna, and proper routing of all the necessary wires and cables. If the locations of your Starmate ST5 and your vehicle's FM antenna make the performance the ST5's built-in FM transmitter within your vehicle poor, a professional installer will have the necessary accessories to install an optional FM Direct Adapter or an audio cable to connect the audio output of the Vehicle Dock directly to your vehicle's audio system. Ask your SIRIUS retailer if they provide professional installation services, or can recommend a professional installation service.

Installing the Vehicle Dock

When installing the Vehicle Dock in your vehicle, choose a location in your vehicle where it will not block your vision, interfere with the vehicle controls, or obstruct the air bag. The location should be easily accessible and provide good visibility of the display, and should not be located where it will be in direct sunlight which will affect the visibility of the display screen.

The mounting accessories necessary to install the Vehicle Dock in a vehicle are provided. *Figure 1* shows two examples of the SIRIUS radio mounted in a vehicle: **A** is the suction cup mount method, and **B** is the vent mount method using the vent mount clip.

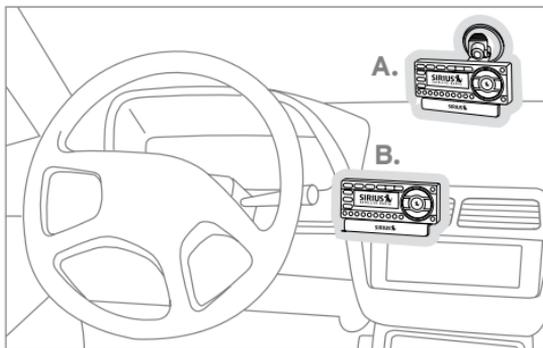
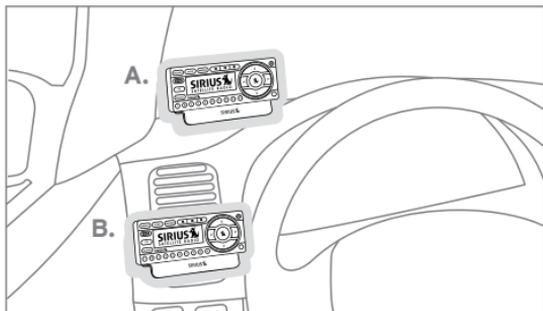


Figure 1

Depending upon the mounting location you select in your vehicle, the mount should be attached to the vehicle dock and installed as described in the following sections.

Suction Cup Mount Method (A)

The suction cup mount may be attached to any smooth surface. Before attaching the suction cup mount to your windshield, you should check your state and local laws for regulations regarding mounting this device on your windshield.

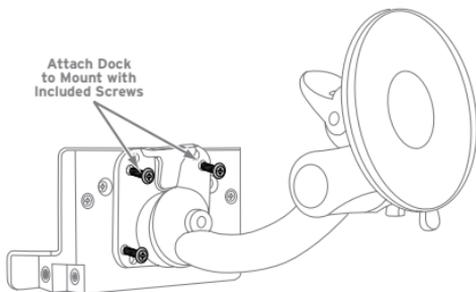


Figure 2

To mount the vehicle dock using the suction cup mount, assemble the mount as follows:

1. Attach the vehicle dock to the suction cup mount using the provided screws (see *Figure 2*).
2. Clean the area where you are attaching the suction cup with the supplied alcohol wipe.

3. Be sure the cam lever is up (as shown in *Figure 3*) and position the suction cup mount on the windshield or other location you which have chosen. Press the cam lever all the way down towards the base of the mount until it locks to adhere the suction cup. (To unlock the suction cup, lift the lever up.)

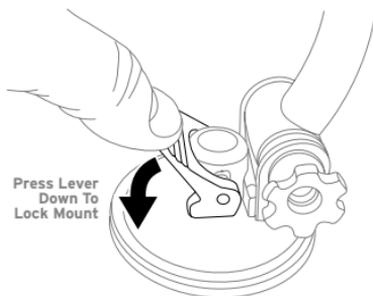


Figure 3

Vent Mount Method (B)

To mount the vehicle dock using the vent mount method, install the vent mount as follows:

1. If the vent louvers in your vehicle are recessed, you may need to use the longer vent hooks with the vent mount. Refer to *Figure 4* and install the longer vent hooks into the vent mount. Be sure to observe the orientation of the vent hooks as shown.
2. Attach the vent mount to the vehicle dock using the provided screws (see *Figure 5*).

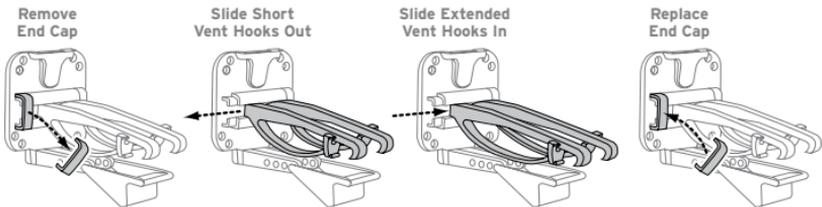


Figure 4

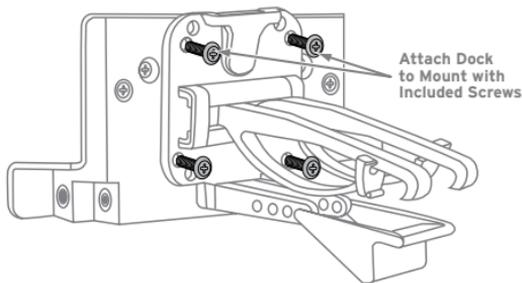


Figure 5

3. Refer to *Figure 6* and attach the vent mount to a heating/air conditioning vent in your vehicle. Position the two tension springs **A** against a vent louver **B**. Then push the vent mount into the vent, far enough so that the hooks **C** drop down and hook the rear of the vent louver (see *Figure 7*). Once you are sure that the hooks have grasped a vent louver, the tension springs **A** will keep the vent mount hooked to the louver.

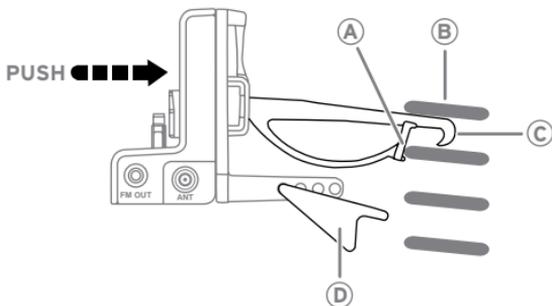


Figure 6

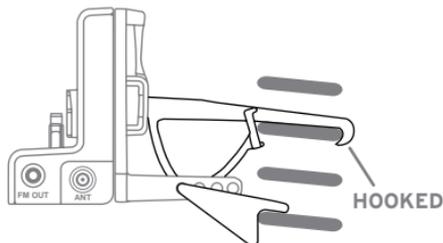


Figure 7

4. You can change the angle of the vehicle dock by changing the position of foot **D** on the vent mount to a different adjustment hole (see *Figure 8*).

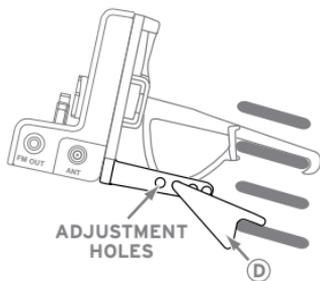


Figure 8

Installing the Magnetic Antenna

Caution

Because adhesive is used in the installation of the Rubber Antenna Cover/Tail, we recommend that you install the antenna at or above room temperature (68° F). The adhesive on the Rubber Cover/Tail may not adhere properly to the vehicle roof at temperatures lower than this. Warmer temperatures will also make it easier to route of the antenna cable through the rubber molding around the windows and in other areas in the vehicle. Maximum adhesion usually occurs within 72 hours at room temperature, so you should avoid car washes as well as other contact with the antenna and Rubber Cover/Tail during this 72-hour period.



Warning

Be sure not to cut, damage, or puncture the external jacket of the antenna cable during the installation procedure. Damage to the antenna cable can degrade the SIRIUS signal or make it unavailable, and can also cause water to intrude via the cable into the antenna causing the antenna to fail.

Do not lengthen or shorten the antenna cable by cutting it. Doing so will cause the antenna to not function properly.

Installation

Installing the magnetic antenna consists of two steps:

- Mounting the magnetic antenna and Rubber Antenna Cover/Tail on the vehicle
- Routing the antenna cable through the vehicle to the Vehicle Dock

Antenna Mounting

The SIRIUS Magnetic Mount Vehicle Antenna has a strong magnetic mount designed to hold it in place during normal driving conditions (highway/city). This also makes the antenna easy to remove for transferring it to other vehicles.

Figure 9 shows the optimal mounting location for the antenna on several types of vehicles. These mounting positions should be observed when installing the antenna:

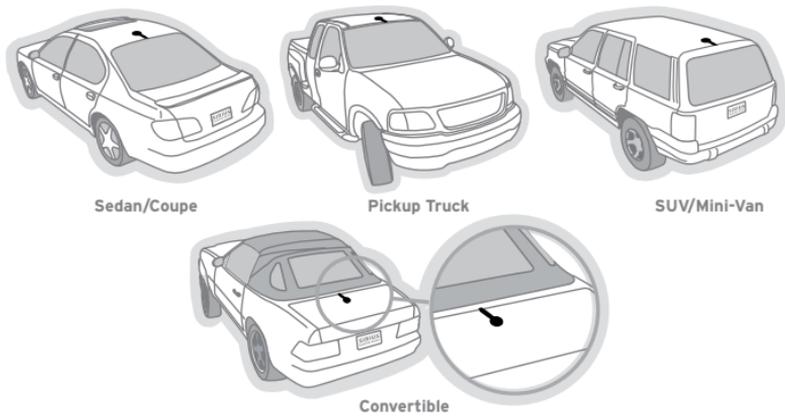


Figure 9

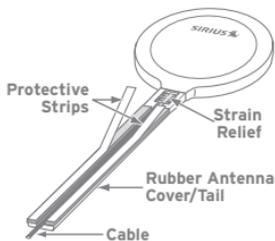
- **Sedan/Coupe/SUV/Mini-Van:** Install the antenna at the rear center of the roof, near the rear window.
- **Pickup Truck:** Install the antenna at the front center of the roof, near the windshield.
- **Convertible:** Install the antenna at the front center of the trunk lid, near the rear window.

The SIRIUS antenna needs to have an unobstructed area of **3 inches by 3 inches around it**. It is important to mount the antenna where no obstructions will block the antenna from receiving the SIRIUS signal. Objects which can obstruct the antenna could be a roof rack, a sunroof, a roof-mounted cargo container, another antenna, etc. If your vehicle has a potential obstruction, be sure that the SIRIUS antenna is mounted at least 3 inches away from it (but no closer than 3 inches from the edge of the roof or trunk lid).

Note: Read the **DO** and **DO NOT** installation tips beginning on page 32 for additional antenna installation information.

Follow this procedure to mount the antenna:

1. Select an appropriate mounting position for your type of vehicle that has an unobstructed area of 3 inches by 3 inches around the antenna.
2. Attach the Rubber Cover/Tail to the antenna, as shown in *Figure 10*, and press the antenna cable into the rubber cover/tail. The Rubber Cover/Tail will help to position the antenna the correct distance from the edge of the roof or trunk lid.



**Magnetic Antenna
(Upside-Down)**

Figure 10

3. Clean the surface area of the vehicle where you will be installing the antenna with the alcohol prep pad.

4. Peel the protective material from the adhesive strips (see *Figure 10*, on page 23) and press the rubber Cover/Tail firmly into place on the vehicle.
5. Double check that the location of the antenna and rubber cover/tail are correct, and continue to press firmly down on the Rubber Cover/Tail for another 30 seconds. At room temperature (68° F), maximum adhesion usually occurs within 72 hours. During this period, avoid car washes and other contact with the antenna and the Rubber Antenna Cover/Tail.

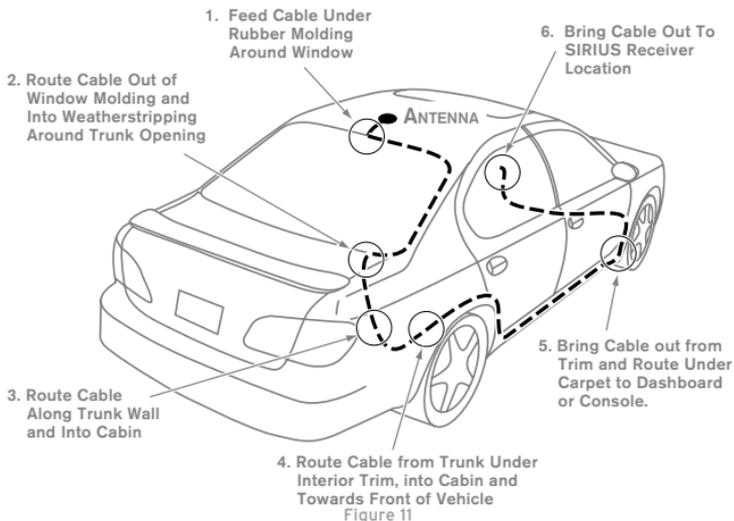
Cable Routing

After you have mounted the antenna you can route the antenna cable to the SIRIUS Vehicle Dock. Separate antenna cable routing procedures are provided for each type of vehicle: Sedan/Coupe, Pickup Truck, SUV/Mini-Van and Convertible.

Note that additional breakout illustrations for each step of the antenna cable routing procedures can be found on the SIRIUS website at <http://www.siriuscanada.ca>. Click on the **Install/Activate** link and then follow the link for the **Car Installation Tips**.

Sedan/Coupe Antenna Cable Routing Procedure

Figure 11 shows how the antenna cable should be routed from the antenna to your Starmate ST5 in a sedan/coupe.



Follow these detailed cable installation instructions:

1. Feed the cable from the antenna underneath the rubber molding around the rear window. Use a plastic putty knife or similar object to lift the rubber molding around the rear window and tuck the antenna cable underneath the molding. Route the antenna cable around and down the window to the lowest point. If your rear window does not have rubber molding, SIRIUS recommends consulting with a professional installer.

2. Route the antenna cable out of the window molding and into the rubber weather stripping around the trunk opening. Lift the weather stripping from the opening and tuck the cable inside it, then replace the weather stripping. To avoid sharp bends in the cable, run the cable inside of the weather stripping for a few inches, then remove the cable from the weather stripping inside of the trunk. Keep the cable away from hinges, gears, etc., that could damage it.
3. Route the cable out from the rubber weather stripping and along the trunk wall. Continue routing the cable into the cabin through a conduit or along an existing wiring harness.
4. Route the cable through the main cabin area under the interior trim, towards the front of the vehicle. Use the plastic putty knife to lift the plastic trim just enough to tuck the cable underneath. Avoid side airbag locations on back pillars and above the doors. (Airbag locations are marked with "SRS" logos.) Be careful not to crimp or cut the cable.
5. Bring the cable out from the trim near the firewall and route it under the carpet toward the dashboard or console. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with wire ties.
6. Bring the end of the cable out at the SIRIUS Vehicle Dock location. Leave yourself enough cable so you can easily connect it to the antenna connector on the Vehicle Dock.

Pickup Truck Antenna Cable Routing Procedure

Figure 12 shows how the antenna cable should be routed from the antenna to your Starmate ST5 in a pickup truck.

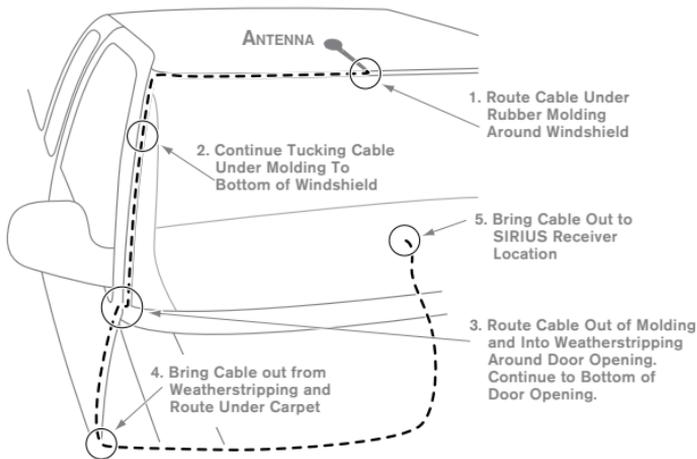


Figure 12

Follow these detailed cable installation instructions:

1. Use a plastic putty knife or similar tool to lift the rubber molding around the windshield and tuck the antenna cable underneath it.
2. Continue tucking the cable underneath the windshield molding around the windshield to the lowest corner.

3. At the lowest corner of the windshield, route the cable out of the windshield molding and into the rubber weather stripping around the door opening. Lift the weather stripping from the opening and tuck the cable inside it, then replace the weather stripping. Run the cable inside of the weather stripping to the bottom of the door opening.
4. Pull the cable out of the weather stripping at the bottom of the door opening and route it under the carpet toward the dashboard. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with wire ties.
5. Bring the end of the cable out at the SIRIUS Vehicle Dock location. Leave yourself enough cable so you can easily connect it to the antenna connector on the Vehicle Dock.

SUV/Mini-Van Antenna Cable Routing Procedure

Figure 13 (opposite) shows how the antenna cable should be routed from the antenna to your Starmate ST5 in an SUV or a Mini-Van.

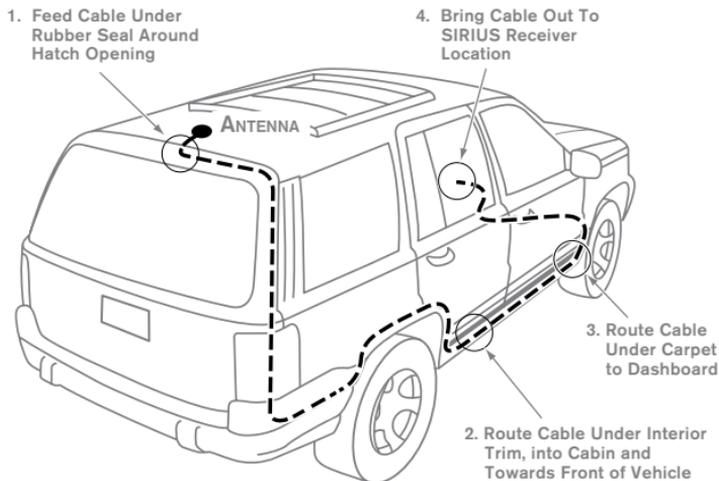


Figure 13

Follow these detailed cable installation instructions:

1. Feed the antenna cable underneath the rubber weather stripping of the rear tailgate window/door and route the cable along the rear hatch. Lift the weather stripping from the opening and tuck the cable inside it, then replace the weather stripping. Pull the cable out from weather stripping and route it into the cabin under the interior trim. Avoid hinges or gears that could crimp or cut the cable.
2. Route the cable through the SUV's main cabin area under the interior trim, towards the front of the vehicle. Use a plastic putty knife to lift the plastic trim just enough to tuck the cable underneath. Avoid side airbag locations on back pillars and above the doors. (Airbag locations are marked with "SRS" logos.) Be careful not to crimp or cut the cable.

3. Bring the cable out from the trim near the firewall and route it under the carpet toward the dashboard or console. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with wire ties.
4. Bring the end of the cable out at the SIRIUS Vehicle Dock location. Leave yourself enough cable so you can easily connect it to the antenna connector on the Vehicle Dock.

Convertible Antenna Cable Routing Procedure

Figure 14 shows how the antenna cable should be routed from the antenna to your Starmate ST5 in a convertible.

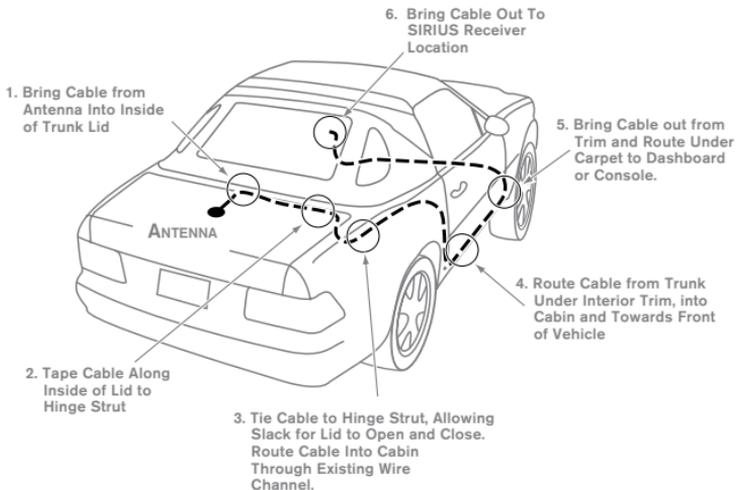


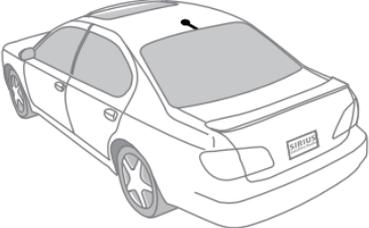
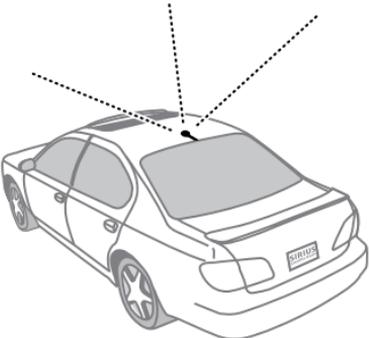
Figure 14

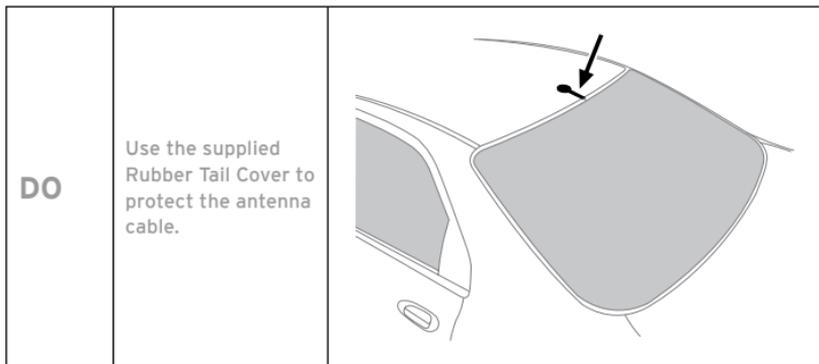
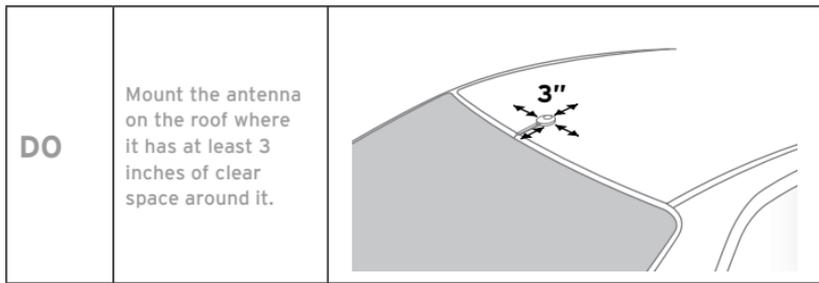
Follow these detailed cable installation instructions:

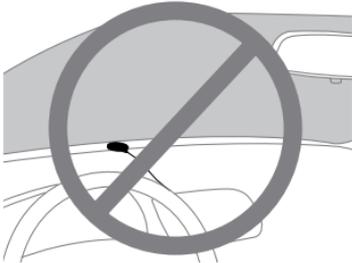
1. Bring the cable from the antenna into the trunk at the front edge of the trunk lid. Keep any bends in the cable loose. Tape or tie the cable along the inside of the trunk lid to the trunk lid hinge strut.
2. Allow enough slack in the cable so the trunk lid can easily open and close and keep the cable away from hinges, gears, etc., that could crimp or cut it. Route the cable along the trunk wall and into the cabin through a conduit or along an existing wiring harness.
3. Route the cable through the main cabin area under the interior trim, towards the front of the vehicle. Use a plastic putty knife to lift the plastic trim just enough to tuck the cable under underneath. Avoid side airbag locations on back pillars and above the doors. (Airbag locations are marked with “SRS” logos.) Be careful not to crimp or cut the cable.
4. Bring the cable out from the trim near the firewall and route it under the carpet toward the dashboard or console. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with wire ties.
5. Bring the end of the cable out at the SIRIUS Vehicle Dock location. Leave yourself enough cable so you can easily connect it to the antenna connector on the Vehicle Dock.

Tip**Antenna Installation Tips**

The following **DO** and **DO NOT** antenna mounting tips illustrate how to install the antenna for optimal performance, and also illustrate where the antenna should not be installed.

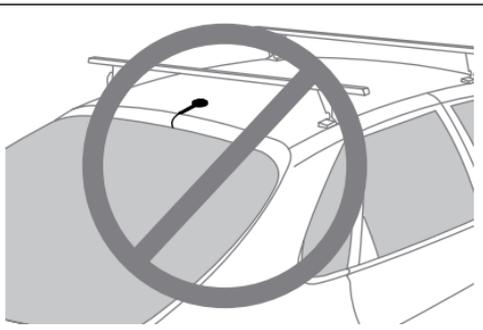
DO	Mount the antenna on the roof, at least 3 inches from the edge.	 A line drawing of a car from a rear three-quarter view. A small antenna is mounted on the roof, positioned towards the rear edge but clearly set back from it.
DO	Mount the antenna on the roof where it has a clear view of the sky in all directions.	 A line drawing of a car from a rear three-quarter view. An antenna is mounted on the roof. Three dashed lines radiate from the antenna in different directions, indicating a clear view of the sky.



DO NOT	Don't mount the antenna inside the vehicle, for example, on the dashboard.	
DO NOT	Don't mount the antenna on any of the vehicle's front, back or side pillars.	

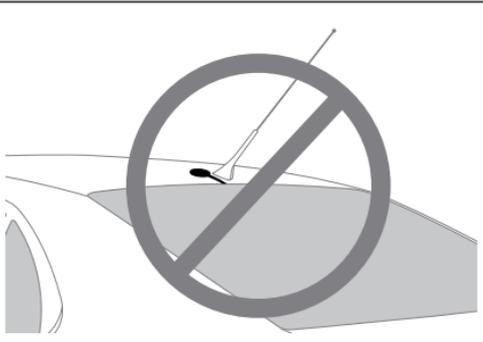
**DO
NOT**

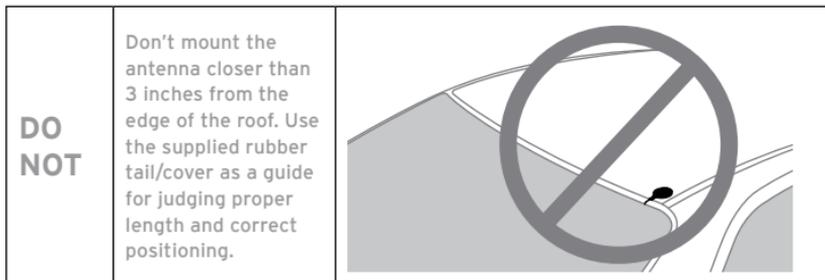
Don't mount the antenna close to a roof rack. Adjust the rack so it's further away from the antenna or move the antenna closer to the center of the roof.



**DO
NOT**

Don't mount the antenna close to another antenna. Mount it at least 3 inches away.





After you've routed the cable to the SIRIUS Vehicle Dock, connect the antenna cable to the ANT connection on the left side of the Vehicle Dock. (See *Figure 15*.)

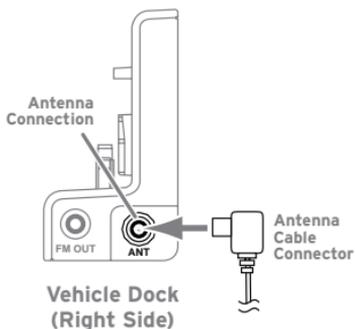


Figure 15

Connecting the Cigarette Lighter Adapter

Connect the provided cigarette lighter adapter to the PWR connector on the right side of the Vehicle Dock (see *Figure 16*).

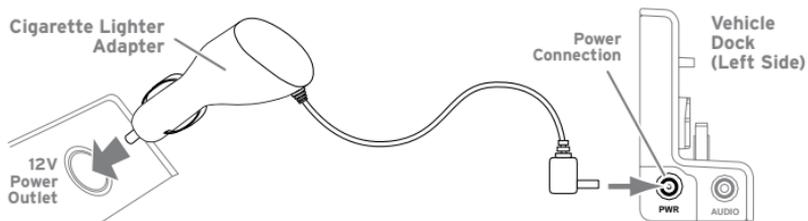


Figure 16



IMPORTANT: DO NOT POWER THE VEHICLE DOCK DIRECTLY FROM YOUR VEHICLE'S 12VDC POWER SYSTEM WITHOUT USING THE CIGARETTE LIGHTER ADAPTER. DOING SO COULD DAMAGE THE VEHICLE DOCK, YOUR STARMATE ST5 OR BOTH.

Docking the Starmate ST5

To place your SIRIUS ST5 into the Vehicle Dock, align the radio against the rear of the Dock so that the rails on the Dock fit into the mounting slots in the back of the radio (see *Figure 17*). Slide the radio all the way down onto the Dock so that it fits firmly.

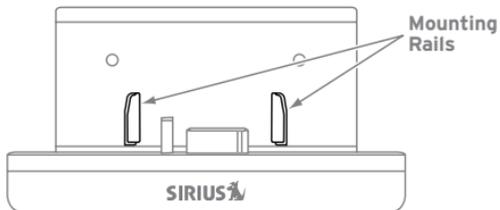


Figure 17

Cable Separation and Routing



FCC Information

The satellite antenna cable, FM transmitter antenna (FMTA) cable and cigarette lighter adapter (CLA) power cable must be appropriately separated and routed for your radio to be compliant with federal regulations.

Step 1

The connections on your vehicle dock are clearly marked. Install your vehicle dock and connect the antenna cable into the connection labeled “ANT”, the CLA power cable into the power connection marked “PWR” and the FTMA cable into the connection marked “FM OUT”. (See *Figure 18*.)

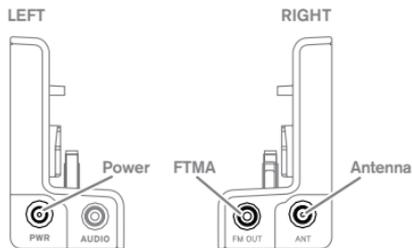


Figure 18

Step 2

It is important that you keep the three cables as separate from each other as possible and that you keep the two antenna cables away from the vehicle dock and from the CLA power cable. The cables must not be bundled together as they exit the dock (see *Figure 19*, on page 40).

As a guide, you can follow the diagram in *Figure 19*, adapting the example to suit your own vehicle's configuration. For example, if your cigarette lighter socket is to the left of the vehicle dock, route the two antenna cables towards the passenger side of the vehicle. If your cigarette lighter socket is on the right-hand side of the vehicle dock, route the two antenna cables towards the driver's door. The CLA cable and antenna cables **MUST** be routed in opposite directions. Safely conceal all antenna cables within door, carpet or cash panels to prevent snags and interference.

Step 3

Coil any excess cable between the cigarette lighter socket and vehicle dock, keeping it away from vehicle pedals or controls to prevent any slack which might interfere with the safe operation of your vehicle. Secure the excess cable with wire ties. If possible, tuck the coiled part in a hidden location, such as in between the carpet and plastic panel of the front console (see *Figure 20*).

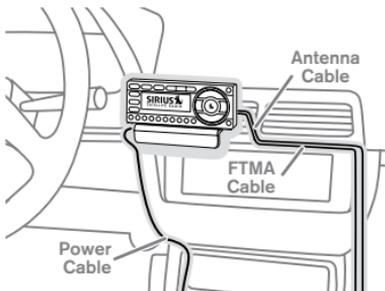


Figure 19

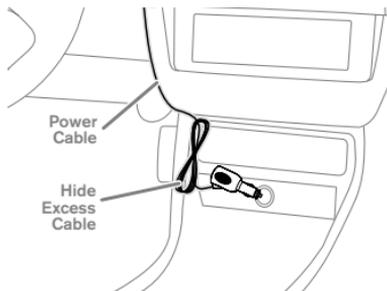


Figure 20

Step 4

Follow the instructions in this manual to install, route and hide the antenna cable and the FTMA cable. Be sure to coil and secure any excess cable in a hidden location, such as under the carpet on the passenger side, keeping it away from vehicle pedals and controls. The bundled cables should be as far away from the CLA power cable as possible (see *Figure 21*).

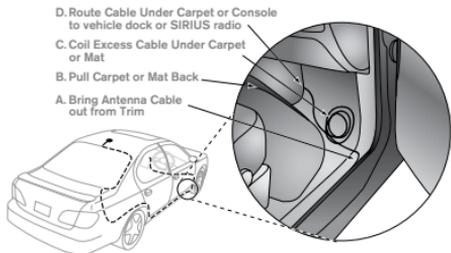


Figure 21

Connecting the Starmate ST5 to Your Vehicle's Audio System

There are two ways to connect your SIRIUS Starmate ST5 to your vehicle's audio system: Direct Connection or Wireless Connection. Which one will perform best in your vehicle depends on your vehicle's audio system. For the latest information go to <http://www.siriuscanada.ca/vehicleinstallation>.

Direct Wired Audio Connection

If your vehicle's audio system has an "Aux In" or "LINE IN" jack it is the best-quality audio connection you can use for your SIRIUS radio. (And if the Aux In or LINE IN connector is located somewhere on the front of your vehicle radio or elsewhere in the cabin, this is also the easiest way to connect your SIRIUS receiver.)

1. Purchase an audio cable that matches the connection type of your vehicle's audio system and your SIRIUS Vehicle Dock at your local electronics retailer.
 - The Vehicle Dock requires a male $\frac{1}{8}$ " stereo connector.
2. Plug the cable's male $\frac{1}{8}$ " stereo connector into the AUDIO jack on the left side of the Vehicle Dock. Plug the other end into the Aux In/LINE IN connector on your vehicle's audio system (see *Figure 22*).

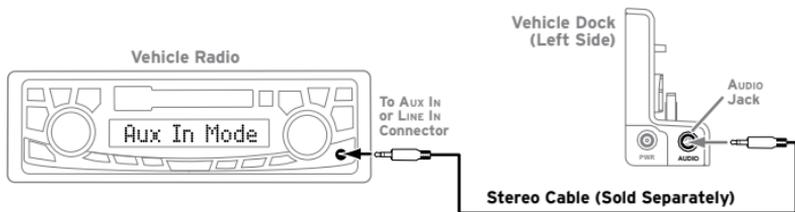


Figure 22

Direct FM Audio Connection

If your vehicle's audio system does not have an Aux In/Line In connection, a SIRIUS FM Direct Adapter (sold separately) will provide the next-best quality connection between your Starmate ST5 and your vehicle radio. You will listen to your ST5 through your car radio's FM tuner, but the SIRIUS FM Direct Adapter connects your vehicle's FM radio directly to the Vehicle Dock's FM Out jack, eliminating the outside static and interference you sometimes experience when using a wireless FM connection (see *Figure 23*).

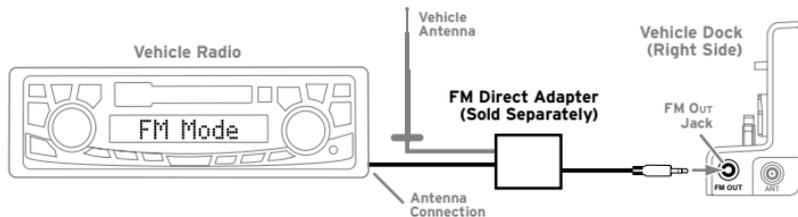


Figure 23

NOTE: PROFESSIONAL INSTALLATION MAY BE REQUIRED. SEE YOUR LOCAL SIRIUS RETAILER. THE SIRIUS FM DIRECT ADAPTER IS AVAILABLE AT YOUR LOCAL SIRIUS RETAILER OR AT [HTTP://SHOP.SIRIUSCANADA.CA](http://shop.siriuscanda.ca). FOLLOW TO THE INSTRUCTIONS INCLUDED WITH THE FM DIRECT ADAPTER.

Cassette Adapter

If your vehicle's audio system has a cassette player you can purchase a cassette adapter from your local electronics retailer or from SIRIUS at <http://shop.siriuscanada.ca>. Plug the adapter's connector into the Audio jack on the left side of the Vehicle Dock, and insert the adapter into your vehicle's cassette player (see *Figure 24*).

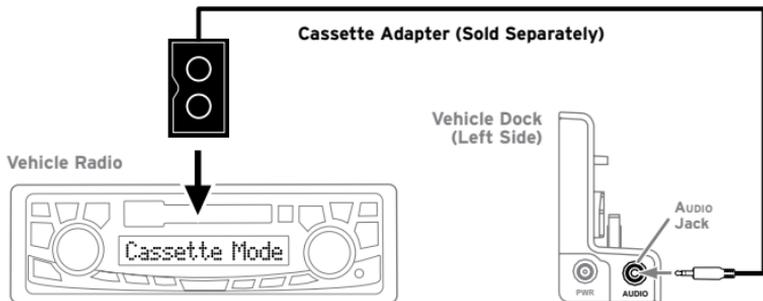


Figure 24

NOTE: REFER TO THE CASSETTE ADAPTER'S INSTRUCTIONS FOR CORRECT USE.

Wireless Connection

If you cannot connect your SIRIUS radio directly to your vehicle's audio system, your Starmate ST5 contains an FM transmitter that will 'broadcast' its audio to your vehicle's FM radio.

To use this you need to tune the ST5's FM transmitter to an FM frequency that's not being used in your area (If you use an FM channel that is being used by a local broadcaster, it will interfere with your ST5's performance.) See *Figure 25*.

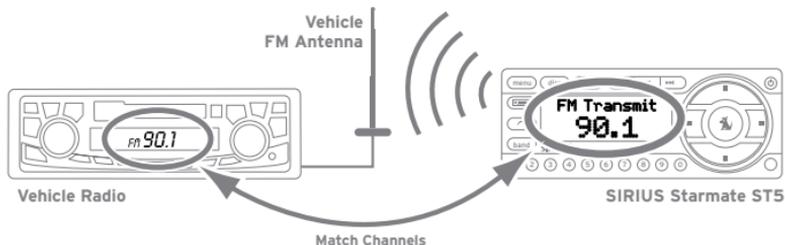


Figure 25

1. Tune through your vehicle radio's FM channels to find an FM channel (between 88.1MHz and 107.9MHz) that is not broadcasting in your area.
2. Once you have located an FM channel that is not broadcasting in your area, save it as a preset on your vehicle radio. This will become your SIRIUS preset.
3. Dock your Starmate ST5 and turn its power ON. Wait for the *Channel Update* to finish before pressing any buttons.

- Press and hold the FM PRESETS button (see *Figure 26*). The FM PRESETS screen will appear, with FM1 highlighted. FM1 is factory-set to 88.1MHz. This may not be the best frequency for your area (see *Figure 27*).

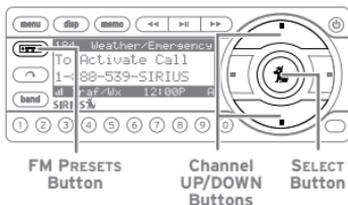


Figure 26

FM Presets	
FM1	88.1 MHz
FM2	(EMPTY)
FM3	(EMPTY)
FM4	(EMPTY)

Figure 27

- Press the Select button. The FM1 frequency screen will appear (see *Figure 28*, left).

(EMPTY)
88.1 MHz
88.3 MHz
88.5 MHz
88.7 MHz

89.3 MHz
89.5 MHz
89.7 MHz
89.9 MHz
90.1 MHz

Figure 28

- Use the Channel UP/DOWN buttons to highlight the FM frequency that matches the channel that you preset on your vehicle radio in *Step 2*, then press the Select button to select it (see *Figure 28*, right).

To listen to your SIRIUS radio, turn your SIRIUS radio ON, then turn your vehicle's FM radio ON and press the SIRIUS preset you set in *Step 2*, on page 44.

Tip

If you regularly travel between cities with different active FM channels, you may need to find channels that are not broadcasting in each city. Your Starmate ST5 can store up to 5 preset FM transmit channels (see *Figure 27*, on page 45), so you can easily switch to the best FM channel for each city.

- To switch the FM transmit preset, press the FM PRESETS button on the ST5 front panel, or the remote. (See pages 49 - 52)

If you're not sure which FM channels are not broadcasting in your home or travel cities, you can also go to <http://www.siriuscanada.ca/fmchannel> and search for a suggested FM channel based on your zip code.

Installing the FM Transmitter Antenna

Note: You will only need to install the FM Transmitter Antenna (FMTA) if you are using the wireless connection option. The use of the FMTA is highly recommended to improve your audio quality.

The FMTA brings the FM signal transmitted by your SIRIUS radio closer to your vehicle's FM antenna to provide a strong FM signal for good reception. To install the FMTA:

1. Connect the FMTA to the vehicle dock. Insert the FMTA 2.5 mm plug into the FM OUT connector of the vehicle dock. (See Figure 29, left.)
2. Position FMTA inside the vehicle. The FMTA wire should be run with the power adaptor wire, and placed on the dash board or even placed under the dash pad (if possible). (See Figure 29, right.) If your Stiletto is mounted to the center console, the FTMA wire should be run along console.
3. Hide the wires. Depending on the position of your Stiletto, hide the wires by tucking them into the seams in the dash board or the console seams where possible.

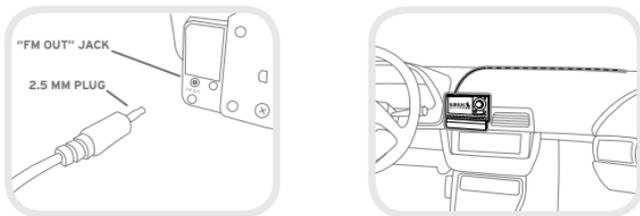


Figure 29

Subscribing to the SIRIUS Service

Before you can listen to the SIRIUS service, you need to subscribe to the SIRIUS Satellite Radio service. To subscribe, do the following:

1. Be sure that your SIRIUS Starmate ST5 is correctly installed, is properly docked in the Vehicle Dock, and that the antenna is oriented to receive the SIRIUS signal.
2. Turn on the ST5. After the startup sequence, it will update the SIRIUS channel line-up (see *Figure 30*). Wait until the channel updates have completed before pressing any buttons.
3. Once the channels have been updated, the ST5 will automatically tune to channel 184 and the display will change to *To Activate Call 1-888-539-SIRIUS* (see *Figure 31*). You will not be able to listen to any other channels until you activate your SIRIUS subscription.

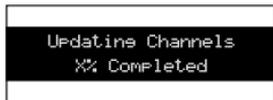


Figure 30

4. To display your Starmate ST5's SIRIUS ID (SID) number, tune to channel 0 by pressing the SELECT button, then the 0 (zero) button, and then the SELECT button again (see *Figure 32*). The SID number is also available on your ST5's packaging. Write the SID number down.

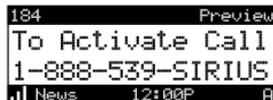


Figure 31

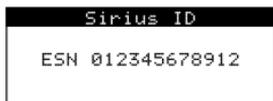


Figure 32

5. Have your credit card handy and contact SIRIUS on the Internet at home.siriuscanada.ca/. You can also call SIRIUS toll-free at: 1-888-539-SIRIUS.



Figure 33

6. When you have successfully subscribed to the SIRIUS service an alert will be displayed (see *Figure 33*). To continue, press any button on the front panel.

You are now ready to begin enjoying SIRIUS Satellite Radio's digital entertainment, and can tune to other channels!

Controls

Starmate ST5 Front Panel

Figure 34 and the section following identify and describe your SIRIUS Starmate ST5's buttons and controls.

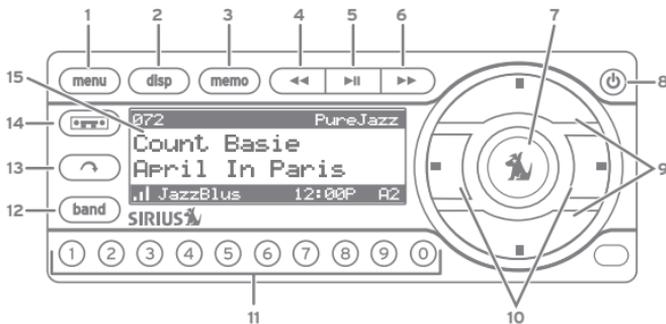


Figure 34

- 1. Menu Button:** Accesses Menu options to make setup and feature changes.
- 2. Display (DISP) Button:** Toggles the Default display screen between the normal display mode and large text display mode (see page 59). Pressing and holding switches the display to the MY CHANNELS screen (see page 58).
- 3. Memory (MEMO) Button (S-Seek Function):** Saves and recalls artist names, song titles, and sports teams. You can store up to 30 artist/song title combinations, including your favourite sports teams/cars and traffic channels. Pressing and hold-

ing the MEMO button will enter the recall mode, displaying the stored information.

4. **Rewind Button:** Rewinds through a broadcast saved in SIRIUS Replay.
5. **Play/Pause Button:** Pauses and replays live or time-shifted content from the currently tuned channel. Pressing and holding this button displays the list of content saved in SIRIUS Replay.
6. **Fast-Forward Button:** Fast-forwards through a broadcast saved in SIRIUS Replay.
7. **Select Button:** Selects items highlighted on the display screen. When the Default screen is displayed, a press-and-release of the SELECT button will display a prompt to enter a channel number. Pressing and holding will return to the last channel played.
8. **Power Button:** Turns the ST5 ON and OFF.
9. **Channel Up/Down Buttons:** Navigate through channels and display screens, and highlight items on the display.
10. **Category </> Buttons:** Navigate through the Category List screens, which display SIRIUS channel categories. Pressing and holding the buttons provides a shortcut for adjusting the display's brightness without having to enter the Menu Options (see page 79).
11. **Preset Number Buttons (0 - 9):** Set and select preset channels. Also used to directly tune channels by entering the channel number.
12. **BAND Button:** Pressing and releasing this button switches between preset banks A, B, and C, which hold 10 presets each for a total of 30. Pressing and holding this button switches to the MY PRESETS category, which lets you see what artists and songs are playing on each of your stored presets.
13. **Jump Button:** Quickly switches between the current channel and a favourite (or frequently-accessed) channel.
14. **FM Presets Button:** Selects between different preset frequencies used by the built-in wireless FM transmitter.
15. **LCD Display Screen:** Provides information about the ST5's operation, the program that is playing and other programming that is available.

Starmate ST5 Remote Control Buttons

Figure 35 and the section following identify the buttons of your ST5's remote control.

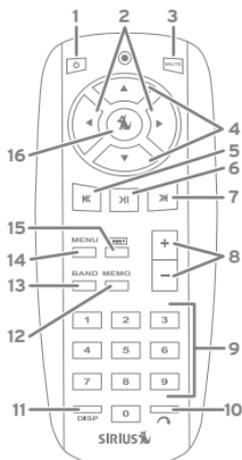


Figure 35

- 1. Power Button:** Turns the ST5 **ON** and **OFF**.
- 2. Category </> Buttons:** Navigate through the Category List screens, which display SIRIUS channel categories. Pressing and holding the buttons provides a shortcut for adjusting the display's brightness without having to enter the Menu Options (see page 79).
- 3. MUTE Button:** Mutes the audio. When the ST5 is muted an icon appears in the lower-left corner of the display, replacing the Band/Preset Bank Number indicator.

4. **Channel Up/Down Buttons:** Navigate through channels and display screens, and highlight items on the display.
5. **Rewind Button:** Rewinds through a broadcast saved in SIRIUS Replay.
6. **Play/Pause Button:** Pauses and replays live or time-shifted content from the currently tuned channel. Pressing and holding this button displays the list of content saved in SIRIUS Replay.
7. **Fast-Forward Button:** Fast-forwards through a broadcast saved in SIRIUS Replay.
8. **Volume +/- Buttons:** Adjusts the audio volume up & down.
9. **Number Buttons (0 - 9):** Set and select preset channels. Also used to directly tune channels by entering the channel number.
10. **Jump Button:** Quickly switches between the current channel and a favourite (or frequently-accessed) channel.
11. **DISP (Display) Button:** Toggles the Default display screen between the normal display mode and large text display mode (see page 59). Pressing and holding switches the display to the MY CHANNELS SCREEN (see page 58).
12. **Memory (MEMO) Button (S-Seek Function):** Saves and recalls artist names, song titles, and sports teams. You can store up to 30 artist/song title combinations, including your favourite sports teams/cars and traffic channels. Pressing and holding the MEMO button will enter the recall mode, displaying the stored information.
13. **BAND Button:** Pressing and releasing switches between the five preset banks (A, B, C), which hold ten presets each. Pressing and holding this button switches to the MY PRESETS category, which lets you see what artists and songs are playing on each of your stored presets.
14. **MENU Button:** Accesses Menu options to make setup and feature changes.
15. **FM Presets Button:** Selects between preset FM frequencies used for the ST5's built-in wireless transmitter.
16. **Select Button:** Selects items highlighted on the display screen. When the Default Screen is displayed, a press-and-release of the Select button will display a prompt to enter a channel number. Pressing and holding will return to the last channel played.

Remote Control Battery Installation

To install the remote control battery, turn the remote control over and locate the battery cover near the bottom edge. Open the battery compartment and place the battery in the compartment with the + side of the battery facing up. Replace the battery cover on the remote control. See *Figure 36*.

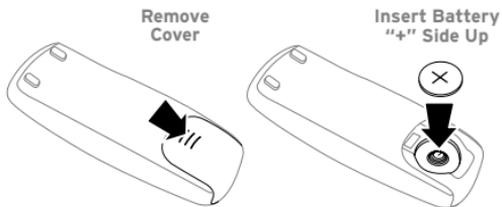


Figure 36

Vehicle Dock Reference Guide

Figure 37 and the section following identify and describe the controls and connectors of the vehicle dock.

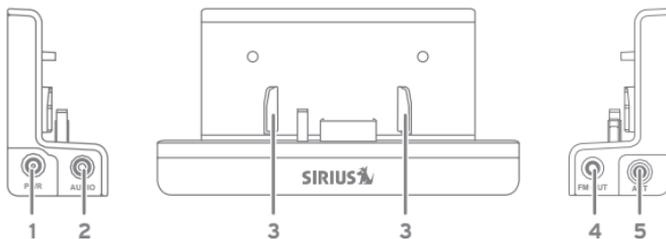


Figure 37

- 1. Power (Pwr) Connector:** Power connection for the supplied cigarette lighter adapter (see page 37).
- 2. Audio Out (Audio) Connector:** Audio output for directly connecting to your vehicle's audio system (see pages 41 & 43).
- 3. Docking Rails:** Fit-into slots in the back of the ST5 to secure it while it is docked (see page 40).
- 4. FM Out Connector:** FM output for use with the optional FM Direct Adapter (see page 42).
- 5. Antenna (Ant) Connector:** Connection for the supplied magnetic antenna (see page 36).

Operation

Display Screen Information

Your SIRIUS Starmate ST5's 5-line LCD display screen provides information about the operation of the radio, such as the currently-tuned channel, song or show being played, artist name, time and other information. This screen is referred to as the *Default* screen in this manual. *Figure 38* identifies the information displayed on the Default screen when listening to a typical broadcast.



Figure 38

Whenever you power your ST5 **ON**, the previously-selected channel will automatically begin playing, and the currently-playing artist name and song title will be displayed.

Changing Channels and Categories

Pressing the Channel UP or DOWN button will immediately tune to the next or previous subscribed channel.

Pressing the Category < or > button once will display a list of the subscribed channels in the current category, highlighting the currently-tuned channel (see *Figure 39*). This is the *Category List* mode.

Pop	
005	Sirius Gold
006	'60's Vibrations
007	Totally '70s
008	Biz '80s

Figure 39

Pressing the Category < or > button again will display a listing of the previous or next channel category.

If you repeatedly press the DISP button while in the Category List mode, the display will sequence between listings of currently-playing artist names, song titles, and back to channel names within the current category (see *Figure 40*).

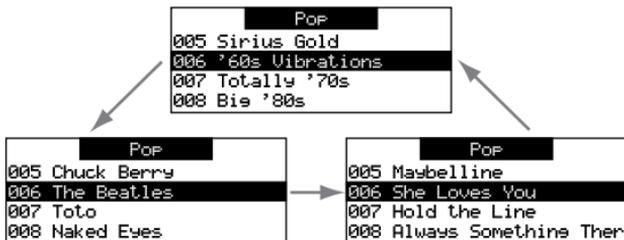


Figure 40

Use the Channel UP/DOWN buttons to highlight a channel within a category and press the Select button to tune to the highlighted channel. When you tune to a new channel, the display will revert to the Default screen for the new channel.

To exit the Category List mode without changing to a different channel, press-and-hold the Disp button for at least 1 second until the Default screen is displayed.

My Channels Category

The first category displayed in the Category List mode is a My Channels category (see *Figure 41*) that will show all of the channels contained in your SIRIUS subscription plan. The category heading bar will show the total number of channels your Starmate ST5 is subscribed to.



Figure 41

Use the Channel UP/DOWN buttons to highlight a channel and press the Select button to listen to the highlighted channel.

- Channels that have been locked using the Parental Control feature (see page 87) will be displayed with a padlock icon next to the channel name.
- If you try to tune to an unsubscribed channel the ST5 will display a “Channel Unsubscribed” message.
- The ST5 will not display channel information for any unsubscribed or locked channels.
- The Memory and Song Seek functions (see page 70) will only occur on subscribed channels.
- All of the Category List screens and Channel List screens (see page 56) will only display subscribed channels that have not been locked using Parental Control.

For information about your SIRIUS subscription, go to home.siriuscanada.ca.

Display (DISP) Button

Pressing and holding the DISP button for 1+ seconds will also activate the MY CHANNELS screen (see page 57). The MY CHANNELS screen makes it easy to quickly search for and locate music on any of your subscribed channels by channel, by artist, and by song title.

When the MY CHANNELS screen is active, the ST5 displays a listing of all your subscribed channel numbers and names. Repeated momentary pressing and releasing of the DISP button will sequence the display between listings of artist names, song titles, and back to channel names (see *Figure 42*). For sports channels, pressing the DISP button will toggle between the team/driver names and the current score of any live play-by-play game or the standings in a race being run.

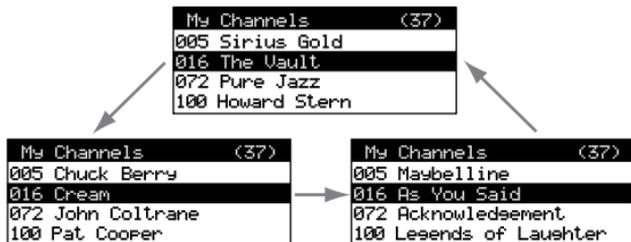


Figure 42

Use the Channel UP/DOWN buttons to scroll through the available subscribed channels. Press the Select button to tune to the highlighted channel. The new channel will begin playing and the display will revert to the Default screen for the new channel.

To exit the MY CHANNELS screen without changing to a different channel, press and hold the DISP button for 1+ seconds, until the Default screen is displayed.

Changing the Display

Momentarily pressing the DISP button while the Default screen is displayed changes the artist name and song title to a scrolling, single-line, large-format display for easier viewing from a distance (see *Figure 43*).

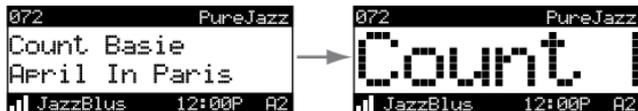


Figure 43

Selecting Channels Directly (Direct Tuning)

You can directly tune to any channel by entering the channel number using the 0 - 9 Number buttons. To enter a channel number, momentarily press and release the Select button. At the display prompt (*Figure 44*) enter the three-digit channel number.



Figure 44

Channel Presets (BAND Button)

You can store up to 30 of your favourite channels as presets for quick access with the press of a button.

Storing Channel Presets

Presets are stored in three banks (A, B and C), each containing ten channel presets:

1. Momentarily press and release the BAND button until the desired preset bank, A, B, or C, is displayed in the lower right corner of the default display screen.
2. Tune to the channel you wish to store as a preset (see *Changing Channels and Categories*, on page 56).
3. Press and hold the Number button in which you wish to store your favourite channel for 1+ seconds until you hear a beep. The screen will confirm that the channel has been stored (*Figure 45*), and the band and preset number will then be displayed in the lower-right corner of the display screen.



Figure 45

NOTE: IF THE NUMBER BUTTON ALREADY HAS A PRESET CHANNEL STORED IN IT, THE PRESET WILL BE REPLACED BY THE NEWLY-STORED CHANNEL.

Recalling Channel Presets

The 10 presets in the active bank (A, B, or C) can be selected by pressing the 0 - 9 buttons.

1. Press the **BAND** button to activate the preset bank you want. The selected bank is shown in the lower-right corner of the default display screen. The ST5 will tune to the last-tuned preset in the selected bank.
2. Press the desired preset button 0 - 9 to tune to a different preset in the bank. The channel will change and the display will revert to the Default screen for the new channel, with the preset bank and number shown in the lower-right corner.

Pressing and holding the **BAND** button displays the **MY PRESETS** screen (see below).

My Presets Screen

You can use the Channel UP/DOWN buttons to quickly see what's playing on all of your presets:

1. Press and hold the **BAND** button to activate the **MY PRESETS** screen (see *Figure 46*).



Figure 46

2. Use the Channel UP/DOWN buttons to scroll through the presets. When the preset you want to listen-to is highlighted, press the **Select** button to listen to it. Pressing the Channel UP/DOWN buttons will cycle through all of the stored presets by preset bank and number (for example, A1, A2...B1, B2...C1, C2...). Pressing the Channel UP/DOWN buttons after the last stored preset is displayed will return back to the first stored preset.

While the MY PRESETS screen is active, pressing the DISP button will cycle the channel information on the screen between channel names, artist names, composer names (if available) and song title (see *Figure 47*).

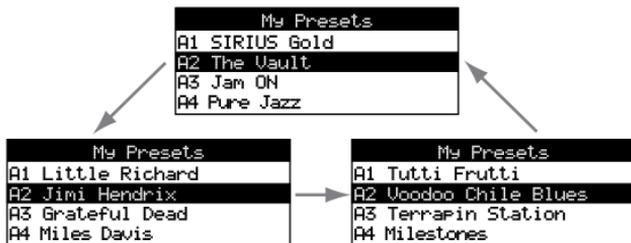


Figure 47

To exit the MY PRESETS screen and return to Default display screen, press and hold the BAND button for 1+ seconds.

Memory (MEMO) and Song Seek (S-Seek) Functions

This feature allows you to capture and store information in the ST5's memory about the currently tuned programming – artist, song, or sports team/NASCAR car. The ST5 then continuously searches all subscribed SIRIUS channels and alerts you when a program currently being played matches one stored in memory (see *Figure 48*). A total of 30 artists and songs, plus one sports team/car may be stored in memory.



Figure 48

If you have saved a sports team or car in memory, when you initially power your ST5 on you will be alerted if your sports team/car are playing/racing in a game/race being broadcast. Also, you will be alerted should your team/car begin playing/racing while you're listening to your Starmate ST5.

Storing Artist Names, Song Titles, and Sports Teams to Memory

If you are listening to a song, entertainment channel, or a sports team, and wish to save the artist, song, or sports team selection to memory for future S-Seek alerts, do the following:

- 1. For Artist Names or Song Titles:** If the currently-tuned channel is a music or entertainment channel, momentarily press and release the MEMO button. The ST5 will display a menu to choose to store either the artist name or the song title (see *Figure 49*).



Figure 49

If either the artist name or song title is not available to save, the choice will be displayed as unavailable (see *Figure 50*).



Figure 50

Using the Channel UP/DOWN buttons, choose STORE ARTIST or STORE SONG (when available) and press the Select button to save the selection to memory. If both the artist and song are available to save, you will be prompted again to save whichever one you haven't yet saved (see *Figure 51*).



Figure 51

- 2. For Sports Teams:** If the currently-tuned channel is a sports broadcast, momentarily press and release the MEMO button. The ST5 will display a menu to choose which sports team or NASCAR car should be saved to memory (see *Figure 52*).



Figure 52

If any of the teams/cars is not available to save, that team/car will be displayed as unavailable (see *Figure 53*).



Figure 53

Using the Channel UP/DOWN buttons, choose the desired sports team (when available) and press the Select button to save the current selection to memory.

- To ensure that no duplicate entries are stored in memory, the ST5 will check the stored memory list to ensure that the alert about to be stored is not already stored in memory. If a duplicate entry is found, an UNABLE TO STORE screen will be displayed for 1 second. The screen will then revert to the last active display mode.
- If the new alert was successfully stored in memory, an ARTIST/SONG STORED pop-up screen followed by an X USED/Y EMPTY screen will be displayed for 1 and 2 seconds respectively. X is the total number of listings stored in memory, and Y is the total number of memory listings still available for storage (see *Figure 54*).



Figure 54

- If all of the memory spaces are full when you press the MEMO button, a MEMORY FULL screen will be displayed for 1 second (see *Figure 55*).

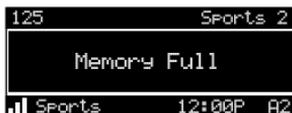


Figure 55

The ST5 will then display a REPLACE - CANCEL screen, which will allow you to choose whether to replace an existing alert stored in memory, or to cancel storing the alert to memory (see *Figure 56*).



Figure 56

Use the Channel UP/DOWN buttons to choose whether to replace an existing alert or cancel saving the alert to memory. If you cancel saving the alert, the radio will revert to the last active display mode. If you have chosen to replace an existing alert, a listing of all the alerts stored in memory will be displayed (see *Figure 57*).



Figure 57

Use the Channel UP/DOWN buttons to highlight the alert that you would like to overwrite and press the Select button to store the new alert. If the new alert was successfully saved in memory, an ARTIST/SONG STORED pop-up screen followed by an X USED/Y EMPTY screen will be displayed for 1 and 2 seconds respectively (see *Figure 58*).

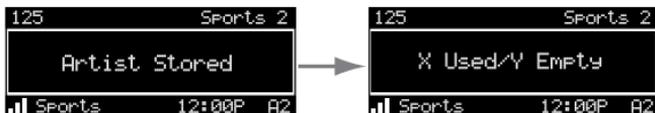


Figure 58

X is the total number of listings stored in memory, and Y is the total number of memory listings still available for storage. The screen will then revert to the last active display mode.

Viewing Stored Alerts Stored in Memory

To view all the alerts you have saved to memory, press and hold the MEMO button for 1+ seconds to enter the S-Seek mode. The alerts stored in memory will be displayed one-at-a-time in page format (see *Figure 59*). Use the Channel UP/DOWN buttons to scroll through the listings. This function allows you to review previously stored program information.

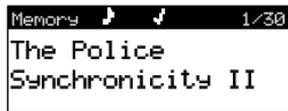


Figure 59

To Activate, Cancel or Delete an Alert:

1. Press and hold the MEMO button for 1+ seconds to enter the S-Seek mode, then use the Channel UP/DOWN buttons to find the alert which you wish to activate, cancel or delete.
2. Press the Select button. The MEMORY RECALL screen will appear (see *Figure 60*).



Figure 60

3. Use the Channel UP/DOWN buttons to highlight the option you want for that particular alert, and press the Select button. If you select DELETE, a DELETE CONFIRMATION screen will appear. To permanently delete the alert from the memory list, highlight and select YES.

- An ARTIST DELETED pop-up screen followed by an X USED/Y EMPTY screen will be displayed for 1 and 2 seconds respectively (see *Figure 61*) X is the total number of listings saved in memory, and Y is the total number of memory listings still available for storage. The screen will then revert to the last active display mode.

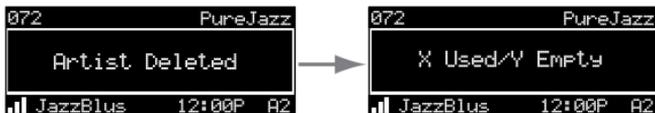


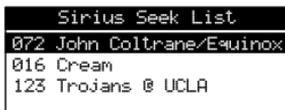
Figure 61

When the S-Seek option is enabled, whenever the ST5 is turned on, it automatically searches the incoming channels to determine if a match exists with the program information stored in the S-Seek memory. If one or more matches are found, a pop-up screen momentarily appears for 2 seconds and displays S-SEEK ALERT (see *Figure 62*). You will also hear an audible beep tone, indicating that a match was found.



Figure 62

The ST5 then displays the SIRIUS SEEK LIST screen, which displays a list of the current matches (see *Figure 63*). No alert is provided for the currently-tuned channel.



Sirius Seek List	
072	John Coltrane/Equinox
016	Cream
123	Trojans @ UCLA

Figure 63

Use the Channel UP/DOWN buttons to highlight the artist, song, or sports event that you wish to listen to, and then press the Select button to tune to it. If you don't make a selection within 10 seconds, the ST5 will revert to the last active display mode. Note that the currently-tuned channel will continue to play until you make a new selection from the S-SEEK list.

Jump Button

Your Starmate ST5 has a special preset button called the *Jump* button that lets you quickly tune to a channel that you want to access frequently, such as a music channel or a sports channel. Pressing the Jump button 'jumps' to the specific channel you have programmed into the Jump button; pressing the Jump button again 'jumps' back to your original channel. (Refer to *Jump Settings*, on page 82 for instructions for configuring the Jump button.)

Other channel: If you've set the Jump button to the JUMPSET option, pressing the Jump button will immediately tune to the channel you preset into the JUMPSET. The Jump icon will be displayed in the lower right corner of the display screen to indicate that the Jump preset channel is currently tuned (see *Figure 64*).



Figure 64

Pressing the Jump button again will return to the previous channel.

NOTE: THE CHANNEL PRESET FOR THE JUMP BUTTON REMAINS THE SAME REGARDLESS OF WHICH PRESET MEMORY BANK IS CURRENTLY SELECTED.

SIRIUS Replay

Your Starmate ST5 automatically stores the audio of the channel you're listening to for later playback. Approximately 30 to 60 minutes of audio (depending upon the channel to which you are tuned) is stored. As soon as you tune to a channel, the ST5 automatically begins storing the audio, enabling you to rewind at any time to replay the audio again.

Pause/Play Button ►||: Places the ST5 in the SIRIUS Replay pause mode, which mutes the audio. The ST5 will then display a PAUSED message for two seconds to confirm that it has entered the SIRIUS Replay mode (see *Figure 65*).



Figure 65

To listen to the audio that was stored, press the Pause/Play button again and the ST5 will begin to play back the audio stored in the SIRIUS Replay memory from the point where you pressed the Pause/Play button. During SIRIUS Replay playback, the ST5 continues to store the channel's live audio.

- Pressing-and-holding the Pause/Play button changes the display to a listing of the artist's names in the stored audio (see *Figure 66*, left), listed from the most recent to the oldest, beginning with an entry called "<<LIVE>>". (Pressing the DISP button will toggle the display between the artist name list and the song/program title list. See *Figure 66*, right.)



Figure 66

Select an item from the list and the playback will commence from that point in the stored audio. If you select “<<Live>>” the ST5 will exit the SIRIUS Replay mode and resume playing the live broadcast.

NOTE: IF YOU TUNE THE ST5 TO ANOTHER CHANNEL WHILE IN THE SIRIUS REPLAY MODE, THE SIRIUS REPLAY MODE IS EXITED, ALL THE AUDIO STORED IN THE SIRIUS REPLAY MEMORY IS ERASED, AND THE NEWLY-TUNED CHANNEL BEGINS TO PLAY. ALSO NOTE THAT TUNING TO ANOTHER CHANNEL MAY OCCUR AUTOMATICALLY IF ANOTHER FEATURE OF THE ST5 HAS BEEN PROGRAMMED TO DO SO.

Fast-Forward Button ►►: The Fast-Forward button moves you forward through the stored audio.

- Pressing-and-releasing the Fast-Forward button forwards to the start of the next song or program in the stored audio and playback automatically begins from there. Repeatedly pressing and releasing the Fast-Forward button continues to move forward in the stored audio to the starts of each song or program until the end of the stored audio is reached. When you reach the end of the stored audio you will hear a beep (if the Confirmation Tone option is enabled, see page 85), the ST5 will exit the SIRIUS Replay mode and resume playing the live broadcast.
- Pressing-and-holding the Fast-Forward button for one second advances the playback forward in 10 second intervals, which increases to 15 and then 30 second intervals the longer the Fast-Forward button remains pressed. Playback begins immediately when you release the button. When you reach the end of the stored audio you will hear a beep, the SIRIUS Replay mode will be exited, and the ST5 will resume playing the live broadcast.

Rewind Button ◀◀: The Rewind button moves you backwards through the stored audio.

- Pressing-and-releasing the Rewind button rewinds to the start of the current song or program in the stored audio, and playback automatically begins. Repeatedly pressing and releasing the Rewind button continues to move backwards in the stored audio to the start of each previous song or program until the beginning of the stored audio is reached. If you reach the beginning of the stored audio you will hear a beep (if the Confirmation Tone option is enabled, see page 85) and playback will automatically begin.

- Pressing-and-holding the Rewind button for one second rewinds playback in 10 second intervals, which increase to 15 and then 30 second intervals the longer the Rewind button remains pressed. Playback begins immediately when you release the button. If you reach the beginning of the stored audio while rewinding, you will hear a beep and playback will automatically begin.

NOTE: DEPENDING UPON WHERE IN A PARTICULAR BROADCAST THE CHANNEL WAS SELECTED, THE START OF A SONG OR PROGRAM MAY NOT BE AVAILABLE IN SIRIUS REPLAY MEMORY. IF THIS OCCURS, THE PLAYBACK WILL START FROM WHERE THE AUDIO BEGAN TO BE STORED.

Using SIRIUS Replay

When the SIRIUS Replay mode is active, status information is shown at the bottom of the display screen (see *Figure 67*).

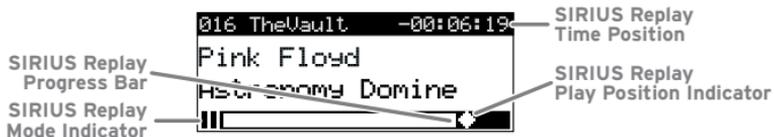


Figure 67

The Progress Bar shows how much of the SIRIUS Replay memory has been used and how much remains. A diamond-shaped Play Position indicator is superimposed over the Progress Bar, providing a visual indicator of the current playback position in the SIRIUS Replay memory. Icons displayed at the bottom left of the screen indicate the current SIRIUS Replay mode:

|| Pause mode: The ST5 is paused and muted.

▶ Play mode: You are listening to stored audio in the SIRIUS Replay playback mode.

▶▶ Fast-Forward mode: You are fast-forwarding through the stored SIRIUS Replay audio.

◀◀ Rewind mode: You are rewinding through the stored SIRIUS Replay audio.

The Progress Bar is a visual indicator of the status of the SIRIUS Replay memory (see *Figure 68*). As the memory fills, Progress Bar begins to fill from the right side providing a visual indication of how much of the SIRIUS Replay memory is filled. The end of the bar indicates the end of the stored audio, where the live broadcast begins. When all available memory has been used, the bar will be completely filled.



Figure 68

The Play Position indicator shows your current listening position in the stored audio. When you press the Pause/Play button to begin playback of the stored audio, this indicator will begin to move to the left showing the progression of the playback through the SIRIUS Replay memory – provided that the memory is not full (see *Figure 69*).

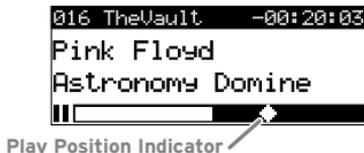


Figure 69

If you press the Pause/Play button to stop the playback, the play position indicator will stop moving and continue to provide a visual indication of your current position in the SIRIUS Replay memory.

The portion of the Progress Bar to the right of the Play Position indicator shows how much you can rewind in the SIRIUS Replay memory, while the filled portion to the left of the Play Position Indicator shows how much you can fast-forward in the memory.

While you are in the playback mode, the ST5 continues to store the audio from the channel. Obviously, you will be unable to “catch up” to the live broadcast during playback, as new audio is being stored at the same rate at which you are playing-back the stored audio. You can use the FAST-FORWARD button to skip ahead or exit the SIRIUS Replay mode, and begin listening to the live broadcast again.

When the SIRIUS Replay memory is 10 seconds from becoming full you will hear two beeps (if the Confirmation Tone option is enabled, see page 85). When the memory is full, the ST5 will automatically begin to play the SIRIUS Replay memory contents from the beginning, and will continue to store the channel audio, overwriting the oldest portion of the audio previously stored. When the memory is full, you will be unable to rewind through the stored audio.

If you have partially played-back the stored audio, and have paused the radio again, the Play Position indicator will begin to move right when the SIRIUS Replay memory becomes full, as it begins overwriting the oldest portion of the audio previously stored. When the Play Position indicator reaches the right-most position, indicating that the memory is full, the ST5 will automatically begin to play the SIRIUS Replay memory contents from the beginning.

The SIRIUS Replay Time Position shows the exact amount of time the Play Position indicator is behind the live broadcast, expressed as Hours:Minutes:Seconds, and displayed as a negative number (see *Figure 70*). For example, if -00:20:03 is displayed, the Play Position indicator is 20 minutes and 3 seconds behind the live broadcast.



Figure 70

FM Presets Button

If you are using a wireless connection between your Starmate ST5 and your vehicle's audio system (see page 44), the FM Presets button makes it easy for you to select between the five different FM transmitter preset frequencies. It also makes it easy for you to select new FM transmitter preset frequencies without having to go through the Menu Options (see page 78).

If the FM transmitter is set to OFF when you press the FM Presets button, the FM TRANSMITTER ON screen will be displayed (see *Figure 71*). Select Yes to turn the transmitter ON.

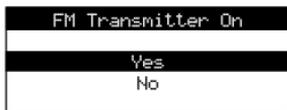


Figure 71

After you select Yes, the FM PRESETS list will be displayed (see *Figure 72*, left). If you haven't set any of the FM preset frequencies, FM1 is factory-set to 88.1MHz; FM2 - FM5 will be EMPTY.

FM Presets	
FM1	88.1 MHz
FM2	(EMPTY)
FM3	(EMPTY)
FM4	(EMPTY)

<EMPTY>
88.1 MHz
88.3 MHz
88.5 MHz
88.7 MHz

Figure 72

Use the Channel UP/DOWN buttons to highlight the preset you wish to change, and press the Select button to choose the preset. The FM frequency screen will appear (see *Figure 72*, right).

Use the Channel UP/DOWN buttons to highlight the frequency you wish to select for the preset and press the Select button. The FM frequency will then be stored in the preset. To select that preset and exit, press the MENU button.

Tip

If you frequently travel to different areas, you can set the five FM presets to frequencies that are not being used by broadcasters in those areas.

NOTE: YOU CAN DISPLAY THE FM PRESET LIST AT ANY TIME BY PRESSING AND HOLDING THE FM PRESETS BUTTON.

If the FM transmitter is already set to ON when you press the FM Presets button, the FREQUENCY screen will be displayed for 3 seconds showing the currently-selected FM frequency and preset (see *Figure 73*).



Figure 73

Pressing the FM Presets button again while the FREQUENCY screen is displayed will change to the next FM preset frequency.

Menu Options

Menu Options allows you to set and/or change the various features and settings of your SIRIUS Starmate ST5. Press and release the MENU button to display the MENU OPTIONS (see *Figure 74*).

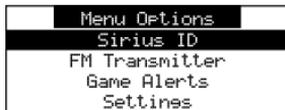


Figure 74

Use the Channel UP/DOWN buttons to highlight selections in the menu lists and press the Select button to select them. To exit a menu, press the MENU button. If you don't make a selection within 10 seconds the ST5 will exit the MENU OPTIONS screen and revert to the last active display mode. You can exit any Menu Options screen by pressing the MENU button.

Sirius ID

This displays your ST5's 12-digit SIRIUS ID (SID) number (see *Figure 75*).

The SID is unique to each SIRIUS radio, and is required to activate your SIRIUS service. We recommend that you write this number in the space provided near the end of this user guide. No adjustments are allowed in this mode.

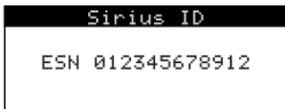


Figure 75

FM Transmitter

The FM TRANSMITTER menu option allows you to enable or disable the ST5's built-in FM transmitter, and select up to 5 different preset FM transmitter frequencies (see *Figure 76*).



Figure 76

FM PRESETS

You can set up to 5 preset FM transmitter frequencies:

1. On the FM TRANSMITTER screen (*Figure 76*), highlight and select FM PRESETS. The FM PRESETS screen will appear (see *Figure 77*, left). Note: You may also enter this list by pressing and holding the FM Transmitter button.



Figure 77

2. Highlight the FM preset you wish to set (or change) and press the Select button. A list of FM frequencies will be displayed, beginning with the currently selected FM frequency for the preset (see *Figure 77*, right)
3. Use your vehicle's FM radio to locate FM frequencies that aren't being used by local broadcasters, and where there is no interference from adjacent FM stations. These are the frequencies you should add to the FM PRESETS list.
4. Highlight the frequency you wish to select for the preset and press the Select button. The FM frequency will then be stored in the preset. (If you do not want a frequency for the preset, choose EMPTY from the menu.)

5. Select FM frequencies for other presets using the same steps. To exit the FM PRESETS menu, press the MENU button.

FM ON/OFF

To turn the ST5's FM transmitter ON or OFF, highlight and select FM On/Off on the FM TRANSMITTER screen (see *Figure 76*, on page 79). The FM On/Off screen will appear (see *Figure 78*).



Figure 78

To turn the FM transmitter ON, highlight and select FM ON; to turn the FM transmitter OFF, highlight and select FM OFF.

Settings

The SETTINGS menu lets you access the DISPLAY OPTIONS, JUMP SETTINGS, MEMORY OPTIONS, AUDIO LEVEL, CONFIRMATION TONE and PARENTAL CONTROL menu options (see *Figure 79*).



Figure 79

Display Options

You can adjust the brightness and contrast of the ST5's LCD display screen to improve its visibility in different lighting conditions (see *Figure 80*).



Figure 80

BRIGHTNESS adjusts the overall intensity of the LCD display to help with viewing in different lighting conditions. **CONTRAST** adjusts the relationship between the background and the text on the LCD display.

Use the Channel UP/DOWN buttons to adjust the brightness and contrast. The bar graphs will indicate the change (see *Figure 81*).



Figure 81

NOTE: YOU CAN CHANGE THE SCREEN BRIGHTNESS WITHOUT ENTERING THE MENU SYSTEM BY PRESSING AND HOLDING THE CATEGORY < AND > BUTTONS (SEE PAGES 49 - 52).

Jump Settings

JUMP SETTINGS controls the actions of the Jump button (see *Figure 82*). You can also access the JUMP SETTINGS screen by pressing and holding the Jump button.



Figure 82

Two Jump setting options are available, TRAFFIC and JUMP SET. The Jump icon indicates the currently-selected option.

The TRAFFIC option sets the Jump button to provide a traffic report for a selected city, while the JUMPSET option assigns any channel to the Jump button.

TRAFFIC

PLEASE NOTE: TRAFFIC IS CURRENTLY NOT AVAILABLE IN CANADA.

JUMPSET

1. On the JUMP SETTINGS screen (see *Figure 82*, on page 82), highlight and select JUMPSET. The JUMPSET screen will appear (see *Figure 83*).



Figure 83

2. Tune to the channel you want assigned to the Jump button (you can use the Channel UP/DOWN buttons, your presets or enter the channel number directly). When the channel is tuned, press and hold the Jump button for 2 seconds until the

screen in *Figure 84* is displayed.



Figure 84

The selected channel is now assigned to the Jump button.

NOTE: WHILE LISTENING TO ANY CHANNEL, YOU CAN ASSIGN THAT CHANNEL TO THE JUMP BUTTON BY SIMPLY PRESSING AND HOLDING THE JUMP BUTTON FOR 2 SECONDS.

Memory Options

Memory Options lets you turn the automatic S-Seek feature **ON** or **OFF**, and also provides a way to clear (erase) all the stored S-Seek alerts from memory (see *Figure 85*).

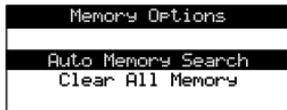


Figure 85

Auto Memory Search

This lets you turn the S-Seek function **ON** or **OFF**.

On the Memory Options screen (see *Figure 85*), highlight and select **AUTO MEMORY SEARCH**. The **AUTO MEMORY SEARCH** screen will appear (see *Figure 86*). Highlight and select either **ON** or **OFF**.

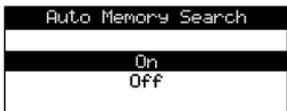


Figure 86

Clear All Memory

This clears all S-Seek memory entries.

On the Memory Options screen (see *Figure 85*), highlight and select **CLEAR ALL MEMORY**. The **CLEAR ALL MEMORY?** screen will appear (see *Figure 87*). Highlight and select either **YES** or **NO**.



Figure 87

Audio Level

Use the Channel UP/DOWN buttons to adjust the ST5's audio output level (see *Figure 90*). The bar graph will indicate the change.



Figure 88

Confirmation Tone

The ST5 will sound an audio alert tone when you power it **ON** or **OFF**, as well as when a S-Seek alert or other alert is activated. The default setting is **ON**. To change the Confirmation Tone setting, use the Channel UP/DOWN buttons to highlight ON or OFF, and press the Select button (see *Figure 89*).



Figure 89

Parental Control

Your SIRIUS Starmate ST5 has the ability to lock channels you do not want others (such as children) to access without your permission. Locked channels will not appear on the Channel List screen, the Category List screen or when browsing channels with the Channel UP/DOWN buttons. When the anyone tries to access a locked channel using the Direct Tuning function (see page 58), an ENTER CODE screen will be displayed and the channel won't be accessed until the correct code is entered.

NOTE: LOCKED CHANNELS WILL APPEAR ON THE MY CHANNELS SCREEN. SEE PAGE 56.

Locking and Unlocking Channels

1. Select the PARENTAL CONTROL menu option. The PARENTAL CONTROL screen will appear (see *Figure 90*, left).

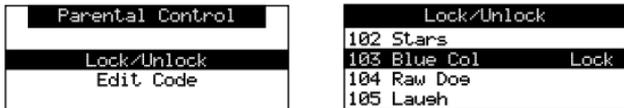


Figure 90

2. Select Lock/UNLOCK. You will need to enter the lock code to proceed. Refer to *Changing the Lock/Unlock Code*, on page 87 for information on how to set the lock code.
3. Once you enter the lock code the Lock/UNLOCK screen will appear (see *Figure 90*, right). Highlight the channel you wish to lock or unlock from the channel list. Pressing the Select button will either add the word Lock next to the channel name to indicate that the channel will be locked, or unlock a locked channel by removing the word Lock.

Changing the Lock/Unlock Code

The first time you access the LOCK/UNLOCK menu, you must enter the default lock code. The default lock code is **0 0 0 0**. You can keep this code or change it. To change the lock code:

1. Select the PARENTAL CONTROL menu option. The PARENTAL CONTROL screen will appear (see *Figure 90*, left, on page 86)
2. Select the EDIT CODE menu option. The ENTER CODE screen will appear (see *Figure 91*).

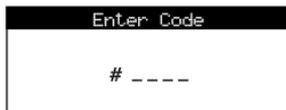


Figure 91

3. Enter the default lock code (**0 0 0 0**) or the current lock code if you have changed it from the default code. (If you enter the wrong code, a message will be displayed indicating that the wrong code has been entered.)
4. The NEW CODE prompt will be displayed. Enter your new four digit code using the 0 - 9 number buttons. You will then be prompted to enter the new code again to confirm.
5. When the new lock code is confirmed, the lock code is changed.

You can use this same procedure to change the lock code again after you have changed it from the default code.

NOTE: IF YOU HAVE FORGOTTEN YOUR PARENTAL CONTROL CODE, CALL SIRIUS CUSTOMER SERVICE FOR HELP.

Time Based Features

The TIME BASED FEATURES screen (*Figure 92*) lets you adjust the following features:



Figure 92

Clock - Sets the clock format, time zone, and daylight savings time function.

Alarm - Sets an alarm for a specific time.

Program Alert - Sets the radio to tune to a specific channel at a specified time.

Auto Shutdown - Sets the radio to turn off at a specified time.

Sleep Mode - Sets the radio to turn off after a designated period of time.

Use the Channel UP/DOWN buttons to highlight the option you wish to adjust, and press the Select button.

Clock

The CLOCK screen (see *Figure 93*) allows you to setup the clock that appears on the Default screen, based on the format desired and the time zone in which you reside. The actual time is provided via the SIRIUS satellite signal, and will automatically update your Starmate ST5.



Figure 93

FORMAT: Displays the time in either 12-hour (default) or 24-hour format (see *Figure 94*).

Format
12 Hour
24 Hour

Figure 94

TIME ZONE: Since the clock adjusts the time automatically, it is important to specify your time zone. Select your time zone from the list of the available time zones (see *Figure 95*).

Time Zone
(GMT -6:00) Central
(GMT -5:00) Eastern
(GMT -4:30) Atlantic
(GMT -3:30) Newfoundland

Figure 95

DAYLIGHT SAVINGS TIME: Select On if your area observes Daylight Savings Time; select Off if your area does not (see *Figure 96*).

Daylight Savings Time
DST Observed
DST Not Observed

Figure 96

Alarm

The ALARM screen (see *Figure 97*) lets you to set your Starmate ST5 to turn **ON** at a specific time. The last selected channel prior to shutdown will play when the ST5 powers **ON**.



Figure 97

SET ALARM: This turns the alarm **ON** and **OFF**.

ALARM TIME: This lets you set the alarm time (see *Figure 98*). Use the Category < and > buttons to set the hours and use the Channel UP/DOWN buttons to set the minutes when you want the ST5 to power on. (The default time is 12:00.)

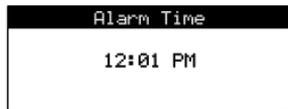


Figure 98

Program Alert

The PROGRAM ALERT screen (see *Figure 99*) lets you program the radio to automatically tune to a specific channel at a specific time. The radio must be powered on in order for this feature to function.

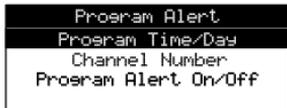


Figure 99

PROGRAM TIME/DAY: Program the day and time you want the ST5 to tune to the specific channel.

1. Highlight and select PROGRAM TIME/DAY. The PROGRAM TIME/DAY screen will appear (see *Figure 100*).



Figure 100

2. Highlight and select TIME. The PROGRAM TIME screen will appear (see *Figure 101*). To select the time you wish to tune to the specified channel, use the Category < and > buttons to change the hours, and the Channel UP/DOWN buttons to set the minutes. When you have selected the desired time, press the Select button to set the time and exit.

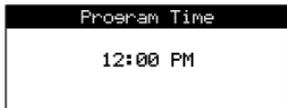


Figure 101

3. On the PROGRAM TIME/DAY screen, highlight and select DAY. The PROGRAM DAY screen will appear (see *Figure 102*).



Figure 102

4. Using the channel up and down buttons, select the day of the week you wish to tune to the selected channel, i.e., Monday, Tuesday, etc., and press the Select button. To exit the PROGRAM TIME/DAY menu, press the MENU button.

Channel Number: Set the channel to which the radio will tune when Program Alert is **ON**:

1. On the PROGRAM ALERT screen, highlight and select CHANNEL NUMBER. A channel list screen will appear (see *Figure 103*).

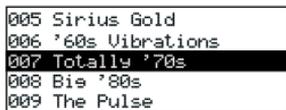


Figure 103

2. Use the Channel UP/DOWN buttons to highlight the channel you want the ST5 to play when Program Alert turns it **ON**, then press the Select button to set the channel.

Program Alert On/Off: Turn Program Alert **ON** or **OFF**:

1. On the PROGRAM ALERT screen (see *Figure 99*, on page 91), highlight and select PROGRAM ALERT ON/OFF. The PROGRAM ALERT ON/OFF screen will appear.
2. Highlight and select ON or OFF.

To exit the PROGRAM ALERT ON/OFF menu, press the MENU button.

Auto Shutdown

Auto Shutdown lets you program the ST5 to automatically shut **OFF** after a one-hour period of inactivity (no button presses or other user intervention). After selecting AUTO SHUTDOWN on the TIME BASED FEATURES screen (see *Figure 92*, on page 88) the AUTO SHUTDOWN screen will appear (see *Figure 104*).

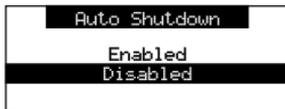


Figure 104

Select **ENABLE** to activate the auto shutdown; select **DISABLE** to cancel an auto shutdown. After 59 minutes of inactivity, a beep tone will sound and a **CANCEL AUTO SHUTDOWN** display prompt appears on the screen to allow you to delay the automatic shutdown. Pressing the **Select** button will reset the Auto Shutdown for another 1-hour period.

Sleep Mode

The **SLEEP MODE** screen (see *Figure 105*) lets you program the ST5 to automatically shut **OFF** after a selected period of time.

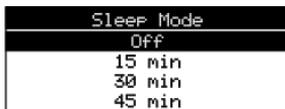


Figure 105

Highlight and select the amount of time you want the ST5 to remain **ON** before it shuts **OFF**.

Signal Indicator

When using your Starmate ST5 indoors with the optional SIRIUS Home Docking Station or Boombox, it is important to aim the antenna for maximum signal reception. The SIGNAL INDICATOR screen (see *Figure 106*) visually shows the strength of the satellite and terrestrial signals being received by the ST5. (Refer to the Home Docking Station installation guide for more information about properly orienting the antenna.)

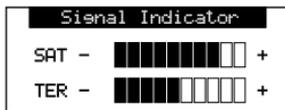


Figure 106

The SAT bar graph indicates the strength of the satellite signal strength; the TER bar graph indicates the strength of the terrestrial signal strength (if available).

Factory Default

The Factory Default option will restore almost every feature of the ST5 to its original factory settings. The following is a list of all features affected by the Factory Default option:

- All Presets are cleared
- All S-Seek Memory entries are cleared
- Display brightness set to 50%
- Display Contrast set to 50%
- FM Transmitter set to ON
- FM Frequency set to 88.1 MHz
- Clock set to 12-Hour Format
- Time Zone set to Eastern Standard Time
- Daylight Savings Time set to Observed
- Auto Shutdown set to Off
- Sleep Mode set to Off
- Auto Select set to Off
- Program Alert cleared

Note that the Parental Control feature is not affected by the Factory Default option. If a code has been set for the Parental Control feature, the code will not be reset by the Factory Default feature, preventing someone from circumventing the Parental Control feature. Channels which have been locked will remain locked.

To activate the Factory Default feature, and restore the above features to their factory defaults, do the following:

1. Highlight and select **FACTORY DEFAULT** from the **MENU OPTIONS** screen. The **RESTORE SETTINGS?** screen will appear (see *Figure 107*).



Figure 107

2. Highlight and select **Yes** to restore the above settings to the their factory default settings, or select **No** to leave them as-is and return to the **MENU OPTIONS** screen.
3. If you select **Yes**, a confirmation screen appears (see *Figure 108*). Use the Channel UP/DOWN buttons to select **Yes** to restore all settings to the settings from the factory, or select **No** to leave them as-is and return to the Menu Options menu.

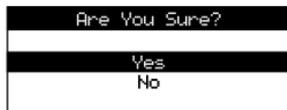


Figure 108

4. If you select **Yes**, the ST5 will revert to the original factory settings (see *Figure 109*).

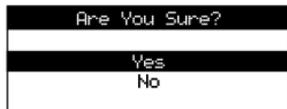


Figure 109

5. When the Factory Default is complete, the ST5 will automatically tune to Channel 184 (the SIRIUS preview channel) and display **CALL 1-888-539-SIRIUS TO SUBSCRIBE**. Your ST5 is still subscribed to the SIRIUS service, and you can tune to any channel that hasn't been locked using the Parental Control feature.

Troubleshooting

Symptom	Solution
Radio does not power ON	Blown fuse, or the power cable is not properly connected. Check for a bad fuse and check power cable connection
Radio displays: ANTENNA NOT DETECTED	The satellite antenna is not connected to the vehicle dock. Check the satellite antenna connection to the vehicle dock.
Radio displays: ACQUIRING SIGNAL	No satellite signal is being received. Check for obstacles over or around the satellite antenna. Change the vehicle location to eliminate nearby obstacles (bridges, overpasses, tress, buildings, etc.).
Audio static or loss of clarity	The vehicle radio's FM frequency contains static. Locate a quiet FM frequency on your vehicle radio and set the Starmate ST5's FM transmitter frequency to match. If using your vehicle's AUX audio connector, check the cable connections.
No sound	The audio cables are not connected, or the FM radio is set to the wrong frequency. Check the audio cables at the SIRIUS Vehicle Dock and the radio. Tune the FM radio to the same FM frequency the Starmate ST5's FM Transmitter is tuned.

Specifications

Satellite Frequencies	2322.293/2330.207 MHz
Terrestrial Frequencies.....	2326.250MHz
Power Requirements.....	5.2 Volts, Negative Ground, DC
Audio Output	2.8V (normal) 3.0V (max.) (Peak-to-Peak)
Total Harmonic Distortion (THD).....	<0.2%
Signal-to-noise (S/N)Greater than 73dB
Operation Temperature	-20° to +85° C (-4° to +185° F)
Radio Dimensions (Length x Height x Depth)	124.2mm x 48.5mm x 16mm (4.9" x 1.9" x .0.6")
Radio Weight	71g (2.5 oz.)
Remote Control Dimensions (Width x Length x Height).....	41mm x 104mm x 15mm (1.61" x 4.09" x .59")
Remote Control Battery Requirements	CR2025
Cigarette Lighter Adapter Fuse Requirement	2A Slow Blow
Cigarette Lighter Adapter Cable Length.....	1.8m (6ft.)
Cigarette Lighter Adapter Operating Temperature	-20° to +85° C (-4° to +185° F)
Antenna Type	Low Profile Magnetic
Antenna Cable Length.....	21' (single micro-cable)
Antenna Connector Type	SMB (right-angle)
Audio Out Interface	1/8" / 3.5mm Stereo Jack

SIRIUS ID

Write down your SIRIUS Starmate ST5's SIRIUS ID (SID) number in the space provided below.

SID: _____



SIRIUS Customer Service: 1-888-539-7474
customer@siriuscanada.ca

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