

AMB500W

INSTALLATION/OWNER'S MANUAL

Marine Receiver with Detachable Face

USB

SD™

AUX
Front Panel Input

MP3

Bluetooth®

WMA

Made for
iPod iPhone

SiriusXM
READY

Dual®

Preparation

Please read entire manual before installation.

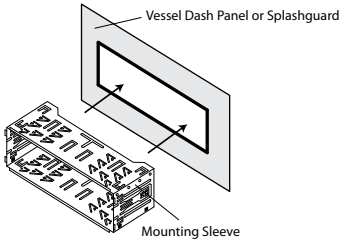
Before You Start

- Disconnect negative battery terminal. Consult a qualified technician for instructions.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight, or where it would be subject to dust, dirt or excessive vibration.

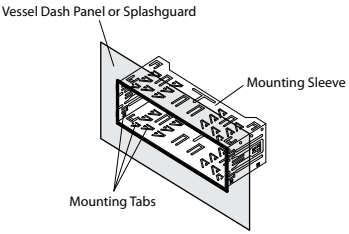
Getting Started

- Remove trim ring and mounting sleeve from the unit.
- Install mounting sleeve into opening, bending tabs to secure.
- Connect wiring harness and antenna. Consult a qualified technician if you are unsure.
- Certain vessels may require an installation kit and/or wiring harness adapter (sold separately).
- Test for correct operation and slide into mounting sleeve to secure.
- Snap trim ring into place.

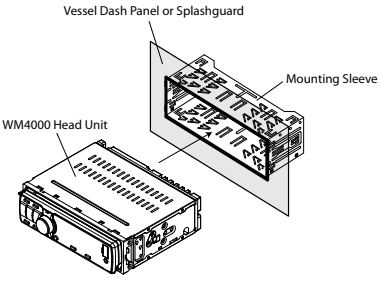
Step 1:
Insert the mounting sleeve into the vessel's dash panel or installed



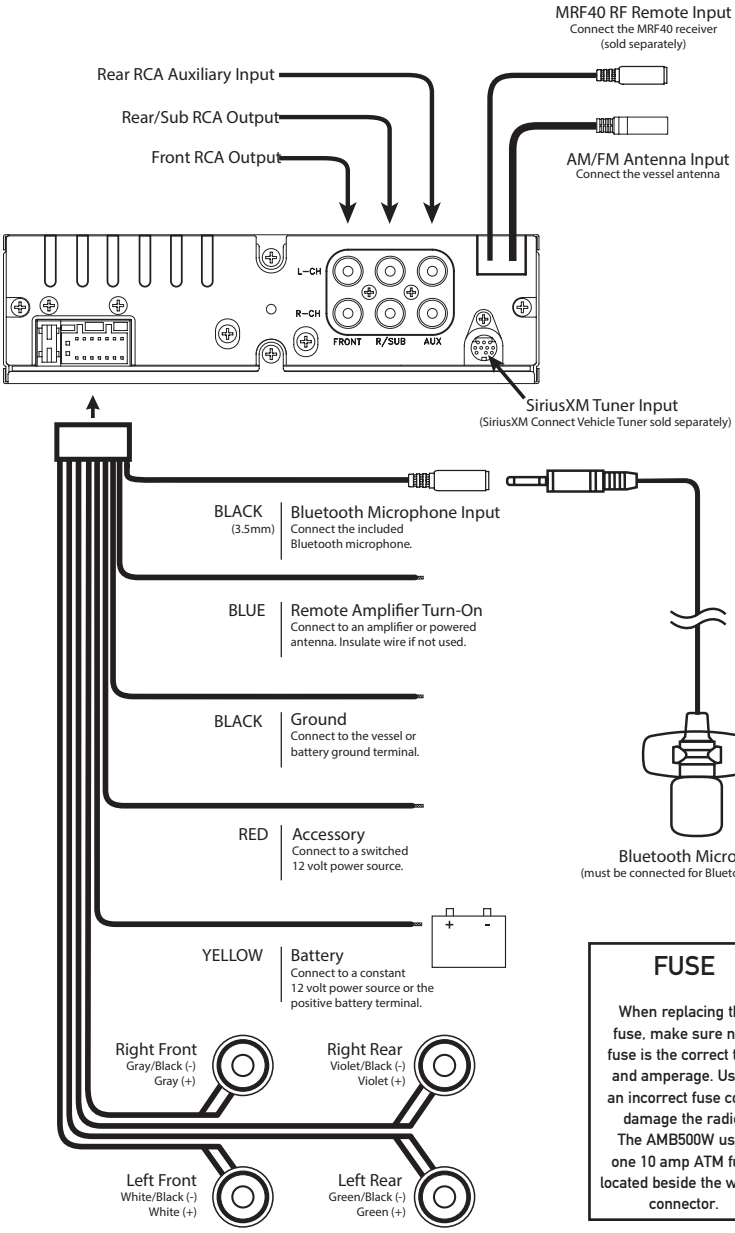
Step 2:
Bend multiple mounting tabs around the mounting sleeve until the mounting sleeve is secure



Step 3:
Connect all wiring harnesses and slide the head unit into the mounting sleeve until it clicks into place



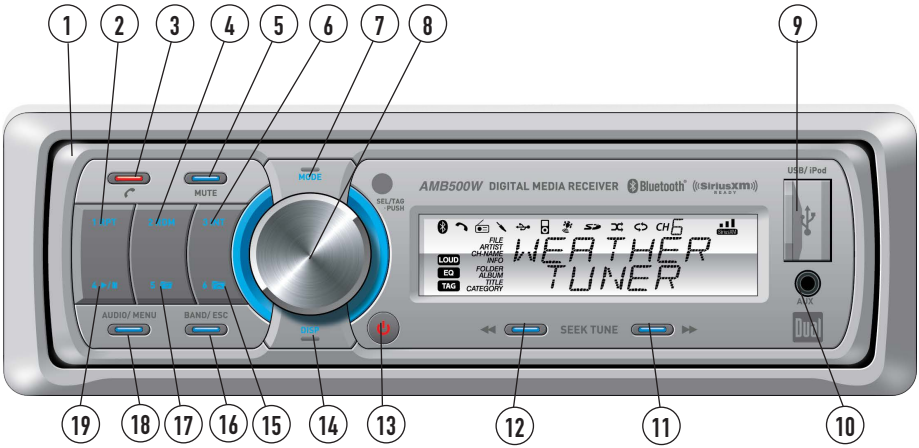
Wiring Diagram



FUSE

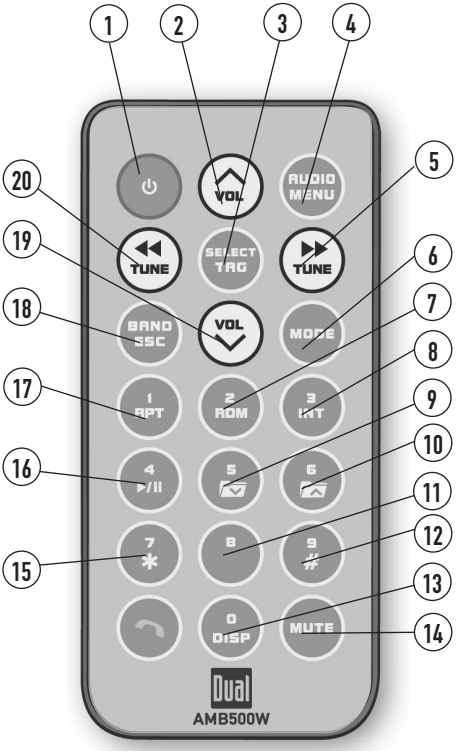
When replacing the fuse, make sure new fuse is the correct type and amperage. Using an incorrect fuse could damage the radio. The AMB500W uses one 10 amp ATM fuse located beside the wiring connector.

Control Locations - Receiver



1. Front Panel Release
2. Preset 1 / Repeat
3. Bluetooth Talk/End
4. Preset 2 / Random
5. Mute
6. Preset 3 / Intro
7. Mode (Source)
8. Volume (turn) / Select/Tag (push)
9. USB Port
10. Auxiliary Input
11. Tune/Track Up
12. Tune/Track Down
13. Power
14. Display
15. Preset 6 / Folder Up
16. Band / Escape
17. Preset 5 / Folder Down
18. Audio / Menu
19. Preset 4 / Play / Pause

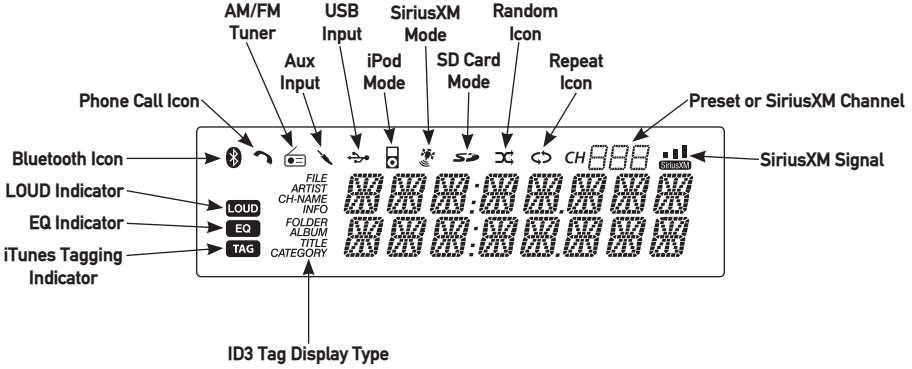
Control Locations - Remote



1. Power
2. Volume Up
3. Select / Tag
4. Audio / Menu
5. Tune / Track Up
6. Mode (Source)
7. Preset 2 / Random
8. Preset 3 / Intro
9. Preset 5 / Folder Down
10. Preset 6 / Folder Up
11. Kay 8
12. Key 9 / Key #
13. Display / Key 0
14. Mute
15. Key 7 / Key *
16. Preset 4 / Play/Pause
17. Preset 1 / Repeat
18. Band / Escape
19. Volume Down
20. Tune / Track Down

General Operation

Display Layout



Power On/Off

Press ⏻ or any other button (except **EJECT**) to turn the unit on. Press ⏻ to turn the unit off.

Changing Modes

Press **MODE** to cycle up through the operating modes: AM/FM, Front Aux, Rear Aux, USB, operation of iPod®, Bluetooth and SiriusXM (optional).

Available Modes

SiriusXM mode will not appear unless the SiriusXM Connect Vehicle Tuner (sold separately) is connected.

Operation of iPod mode will not appear unless an iPod device (sold separately) has been connected.

USB and SD modes will not appear unless a USB device or SD card (sold separately) have been connected.

Auxiliary Inputs

The AMB500W offers two auxiliary input ports, a 3.5 mm port on the front panel and an RCA connection on the back of the unit. Use either connection to connect audio device, MP3 player, etc. Press **MODE** to select AUX FRONT or AUX REAR modes.

Volume

Adjust volume using volume knob (00-46).

Display

Press **DISP** to select between clock and different types of information, such as radio frequency, CD track/elapsed time or MP3/WMA song information.

Reset

Press **RESET** upon initial installation or if abnormal operation occurs. Reset button is located behind the front panel.

Set the Clock

With the unit on, press and hold **DISP** until the clock begins to flash, then release. Press **TUNE** ◄◄ to adjust the hours and **TUNE** ►► to adjust the minutes. Press **DISP** momentarily to save the selected time.

Setup Menu

Menu Function	Options	Action
Auto Station Store	AUTO PGM STATIONS	Press **SELECT** to seek and save 6 strong stations in the current band. **(Tuner mode only)**
Local/Distance Tuning	LOCAL OFF	Activates distance tuning (**Tuner mode only**).
	LOCAL ON	Activates local tuning for strong station reception only **(Tuner mode only)**.
Tuner Frequency Spacing	FREQ'NCY USA	Programs the unit to USA tuner spacing. (200kHz for FM and 10kHz for AM). **(Tuner mode only)**
	FREQ'NCY EUR	Programs the unit to European tuner spacing. (50kHz for FM and 9kHz for MW). **(Tuner mode only)**
Selectable iPod Control	IPOD CNT FULL	Programs the head unit to advanced control of the iPod/iPhone device.
	IPOD CNT MANUAL	Programs the head unit to manual control of the iPod/iPhone device and allows music to be controlled from the iPod/iPhone device.
Loudness	LOUD ON	Enables the loudness feature, which enhances the bass and treble frequencies at low volumes.
	LOUD OFF	Disables the loudnes feature.
Clock Display	CLOCK OFF	Programs unit to not display the clock when the power is off.
	CLOCK ON	Programs unit to display the clock when the power is off.
Front Auxiliary Input	AUX-FRNT ON	Enables the front panel 3.5mm auxiliary input.
	AUX-FRNT OFF	Disables the front panel 3.5mm auxiliary input.
Rear Auxiliary Input	AUX-REAR ON	Enables the rear RCA auxiliary input.
	AUX-REAR OFF	Disables the rear RCA auxiliary input.
Rear/Sub RCA output	SUBWFR SUB	Programs the rear/sub RCA preamp output to subwoofer.
	SUBWFR REAR	Programs the rear/sub RCA preamp output to rear.
Beep Confirmation	BEEP OFF	Disables the confirmation beep.
	BEEP ON	Enables the confirmation beep.
Programmable Turn On Volume	PROG-VOL #	Programs unit to always turn on at a specific volume (default is OFF). Any volume level 1-46 can be selected.
Power on Message	MESSAGE OFF	Disables power on message. (example: GOOD MORNING)
	MESSAGE ON	Enables power on message to be displayed.
Scrolling Option	SCROLL 15 SEC	Programs unit to scroll information once every 15 seconds (default).
	SCROLL ONCE	Programs unit to scroll once, then show the first 8 characters on display.
	SCROLL ON	Programs unit to scroll continuously.
	SCROLL OFF	Programs unit to show the first 8 characters on the display.
Illumination Dimmer	DIMMER HIGH	Programs unit to the brightest illumination level.
	DIMMER MEDIUM	Programs unit to the middle illumination level.
	DIMMER LOW	Programs unit to the dimmest illumination level.
Demonstration Mode	DEMO OFF	Disables the demonstration mode.
	DEMO ON	Enables the demonstration message.
Bluetooth Options	See page 24 for menu options.	
SiriusXM Setup	(Press SELECT)	See page 12 for menu options.

General Operation

12/24-hour Clock

The clock will display 12-hour AM/PM time in USA frequency spacing mode (PM 10:00). In European frequency spacing mode, the clock will display 24-hour time (22:00).

Audio

Press **AUDIO** momentarily to select between Bass, Treble, Balance, Fader, Equalizer, Subwoofer and Source Volume Level.

→ BASS → TREBLE → BALANCE → FADER → EQ → SUBWOOFER → SOURCE LEVEL ┐

Bass

Press **AUDIO** until **BASS** appears, then rotate **volume knob** left/right to adjust (-6 minimum / +6 maximum).

Treble

Press **AUDIO** until **TREBLE** appears, then rotate **volume knob** left/right to adjust (-6 minimum / +6 maximum).

Balance

Press **AUDIO** until **BALANCE** appears, then rotate **volume knob** left/right to adjust (BALANCE LEFT 12 - BALANCE RIGHT 12). BALANCE EVEN represents equal balance.

Fader

Press **AUDIO** until **FADER** appears, then rotate **volume knob** left/right to adjust (FADER FRONT 12 - FADER REAR 12). FADER EVEN represents equal fader.

EQ

Press **AUDIO** until **EQ** appears, then rotate **volume knob** to select from the following equalization curves: FLAT (default), POP, JAZZ, CLASSIC, BEAT, ROCK and USER. Any manual adjustments to the bass and treble settings are automatically saved as USER.

Subwoofer

Press **AUDIO** until **SUBWFR** appears, then rotate **volume knob** left/right to adjust (0 minimum / +12 maximum).

Note: Subwoofer option will not appear if the REAR/SUB option in the setup menu is set to REAR. Refer to page 7 for details.

Source Volume Level

The source volume level control allows a gain adjustment for each audio source: AM, FM, WB, AUX FRONT/REAR, operation of iPod, USB, SD card, Bluetooth and SiriusXM. Set the source volume level for each mode, depending on the relative volume of each audio source.

To set the source volume level, press **AUDIO** until SOURCE LEVEL appears. After one second, the current mode will appear on the display. Turn the **volume knob** to adjust the audio level of the current source (-6 minimum/+6 maximum).

Note: Only the current mode will be available for adjustment. To adjust another mode of operation, press **MODE** until the desired mode is selected, then set the source volume level for that mode.

Tuner Operation

Seek Tuning

Press **TUNE** ◄◄ or **TUNE** ►► for more than one second to seek to the next strong station. Press and hold to advance quickly.

Manual Tuning

Press **TUNE** ◄◄ or **TUNE** ►► momentarily to change radio frequency up or down one step at a time.

Band

Press **BAND** to select between FM1, FM2, FM3, AM1, AM2 and WB bands.

Storing and Recalling Station Presets

Up to 18 FM stations and 12 AM stations can be stored. To store a station, select the desired band and station. Press and hold the desired preset button (1-6) for more than 2 seconds.

When stored, the preset number will appear in the display. The station can be recalled anytime by pressing the corresponding preset button.

Weather Band Tuner Operation

Band

Press **BAND** to select weather band (WB).

Manual Tuning

Press **TUNE** ◄◄ or **TUNE** ►► momentarily to seek the next weather band station.

Storing and Recalling Presets

Up to 6 weather band stations can be stored. To store a station, select the weather band and the desired station. Press and hold the desired preset button (1-6) for more than 2 seconds.

When stored, the preset number will appear in the display. The station can be recalled anytime by pressing the corresponding preset button.

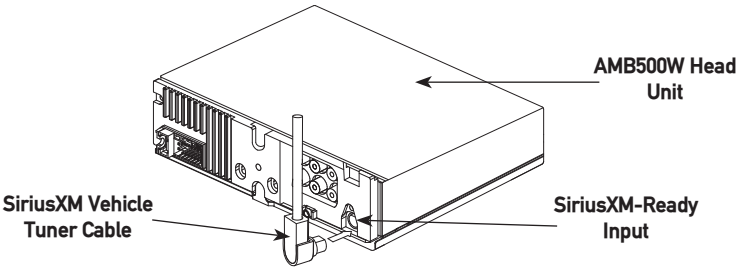
SiriusXM Vehicle Tuner Connections

Connecting the SiriusXM Vehicle Tuner (sold separately)

SiriusXM Satellite Radio operation requires the connection of the **SiriusXM Connect Vehicle Tuner** (sold separately).

Note: The SiriusXM Connect Vehicle Tuner must have the SiriusXM logo to be compatible with the AMB500W.

To connect the SiriusXM Vehicle Tuner, follow the instructions provided with the tuner. When connecting the tuner to the AMB500W, the cable orientation should be connected as shown below.



Line up the connector with the pins on the cable. It can only be inserted as shown above. Push the cable into the head unit's connector until it clicks. Attempting to insert the cable differently from shown above may cause damage to the cable or head unit.

SiriusXM Vehicle Tuner Operation

SiriusXM Satellite Radio Overview

Everything worth listening to is on SiriusXM, getting over 130 channels, including the most commercial-free music, plus the best sports, news, talk and entertainment. A SiriusXM Vehicle Tuner (sold separately) and Subscription are required. For more information, visit www.siriusxm.com.

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Tuner Activation

To listen to SiriusXM Satellite Radio, a subscription is required. Activate the SiriusXM Vehicle Tuner using one of the two methods below:

- **Online**: Go to "www.siriusxm.com/activatenow" and choose ACTIVATE RADIO.
- **Phone**: Call 1-800-XM-RADIO (1-800-967-2346).

Activation typically takes 10-15 minutes, but may take up to an hour. It is recommended to leave your vehicle on until the "Subscription Updated" message appears.

SiriusXM Vehicle Tuner Operation

Radio ID

To view the Radio ID on the LCD, press **TUNE ►►** or **TUNE ◄◄** until **channel 0** appears. The 8 character Radio ID will appear on the display. The Radio ID is also printed on the underside of the SiriusXM Vehicle Tuner.

Note: The Radio ID does not use the letters I, O, S, F.

Listening to SiriusXM Satellite Radio

After installation of the SiriusXM Vehicle Tuner, press **MODE** until SiriusXM mode appears to begin listening to SiriusXM Satellite Radio.

Changing Channels

Press **TUNE ►►** or **TUNE ◄◄** to change SiriusXM channels. Press and hold to advance quickly.

Band

Press **BAND** to select between the SXM1, SXM2 and SXM3 bands. Up to six presets can be programmed for each band, for a total of 18 SiriusXM Satellite Radio channel presets.

Setting Channel Presets

To store a channel, choose a Band (SXM1-SXM3), then tune to the desired channel. Press and hold a preset button (1-6) on the front panel or remote control for more than two seconds. When stored, a beep sound will be heard and the preset number will appear in the display.

Recalling Channel Presets

The preset channel can be recalled by pressing the corresponding preset button.

Note: Buttons 7,8,9,0 on the remote control are not associated with channel presets.

Channel List

Press **SELECT** to enter the channel search menu. With "CHANNEL LIST" highlighted, press **SELECT** to browse through a list of all available channels.

- Turn the **volume knob** to cycle through the list of channels.
- When the desired channel appears on the top line of the display, press **SELECT** to begin listening to that channel.

Note: Press **DISP** to change between the channel name, artist name, song title or content info.

Category Search

Press **SELECT** to enter the channel search menu. Turn the volume knob until "CATEGORY BROWSE" is highlighted, and press **SELECT** to browse through a list of all available channels.

- Turn the **volume knob** to cycle through the list of categories.
- Press **SELECT** to choose a category and display the channels in that category.
- Turn the volume knob to choose desired channel, then press **SELECT** to begin listening.

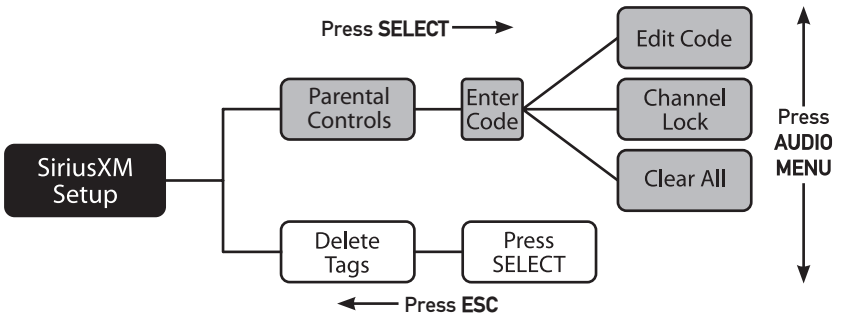
SiriusXM Vehicle Tuner Operation

SiriusXM Setup Menu

To access the SiriusXM setup menu options, press and hold **AUDIO/MENU** for more than 3 seconds, press **AUDIO/MENU** to cycle through menu options until "SIRIUSXM SETUP" appears, then press **SELECT**. Press **AUDIO/MENU** to cycle through the list of submenu options.

Function	Action	Options	Description
Parental Controls	*Enter Code (default: 0000)	EDIT CODE	Choose this option to program a new 4-digit code. Enter the new code using the input method described below*.
		CHANNEL LOCK	Allows channels to be locked, requiring the 4-digit code to be entered before the channel becomes available in the channel lineup. Once selected, the channel list will appear. • Turn the **volume knob** to browse through the list of channels. • Press **SELECT** to lock the desired channel. • Pressing **SELECT** on a locked channel will unlock it.
		CLEAR ALL	Choose this option to reset the locked channels back to the factory default. All currently subscribed channels will be unlocked.

SiriusXM Setup Menu Navigation



*To enter a 4 digit code, choose from the two options below:

- Enter the 4 digit code using the remote control, by pressing the numbers directly. The default code is "0000" if the code has not be changed with the "EDIT CODE" feature. Press **SELECT** to confirm.
- Turn the **volume knob** to select the first digit, then press **SELECT**. Continue with the remaining digits until all 4 digits have been entered. Press **SELECT** to confirm.

SiriusXM Vehicle Tuner Operation

Displayed Information

Display — Press **DISP** to cycle between the following options:

(LINE 1) CHANNEL NAME → TITLE → CONTENT INFO
(LINE 2) CATEGORY → ARTIST → CLOCK

Channel — Displays the name of the SiriusXM channel.

Category — Displays the category type of the current channel.

Title — Displays the song title from the currently playing song.

Artist — Displays the artist's name from the currently playing song.

Info — Displays special channel information from the current channel.

SiriusXM Advisory Messages

Message	Description
CHECK TUNER	• Check the SiriusXM tuner connection behind the AMB500W to ensure that its correctly connected.
CHECK ANTENNA	• Ensure the SiriusXM antenna cable is connected to the SiriusXM tuner correctly. • Check the SiriusXM antenna wire for breaks or sharp bends. Replace the antenna if necessary. • Press **RESET** located behind the front panel. If the message remains, the antenna may have been damaged.
NO SIGNAL	• The vehicle must be outside, and the antenna must have a clear view of the southern sky. • The magnetic antenna must be mounted on the outside of the vehicle for the best reception.
CHANNEL UNSUB	• This channel is not included in your SiriusXM subscription plan. Call 1-800-XM-RADIO (1-800-967-2346) to subscribe.
CHANNEL UNAVAIL	• This channel is not a valid SiriusXM channel. The channel number has been entered incorrectly, or the channel was removed from the SiriusXM channel lineup.
CHANNEL LOCKED	• The selected channel has been locked by the parental control option. • A prompt to enter the unlock code will appear. Enter the unlock code as described on page 12.
SUBSCRIP UPDATED	• An update to your SiriusXM subscription has been received by the SiriusXM tuner. Press any key to continue.

iTunes® Tagging (SiriusXM Mode)

Requirements The iTunes Tagging feature of the AMB500W requires the optional SiriusXM Connect Vehicle Tuner (sold separately).

Overview iTunes Tagging allows the user to "Tag" songs that are playing on SiriusXM Satellite Radio channel and enables them to be purchased later through iTunes. With the touch of a button the unit will remember the title and artist song information, and then transfer that information to your iPod device the next time you connect it to the AMB500W. A new list called "Tagged" will appear in iTunes, giving you the option to purchase each song.

Tagging Music

Step 1 **Tune to a SiriusXM channel**. The **TAG** button on the LCD will illuminate, indicating that a valid artist name and song title are available.

Step 2 **Press and hold the TAG button (push in the volume knob and hold)**. A confirmation will be displayed, indicating that the song information has been saved. The song information will be saved in memory until an iPod device is plugged in. Up to 64 SiriusXM Tags can be saved before they must be transferred or deleted.

Step 3 **Transfer Tags to an iPod/iPhone.**

- Connect an iPod/iPhone device. The mode will change to operation of iPod and Tags will be automatically transferred to the device, removing the Tags from the AMB500W's internal memory. A confirmation message will appear confirming the number of tags sent. The AMB500W must remain in operation of iPod mode until the "TAGS SENT" message is displayed.
- If an iPod/iPhone device is connected when a song is tagged, Tags will transfer automatically to the device. The unit must remain in SiriusXM mode until the "TAGS SENT" message is displayed. (See page 15 for compatibility with iPod devices.)

Note: Tags can only be sent from SiriusXM or operation of iPod modes.

Step 4 **Sync with iTunes**. A list named "Tagged" will appear on the left in the iTunes software. Click on the "Tagged" list to view all the songs that have been tagged and click the "view" button for purchase information.

Deleting All Tags Press and hold **AUDIO/MENU** to enter the setup menu and select the "Delete Tags" option. See page 12 for details.

Note: Once transferred, Tags are managed from the iTunes software.

iTunes® Tagging (SiriusXM Mode)

Troubleshooting

Displayed Message	Description
CHECK iPod VER	There is a compatibility issue with the iPod device that is connected. Check the list of compatible iPod devices below.
	If the attached iPod device is compatible, update the firmware to the latest version using iTunes.
SENDING TAGS	Tags are being sent to the iPod device. This process can take several minutes depending on the number of Tags being sent.
iPod FULL	There is not enough space on the connected iPod device to transfer the iTunes Tags. Free up space using iTunes.
TRANSFER FAILED	Connection error. Ensure the iPod device is powered on and reconnect the iPod device until a confirmation is displayed.
ALREADY TAGGED	The same song has already been tagged from the same channel, and is currently saved in memory. The same song cannot be tagged twice - unless the song is tagged on a different channel, the Tags are sent to an iPod device or the tags are erased.
MEMORY FULL CONNECT iPod	The internal memory will hold 64 SiriusXM Tags. An iPod device must be connected to transfer the Tags, or the Tags must be deleted before more songs can be tagged.
NO TAG INFO	There is not sufficient information (artist or title) to tag the song. Some HD Radio stations or SiriusXM channels or certain songs may not fully support iTunes Tagging.
TAGGING FAILED	There was an error saving the Tag information to the internal memory. Press and hold the **TAG** button again.
NO TAGS STORED	There are no tags saved in the internal memory. The Delete Tags function can only delete Tags that are saved in the internal memory.

Device Compatibility with iTunes Tagging

Compatible with:
- iPod touch (4th generation)
- iPod touch (3rd generation)
- iPod touch (2nd generation)
- iPod classic
- iPod nano (6th generation)
- iPod nano (5th generation)
- iPod nano (4th generation)
- iPhone 4
- iPhone 3GS
- iPhone 3G

Note: Some iPod devices may require you to select 'transfer purchases' in the context menu from the name of your iPod device to transfer Tags to iTunes.

Go to www.apple.com/itunes for the latest version of the iTunes software.

USB/SD Card Operation

Connecting a USB Device (sold separately)

To play MP3/WMA files from most USB mass storage devices, open the USB cover door, line up the USB connector and insert the USB device into the AMB500W's USB port.

Connect an SD Card (sold separately)

To play MP3/WMA files from an SD Card, insert an SD card into the SD card slot, located behind the front panel. Insert the SD card with the label facing to the right, and press the card until it clicks into place. Remove the SD card by pressing in until it clicks, then pull to remove.

Playing Music

When a USB or SD card device is first connected, playback will begin momentarily. Depending on the number of files and folders, it may take several seconds for the device to begin playing. If no valid MP3/WMA files are detected, "NO FILE" will be displayed and the last mode will be resumed.

Track Select

Press **TRACK** ►► to skip to the beginning of the next track. Press **TRACK** ◄◄ to return to the beginning of the current track. Pressing **TRACK** ◄◄ again skips to the beginning of the previous track.

Fast Forward and Reverse

Press and hold **TRACK** ►► or **TRACK** ◄◄ to fast forward or reverse a track.

Pause

Press ►/ II to temporarily stop USB/SD Card playback. Press ►/ II again to resume playback.

File/Folder Search

Step 1

Press **SELECT** to enter the file/folder search mode. A list of all the folders from the USB/SD Card device will be displayed. Folders that do not contain music will be ignored.

Note: Any files located in the root directory will be located in the folder named "ROOT". Press **SELECT** to view the files on the root folder.

Step 2

Turn the **volume knob** to cycle through all the folders on the device and press **SELECT** to choose the desired folder. The list of files in the selected folder will be displayed. Turn the **volume knob** to cycle through the list of files.

Note: Pressing **ESC** when viewing the contents of a folder will return to the list of folders on the USB/SD Card device. Press **ESC** again to exit the search menu.

Step 3

Once the desired song is displayed, press **SELECT** to begin playback of the desired song.

Note: Due to differences in USB/SD Card device transfer speeds, it is recommended to limit each folder to less than 30 songs.

USB/SD Card Operation

Displaying Information

When a file is accessed, the clock and elapsed time will be displayed. Press **DISP** momentarily to select between song title, artist, file name, folder name, track number and clock/elapsed time.

"NO TITLE" will be displayed if no song title information is available.

"NO ARTIST" will be displayed if no artist information is available.

Title Icon: Title

This icon will illuminate when the song title is displayed.

Artist Icon: Artist

This icon will illuminate when the artist name is displayed.

Folder Icon: Folder

This icon will illuminate when the folder name is displayed.

File Icon: File

This icon will illuminate when the file name is displayed.

Folder Access

Press to select the previous folder.
Press to select the next folder.

Note: Folder access is only available on devices with more than one folder.

Repeat

Press **RPT** to enter the Repeat menu, then turn the **volume knob** to select one of the following options:

- ALL - Plays all tracks on the device.
- SONG - Continuously repeats selected track.
- FOLDER - Continuously repeats all files in selected Folder.

Random

Press **RDM** to enter the Random menu, then turn the **volume knob** to select one of the following options:

- OFF - Cancels the **RDM** function.
- ALL - Plays all tracks in random order.
- FOLDER - Plays all tracks in folder in random order.

Note: Random mode is retained in memory when selecting between other modes and when the unit is turned on/off.

Preview

Press **PRE** to enter the Preview menu, then turn the **volume knob** to select one of the following options:

- OFF - Cancels the **PRE** function.
- ALL - Plays first 10 seconds of each track.
- FOLDER - Plays first 10 seconds of each track in folder.

USB/SD Card Operation

File/Folder Compatibility and Support

Compatible File Types	• MP3 data (.mp3) • WMA data (.wma)
Incompatible File Types	• AAC data (.m4a) • DRM protected files • WAV data (.wav) • WMA lossless • Apple lossless • WMA Pro • MP3 Pro • MP3 playlists
Sampling Frequency Rate Compatibility	• MP3: 8kHz - 48kHz • WMA: 32kHz - 48kHz
Transfer Bit Rate Compatibility	• MP3: 32kbps - 320kbps • WMA: 32kbps - 192kbps
Character Support	• Song Title: 32 characters • Artist Name: 32 characters • Album Name: 32 characters • File Name: 32 characters • Folder Name: 32 characters
ID3 Tag Support	• MP3 Tags: Version 1.0 - 2.4 • WMA Tags
File/Folder Limit	• Maximum number of files: 50,000 • Maximum number of folders: 255 (plus the root folder) • Maximum number of files in each folder: 50,000 **Note**: For devices with more than the maximum number of files/folders, some files will be ingnored and may not function properly.
USB/SD File System	• FAT/FAT32 file system supported. • HFS/NTFS/EXT2/EXT3 not supported.
SD Card Capacity	16GB or less supported.

Operation of iPod/iPhone

Connecting an iPod/iPhone Device

USB Connection



Using the "dock connector to USB" sync cable (provided with the iPod/iPhone device), plug the USB cable into the AMB500W's USB port. Once connected, playback will begin automatically.

Controlling a Device: Full Control

When the control of iPod/iPhone feature is set to "FULL" in the Setup Menu, use the following functions to control the device:

Song Select

Press ►► to skip to the beginning of the next song. Press ◄◄ to return to the beginning of the current song. Pressing ◄◄ again skips to the beginning of the previous song.

Fast Forward/Reverse

Press and hold ►► or ◄◄ to fast forward or reverse a song.

Pause

Press ►/ II to temporarily stop playback.
Press ►/ II again to resume playback.

Repeat

Press **RPT** to enter the Repeat menu, then turn the **volume knob** to select one of the following options:

- ALL - Repeats all tracks.
- SONG - Repeats selected track.

Random

Press **RDM** to enter the Random menu, then turn the **volume knob** to select one of the following options:

- OFF - Cancels the **RDM** function.
- ALL - Plays all tracks in random order.
- ALBUM - Plays all tracks in the selected album in random order.

Preview

Press **PRE** to enter the Preview menu, then turn the **volume knob** to select one of the following options:

- OFF - Cancels the **PRE** function.
- ON - Plays first 10 seconds of each track.

Operation of iPod/iPhone

Controlling a Device: Full Control - Music Search Menu

The AMB500W features a powerful music search that simplifies the searching process. Follow the steps below to find the desired song:

Begin Searching | Press **SELECT** to begin the search. The main search menu will appear.

Select a Category | Turn the **volume knob** to select between **artists**, **albums**, **songs**, **playlists**, **podcasts and audiobooks**. Press **SELECT** to select the desired search category. Some categories have subcategories to navigate through. See the table below for details.

Search Category	Menu Navigation
Artists	Menu ➡ Artists ➡ Albums ➡ Songs
Albums	Menu ➡ Albums ➡ Songs
Songs	Menu ➡ Songs
Playlists	Menu ➡ Playlists ➡ Songs
Podcasts	Menu ➡ Podcasts
Audiobooks	Menu ➡ Audiobooks

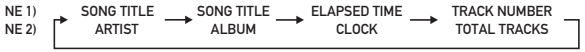
Step Backwards | Press **ESC** to return to the previous menu, or exit the search menu when the main menu is shown.

Playing a Song | Navigate to the desired song/podcast/audiobook and press **SELECT** to begin playback.

Note: If a specific category is selected, the iPod/iPhone device playback will be limited to that category until another category is selected in the search menu.

Displayed Information

Displaying Information | Press **DISP** momentarily to select file/folder name (default), song title/artist, track number/clock & elapsed time.



Character Support | Maximum character display information
- *Song Title – 32 character maximum
- *Artist Name – 32 character maximum
- *Album Name - 32 character maximum

*Song Title, Artist Name and Album Name will only be displayed if included with the file.

Operation of iPod/iPhone

When the control of iPod/iPhone feature is set to "MANUAL" in the iPod Menu, use the following functions to control the device:

Manual Control for iPod

When "MANUAL" control is selected from the iPod Menu, the iPod or iPhone device can be controlled directly from the device's interface. All functions except for volume can be used from the iPod or iPhone device.

Basic Head Unit Control

In addition to manual control of the iPod/iPhone device, the following basic functions are still active:

Song Select

Press ►► to skip to the beginning of the next song. Press ◄◄ to return to the beginning of the current song. Pressing ◄◄ again skips to the beginning of the previous song.

Pause

Press ►/ II to temporarily stop playback.
Press ►/ II again to resume playback.

Volume

When playing an iPod device, the volume is adjustable using the **volume knob.**

Device Compatibility Made for:

- iPod touch (4th generation)
- iPod nano (6th generation)
- iPod touch (3rd generation)
- iPod nano (5th generation)
- iPod touch (2nd generation)
- iPod nano (4th generation)
- iPod classic
- iPod touch (1st generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)
- *iPod nano (1st generation)
- *iPod with video
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

*These devices are not compatible with manual control mode.

Note: See page 15 for iPod and iPhone device compatibility with iTunes Tagging.

Bluetooth® Operation

Pairing a Device

Preparation	Before you can use a Bluetooth device, it must be paired and connected. Make sure that Bluetooth is activated on your device before you begin the pairing process.
Pairing a New Device	The AMB500W broadcasts the pairing signal constantly when no devices are currently connected. Complete the pairing sequence from your Bluetooth device. Refer to the owner's manual for your device for more details. **The device name is "AMB500W"** **The Bluetooth passcode "1234"** **Note: The AMB500W can be in any mode when you can pair a phone.**
Pairing Additional Devices	If a device is currently connected, press and hold ↩ to disconnect the current device before a new device can be paired. Then begin the pairing sequence from the new Bluetooth device.

(Re)Connecting a Paired Device

Many Bluetooth devices support the auto-connect feature, and will connect automatically if the device is in range when the AMB500W is powered-on. If your device was previously paired but does not connect, use these instructions below. Some devices require authorization to allow the auto connect feature.

Reconnect the last device:
- If your most recently connected Bluetooth device becomes disconnected or does not reconnect, simply press ↩ once from Bluetooth mode to reconnect your mobile device.

Reconnect a previously paired device:
- To connect a previously paired device that was not recently connected:
  1. If applicable, press and hold ↩ to disconnect any connected mobile devices.
  2. From Bluetooth mode, press **SELECT**. "Paired List" will appear on the display.
  3. Turn the **volume knob** to cycle through the list of devices.
  4. Press **SELECT** or ↩ to connect to the desired device. It must be in range to connect.

Note: If the **Auto Connect** setup menu setting is set to **OFF**, you must press ↩ to connect you device after pairing, and each time the AMB500W is powered-on.

Disconnecting a Device

Press and hold ↩ for 3 seconds to disconnect a connected device. The device will remain paired and appear in the PAIRED DEVICES menu, but will not be connected.

Bluetooth® Operation

Making a Phone Call

Manual Dialing using IR remote control

- Press ↷ once. "ENTERNUM" will be shown, then an "_" will appear on the display.
- Using the remote control, enter the phone number using the 0-9 buttons. Press ↷ on the remote control or AMB500W front panel to begin dialing.

Placing a call from the phone

Placing a phone call from your cell phone will also use the Bluetooth function of the AMB500W.

Recent Calls List

- Press **SELECT** from Bluetooth mode to view the 10 most recent phone calls that were dialed, received or missed while connected to the AMB500W.
- Turn the **volume knob** to cycle through the recent phone numbers. Press **SELECT** or ↷ to dial the phone number.

Redialing last number

To redial the last phone number, press ↷ three times from Bluetooth mode. Dialing will begin automatically.

Receiving and Ending Phone Calls

Receiving a Phone Call

Incoming phone calls will automatically appear on the display and a ring tone will be heard.

Note: The volume of the ring tone depends on the volume level of the AMB500W. The incoming ring tone may not be heard if the volume is set to a low level or mute is activated.

- Press ↷ to receive the incoming phone call.
- Press and hold ↷ for 3 seconds to refuse the incoming phone call.

Note: If **Auto Answer** is set to **ON** in the setup menu, all phone calls will be received automatically after a few rings.

Ending a Phone Call

During an active phone call, press ↷ to end a phone call. If the phone call was received when listening to music in another mode, the AMB500W will resume the previous mode.

Bluetooth® Operation

During a Phone Call

Volume

Turn the **volume knob** to adjust the volume level during a phone call. Bluetooth mode has a separate volume level from the main volume of other modes. The AMB500W will remember the volume level in Bluetooth mode and always return to the last volume level for each phone call.

Microphone Mute

Press **MUTE** during a phone call to turn the AMB500W's external microphone off. Press **MUTE** again to resume microphone operation.

Audio Transfer

Press **DISP** during a phone call to transfer the call from the AMB500W to the cell phone. Press **DISP** again to toggle the audio back to the AMB500W.

Call Waiting

During a phone call, if there is a second incoming call, press to place the first call on hold and switch to the second phone call. Press again to switch back to the first call.

Note: Audio transfer and call waiting must be supported by the mobile phone and service provider to function properly.

Bluetooth Setup Menu Options

Function	Options	Action
Bluetooth	BL'TOOTH (**ON**/OFF)	Enables/disables Bluetooth functionality.
Auto Connect	AUTO CON (ON/**OFF**)	Set to ON to allow a Bluetooth device to connect automatically. Setting to OFF requires manually connecting the device.
Auto Answer	AUTO ANS (ON/**OFF**)	When set to ON, every incoming phone call will automatically be answered after 2-3 rings. When set to OFF, the button must be pressed to answer incoming phone calls.
Speaker Output	BT SPRKS (**FRONT**/ALL)	Set to FRONT to direct the Bluetooth audio output to the front speakers only. Set to ALL to enable Bluetooth audio to output from all 4 speakers.

Bluetooth® Operation

Streaming Audio Operation

The AMB500W supports A2DP (advanced audio distribution profile) wireless streaming audio from your Bluetooth mobile device directly to your head unit. You can also control your music from the front panel of the head unit using AVRCP (audio video remote control profile).

Notes:

- To stream music to your head unit, your mobile device must support the A2DP and AVRCP Bluetooth profiles. Check the owner's manual of your mobile device for details.

- Streaming audio must be enabled from your mobile device. This option will vary depending on the device. Some devices allow streaming audio to be disabled.

After pairing, connecting and enabling streaming audio from a compatible mobile device, begin playing music using the music player on your mobile device. Once the music is playing, the following functions can be used to control the music:

- The ►► button will skip to the next available audio track.
- The ◄◄ button will skip to the previous audio track.
- The ►/ II button will toggle between play and pause during playback.

Note: Some Bluetooth devices may not fully support these commands.

Bluetooth Reset

Resetting the Bluetooth module will remove the list of paired phones and delete the list of recent calls from memory.

To reset Bluetooth, perform the following steps:
1) Press **MODE** until the head unit is in Bluetooth mode.
2) Press and hold **MODE** for 5 seconds to reset the Bluetooth settings back to the factory default.

Compatibility Note:

Due to the differences in Bluetooth technology, some mobile devices may be incompatible, function improperly or may not support all features when used with the AMB500W.

Limited One-Year Warranty

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

Dual Electronics Corp. warrants this product to the original purchaser to be free from defects in material and workmanship for a period of one year from the date of the original purchase.

Dual Electronics Corp. agrees, at our option, during the warranty period, to repair any defect in material or workmanship or to furnish an equal new, renewed or comparable product (whichever is deemed necessary) in exchange without charges, subject to verification of the defect or malfunction and proof of the date of purchase. Subsequent replacement products are warranted for the balance of the original warranty period.

Who is covered? This warranty is extended to the original retail purchaser for products purchased from an authorized Dual dealer and used in the U.S.A.

What is covered? This warranty covers all defects in material and workmanship in this product. The following are not covered: software, installation/removal costs, damage resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product, or damage occurring during return shipment of the product. Specific license conditions and copyright notices for the software can be found via www.dualav.com.

What to do?

1. Before you call for service, check the troubleshooting guide in your owner's manual. A slight adjustment of any custom controls may save you a service call.

2. If you require service during the warranty period, you must carefully pack the product (preferably in the original package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.

3. Please describe your problem in writing and include your name, a return UPS shipping address (P.O. Box not acceptable), and a daytime phone number with your shipment.

4. For more information and for the location of the nearest authorized service center please contact us by one of the following methods:

   - Call us toll-free at 1-866-382-5476
   - E-mail us at cs@dualav.com

Exclusion of Certain Damages: This warranty is exclusive and in lieu of any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose and any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from the company's negligence, actual or imputed. No person or representative is authorized to assume for the company any other liability in connection with the sale of this product. In no event shall the company be liable for indirect, incidental or consequential damages.

Troubleshooting

Problem	Cause	Action
Unit will not turn on (no power)	Yellow wire not connected or incorrect voltage Red wire not connected or incorrect voltage	Check connections for proper voltage (11~16VDC)
	Black wire not connected	Check connection to ground
	Fuse blown	Replace fuse
Unit has power (but no sound)	Speaker wires not connected	Check connections at speakers
	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground
Unit blows fuses	Yellow or red wire touching chassis ground	Check for pinched wire
	Speaker wires touching chassis ground	Check for pinched wire
	Incorrect fuse rating	Use fuse with correct rating
NO SUPPORT appears on display	An invalid ID3 tag version is present	Version 1.0 to 2.4 ID3 tags are supported.
	An ID3 tag character is not supported	Only ASCII characters are supported.
NO FILE appears on display	Selected file is not available in direct or alphanumeric search modes	Repeat search using valid parameters
PROTECT appears on display	The WMA file is copy-protected by DRM (Digital Rights Management)	Write disc using WMA files that are not copy-protected

Specifications

FM Tuner	Tuning range: **87.5MHz-107.9MHz** Usable sensitivity: **8.5dBf** 50dB quieting sensitivity: **10dBf** Stereo separation @ 1kHz: **40dB** Frequency response: **30Hz-13kHz**
AM Tuner	Tuning range: **530kHz-1710kHz** Usable sensitivity: **22uV** Frequency response: **30Hz-2.2kHz**
General	Speaker output impedance: **4~8 ohms** Line output voltage: **2 Volts RMS** Dimensions: **7" x 7" x 2" (178 x 178 x 51 mm)**
USB/SD Card	File system: **FAT, FAT32** File extensions support: **.mp3, .wma** SD Card maximum device capacity: **16GB**
Bluetooth Profiles	**HFP** (hands-free profile) **A2DP** (advanced audio distribution profile) **AVRCP** (audio video remote control profile)
	Design and specifications subject to change without notice.



CEA-2006 Power Standard Specifications
(reference: 14.4VDC +/- 0.2V, 20Hz~20kHz)

Power Output: 18 Watts RMS x 4 channels at 4 ohms and ≤ 1% THD+N
Signal to Noise Ratio: 80dBA (reference: 1 watt into 4 ohms)

Notes

Notes

Notes



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Toll Free: 1-866-382-5476
9AM-5PM EST, Monday-Friday

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