
MLB700

Broadcast Datalink Receiver

With RC70 Wireless Remote Control



SIRIUS
SATELLITE RADIO

WSI

Date	Revision	Description
6/14/07	00-I	Initial Release Draft

System Configuration

When contacting your Avidyne-authorized distributor or technical support, and when logging onto MyAvidyne.com for the first time, please have your Sirius Identification (SID) Numbers available. SIDs appear on the Serial Tag of the MLB700:

DATA SID

AUDIO SID

Intentionally Left Blank

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Introduction

Congratulations on your purchase of the MLB700 Broadcast Datalink Receiver with RC70 Wireless Remote Control.

The MLB700 Broadcast Datalink Receiver is an aircraft Flight Information Services – Broadcast (FIS-B) receiver that meets the requirements of TSO-C157. The MLB700 is designed to provide reception of weather and other data products that will assist the flight crew in assessing whether current conditions are suitable to the flight characteristics of their aircraft.

With a valid subscription through MyAvidyne.com, the MLB700 receives WSI's award-winning InFlight™ datalink graphical and textual weather for display on a number of compatible display systems. In addition, the MLB700 has the ability to receive audio entertainment, with a valid Sirius Satellite Radio subscription, that plays through your aircraft's audio system and is controlled from anywhere in the aircraft by the RC70 Wireless Remote Control.

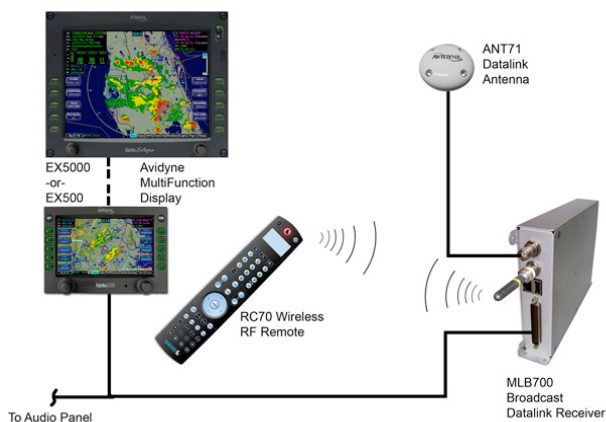


Figure 1. MLB700 System Diagram

About the SIRIUS Satellite Network

The Sirius Satellite Network is comprised of three satellites called Radiosat 1, Radiosat 2, and Radiosat 3, which are in a geo-synchronous highly elliptical orbit (HEO). These satellites have a 24-hour orbital period, and the elliptical path of the constellation ensures that each satellite spends about 16 hours a day over the continental United States. The primary uplink facility for Sirius is located in Vernon, New Jersey.

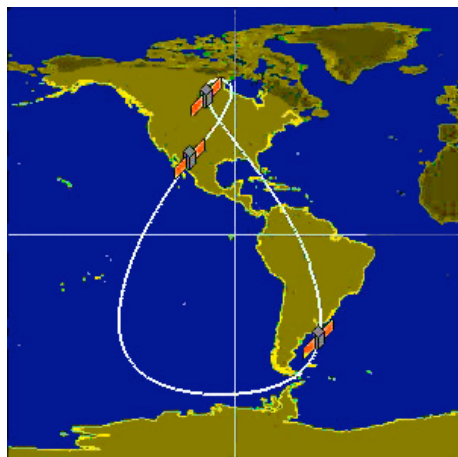


Figure 2. Sirius' three satellites in a 24-hour geo-synchronous orbit, Two of which are always over the continental U.S.

Sirius broadcasts using 12.5 MHz of the S band between 2320.0 and 2332.5 MHz. All three satellites can broadcast directly to the MLB700 receiver, and because of their highly elliptical orbit, there will always be two of them in view at any given time. The Sirius signal is separated into three carriers, one each for the two satellites, and the third for the terrestrial repeater network, used in more populated areas for the automotive market. Sirius receivers can decode all three carrier signals at once to achieve signal diversity.

WSI InFlight Weather: The Weather You Need...From the Source You can Trust™

With the MLB700, you will receive WSI's continuous stream of aviation weather information with complete coverage and content for the majority of North America at any altitude.

Among the other weather products you will receive via the MLB700 is the award winning WSI NOWrad® radar mosaic. WSI NOWrad is the only mosaic of the U.S. Doppler Weather Radar network that includes continuous quality control by degreed meteorologists. Additionally, WSI employs a combination of advanced algorithms and up-to-the minute surface observations to determine the type of precipitation, rain, mixed or solid. The result is the most accurate depiction of precipitation over the United States available anywhere.

SIRIUS Satellite Radio: The Best Radio On Radio

With everything from 100% commercial-free music to in-depth sports coverage, plus news, talk and the hottest entertainment – you can always hear exactly what you want.

- The only home of 100% commercial free music. Whether you're discovering new music, or rediscovering songs you haven't heard in years – you'll hear it all on SIRIUS.
- Live play-by-play and expert talk from the biggest leagues. NFL, every game, every week, everywhere. Plus NFL Radio 24/7 news and options from top NFL pros, 40 games a week from NBA and College Sports from over 150 schools. Plus, NASCAR moving exclusively to SIRIUS in January 2007.
- Entertainment, Comedy and Talk that can't be found anywhere else. From 2 channels of Howard Stern, Blue Collar Comedy with Jeff Foxworthy and Larry the Cable Guy to Maxim and Playboy Radio.
- Especially for Women. Martha Stewart and her team will inspire you 24/7 along with Cosmo Radio, Deepak Chopra Wellness Radio, and other exclusive talk show hosts.
- World Class News, traffic and weather. Fox, CNN, NPR and BBC. Local traffic and weather for the top 20 cities.

- Family & Kids: G-rated fun for everyone with Radio Disney, Discovery Kids Channel, Laugh Comedy and more.

Overview

Using the MLB700 for Datalink Graphical Weather – The weather data received by the MLB700 can be displayed on a number of compatible multifunction displays (MFD). For operation and interpretation of the datalink weather products, please consult the Pilot's Operating Handbook for MFD specific to your installation.

Using the MLB700 and RC70 for Sirius Satellite Radio – The MLB700 receives Sirius Satellite Radio programming, which is sent to the aircraft's audio panel. Depending on your specific installation and audio panel settings, this audio can be played through the headsets and/or cabin speakers. Here is in overview of the controls and functions of the RC70 Wireless Remote Control.



Figure 3. Front and Back Views of RC70 Remote

Key Layout

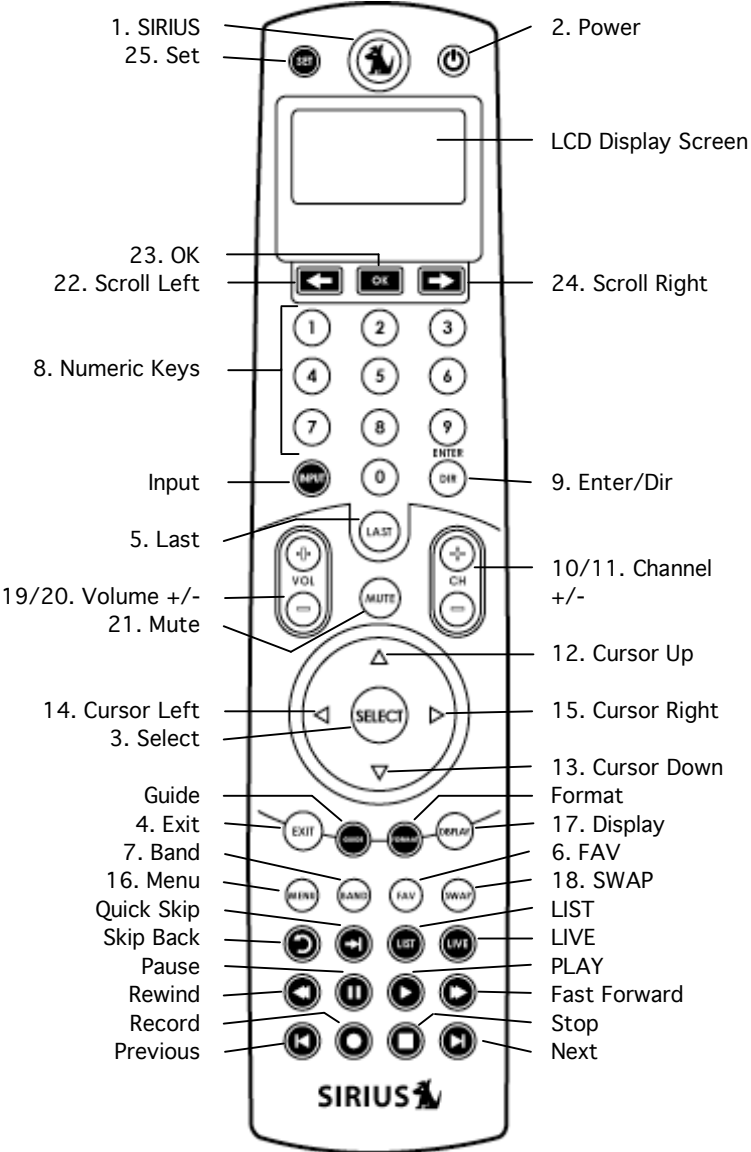
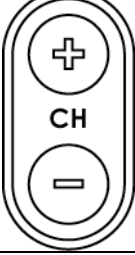


Figure 4. Button Diagram of RC70 Remote

Key Descriptions

The following RC70 remote buttons are currently utilized with the MLB700 Application.

Key ID	Symbol	Key
1		SIRIUS – Puts the radio in Normal Mode.
2		Power – used to wake up remote.
3		Select – used to select a station, menu item or a radio.
4		Exit – used to Exit the current Sirius Mode and return to Sirius Normal Mode.
5		Last – used to return to the previously selected channel.
6		Fav – Favorites. Used to cycle through the presets.

7		Band – used to select the band (for presets).
8		0-1 Numerical Entry for channel or preset operation.
9		Direct – used to tune directly to a particular channel
10		CH+ Channel Up. Moves one channel up.
11		CH- Channel Down. Moves one channel down.
12		Cursor Up – Used to scroll up through a channel list or menu.
13		Cursor Down – Used to scroll down through a channel list or menu.
14		Cursor Left – This is used to enter Sirius Category List Mode.
15		Cursor Right – This is used to enter Category List Mode.
16		Menu – This is used to enter the Sirius Menu Options Mode.

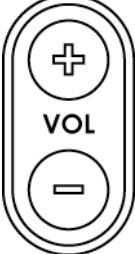
17		Display – This is used to enter Sirius Channel List Mode.
18		Swap – will be used in future product releases.
19		Volume Up – used to increase the volume by one.
20		Volume Down – used to decrease the volume by one.
21		Mute – used to pause sound.
22		Scroll Left, not transmitted. Used to switch from Sirius Mode to Universal Mode.
23		OK, not transmitted. Used to switch from Sirius Mode to Universal Mode.
24		Scroll Right, not transmitted. Used to switch from Sirius Mode to Universal Mode.
25		Set, not transmitted. Used to switch from Sirius Mode to Universal Mode.

Table 1. Active Buttons & Descriptions

The following RC70 remote buttons are currently not utilized with the MLB700 Application.

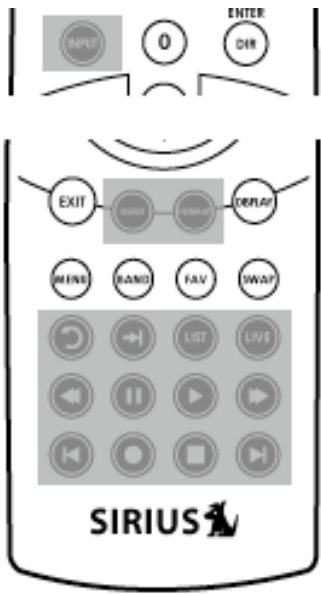


Figure 5. Buttons Not Utilized with MLB700

Operation

First Power Up

The first power up will tune to channel 184. After that, the MLB700 radio will retain the last tuned channel in non-volatile memory.

Pairing Your Remote with the MLB700

The first time you power up your remote, you need to pair it with the MLB700. To pair the RC70 remote with the MLB700:

1. The MLB700 attempts to pair with a remote control immediately following power-on initialization. Apply power to the MLB700. If power is already applied, then remove power for at least three seconds and then reapply power.
2. The remote's LCD displays "SIRIUS RADIO HAS NOT BEEN SETUP...PUSH OK TO SET UP...".
3. Press the  **OK** button. The LCD will display "Time Out". Press the  **OK** button again until the LCD displays "SUCCESS!". You may have to press the  **OK** button up to 8 times. If the RC70 Remote does not pair by the 8th try, restart the MLB700 and try again.
4. Once pairing is complete, the LCD displays "SUCCESS! RADIO AND REMOTE ARE NOW PAIRED". Then the LCD displays "PRESS SIRIUS TO LISTEN TO MUSIC".
5. Press  **SIRIUS** button.

You can now use the RC70 wireless remote to control your MLB700.

Activating of Your MLB700 Audio Subscription

Before you can listen to your MLB700, you must subscribe to Sirius Satellite Radio service.

1. The MLB700 must remain on during the entire activation process.
2. If the MLB700 is receiving the satellite signal, the SIRIUS channel lineup will be updated. The LCD display reads "UPDATING CHANNELS" on the top line and "X% Completed (0%–100%)" on the bottom line until the update finishes. Caution: Don't push any buttons or perform any operations until updating has been completed.
3. When completed, you can view the SIRIUS preview channel 184, and channel 000 without subscribing to SIRIUS. You cannot listen to any other channels until you activate your SIRIUS subscription.
4. Press CH+ or CH- to tune to channel 000 to view your SIRIUS ID (SID). You will need the SID to activate your SIRIUS subscription. The SID number is also available on the MLB700 packaging. Write the SID number down in the space provided on page 39.
5. Have your credit card and SID number handy and contact SIRIUS on the Internet at <https://activate.siriusradio.com> Follow the prompts to activate your subscription. You can also call SIRIUS toll-free at 1-888-539- SIRIUS (1-888-539-7474).
6. Once the MLB700 has received your subscription information, the display changes to "Subscription Updated".

You can now listen to all the channels and begin enjoying Sirius Satellite Radio!

Changing the Batteries

Changing the batteries of the RC70 remote may require re-association of the receiver.

To change the battery, slide the battery cover off at the back of the RC70 remote. Next, replace the four AA type batteries. Then, slide the cover back into place.

RC70 Remote Control Operating Modes

The MLB700's RC70 remote can operate in one of two primary modes, Sirius Mode or Universal Mode. The MLB700 does not utilize the Universal Mode; therefore this manual does not address the Universal Mode functionality. The RC70 remote control must be in Sirius Mode to issue commands to the MLB700. Pressing the  **SIRIUS** button will place the RC70 remote control into Sirius Mode.

Changing Modes

Entering Sirius Mode/Exiting Universal Mode

If the unit is in Universal Mode, press the  **SIRIUS** button on the RC70 remote to exit Universal Mode and enter Sirius Mode.

Entering Universal Mode/Exiting Sirius Mode

If the unit is in Sirius Mode, press the  **LEFT**,  **OK**, or  **RIGHT** buttons on the RC70 remote to exit Sirius Mode and enter Universal Mode.

Sleep Mode

In order to conserve battery life, the RC70 remote will remove the backlighting for the display if no button presses occur within a short amount of time. After an additional amount of time passes the RC70 remote will then go into Sleep Mode. To wake up the RC70 remote, press any button on the RC70 remote. The RC70 remote should display the Normal screen. If the MLB700 has been powered up, this is not the first time entering Sirius Mode, and appropriate timeouts have not expired, the display mode prior to last exit should be displayed.

Mode Timeouts

All sub-menus will timeout to the Menu Options Mode. The Menu Options Mode, Channel List Mode, Category List Mode, Sirius Multi-Radio Select Mode, and Sirius Direct Access Control Mode will timeout to Normal Mode.

Sirius Mode

Sirius Mode includes the following display modes:

- Sirius Normal Mode
- Sirius Channel List Mode
- Sirius Category List Mode
- Sirius Direct Access Control Mode
- Sirius Menu Option Mode

Sirius Normal Mode

When you first turn on your MLB700, the RC70 wireless remote displays the normal operation (default) screen. The default screen displays the last channel selected before shutdown, the artist's name, the channel number, and the preset bank information. (Figure 6)



Figure 6. Normal Mode Default Screen

Note: if the artist name or song title is too long to fit the screen, it scrolls across the screen from right to left.

Press the  **SIRIUS** button to enter Normal Mode.

The RC70 remote will always return to Normal Mode after “exiting” any of the following modes.

- Channel List Mode
- Category List Mode
- Direct Access Control Mode
- Menu Options Mode

Display Button

Pressing the  **DISPLAY** button from the default screen switches between the channel name and category on the top line of the display. (Figure 7)



Figure 7. Normal Mode Category Display Format

Sirius Channel List Mode

Pressing and holding the  **DISPLAY** button for 3 seconds enters Channel List Mode. Use $\triangle$ **CURSOR UP**, ∇ **CURSOR DOWN**, **CH+** or **CH -** to scroll through the channel list. (Figure 8) Press  **SELECT** to tune the highlighted channel and return to the default display screen.



Figure 8. Channel List Mode Display

Note: To preview what is playing on other channels before selecting a channel, press the  **DISPLAY** button while in the

Channel List Mode to change between channel name, artist name and song title.

Sirius Category List Mode

Pressing ◀ **CURSOR LEFT** or ▶ **CURSOR RIGHT** changes the display to show the currently listed category. (Figure 9) Press the cursor buttons again to scroll through the categories.



Figure 9. Category List Mode Display

The currently selected channel is highlighted on the second row. Pressing **CH+** or **CH -** browses the channels while remaining in Category List Mode. Pressing ▲ **CURSOR UP** or ▼ **CURSOR DOWN** browses through the channels while keeping the second line highlighted. Press  **SELECT** to tune the highlighted channel.

Sirius Direct Access Control Mode

Sirius Direct Access Control Mode allows stations to be directly selected by entering their channel number. To enter this mode, press the  **DIRECT** button in Normal Mode, Channel List Mode or Category List Mode.

When this mode is entered the display will clear. As numeric buttons (0—9) are entered to select a channel, the numbers will appear on the display in line 2.

A channel can be tuned directly by pressing the numeric buttons in one of the following sequences:

 **DIRECT - 1 - 2 - 3**
 **DIRECT - 1 -**  **DIRECT**
 **DIRECT - 1 -**  **SELECT**
 **DIRECT - 1 - 2 -**  **DIRECT**
 **DIRECT - 1 - 2 -**  **SELECT**
 **DIRECT - 1 - “Timeout”**
 **DIRECT - 1 - 2 - “Timeout”**

Note: The DIRECT button places you into the Direct Access Control Mode. It only has to be pressed once. If three digits, for example 1, 2, 3, are input, the channel will be tuned automatically. If an invalid input is detected, an invalid channel message will be displayed as described in the Sirius Special Display Messages section.

Sirius Menu Options Mode

Pressing the  **MENU** button enters the Menu Options Mode. The Menu Options Mode does not support radio tuning operations.

The “Menu Options” title will always be displayed on the top line and menu items listed below. There are at least three items in the menu list, Signal Indicator, Configuration, and Sirius ID. The item listed in line 2 will be highlighted. (Figure 10)

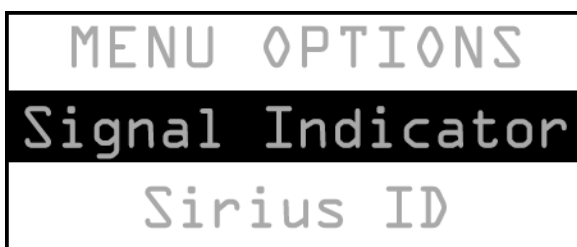


Figure 10. Menu Options Mode Display

Use **CH+**, **CH -**, **△ CURSOR UP** or **▽ CURSOR DOWN** to highlight the option you wish to adjust and press **SELECT**.

Signal Indicator

The signal indicator screen provides a visual display of the signal strength being received from the satellites (**S**) and terrestrial transmitters (**T**). A consistent signal of three bars or greater is required for a good reception.

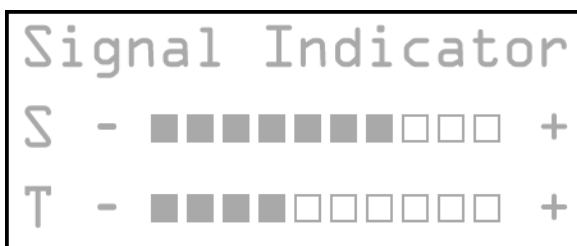


Figure 11. Signal Indicator Display

To display the signal indicator screen:

1. Press **CH+**, **CH -**, **△ CURSOR UP** or **▽ CURSOR DOWN** to highlight “**SIGNAL INDICATOR**” and press **SELECT**.

2. The LCD displays two 10-segment horizontal bar graphs (“S” and “T”) with a “-” to the left and a “+” to the right. The **S** indicates satellite signal strength and the **T** indicates terrestrial signal strength (if available). (Figure 11)
3. To exit, press  **SELECT** or  **MENU**.

Sirius ID

The Sirius ID menu option displays the SIRIUS ID number (SID) of your MLB700. This 12-digit number is unique to your tuner and is needed when activating the MLB700 to receive the Sirius Satellite Radio service.

To display the Sirius ID:

1. Press **CH+**, **CH -**,  **CURSOR UP** or  **CURSOR DOWN** to highlight “SIRIUS ID” and press  **SELECT**.
2. The LCD displays the MLB700 Sirius ID. (Figure 12)

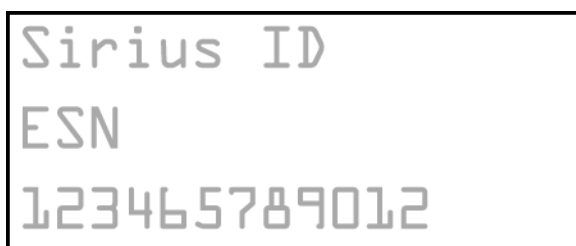


Figure 12. Sirius ID Display

Secure Options

Upon entering this menu, you will first be asked to enter a password to continue. Your password contains 4 characters. The default password will be “0000”. The display will show a ‘*’ for each character entered as the password. It will not display the password. (Figure 13)



Figure 13. Secure Options Password Display

After each unsuccessful entry, the unit will revert back to the Main Menu. After three unsuccessful consecutive entries, the unit will revert back to Normal Mode. On a successful entry, at a minimum, the following menus will be displayed. (Figure 14)

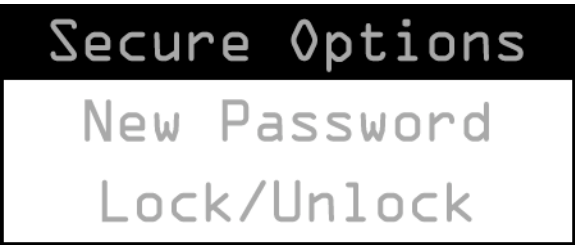


Figure 14. Secure Options Menu

The menu will include the option to change your password, lock or unlock channels, and to restore the factory defaults.

New Password

To create a new password, select “New Password” from the Secure Options menu. You will then be prompt to enter your new password in a 4-digit sequence (1-2-3-4). A “*” will be shown on the display each time a digit is entered. (Figure 15)



Figure 15. New Password Display

After you entered a new password the display will change to a confirmation screen. (Figure 16) You will need to enter the same password again to confirm.



Figure 16. Confirm New Password Display

After the last entry of the confirmation the display will then show “Password Changed” if the both entries match. If they don’t match then the display will show “ Password Not Changed” then you will be reverted back to the Secure Options menu.

Lock/Unlock Channel

To lock or unlock a channel select “Lock/Unlock” from the Secure Options menu. The Lock/Unlock display will list all channels with either a lock or unlock status. (Figure 17)



Figure 17. Lock/Unlock Channel Display

To unlock a locked channel, select the channel using the $\triangle$ **CURSOR UP** or ∇ **CURSOR DOWN** buttons. Press  **SELECT**. The following display will ask you to Confirm Unlock. (Figure 18) Press the “1” numerical button to select “Yes” or the “2” numerical button for “No”.

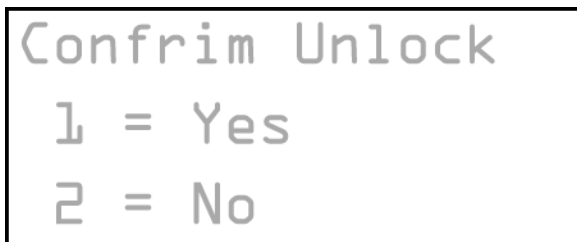


Figure 18. Confirm Unlock Display

After confirmation the display will revert back to the list of channels showing that the channel is not unlocked. (Figure 19)

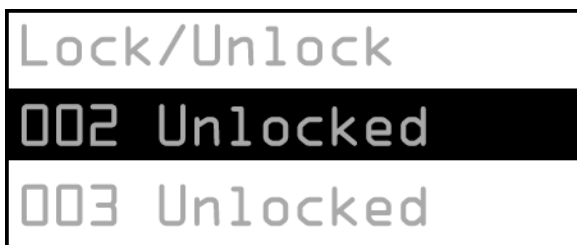


Figure 19. Display Showing Unlocked Channel

To lock an unlocked channel, select the channel using the $\triangle$ **CURSOR UP** or ∇ **CURSOR DOWN** buttons. Press  **SELECT**. The following display will ask you to Confirm Lock. (Figure 20) Press the “1” numerical button to select “Yes” or the “2” numerical button for “No”.

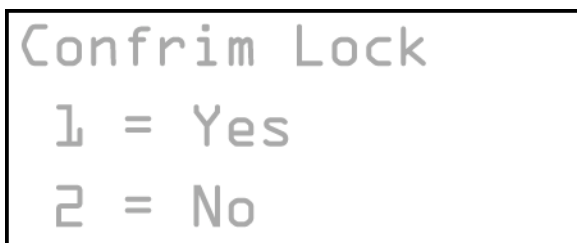


Figure 20. Confirm Unlock Display

After confirmation the display will revert back to the list of channels showing that the channel is not unlocked. (Figure 21)



Figure 21. Display Showing Locked Channel

Factory Restore

To restore the RC70 Wireless Remote back to its factory default settings, select “Factory Restore” from the Secure Options menu.

The Factory Restore display will give you an option to choose “Yes” or “No”. (Figure 22) To scroll to either option, press either the $\triangle$ **CURSOR UP** or ∇ **CURSOR DOWN** buttons then, choose the option by pressing the  **SELECT** button.

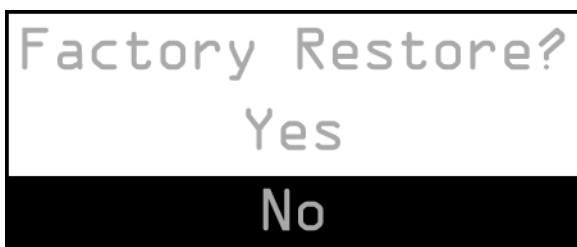


Figure 22. Factory Restore Display

If you choose “Yes” to restore the factory defaults, the RC70 remote will display an “Are You Sure?” message giving you a choice of selecting “Yes” or “No” again. Pressing “Yes” will revert

the RC70 remote to the original factory settings for the following parameters:

- All presets revert to empty
- Normal tuning Mode
- Passwords revert to factory default “0000”

Pressing “No” at anytime will exit you back to the Secure Options menu.

Note: Restoring Factory Defaults only restores the above settings in the RC70 Wireless Remote. This does not revert the MLB700 back to its default settings. For more information about the MLB700 factory defaults please refer to your Multi-Function Display Pilot’s Operating Handbook.

Universal Mode

Universal Mode is essentially an idle mode, since button presses are not transmitted to the MLB700. Activation of the  **SET** button in Universal Mode permits configuration of the RC70 remote. You must put the RC70 remote in Sirius Mode by pressing the  **SIRIUS** button in order to operate with the MLB700.

Presets

You can store up to 30 of your favorite channels as presets for easy tuning. There are 10 presets per band, A, B, and C, and channels are assigned preset numbers 0—9, for example, A1, A2, B1, C1, etc. The current band is displayed in the upper right corner of the default screen (Figure 3), and if the current channel is saved as a preset, the preset number will also be displayed, for example, C6.

Storing a Preset

To store a channel as a preset:

1. Tune to the channel you want to store.
2. Select the band by pressing and releasing the  **BAND** button until the desired band is displayed in the upper right hand corner of the display (A, B, or C).
3. Press and hold a numeric button (**0—9**) in which you want to store until the preset number appears with the band in the upper right hand corner of the display.

The channel is now stored as a preset. **Note:** You can replace previously stored presets by saving over them.

Selecting a Preset Channel

To select a channel you have saved as a preset:

1. Select the band by pressing and releasing the  **BAND** button until the desired band is displayed in the upper right hand corner of the display (A, B, or C).
2. Press and release the numeric button in which the preset is stored, for example, **1**.
3. The preset channel is tuned.

If you select a preset that does not have a stored value, the display will indicate that the selected preset was empty and the channel will remain unchanged.

Selecting Preset Channel with the FAVORITE Button

You can also use the  **FAVORITE** button to browse through the saved presets.

Adjusting the Contrast of the LCD Display

You can adjust the contrast setting of the LCD display on the wireless controller. To change the contrast setting:

1. Press and hold  **SET** until the LCD displays “Initial Setup”. Use  **LEFT** or  **RIGHT** to go to “ADVANCED SETUP” and press  **OK**.
2. From “ADVANCED SETUP”, press  **LEFT** or  **RIGHT** to go to “CONTRAST”.  **OK**.
3. The LCD displays “CONTRAST SETUP”, with 10 blocks to show the current contrast setting. Press  **LEFT** or  **RIGHT** to adjust the contrast setting.
4. When you are finished adjusting the contrast press  **OK**.
5. The LCD displays “CONTRAST”. Press and hold  **SET** to exit the menu.

LCD Timer Feature

The LCD Timer feature allows you to adjust how long the text is displayed after each button press. You can set the time to 10, 20, or 30 seconds.

To adjust the LCD Timer:

1. Press and hold  SET until the LCD displays “Initial Setup”. Use  LEFT or  RIGHT to go to Advanced Setup. Press  OK.
2. From “ADVANCED SETUP”, press  LEFT or  RIGHT to go to “LCD TIMER”. Press  OK.
3. The LCD displays “SET TO 20 SECONDS” (or the current setting). Press  LEFT or  RIGHT to adjust the LCD timer to 10, 20, or 30 seconds and press  OK.
4. The LCD displays “LCD TIMER”. Press and hold  SET to exit the menu.

Note: This adjustment does not affect the backlight. The backlight for the LCD display and buttons turns off after 10 seconds of no activity.

Special Display Messages

The wireless RC70 remote may also display status information about the MLB700. These messages are described in the following table.

Message	Explanation
Out of Range	The LCD displays Out of Range whenever the wireless controller and the MLB700 cannot communicate because they are too far apart or out of range because of some other interference. The display returns to normal when the wireless controller is again within range of the tuner.
Acquiring Signal	The LCD displays Acquiring Signal whenever the satellite signal is lost. The LCD returns to the normal display automatically when the MLB700 regains the satellite signal.
Updating Channels	The LCD displays Updating Channels whenever a channel update from SIRIUS is detected. While the channels update, the percentage of update progress is displayed on the screen.

Subscription Updated	The LCD displays Subscription Updated whenever SIRIUS broadcasts a subscription update. Press any SIRIUS related key to complete the update.
Antenna Not Detected	The LCD displays Antenna Not Detected whenever there is no antenna detected. If this message appears, check that the antenna is securely connected to the MLB700. The normal display returns automatically when the antenna is detected again.
Invalid Channel	The LCD displays Invalid Channel whenever you enter a channel number that does not exist. After two seconds, the current, active channel information, is re-displayed.
SIRIUS ID Number (SID)	To display your SIRIUS ID (SID) number, tune to channel 000. You can also display the SID by selecting Sirius ID from the Menu Options screen.
No Channel Match	There are no channels that match the tune request.
Operation Timed Out	No response at all from the MLB700 to the RC70 remote control command within approximately one second.
Module is Busy	This message will be displayed if the MLB700 is too busy to respond to the RC70 remote.
Unsupported Power Mode	This message will be displayed if the MLB700 is waiting to come out of a power down or hibernating state.

Possible Failure Error	The messages in this section below should not appear on the remote, but may do so if there is a failure in the MLB700 or in the RC70 remote control.
Bad Command Syntax	This message will be displayed if the parameters in a command sent to the MLB700 by the RC70 remote were incorrect.
Command Failed	This message indicates that the MLB700 has discovered a problem and cannot identify its source.
Internal Error <#>	This message is returned if the error number is not expected. The number can be checked against the MLB700 SSP specification.

Table 3. Special Display Messages

Warranty

Avidyne warrants this Product against any defects in design, material and workmanship for a period of twenty-four (24) months (RC70 Wireless Remote Control for twelve (12) months) from delivery. If any Product supplied by Avidyne hereunder fails to conform to this warranty, Avidyne shall, at its sole discretion, cost and expense, either repair or replace the same or provide a refund for the Product. This warranty is made upon the express condition that:

- a. Avidyne is given prompt written notice upon discovery of any non-conformity, with explanation of the alleged deficiencies;
- b. Such Product is returned to Avidyne or an Avidyne authorized service facility;
- c. The Product has not been altered, modified or changed in any other manner than has been previously authorized by Avidyne; and
- d. Repairs to the Product have not been made by anyone other than Avidyne or an Avidyne authorized service facility.

This Warranty does not apply to failures caused outside of the normal use of the Product, including improper installation, physical damage, tampering, lightning or other electrical discharge, or to Product with altered serial numbers.

Avidyne will use reasonable efforts to repair or replace Product within ten (10) days, and will return repaired Product or will supply replacement Products to the customer at Avidyne's expense.

All Products that have been repaired or replaced by Avidyne shall have the remainder term of the original warranty or ninety days, whichever is greater.

THIS WARRANTY EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, ORAL OR WRITTEN, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE. AVIDYNE WILL NOT, IN ANY EVENT, BE LIABLE FOR ANY DAMAGES INCLUDING ANY LOST PROFITS OR OTHER INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND OR TYPE ARISING FROM THE USE OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT.

The foregoing warranty represents Avidyne's exclusive liability.

Warning and Safety Information

FCC Warning

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in this Pilots Guide. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

Note: This equipment has been tested and found to comply with Part 15 of the FCC Rules. These rules are designed to provide reasonable protection against harmful interference. This equipment may cause harmful interference to radio communications if it is not installed and used in accordance with these instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, try to correct the interference by one of more of the following measures:

- Contact your Avidyne authorized dealer or Avidyne Customer Service Center for help.

FCC Statement for the MLB700 Radio

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the

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

- Do not use the remote control.
- Power down the equipment and remove the batteries from the remote.
- Contact your Avidyne authorized dealer or Avidyne Customer Support Center for help.

This product complies with FCC OET Bulletin 65 radiation exposure limits set forth for an uncontrolled environment.

Changes not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Statement for the Remote Control

FCC ID: MG310000

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide a reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiated radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Contact your Avidyne authorized dealer or Avidyne Customer Service Center for help.

MLB7XX Radio Compliance with IC Rules and Regulations

IC: XXXXX-YYYYyyyy

Model: MLB700

Avidyne Corporation

Operation is subject to the following two conditions: (1) This device may not cause harmful interference. and (2) this device must accept any interference received, including interference that may cause undesired operation.

Remote Control Compliance with IC Rules and Regulations

IC: 2575A-URC10000

Model: URC-10000

Universal Electronics Inc.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and radiates radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Contact your Avidyne authorized dealer or Avidyne Customer Service Center for help.

The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer could void the user's authority to operate his equipment.

General Precautions

Avidyne disclaims all liability for hearing loss, bodily injury or property damage as a result of the use or misuse of this product.

General Safety Warnings

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

Do not open, disassemble, or alter the units in any way. Doing so may result in fire, electric shock or product damage.

Do not insert any objects into the units. Doing so may result in fire, electric shock or product damage. Make the correct connections. Failure to make proper connections may result in fire or product damage.

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 install the units in areas where there are high levels of humidity, moisture, or dust. Doing so can result in electric shock or product failure.

Do not drop the unit or subject it to strong shocks.

If the unit doesn't seem to be working properly, turn the unit off, wait 10 seconds, and then turn it on again.

General Safety Cautions

Be sure to observe the following cautions. Failure to follow these safety cautions may result in injury or material property damage.

- Halt use immediately if a problem appears. Failure to do so may cause personal injury or damage to the product. Return the tuner to your Avidyne authorized retailer or Avidyne Customer Service Center for repairing.

Cleaning and Maintenance

If the tuner or wireless controller becomes dirty, turn the power off and wipe it clean with a soft clean cloth. Do not use hard cloths, paint thinner, alcohol, or other volatile solvents to clean. These may cause damage to the unit.

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

SIRIUS ID

Write down the SIRIUS IDs (SID) of your MLB700 Tuner in the space provided below.

SID #1 (data):

SID #2 (audio):

SID #3:

SID #4:



Avidyne Corporation

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