AVM80
INSTALLATION/OWNER’S MANUAL

Multimedia Receiver with Bluetooth®, DualMirror™ and SiriusXM-Ready™ featuring a 6.2” Touch Screen Display

(SiriusXM® Ready) microSD™ Bluetooth®

USB 2-Way DualMirror™ MP3

axxera™
Copyright Notes

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Operating system updates from Apple and Android may cause your receiver not to function properly. This can usually be fixed by doing a software/firmware update to the receiver itself. To see if your receiver has the latest firmware, contact customer service at 1-888-382-5478 to see if your radio needs an update.

Other trademarks and trade names are those of their respective owners.
Safety Information

Please read all instructions carefully before attempting to install or operate.

Due to its technical nature, it is highly recommended that your Axxera AVM80 is installed by a professional installer or an authorized dealer. This product is only for use in vehicles with 12VDC negative ground only.

To prevent damage or injury:

- Make sure to ground the unit securely to the vehicle chassis ground.
- Do not remove the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or the possibility of water splashing.
- Do not subject the unit to excessive shock.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause the unit to malfunction.
- To prevent short circuits when replacing a fuse, disconnect the wiring harness first.
- Use only the provided hardware and wire harness.
- You cannot view video while the vehicle is moving. Find a safe place to park and engage the parking brake.
- If you experience problems during installation, consult your nearest Axxera dealer.
- If the unit malfunctions, reset the unit as described on page 10 first. If the problem still persists, consult your nearest Axxera dealer or call tech assistance @ 1-866-382-5476.
- To clean the monitor, wipe only with a dry silicone cloth or soft cloth. Do not use a stiff cloth, or volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or remove the printing.
- When the temperature of the unit falls (as in winter), the liquid crystal inside the screen will become darker than usual. Normal brightness will return after using the monitor for a while.
- When extending the ignition, battery or ground cables, make sure to use automotive-grade cables or other cables with an area of 0.75mm (AWG 18) or more to prevent voltage drops.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken. The liquid crystal fluid may be hazardous to your health or fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

FCC Compliance

This device complies with Part 15 of the FCC Rules. 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.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
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
• Insert the supplied keys into the slots as shown.
• Connect wiring harness as shown on page 4. Consult a qualified technician if you are unsure.
• Certain vehicles may require an installation kit and/or wiring harness adapter [sold separately].
• Reconnect negative battery terminal, and test for correct operation.
• Snap trim ring into place [if required].
Note:
When replacing a fuse, make sure to use the correct type and amperage. Using an incorrect fuse could cause damage. The unit uses (1) 10 amp blade-type fuse located on the back of the unit.

Wiring Notes:

Rear camera input
A rear view camera (not included) can be used with the Camera input.

Connecting a device
DualMirror technology allows you to mirror the screen of select Android smartphones as well as iPhone, iPod and iPad devices.

SiriusXM
For more information on how to install the SiriusXM Connect Vehicle tuner, consult the installation guide included with the tuner (SiriusXM connect tuner and subscription sold separately).
Control Locations

1. Reset
2. Mode
3. Tune / Track Up
4. Power / Volume / Mute
5. Tune / Track Down
6. USB Port
7. Auxiliary Input
8. MicroSD Slot
9. Microphone
10. IR Sensor

11. Power
12. Play / Pause
13. Mute
14. Talk
15. End call
16. Zone 1
17. Zone 2
18. Volume UP
19. Zoom
20. Select
21. Seek Up
22. Volume Down
23. Audio
24. * Key
25. Loudness
26. Number keys
27. Root
28. OSD (On Screen Display)
29. Local / Random
30. Seek Down / Previous Track
31. AS / PS / Repeat
32. Stereo
33. Stop
34. Enter / Direct Tune
35. Band
36. SiriusXM Skip Backward
37. SiriusXM Channel Up
38. SiriusXM Skip Forward
39. SiriusXM Channel Down
Remote Control Preparation

Remove battery insulation tape.

To insert or replace the battery, remove the battery holder.

Remove the battery from the battery holder.

Install the new battery. Make sure to keep the (+) side up.

Insert the battery holder.

Notes:
• The remote control uses one 3 volt Lithium CR2025 battery. Remove the battery if the remote will not be used for a month or longer.
• Remove and dispose of battery properly.
• Do not store battery with metallic objects or materials.
## General Operation

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power On/Off</strong></td>
<td>Press (\bigcirc) to turn the unit on. Press and hold (\bigcirc) to turn the unit off.</td>
</tr>
<tr>
<td><strong>Mode</strong></td>
<td>Press MODE to access available input modes: Radio, SiriusXM, DualMirror, USB, SD Card, Bluetooth Phone, Bluetooth Music, Rear Camera, Auxiliary Input and AV In. Modes of operation are indicated on the display and/or the monitor. USB device or SD card must be connected/inserted to appear in the mode selection string.</td>
</tr>
<tr>
<td><strong>Volume</strong></td>
<td>Rotate the volume knob to increase or decrease the volume level.</td>
</tr>
<tr>
<td><strong>Mute</strong></td>
<td>Momentarily press (\bigcirc) to silence the audio. Momentarily press (\bigcirc) again to return to the previously selected volume. Rotating the volume knob while the muted will also cancel the mute function.</td>
</tr>
<tr>
<td><strong>Auxiliary Input</strong></td>
<td>Connect external audio devices to the 3.5mm auxiliary input on the front panel.</td>
</tr>
<tr>
<td><strong>USB Port</strong></td>
<td>Connect a USB device to the USB port on the front panel to play MP3 files or view AVI video files or JPG photos.</td>
</tr>
<tr>
<td><strong>MicroSD Slot</strong></td>
<td>Insert a MicroSD card into the MicroSD slot on the front panel to play MP3 files or view AVI video files of JPG photos.</td>
</tr>
<tr>
<td><strong>Main Menu</strong></td>
<td>From any operational mode, press the house icon in the top left corner to access the Main Menu screen.</td>
</tr>
<tr>
<td><strong>Using AV Input</strong></td>
<td>Connect an optional audio/video source to the rear auxiliary input[Red/White/Yellow RCA connectors].</td>
</tr>
</tbody>
</table>

1. Adjust screen brightness or put the monitor into standby mode.
2. Access audio setting such as EQ, Surround Sound Settings and Field Settings (Balance).

**Speaker Zone 1**

- Press the Zone 1 button to turn on/off the sound from this zone

**Speaker Zone 2**

- Press the Zone 2 button to turn on/off the sound from this zone.
General Operation

Setup Menu

From the Main Menu screen, press Settings in the bottom right corner to access the Setup Menu and select from the following categories: General, Audio, Video and Bluetooth.

General:

- **OSD Language** - Select English as the language for the on-screen display.
- **Wallpaper** - Select between three available wallpaper options.
- **Panel Adjust** - Select to calibrate the touch screen.
- **Radio Area** - Select your current geographic area: Europe, USA, South America, Russia and Asia.
- **Time Setting** - Adjust the current time (hours and minutes) and choose between a 12-hour and 24-hour clock.
- **SWC** - Select to program steering wheel controls.
- **Beep** - Select to turn the audible beep On or Off.
- **Camera** - Select to turn the rear camera On or Off.
- **Version** - Select to view information about the unit.
- **Restore Default** - Select to restore the unit to default setting (including SiriusXM® data reset)

Audio:

- **Sound Effect** - Select to access the three sound effect sub-menus.
  - **EQ** - Select from any preset equalization curve [Classic, Rock, Pop, Jazz, Beat, Flat] or use custom settings [User].
  - **Subwoofer** - Select the desired Subwoofer frequency and volume.
  - **Loudness** - Turn the Loudness setting On or Off.
  - **Loudness Cutoff Frequency** - Select the desired Camera Audio level volume.
  - **Camera Audio Level** - You can adjust the volume level from the audio input for camera.

Video:

- **Aspect Ratio** - Select the desired aspect ratio: 4:3PS, 4:3LB or 16:9.
- **Adjust** - Select to adjust levels of Brightness, Contrast, Hue, Saturation and Sharpness.
- **Panel** - Select to choose backlight settings: 10s, 20s, 30s or Off.

Bluetooth:

- **Auto Connect** - Turn auto connect feature On or Off.
- **Auto Answer** - Turn auto answer feature On or Off.
Select the Radio icon from the Main Menu screen.

Press to return to Main Menu screen.

Displays current mode of operation.

Press momentarily to tune the unit down one step at a time. Press and hold to tune down by seeking the next strong station.

To store a preset station, tune unit to desired station, then press and hold the desired preset button to store the current station in that preset spot. Up to 18 FM and 12 AM stations can be stored in memory. Momentarily press any preset station to play it instantly.

Press to adjust screen brightness or put the monitor into standby mode.

Press to select between three FM and two AM bands.

Press to toggle between LOCAL and DX (distance) tuning.

Press to access audio setting such as EQ, Surround Sound Settings and Field Settings (Balance).

Press to toggle between Stereo and Mono tuning.
AM/FM Tuner Operation

- **AS/PS** Press and hold to automatically store the six strongest stations in the current band as presets. Press briefly for a preset scan, which will scan all preset stations and play 10 seconds of each. Press again to cancel the scan and continue playing the current station.

- **Settings** Press to access the Settings Menu.

- **Tune Frequency Up** Press momentarily to tune the unit up one step at a time. Press and hold to tune up by seeking the next strong station.
USB/SD Operation

To play MP3 files from a USB device or SD card, insert device and playback will begin automatically. To return to USB or SD playback from another mode of operation, select the corresponding icon from the Main Menu.

- **USB Playback** - Insert a USB device into the USB slot on the front of the unit.
- **SD Playback** - Insert MicroSD card into the MicroSD slot on the front of the unit.

**Main Menu**
Press to return to Main Menu screen.

**Current Mode Indicator**
Displays current mode of operation.

**File Information**
Displays information about the current file.

**Screen**
Press to adjust screen brightness or put the monitor into standby mode.

**Tune / Track Down**
Press momentarily to tune the unit down one step at a time. Press and hold to tune down by seeking the next strong station.

**Play / Pause**
Press to play or pause playback.

**Audio**
Press to access audio setting such as EQ, Surround Sound Settings and Field Settings [Balance].

**Tune / Track Up**
Press momentarily to tune the unit up one step at a time. Press and hold to tune up by seeking the next strong station.
USB/SD Operation

Press to access the directory of folders and files. Use the up/down arrows to scroll through the folder list, then press on the name of the desired folder to access it. Use the up/down arrows to scroll through the file list, then press on the name of the desired file to access it.

Press to access the Setting Menu.

Press to turn Repeat feature on.

Press to turn Random feature on.

**Folder Search**  
Press to access the directory of folders and files. Use the up/down arrows to scroll through the folder list, then press on the name of the desired folder to access it. Use the up/down arrows to scroll through the file list, then press on the name of the desired file to access it.

**Settings**  
Press to access the Setting Menu.

**Repeat**  
Press to turn Repeat feature on.

**Random**  
Press to turn Random feature on.
## Media Compatibility - USB/SD Card

<table>
<thead>
<tr>
<th>File Type</th>
<th>MP3</th>
</tr>
</thead>
<tbody>
<tr>
<td>File System</td>
<td></td>
</tr>
<tr>
<td>FAT</td>
<td></td>
</tr>
<tr>
<td>FAT 12</td>
<td>X</td>
</tr>
<tr>
<td>FAT 16/FAT 32</td>
<td>✓</td>
</tr>
<tr>
<td>File Extension</td>
<td></td>
</tr>
<tr>
<td>.mp3/MP3/Mp3/mP3</td>
<td>✓</td>
</tr>
<tr>
<td>.m4m/m4a</td>
<td>X</td>
</tr>
<tr>
<td>MPEG Format</td>
<td></td>
</tr>
<tr>
<td>MPEG 1</td>
<td>✓</td>
</tr>
<tr>
<td>MPEG 2</td>
<td>✓</td>
</tr>
<tr>
<td>MPEG 2.5</td>
<td>✓</td>
</tr>
<tr>
<td>Sampling Frequency</td>
<td></td>
</tr>
<tr>
<td>MPEG 1</td>
<td>32/44.1/48kHz</td>
</tr>
<tr>
<td>MPEG 2</td>
<td>12/16/22.05/24kHz</td>
</tr>
<tr>
<td>MPEG 2.5</td>
<td>8/11.025/12kHz</td>
</tr>
<tr>
<td>Bitrate</td>
<td></td>
</tr>
<tr>
<td>MPEG 1</td>
<td>32 ~ 320kbps</td>
</tr>
<tr>
<td>MPEG 2</td>
<td>8 ~ 160kbps</td>
</tr>
<tr>
<td>MPEG 2.5</td>
<td>8 ~ 160kbps</td>
</tr>
<tr>
<td>Other Information</td>
<td></td>
</tr>
<tr>
<td>Directory Depth</td>
<td>Unlimited</td>
</tr>
<tr>
<td>File Name Length</td>
<td>32 bytes</td>
</tr>
<tr>
<td>Total File Number</td>
<td>2000 files</td>
</tr>
<tr>
<td>Total Folder Number</td>
<td>200 folders</td>
</tr>
<tr>
<td>File Number via Folder</td>
<td>2000 files</td>
</tr>
<tr>
<td>MP3 ID3 TAG</td>
<td></td>
</tr>
<tr>
<td>ver.1.x</td>
<td>✓</td>
</tr>
<tr>
<td>ver.2.x</td>
<td>✓</td>
</tr>
<tr>
<td>Title, Artist, Album</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Notes:**

- For USB mode, it is not possible to view JPG files on the in-dash monitor while the vehicle is moving. This is a safety feature to prevent driver distraction.

- The JPG image viewer function will only operate when vehicle is in park and the parking brake is engaged.

- Due to ongoing technological advancement, some USB flash drives and/or SD cards may be incompatible with this unit.
# Media Compatibility

<table>
<thead>
<tr>
<th>Media Compatibility</th>
<th>The following types of discs/files are compatible:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• AVI - Max video resolution: 720x480, Max video bit rate: 5000 kbps</td>
</tr>
<tr>
<td></td>
<td>• SD/USB format type: FAT32/FAT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>The following types of discs/files are not compatible:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• MP3 PRO format, MP3 playlists</td>
</tr>
<tr>
<td>• RMP format</td>
</tr>
<tr>
<td>• WAV format</td>
</tr>
<tr>
<td>• WMV format</td>
</tr>
<tr>
<td>• WMA format</td>
</tr>
<tr>
<td>• AAC, protected AAC, M4A format</td>
</tr>
</tbody>
</table>

MP3 playback sequence begins in the root folder of the USB flash drive or SD card. Any empty folders or folders that do not include MP3/JPG files are skipped.

<table>
<thead>
<tr>
<th>Playback Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO9660 standards:</td>
</tr>
<tr>
<td>• Maximum nested folder depth is 8 (including the root folder).</td>
</tr>
<tr>
<td>• Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and &quot;_&quot; (underscore). Some characters may not be displayed correctly, depending on the character type.</td>
</tr>
<tr>
<td>• This device can play back files in Joliet and other standards that conform to ISO9660. MP3 written in the formats other than the above may not play and/or their file names or folder names may not be displayed properly.</td>
</tr>
</tbody>
</table>

Some files may not play or be displayed correctly, depending on sampling rates and bit rates.

<table>
<thead>
<tr>
<th>Compatible Recording Formats</th>
</tr>
</thead>
<tbody>
<tr>
<td>For best results, use the following settings when ripping MP3 files:</td>
</tr>
<tr>
<td>128kbps or higher constant bit rate</td>
</tr>
<tr>
<td>44.1kHz or higher sampling frequency</td>
</tr>
</tbody>
</table>
2-Way DualMirror™ Operation

The DualMirror™ technology allows you to mirror the screen of select Android smartphones as well as iPhone, iPod and iPad devices onto the receiver’s screen and to charge your mobile device through the front USB port. Simply plug in your device to the front HDMI and USB inputs, and you are ready to view your favorite navigation or music apps directly on the receiver’s screen. The DualMirror™ technology requires the following cables which are sold separately.

<table>
<thead>
<tr>
<th>Cable Number</th>
<th>Devices</th>
<th>Product Description</th>
<th>Wire Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL55A</td>
<td>Android</td>
<td>5-pin microUSB connector to HDMI + USB</td>
<td>5 ft</td>
</tr>
<tr>
<td>SL113A</td>
<td>Android</td>
<td>11-pin microUSB connector to HDMI + USB</td>
<td>3 ft</td>
</tr>
<tr>
<td>SL115A</td>
<td>Android</td>
<td>11-pin microUSB connector to HDMI + USB</td>
<td>5 ft</td>
</tr>
<tr>
<td>DL5i</td>
<td>iOS</td>
<td>HDMI cable &amp; USB cable</td>
<td>5 ft</td>
</tr>
<tr>
<td>DMH25</td>
<td>DualMirror Dongle</td>
<td>HDMI adapter with WiFi connection</td>
<td></td>
</tr>
<tr>
<td>DMC15</td>
<td>DualMirror Dongle</td>
<td>HDMI or AV out(RCA) adapter with WiFi connection</td>
<td></td>
</tr>
</tbody>
</table>

For the 2-way control feature, here is how to setup and connect your Android device.

1. Download DualMirror.apk from Google Play Store.
2. When the download is complete, the DualMirror APP icon is created on main menu.
4. Tap OPEN BT SETTING to move to Bluetooth setting mode
5. Pair the Android phone with the DualMirror Function unit via Bluetooth.
7. Select DualMirror Mode.
8. Tap ACCEPT on Warning screen.

*MIRROIR LINK*

1. If 2 way control does not work, check if DualMirror APK works or Bluetooth is paired or not.
2. *Note:* If the 2-way control is not working, verify that the DualMirror app is running prior to connecting the phone to the unit and make sure that the Bluetooth is paired/connected and the status on the app also says "Connected"
2-Way DualMirror™ Operation

Connecting an Android device

[Diagram showing connection setup]

Connecting an iPhone, iPod or iPad device

[Diagram showing connection setup]
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.

The unit 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 "Axxera AVM80". The Bluetooth passcode "0000". The unit can be in any mode of operation when pairing is performed.**

**Note:** On certain phones, pairing may need to be done more than once if there are connectivity issues.

Most Bluetooth devices support the auto-connect feature and will connect automatically if the device is in range when the unit is powered-on. If your device was previously paired but does not connect, enter the Bluetooth setup menu and ensure that Auto Connect is On.

To access the phone, select Bluetooth Phone from the Main Menu.

- **Main Menu** 1
  - Press to return to the Main Menu screen.

- **Current Mode Indicator** 2
  - Displays current mode of operation.

- **Phone Keypad** 3
  - Use the phone keypad to dial the desired phone number. Alternately, numbers can be dialed directly from the phone.

- **Phone** 4
  - Press to display keypad and dial a number.

- **Music** 5
  - Press to play music using the Bluetooth connection.
Bluetooth Operation

Screen  Press to adjust screen brightness or put the monitor into standby mode.

Audio  Press to access audio setting such as EQ, Surround Sound Settings and Field Settings (Balance).

Settings  Press to access the Settings Menu.

End Call  Press to end the current call.

Make a Call  Press to connect or answer a call.

Bluetooth Music  To use your Bluetooth connection to play music from your device, press #5 or select Bluetooth Music from the Main Menu.

Previous File/Track  Press to go back to the previous file or track.

Play / Pause  Press to pause or resume playback.

Next File/Track  Press to advance to the next file or track.
Only SiriusXM® Satellite Radio brings you more of what you love to listen to, all in one place. Get over 140 channels, including commercial-free music plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio. A SiriusXM Vehicle Tuner and Subscription are required. For more information, visit www.siriusxm.com.

After installing your SiriusXM Connect Vehicle Tuner and antenna, power on your radio and select SiriusXM mode. You should be able to hear the SiriusXM preview channel on Channel 1. After you can hear the Preview channel, tune to Channel 0 to find the Radio ID of your tuner. The Radio ID is located on the bottom of the SiriusXM Connect Vehicle Tuner and its packaging.

Note: SiriusXM Radio ID does not include the letters I, O, S or F.

In the USA, activate online or by calling SiriusXM Listener care:
• Visit www.siriusxm.com/activatenow
• Call SiriusXM Listener Care at 1-866-635-2349

For Canadian Subscriptions, please contact:
• Visit www.siriusxm.ca/activatexm
• Call XM customer Care at 1-877-438-9677

Activation typically takes 10-15 minutes, but may take up to one hour. It is recommended to leave your vehicle on until the “Subscription Updated” message appears. Your radio will need to be powered on and receiving the SiriusXM signal to receive the activation message.

Once activated, you can tune to channels in your subscription plan.

From the Main Menu, touch the SiriusXM icon to access SiriusXM mode and begin operation.
**SiriusXM® Satellite Radio Operation**

1. **Main Menu**
   - Press to return to the Main Menu screen.

2. **Band**
   - Touch to select a band of preset channels. Three bands are available: SXM1, SXM2, and SXM3. Each band can store up to six preset channels. (Preset channels are accessed from the List icon.)

3. **Current Mode Indicator**
   - Displays current mode of operation.

4. **Program Information**
   - Displays program information such as channel name, artist name and song title.

5. **Search**
   - Press to enter search mode, then press Channel to choose between the following search options: Channel, Artist, Song Title or Info. Use the up/down arrows on the left side to navigate categories, and use the up/down arrows on the right side to navigate channels, artists, song titles or info.

6. **Preset Channel List**
   - Press to display a list of preset channels in the current band.
Press to display/adjust the options Mode, Tune Scan and Go to Live:

**Mode** - Press to access and adjust the following options:

- **Parental Code** - When enabled, the Parental Control feature requires you to enter a passcode to tune to the locked channels. Press "Change" to change the parental code. Follow the prompts to enter the current code, then enter and confirm the new code. The default code for the unit is "0000".

- **Parental Control** - The Parental Control feature allows you to limit access to any SiriusXM channels, including those with mature content. Select a Parental Control option: Off (turns Parental Control off) Mature (locks all mature channels) or User (allows the user to lock specific channels using the Parental Lock Channel feature). Enter the Parental Code when prompted to confirm the change.

- **Parental Lock Channel** - Press "SET" to select specific specific channels to lock. Press "All Clear" to clear all locked channels.

- **Channel Skipping** - Press "SET" to select channels to skip.

- **TuneStart™** - Press "ON" or "OFF" to enable or disable TuneStart. With the TuneStart™ feature turned ON, you will hear the beginning of the song when you tune to one of your Preset channels. It may take a minute or two for the feature to work after power up or after changing preset bands.

**TuneScan™**

Press TuneScan button to initiate the TuneScan function. The unit plays samples from the start of multiple buffered songs from each of the Preset Channels that predominantly play music selections. This gives the user easy access to a large sampling of music content, and they can enjoy hearing a full song when stopping the scan on a song of interest. Pressing TuneScan again will stop the TuneScan function and continue playing the song currently being scanned. Pressing and holding the TuneScan button cancels the TuneScan and returns the user to the original channel that was tuned when TuneScan was first initiated.

**Go to Live** - Press to resume play of live broadcast while in Replay mode. See page 22 for information on Replay mode.
 SiriusXM® Satellite Radio Operation

Preset Buttons
Press and hold any preset button (1-6) to save the current station as a preset. Press the desired preset button to begin playback of the corresponding preset channel.

Direct
Press to display screen for direct channel access. Press the desired channel number, then press Enter. Playback of desired channel will begin.

Channel Down
Press to go back to the previous channel.

Channel Up
Press to advance to the next channel.

On Screen Controls
Press to display the following controls: on the bottom of the screen.

Replay
Replay is a feature that allows the user to pause, rewind and replay content from the active channel. During Replay, the Replay bar will appear towards the top of the screen and display replay time in red and time to live in yellow. The time to live play will also be displayed as a number above the Replay bar.

Tune / Track Down
Press to enter Replay mode. Once in Replay mode, press to skip to the previous track or press and hold to fast reverse.

Play / Pause
Press to pause and replay content from the active channel.

Tune / Track Up
Press to skip to the next track. Press and hold to fast forward. Press repeatedly to "catch up" and resume live play. Selecting Go to Live under Additional Options will also resume live play.
## Front 3.5mm Aux Input & Rear RCA A/V Input

**Auxiliary Input**
- Connect an optional audio source into the 3.5mm (front panel) input.
- Select auxiliary input from the Main Menu to listen to audio.
- Adjust volume on the external audio source as needed (if connected to the headphone output of the device).

**Using AV Input**
- Connect an optional audio/video source to the rear auxiliary input (Red/White/Yellow RCA connectors). Refer to page 4 for details.
- Select AV Input from the Main Menu to listen to audio.
- Engage parking brake to watch video.

## Rear Camera Operation - (Optional)

**Using Rear Camera**
- Connect an optional rear camera to the Camera Input (Black RCA connector). Refer to the wiring diagram for details.
- Manual selection - Touch CAMERA icon from the Main Menu or from any operational mode (when enabled) to select camera mode. Touch the top left area on the screen to exit camera mode.
- **Note:** The manual mode is for dedicated cameras that are ALWAYS on while driving, it is not meant for cameras that are connected to the vehicle's reverse light.

**Auto Selection**
- The unit will automatically select camera mode when connected to the reverse lamp circuitry.
- **Note:** The external video output is not active when using the rear camera input.
## Troubleshooting

### General

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit will not turn on</strong>&lt;br&gt;(no power)</td>
<td>Yellow wire not connected or incorrect voltage</td>
<td>Check connections for proper voltage (11~16VDC)</td>
</tr>
<tr>
<td></td>
<td>Red wire not connected or incorrect voltage</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Black wire not connected</td>
<td>Check connection to ground</td>
</tr>
<tr>
<td></td>
<td>Fuse blown</td>
<td>Replace fuse(s)</td>
</tr>
<tr>
<td><strong>Unit has power</strong>&lt;br&gt;(but no sound)</td>
<td>Speaker wires not connected</td>
<td>Check connections at speakers</td>
</tr>
<tr>
<td></td>
<td>One or more speaker wires touching each other or touching chassis ground</td>
<td>Insulate all bare speaker wires from each other and chassis ground</td>
</tr>
<tr>
<td><strong>Unit blows fuse(s)</strong></td>
<td>Yellow or red wire touching chassis ground</td>
<td>Check for pinched wire</td>
</tr>
<tr>
<td></td>
<td>Speaker wires touching chassis ground</td>
<td>Check for pinched wire</td>
</tr>
<tr>
<td></td>
<td>Incorrect fuse rating</td>
<td>Use fuses with correct rating</td>
</tr>
<tr>
<td><strong>Unit has audio</strong>&lt;br&gt;(but no video)</td>
<td>Parking brake safety circuit not connected</td>
<td>Check connections at parking brake</td>
</tr>
<tr>
<td></td>
<td>Parking brake not applied</td>
<td>Apply parking brake as described on page 26</td>
</tr>
<tr>
<td><strong>No video display</strong>&lt;br&gt;(when in reverse)</td>
<td>Reverse circuit not connected</td>
<td>Check connections at reverse lamp</td>
</tr>
<tr>
<td></td>
<td>Vehicle is not in reverse</td>
<td>Select reverse gear</td>
</tr>
<tr>
<td><strong>IR remote does not work</strong></td>
<td>Dead battery</td>
<td>Replace battery</td>
</tr>
</tbody>
</table>

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### For Your Records

Please keep your original sales receipt and be prepared to provide this receipt in the event you require service, as your original receipt is considered the best proof of purchase and indicates the date you purchased your Axxera product.

- **Dealer Name**
- **Dealer Phone**
- **Purchase Date**

### Register Your Product

Register your product online at [www.dualav.com](http://www.dualav.com).
# Notes

<table>
<thead>
<tr>
<th>SiriusXM Advisory Message</th>
<th>Recommendation</th>
</tr>
</thead>
</table>
| **Check Antenna**         | 1. The radio has detected a fault with the SiriusXM antenna. The antenna cable may be either disconnected or damaged.  
2. Verify that the antenna cable is connected to the SiriusXM Connect Vehicle Tuner.  
3. Inspect the antenna cable for damage and kinks. Replace the antenna if the cable is damaged.  
4. SiriusXM products are available at your local car audio retailer or online at www.shop.siriusxm.com. |
| **Check Tuner**           | 1. The radio is having difficulty communicating with the SiriusXM Connect Vehicle Tuner. The tuner may be disconnected or damaged.  
2. Verify that the SiriusXM Connect Vehicle Tuner cable is securely connected to the radio |
| **No Signal**             | 1. The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal.  
2. Verify that your vehicle is outdoors with a clear view of the sky.  
3. Verify that the SiriusXM magnetic mount antenna is mounted on a metal surface on the outside of the vehicle.  
4. Move the SiriusXM antenna away from any obstructions.  
5. Inspect the antenna cable for damages and kinks.  
6. Consult the SiriusXM Connect Vehicle tuner installation manual for more information on antenna installation. Replace the antenna if the cable is damaged. SiriusXM products are available at your local car audio retailer or online at www.shop.siriusxm.com. |
| **Subscription Updated**  | The radio has detected a change in your SiriusXM subscription status. Press <<<<< to clear the message. In the USA, visit www.siriusxm.com or call 1-866-635-2349 if you have questions about your subscription. In Canada, visit www.siriusxm.ca or call 1-877-438-9677 if you have questions about your subscription. |
| **Channel Unavailable**   | The channel that you have requested is not a valid SiriusXM channel or the channel that you were listening to is no longer available. You may also see this message briefly when first connecting a new SiriusXM Connect Vehicle tuner. Visit www.siriusxm.com for more information about the SiriusXM channel lineup. |
| **Channel Unsubscribed**  | The channel that you have requested is not included in your SiriusXM subscription package or is no longer included in your SiriusXM subscription package. In the USA, visit www.siriusxm.com or call 1-866-635-2349 if you have questions about your subscription. In Canada, visit www.siriusxm.ca or call 1-877-438-9677 if you have questions about your subscription. |
| **Channel Locked**        | The channel that you have requested is locked by the radio's Parental Control feature. Refer to the SiriusXM Satellite Radio Operation section for more information on the Parental Control feature and how to access locked channels. |
| **No Content**            | TuneScan is not available. Please allow the tuner some time to buffer new songs to scan. |
| **Invalid Lock code**     | If "Invalid Lock code" message displayed on the screen, it will disappears automatically after three seconds. And then user can insert the password again |
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.
Specifications

FM Tuner
- Tuning range: 87.5MHz-107.9MHz
- Usable sensitivity: 10dBf
- 50dB quieting sensitivity: 20dBf
- Stereo separation @ 1kHz: 38dB
- Frequency response: 30Hz-13kHz

AM Tuner
- Tuning range: 530kHz-1710kHz
- Usable sensitivity: 24uV
- Frequency response: 30Hz-2.3kHz

Front USB
- Compatibility: High Speed USB 2.0
- USB Class: Mass storage class

Monitor
- Panel size: 6.2" diagonal measurement
- View angle [up/down/left/right]: 50/70/70/70
- Resolution: 800 (H) x 480 (V)
- Brightness (cd/m²): 250
- Contrast ratio: 500:1
- Pixels: 1,152,000

General
- Speaker output impedance: 4 ohms
- Line output voltage: 2 volt RMS
- Line output impedance: 200 ohms
- Chassis dimensions: 7” x 7” x 4” (W x D x H)

Design and specifications subject to change without notice.

Parts List

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Part Number</th>
<th>Pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trim Ring</td>
<td>40-042502-0002</td>
<td>1</td>
</tr>
<tr>
<td>Removal Key</td>
<td>44-042218-0100</td>
<td>2</td>
</tr>
<tr>
<td>Remote control</td>
<td>74-010101-1001</td>
<td>1</td>
</tr>
<tr>
<td>SWI Guide</td>
<td>60-C16169-01-01</td>
<td>1</td>
</tr>
</tbody>
</table>

CEA-2006 Power Standard Specifications
[reference: 14.4VDC +/− 0.2V, 20Hz~20kHz]

- Power Output: 16 Watts RMS x 4 channels at 4 ohms and ≤ 1%
  THD+N
- Signal to Noise Ratio: 80dBA [reference: 1 watt into 4 ohms]