



**VAIS TECHNOLOGY**

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## **Owner's Manual**

**SoundLinQ<sup>3</sup>**  
Model: SL3sat

# **Audio Interface Controller with built-in SiriusXM Satellite Radio interface**

(SXV300 SiriusXM Tuner required)

**⚠ WARNING****DO NOT DISASSEMBLE OR ALTER**

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

**Do not block your view**

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

**Do not block the airbag**

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

**Distraction warning**

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

**BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL**

Before starting any installation work, you must wait 90 seconds after turning the ignition switch to the LOCK position and disconnecting the negative (-) terminal from the battery. The supplemental restraint system (airbag) is equipped with a backup power source. If installation work is started less than 90 seconds after disconnection of the negative (-) battery terminal, the SRS may deploy. When the negative (-) terminal cable is disconnected from the battery, the clock and audio systems memory will be erased. Before starting installation work, make a record of the clock and audio systems memory settings. When installation is complete, reset the clock and audio systems to their previous settings. Power tilt, power telescopic steering column, front power seats, power mirrors, and power shoulder belt anchorage are equipped with a memory function. The rear power seat is not equipped with a memory function. e and they can make a record of the memory contents, rear power seat is not equipped with the memory function. When installation is complete, it is necessary to readjust the features to their previous settings. Never use a backup power supply (such as another battery) during installation work to avoid losing these memory settings.

**⚠ CAUTION****DO NOT SPLICE INTO ELECTRICAL CABLES**

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

**DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS**

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

**DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST**

Moisture or dust may result in product failure.

**HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS**

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

**USE ONLY SPECIFIED ACCESSORY PARTS**

Use of other than specified parts may damage product internally.

**FOLLOW THE OPERATIONAL AND INSTALLATION MANUALS.**

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

**CHECK YOUR LOCAL LAWS**

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

***i* IMPORTANT**

This unit is an interface adapter for Toyota/Lexus head unit to control the SiriusXM Tuner SXV300 (SOLD SEPARATELY) .

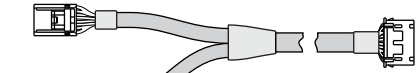
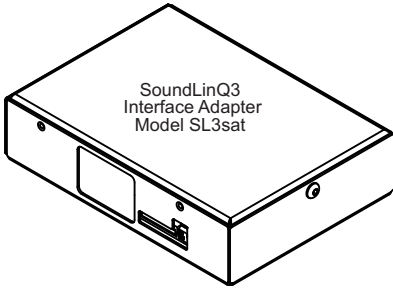
This unit is equipped with:

- Built-in Electronic Ground Noise Isolator to eliminate unwanted car engine noise.
- Resettable Fuses (provides protection for electronic circuits from over-current conditions)

***i* About SiriusXM Satellite Radio Operation**

- The unit may refuse to change the channel if your reception is going ON and OFF. Please wait until your reception stabilizes in order for the unit to allow you to change the channel easily.
- Due to bad reception in some areas, SiriusXM Satellite Radio may not work and/or not able to display text.
- **TEXT INFORMATION ONLY AVAILABLE FOR RADIOS WHICH SUPPORT SAT mode, CD or MD CHANGER WITH A CD-TEXT or MD-TEXT CAPABILITY.** Please see attached chart to determine emulation that is compatible with your vehicle.

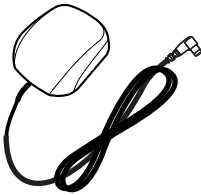
Connecting the units



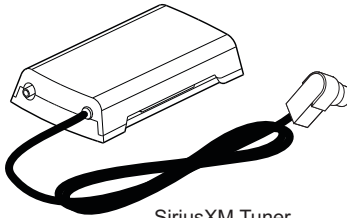
SoundLinQ3  
12-Pin Audio with Y  
Harness (43")



SoundLinQ3  
20-Pin Audio with Y  
Harness (43")



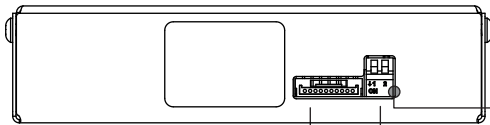
Vehicle Antenna



SiriusXM Tuner  
SXV300

Vehicle Antenna  
and SiriusXM Tuner  
SXV300  
are included in  
SL3sat-TK1 only

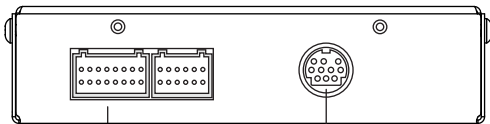
SoundLinQ3  
Model: SL3sat



Service  
Port

Mode  
Programming  
switch

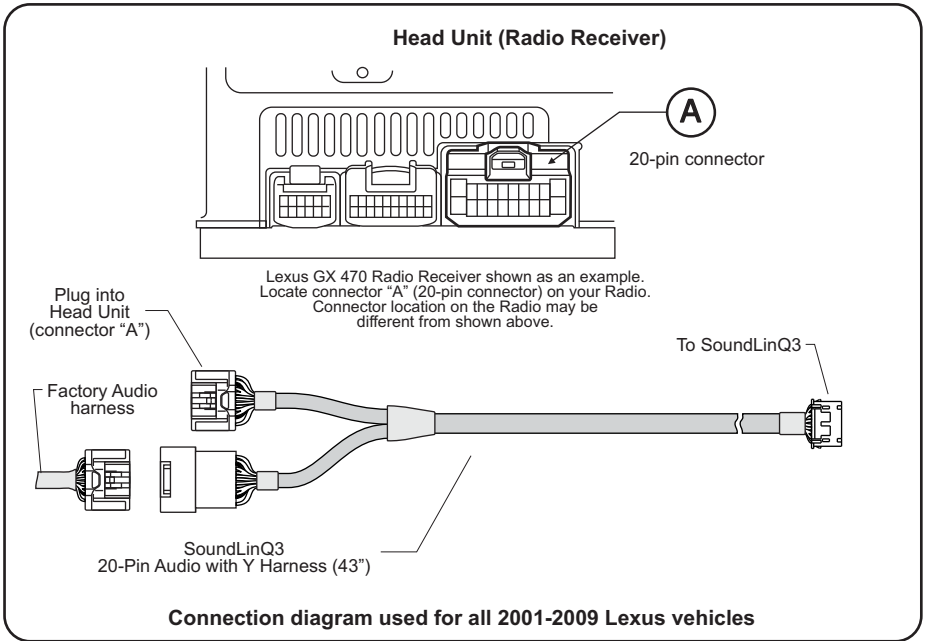
RED LED



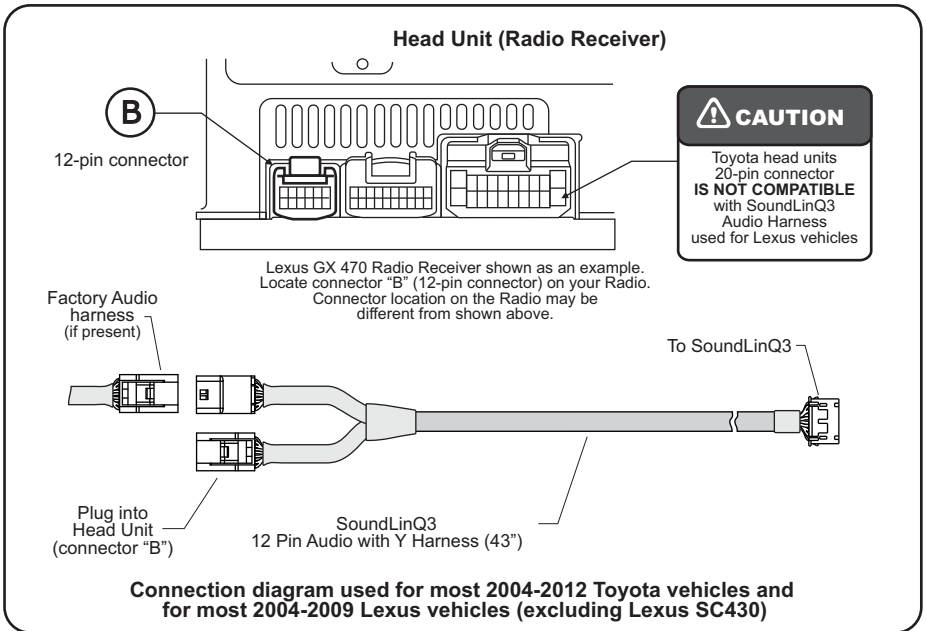
Power and Audio  
wiring harness

Interface connector  
for SiriusXM SXV300 Tuner

**Connecting SoundLinQ3 to head unit using 20-pin Y-harness**



**Connecting SoundLinQ3 to head unit using 12-pin Y-harness**



To Un-plug any connector do NOT pull it by the wires.

## ATTENTION

Look into **Application Guide Chart** (enclosed) to determine which emulation to program your unit into.

Match year, make, and model of your car and cross reference it with MD, CD, or SAT emulation in EMULATION column.

## IMPORTANT

We strongly recommend that you install the unit in an easily accessible location, so you can later upgrade the unit or re-program it in case of incorrect programming.

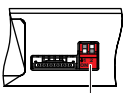
### Installation

- ... Gain access to the back of your vehicle's Head Unit.
- ... Find the same port as our Y-Harness (see "Connecting SoundLinQ3 to head unit")
- ... Disconnect the existing connector and plug in our Y-Harness connector into this port, then plug female end of Audio Harness to plug into your factory connector . **Audio harness female connector is not used in some vehicles, in this case isolate unused plug to prevent accidental shortage to vehicle body.**
- ... Plug the other end of Audio cable into designated port on this unit.
- ... Connect SiriusXM Satellite Radio Tuner interface cable as shown in the picture. (see "Connecting the units")
- ... Setup proper Emulation Mode for the unit (see "Emulation Mode Selection")
- ... Turn the car on and check SoundLinQ3 functionality (especially Text capability) before the final assembly.
- ... Please mount this unit in an easily accessible location for upgrading and re-programming purposes.
- ... Secure the Head Unit in its original position.

### Emulation Mode Selection (SAT emulation)

SAT Emulation Mode programming steps:

- ... Properly install this unit.
- ... Put "Left" programming switch in "DOWN" position.
- ... Put ignition switch into the "ACC" position.
- ... Wait for long beep followed by a few short beeps. This may take up to one minute.
- ... Return programming switches into their default position (both switches "UP"). Wait up to 30 seconds until confirmation beep.
- ... Put ignition switch into the "OFF" position. Wait at least 10 seconds.
- ... Put ignition switch into "ACC" or "ON" position.
- ... Check SoundLinQ3 for functionality, especially TEXT capabilities.



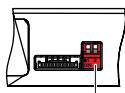
Left switch "DOWN"



Ignition into "ACC" or "ON" position



Confirmation beep (Red LED blinks)



Both switches "UP"



up to 30 sec



Confirmation beep (Red LED blinks)



Ignition into "OFF" position

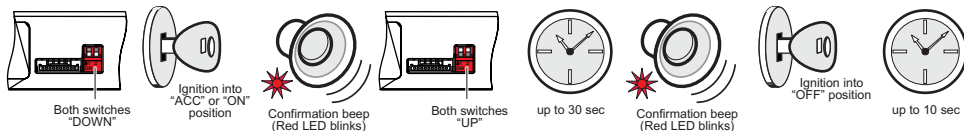


up to 10 sec

## Emulation Mode Selection (CD and MD changer emulation)

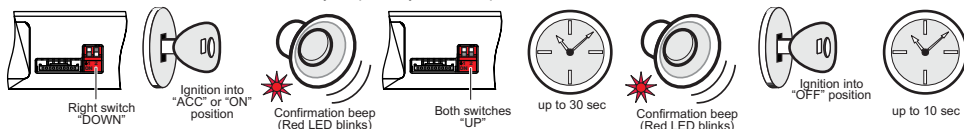
### MD Changer Emulation Mode programming steps:

- ... Properly install the unit.
- ... Put both programming switches in the "DOWN" position.
- ... Put ignition switch into the "ACC" position.
- ... Wait for a long beep followed by a few short beeps. This may take up to one minute.
- ... Return programming switches into their default position (both switches "UP"). Wait up to 30 seconds until confirmation beep.
- ... Put ignition switch into the "OFF" position. Wait at least 10 seconds.
- ... Put ignition switch into the "ACC" or "ON" position.
- ... Check SoundLinQ3 for functionality, especially TEXT capabilities.



### CD Changer Emulation Mode programming steps:

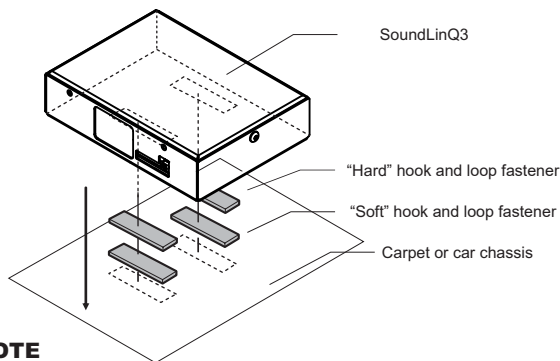
- ... Properly install the unit.
- ... Put "Right" programming switch in the "DOWN" position.
- ... Put ignition switch into the "ACC" position.
- ... Wait for a long beep followed by a few short beeps. This may take up to one minute.
- ... Return programming switches into their default position (both switches "UP"). Wait up to 30 seconds until confirmation beep.
- ... Put ignition switch into the "OFF" position. Wait at least 10 seconds.
- ... Put ignition switch into the "ACC" or "ON" position.
- ... Check SoundLinQ3 for functionality, especially TEXT capabilities.



### **i** IMPORTANT

- Improper Emulation Mode setting may cause unit to be unrecognized by head unit.
- By activating "CD or MD Changer Emulation Mode" you force the unit to find proper location in the vehicle Audio/Video network.

## Mounting unit using hook and loop fasteners



### **NOTE**

- Hook and loop fastener are not included
- VAIS Technology strongly recomand to ground unit to the car chassis for best results

## **SAT EMULATION**

PAGES 9-12

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## **CD CHANGER OR**

## **MD CHANGER EMULATION**

PAGES 13-17



## SAT Emulation

**Audio input dedicated for SiriusXM Satellite Radio** can only be used for SiriusXM Radio integration. Control of SiriusXM Satellite Radio is done through your head unit or the steering wheel controls (explained below). This unit supports the SiriusXM Tuner Model # SXV300.

Please see attached chart to determine which emulation mode is compatible with your vehicle.

By connecting this unit to the factory system you add a device (**Satellite Radio interface**). SAT1, SAT2, and SAT3 can be used for 6 presets each.

### SAT Emulation

For Radio Integrated into Navigation System



Satellite Radio CH023 (SAT emulation)



Satellite Radio CH001 (SAT emulation Text display)



Satellite Radio SAT2 CH070 (SAT emulation)



Satellite Radio SAT3 CH004 (SAT emulation)



Satellite Radio SAT1 (Set 4/6) CH032 (SAT emulation)



Satellite Radio SAT1 Ch033 Category Selection (SAT emulation)

## Source Selection (SAT Emulation)

Select desired source by pressing the **AM** button on the head unit or **MODE** on the steering wheel control. (See diagram below)

### Head Unit:

To switch between unit sources, press the **AM** button on the head unit. The **AM** button will cycle through the following modes: AM radio, SAT1, SAT2, and SAT3. SAT1, SAT2 and SAT3 are presets for the satellite receiver.



### Steering Wheel control:

To switch between unit sources, press the **MODE** button on the steering wheel control. The diagram below shows the order in which sources are selected. (Diagram below assumes following sources are present).



## MANUAL TUNING

Use the **TUNE** knob on the head unit to select channels. You can rapidly scan channels by turning the knob faster in the direction you wish to scan.

## CHANNEL SEEK

**TRACK+** and **TRACK-**

Use the SEEK-TRACK button on the stereo head unit to select the next available channel. The unit will automatically skip channels that are not available.

## CHANGING CATEGORIES

**◀TYPE** and **TYPE▶**

To change the category of channels you would like to listen to, press either the TYPE < or TYPE > button.

## DISPLAYING SONG TITLE AND ARTIST NAME

To display the song title and artist name that is currently playing, press the **TEXT** button. If the information is available from the current satellite channel, it will be displayed. Song title and artist name can display a maximum of 16 alphanumeric characters each.

## SELECTING PRESETS

To select a preset, press the desired preset button.

### TYPE SCAN

Scan channels throughout the selected category.

## Displayed Messages/Errors

-ANTENNA-	Antenna not connected or inoperable
-NO SIGNAL-	No signal or acquiring satellite signal
-TUNER ERR-	Satellite receiver is not connected or does not respond

## Presets



## Adding a new PRESET

- ... Select the desired channel
- ... Press and hold the preset button where you would like to store the current channel.
- ... You will hear a beep when the channel has been stored in the preset location.

**NOTE:** Beep indicates successfully accomplished operation. If you do not hear a beep, please repeat the above steps.

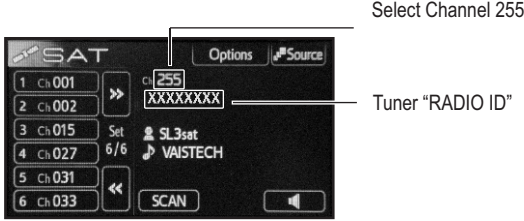
## Changing an existing PRESET

- ... Presets can be overwritten at any time using the same procedure as adding a new Preset.

## Erasing PRESETS

- ... Presets can not be erased, but they can be overwritten at any time by following the procedure for Adding a new Preset.

**Tuner Radio ID**



**Satellite Radio Input Settings**

You can adjust the input sound level of your satellite receiver. The sound level adjustment allows you to balance the volume control with other sources connected to your head unit (such as CD player, FM radio, etc), and eliminate possible distortions caused by high input levels.

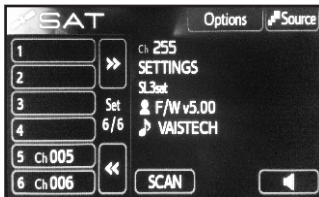
**Activate / Deactivate SETTINGS MODE**

- ... Go to SAT 3
- ... Tune to channel 255
- ... Press [Type Scan] 8 times to hear long beep (MUST be done within 1-2 seconds).
- ... Using AM or AM/SAT button reselect sources to cycles to SAT 3

**Satellite Sound Level Adjustment**

- ... Activate SETTINGS MODE
- ... To adjust the sound level, first you must select a source that is not connected to the SoundLinQ3 unit, such as CD player or FM radio. Set the volume to a comfortable level while listening to this source.
- ... Change the source to SAT1 or SAT2 and select a satellite channel to listen to.
- ... Change the source to SAT3.
- ... Press and hold the button labeled SAT Lev Adj or number 5 on the Radio with its own LCD. You will hear a short beep, and should then hear sound coming from the satellite receiver source.
- ... Now you will adjust the sound level to match the volume of the source you selected in step 1. To adjust the sound level, press either the TYPE < or TYPE > button.
- ... Once the sound level matches the volume of your source from step 1, press the SAT Lev Adj (or number 5 on the Radio with its own LCD) again to store the desired sound level in memory.
- ... Deactivate SETTINGS MODE

Preset #5 



# CD/MD Changer Emulation

**Audio input dedicated for SiriusXM Satellite Radio** can only be used for Satellite Radio integration. Control of SiriusXM Satellite Radio is done through your head unit or the steering wheel controls (explained below). This unit supports the SiriusXM Tuner Model # SXV300.

This unit can be programmed in **CD changer emulation mode**, **MD changer emulation mode** or **SAT Emulation**. Please see attached chart to determine which emulation mode is compatible with your vehicle. By connecting this unit to the factory system you add a device (**Satellite Radio interface**). The Radio display will show device as a "CD/CD1/CD2" or "MD1".

## CD changer emulation

For Radio Receiver with LCD



For Radio Integrated into Navigation System



Satellite Radio CH023 (CD changer emulation with CD-Text)

## MD changer emulation

For Radio Receiver with LCD



For Radio Integrated into Navigation System



Satellite Radio CH081 (MD changer emulation)



Satellite SiriusXM Radio CH023 (MD changer emulation)

## Head Unit Controls

### Source Selection (CD/MD Emulation)

Select desired source by pressing **DISC** button on the head unit or **MODE** on the steering wheel control. (See diagram below)

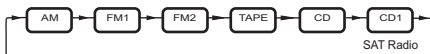
#### Head Unit:

To switch between the unit sources you need to use the "DISC" or "CD" button on the radio (Diagram below assumes factory CD changer is present).



#### Steering Wheel control:

To switch between the unit sources you need to use the "MODE" button on the steering wheel control. (Diagram below assumes following sources are present).



You must set the correct Display Mode, in order to display channel number and TEXT information correctly. ( See "Satellite Radio Input Settings" for details).

**TRACK+** and **TRACK-**

Select Next/Previous channel (if the selected channel is not available, the unit will jump to the next available channel).

**◀▶** and **▶▶** (**SCROLL**)

Speed channel selection +10, -10 (if the selected channel is not available, the unit will jump to the next available channel). If "DISC SCAN" mode is activated **[SCROLL]** buttons work as **[DISC+]** and **[DISC-]**.\*

**NOTE:** Available only if PRESET CHANNELS are setup. This feature was created for vehicles which do not have **[DISC+]**, **[DISC-]** buttons.

**DISC+** and **DISC-**

Used for PRESET CHANNEL selection.

**NOTE:** Assumed at least one PRESET CHANNEL exists (see "Presets").

**NOTE:** If PRESET CHANNEL list has not been previously set **[DISC+]** and **[DISC-]** work as **[SCROLL]** buttons.

**SCAN**

Used for setup purposes. (Please refer to "Display settings and Special Features").

**DISC SCAN**

Please see **SCROLL** buttons functionality.

**NOTE:** Buttons **[DISC RPT]**, **[RANDOM]**, **[DISC RANDOM]** are **NOT Supported**.

## **i** IMPORTANT

**DISC RPT**

To select whether Song Name or Artist Name displays first. We recommend using this feature especially for cars where Radio is not integrated into Navigation Screen.

**Displayed Errors** (available only with CD-Text or MD-Text capability)

- ANTENNA-** Antenna not connected or inoperable
- NO SIGNAL-** No signal or acquiring satellite signal
- TUNER ERR-** Satellite receiver is not connected or does not respond

## Direct Entry Mode

SoundLinQ3 supports "Direct Entry Mode" only for vehicles with Radio integrated into Navigation System.



Simply touch numeric buttons to enter channel number in "Direct entry mode"

**NOTE:** Direct input isn't available for Radio with its own LCD Display

If you select a channel higher than 299 this unit will direct you to the channel according to the following example.

**Example:** If you select channel 567, the system will select channel 67. If channel 67 is not available the unit will switch to channel 1.

**Presets**

**Adding a new PRESET**

- ... Select the desired channel
- ... Press the [RPT] or [REPEAT] button 4 times (**MUST BE DONE** within 1-2 seconds). You will hear a beep.
- ... SoundLinQ3 will store the current channel in the preset list. You can store up to 10 preset channels, and channels get recorded in sequential order.

**NOTE:** Beep indicates successfully accomplished operation. If you do not hear a beep, please repeat the above steps.

**Changing an existing PRESET**

- ... Select the preset you would like to change (using the [DISC+], [DISC-] buttons)
- ... Select new desired channel (using the [TRACK+], [TRACK-] buttons, or use "Direct entry" on the Navigation screen (if supported). Make sure you do not select channels which already exist in "Presets list", because unit will move to another preset.
- ... Press the [RPT] or [REPEAT] button 4 times (**MUST BE DONE** within 1-2 seconds). You will hear a beep.
- ... SoundLinQ3 will update the preset list.

**NOTE:** Beep indicates successfully accomplished operation. If you do not hear a beep, please repeat the above steps.

**Erasing PRESETS**

- ... Enter into "Satellite Radio Input Settings" Mode ( See "Satellite Radio Input Settings" for details)
- ... Press the [DISC RAND] or [DISC RANDOM] button one time to activate the "DISC RANDOM" function.
- ... Press the [DISC RAND] or [DISC RANDOM] button again to deactivate it.
- ... SoundLinQ3 will produce a long beep as an confirmation of successful erasure.
- ... Exit "Satellite Radio Input Settings" Mode ( See "Satellite Radio Input Settings" for details)

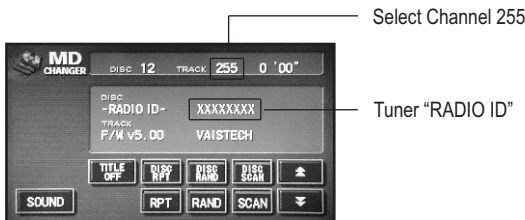
**Satellite Radio Input Settings**

**Enter/Exit "Satellite Radio Input Settings" Mode**

- ... Press the [SCAN] button 8 times (**MUST BE DONE** within 1-2 seconds) to enter "Satellite Radio Input Settings" Mode. You will hear a short beep as a confirmation.
- ... SoundLinQ3 will use the "REPEAT" indicator (continuous blinks 2 times per second) on your head unit to confirm "Satellite Radio Input Settings" Mode is active.
- ... Press the [SCAN] button 8 times (**MUST BE DONE** within 1-2 seconds) to exit "Satellite Radio Input Settings" Mode. You will hear a short beep as a confirmation.

**NOTE:** In this mode you can setup Display Settings, Erase PRESETS list, and Adjust Sound Level for Satellite Radio Input.

**Tuner Radio ID**



Select Channel 255

Tuner "RADIO ID"

## Display Settings

### About Display Settings

SoundLinQ3 supports 8 types of Display Modes. Display Mode can ONLY be set up for the Satellite Radio source.

**It is critical to setup, the correct Display Mode for the following reasons:**

- For Channel information to be displayed correctly.
- For Text information to be displayed.

**Display mode 1** - Minutes and Seconds used to display the selected channel number.

Minutes display hundreds, seconds display 00-99. DISC number and TRACK number are "invisible"

**NOTE:** This mode is preferred with CD changer emulation for Radio receivers with their own LCD.

**Display mode 2** - Same as Display mode 1, except that DISC and TRACK number always display "1".

**NOTE:** Some Radio receivers refuse to display minutes and seconds if DISC or TRACK number are "invisible". Please use this mode if your Radio receiver displays only "CD1" on the LCD.

**Display mode 3** - In this mode TRACK number is used to display hundreds, Minutes are used to display tens, Seconds are used to display single digits. DISC number is "invisible".

**NOTE:** This mode is most common for the radio integrated into the Navigation System.

**Display mode 4** - In this mode TRACK number used to display hundreds, Minutes are used to display tens, Seconds are used to display single digits. DISC number is always "1".

**Display mode 5** - Alternate variation of Display mode 1.

**Display mode 6** - In this mode TRACK number is either 10, 11 or 12 where "0" from 10, "1" from 11 and "2" from 12 are used to display hundreds, Minutes are used to display tens, Seconds are used to display single digits. DISC number is always "12".

**NOTE:** This mode is most common for the radio integrated into the Navigation System which does not display Song Title in MD changer emulation mode (Alternative for Display Mode 3, allows Song Title to be displayed for channels less than 100) .

**Display mode 7** - In this mode TRACK number is either 10, 1 or 2 where "0" from 10, "1" and "2" are used to display hundreds, Minutes are used to display tens and single digits. DISC number is always "12".

**Display mode 8** - In this mode TRACK number is either 10,11 or 12 where "0" from 10, "1" from 11 and "2" from 12 are used to display hundreds, Minutes are used to display tens, Seconds are used to display single digits. DISC number is always "12".

**NOTE:** Alternative to Display Mode 7.

**NOTE:** Use Display mode 8 in MD changer emulation mode. In this mode TRACK number is used to display the channel number.

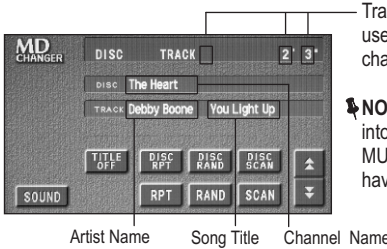
### Changing Display Mode

- ... Enter into "Satellite Radio Input Settings" Mode ( See "Satellite Radio Input Settings" for details).
- ... Press **[SCROLL UP]** to switch between Display Modes.
- ... Check channel 23, 81, 92, and 123, to confirm correct Display Mode selection.
- ... Make sure both Disc Title and Track Title information is displayed correctly.
- ... Exit "Satellite Radio Input Settings" Mode ( See "Satellite Radio Input Settings" for details).



Display Settings

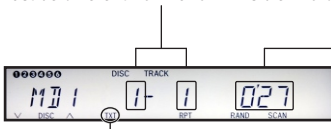
Displaying Channel Information



Track number, Minutes, and Seconds are used to display the selected satellite channel number.

**NOTE:** For cars with the Radio integrated into the Navigation System, "DISC" number MUST BE "invisible" or "12" in order to have all ten numbers available for "Direct entry".

**NOTE:** On some Radios both DISC number and TRACK number must be different from "0" or "invisible" in order for TEXT to be displayed properly.



Minutes and Seconds are used to display selected satellite channel number.

**NOTE:** Present if MD-TEXT is supported by the Radio Receiver (may differ on Head units model and year)

**NOTE:** Please check channel 081, 092 and 123 to make sure those channel numbers are displayed properly.

Satellite Sound Level Adjustment

- ... Enter into "Satellite Radio Input Settings" Mode ( See "Satellite Radio Input Settings" for details).
- ... Select the desired satellite channel.
- ... Activate the "SCAN" function on your head unit.
- ... Set the desired volume at your head unit.
- ... While "SCAN" is active use [SCROLL UP] to increase volume and [SCROLL DOWN] to decrease volume.
- ... Sound level [01..31] will be displayed as Seconds on you head unit.
- ... Deactivate "SCAN" function.
- ... Exit "Satellite Radio Input Settings" Mode ( See "Satellite Radio Input Settings" for details).

**NOTE:** Remember, a high sound level may result in noticeable sound distortion.