

Aerpro[®]
First Choice

AERA10D

10" MULTIMEDIA RECEIVER

USER GUIDE



androidauto



HDMI[®]
HIGH-DEFINITION MULTIMEDIA INTERFACE



androidauto



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TECHNICAL ASSISTANCE:

If you need assistance setting up or using your Aerpro product now or in the future, call Aerpro Support. Australia. Mon-Fri 9am – 5pm AEST
TEL: 03 – 8587 8898
FAX: 03 – 8587 8866

Please retain this user guide for future reference. If you would like to download a digital copy of this manual, or other Aerpro manuals/software, please visit the Aerpro.com website and search for information on your model or scan the QR code below.



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THE BASICS



Internal
Microphone

Home Button
Jump to the Home Menu

Tune/Track Down Button
Media control Previous, Back, Seek
Press & hold function in select sources

Multifunction Button
Press & Hold to
Turn to adjust V
Press to Mu



Reset
Button

Voice Button

Launches voice control

Tune/Track Up Button

Media control Next, Forward, Seek
Press & hold function in select sources

Function Knob

Power On/Off
Volume Up/Down
Mute/Unmute

GETTING STARTED



POWER UP!

With vehicle ignition in the ON or ACC position, Press and Hold the knob for 2 seconds to power ON/OFF.

The source will automatically default to the last source used prior to powering down.

You can adjust the audio volume at start-up in **Sound Settings** on page 32.

The **Information Bar** is located at the top of the screen. Depending on the SOURCE, it will provide information or content sensitive controls. Also, displays time, phone info and may contain BACK ARROW and EXIT buttons.

Customizable **TABS** can be accessed by swiping the up arrow ▲ at the bottom of the screen. Tabs give direct access to sources/settings and can be customized in **Settings > Tabs** on page 26.



The active Tab will be highlighted and sources that are not available will be dimmed out. Once the Tabs are opened, they will auto-close after 5 seconds or press the down arrow ▼ to close the tabs.

SELECTING A SOURCE

To select a source, press the **HOME** button.

The HOME MENU displays all Sources, along with Settings, Audio, Display and Camera options.

SOURCES that are not currently available are grayed out.



QUICK TIP

There are multiple ways to scroll...
Swiping Up/Down, Up/Down Arrows

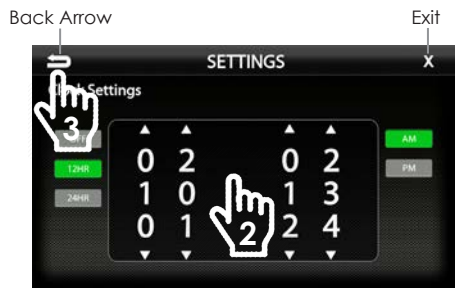
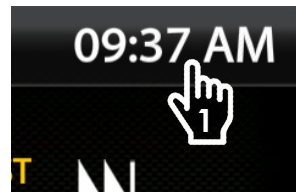


SETTING THE TIME

1) Touch and Hold the Time Display on the Information Bar for 2 seconds to access the clock settings.

2) Swipe or click arrows to set time and format.

3) Touch the **BACK ARROW** or **EXIT** to save and exit.



AM/FM RADIO



Press the **HOME BUTTON > Radio** to select the Radio

- 1** **Station Presets** - To assign a preset, go to desired station, press and hold a preset location until preset button highlights and station frequency appears. A total of 18 FM and 12 AM stations can be stored in memory.
- 2** **AM/FM** - Press to cycle through AM/FM presets (FM1-FM2-FM3-AM1-AM2)
- 3** **PTY Program Type** - Indicates radio station type.
- 4** **Tune/Seek Down** - Press and release to Tune Down. Press and hold to Seek the next available radio station.
- 5** **Station Display** - Displays current frequency.
- 6** **ST Indicator** - Indicates when current radio station is in Stereo.
- 7** **Tune/Seek Up** - Press and release to Tune Up. Press and hold to Seek the next available radio station.
- 8** **Preset Bank** - Indicates current preset bank.
- 9** **RT Info**- station/title/artist information
- 10** **DX/LOC** - changes the radio tuner sensitivity. Touch to toggle between Distant (DX) and Local (LOC).
- 11** **Auto Preset** - Touch to automatically set the 6 presets with current location radio stations.

Bluetooth PHONE



Press the **HOME BUTTON > Phone** to select the Phone

- 1** **Number Pad** - Touch to launch the number pad for dialing phone numbers.
- 2** **Speaker/Phone** - Switches phone calls between the car speakers and the phone handset.
- 3** **Clear** - Clear/delete last number entered.
- 4** **Call/Answer** - Dials the number entered on the phone or on the number pad. Answers incoming call.
- 5** **End/Decline** - Press to end active call or decline incoming call.
- 6** **Device Info** - Displays the name of the currently paired device, signal strength and battery status.
- 7** **Favorites** - Customizable list of favorite contacts.
- 8** **Contacts** - List of contacts from paired phone. Not supported by all phones.
- 9** **Settings** - List of devices and settings. Add or Delete devices.
- 10** **Call Log** - Recent Dialed, Received and Missed calls.

Bluetooth PHONE

Pairing a Device

- 1 Select **Settings** from the Phone main menu to go to BT Device Settings.
- 2 Select **Devices** ► on the BT Device Settings page.

Place your device in Discoverable Mode.

- 3 Select **ADD** on the Devices page
- 4 Select your device from the list.

NOTE!

If your device does not appear in the device list, confirm it is discoverable and select Retry

- 5 Select **Connect** to initiate pairing



Bluetooth PHONE

- 6 Select **Pair** when prompted.

Confirm Key Code on device and select Pair on device.

If prompted, select Allow to share contacts



NOTE!

Once a device is paired, it will automatically connect whenever the system is turned on and the device is within range. To manually connect or connect to a different device go to Phone > Settings > Devices

BT Device Settings

Once a device is paired and connected, settings can be set on the BT Device Settings page.

Devices ▶

Access list of all devices in memory.
Connect/Add/Delete devices.

Auto Connect [ON/OFF]

Set to ON if you want the device to automatically connect when the system is turned on.

Pin Code [CHANGE]

Change the pin code for Bluetooth connection. The default pin code is "1234"

Microphone [Internal/External]

Set to External if external microphone is installed. Set to Internal to use the microphone located on the front of the display.

Microphone Gain [0-6]

Adjusts the volume (sensitivity) of the microphone when using hands free phone.



Bluetooth PHONE

Contacts

While a device is paired, Contacts can be accessed by selecting Contacts from the Phone main menu. It may take several minutes to load all contacts. When a contact is selected from the list, all associated numbers (Home/Work/Mobile) will be displayed on the left side of the screen. Touch the number you want to dial.

To add a contact number to the Favorites list, touch **FAVORITES** next to the contact phone number and it will be added to your Favorites list.

The Favorites list can be accessed from the Phone main menu.

To **Search** your contact list, select the keyboard icon on the Information Bar.

Call Log

The Call Log lists recently Dialed, Received and Missed calls. Touch the contact or phone number to dial a number.



Bluetooth **MUSIC**



Press the **HOME BUTTON > BT Music** to select the BT Music source

- 1 Next Track/Program** - Touch to advance to the Next track/Program.
- 2 Play/Pause** - Touch to play or pause the audio.
- 3 Previous Track/Program** - Touch once to restart current track, touch again for Previous track.
- 4 Song/Program Information** - Displays information for the current track.

DAB+ Digital Radio

DAB (which stands for Digital Audio Broadcasting) is a radio industry standard with broadcast channels across Europe using a digital signal. DAB is generally more efficient in its use of the spectrum than conventional analogue radio signals, thus providing a high quality audio experience and minimising dropouts. With the additional use of service following, you're able to listen to the radio stations you love over multiple service areas, ideal for long journeys.

DAB radio gives you access to a range of popular stations not available on FM frequencies including Talksport, Absolute Radio, Virgin Radio and Radio X.

For more information about DAB radio, visit www.worlddab.org/dab.

DAB+ Digital Radio



Press the **HOME BUTTON > DAB+** to select the DAB+ radio source.

- 1 Channel Presets** - To assign a preset, go to desired channel, press and hold a preset location until preset button highlights and channel name appears. A total of 18 channels can be stored in memory.
- 2 Channel Down/Up** - Touch to go to previous channel / advance to next channel. Touching and holding either button will rapidly browse through the channels.
- 3 DAB Radio Info** - Displays current channel category, channel number and preset bank number.
- 4 Channel Info** - Displays channel name, song/content info.
- 5 Settings** - Select to edit features and functions of the DAB operation.
- 6 Menu Quick Select** - Allows for quick navigation to other app's (i.e. reverse camera)
- 7 Search** - Touch to display search of DAB channels/program type or ensembles.

DAB+ Digital Radio

Ensembles

Entering the search function will display a list of available local and national DAB ensembles within range of the Heigh10 unit. Use the arrows to navigate the list, and touch the screen to select the desired ensemble.



Channels

When entering a DAB ensemble, you will view a range of DAB channels. Use the arrows to navigate the list, and touch the screen to select the desired channel.



Settings

Entering the settings tab enables you to switch options involving FM to DAB and DAB to DAB Linking to ensure a seamless DAB connection whilst travelling. It also provides an option for 'Antenna Power' if the vehicle features a powered DAB antenna.



USB Media



With a USB drive plugged in - press the **HOME BUTTON** > **USB** to select USB.

From the USB Root Menu you can browse Audio, Video and Image files. See page 37 for a list of supported file types.

Touch to select a file to view/play.

- 1 Previous Track** - Touch once to restart current track, touch again for Previous track.
- 2 Play/Pause** - Touch to play or pause the audio.
- 3 Next Track** - Touch to advance to the Next track.
- 4 Browse** - browse artist, album or songs.
- 5 Keyboard** - direct input song search
- 6 Repeat** - Press once to repeat the current track (1), press again to repeat album/folder (F).
- 7 Shuffle** - Plays tracks in random order.



Video / Image Files



Apple CarPlay®

Set up Apple CarPlay

You can use Apple CarPlay to get directions, make calls, send and receive messages, and more.

You need an iPhone 5 or later to use Apple CarPlay. Also, make sure that you're in an area that supports Apple CarPlay and that Siri is on. To turn on Siri on your phone, go to Settings > Siri & Search.

With your vehicle running, plug your iPhone into the Apple CarPlay USB port. Apple CarPlay will launch automatically.

If your iPhone is already plugged into the USB, press the **HOME BUTTON > Apple CarPlay** to launch Apple CarPlay.

NOTE: If Apple CarPlay will not launch, see Troubleshooting.

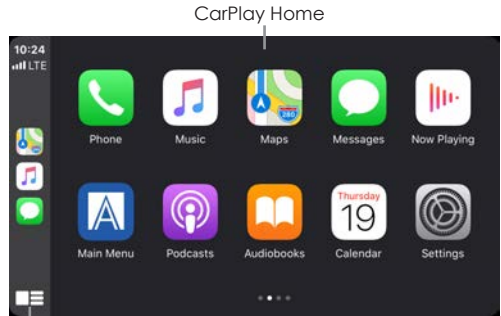
The display will show available apps. Only apps that are supported by Apple CarPlay will appear.

To add, remove, or customize the order that the apps are in on your iOS device:

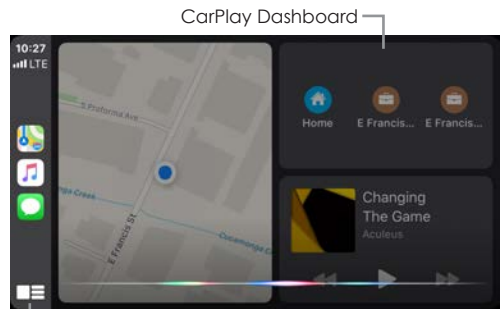
1. Go to Settings > General, and tap CarPlay.
2. Select UN1880EU
3. Select Customize
4. Use the add or delete icons to add or remove apps. Tap and drag an app to change the icon order.

To exit Apple CarPlay, press the Aerpro Main Menu icon.

For details about Apple CarPlay, visit <https://support.apple.com/en-us/HT205634>



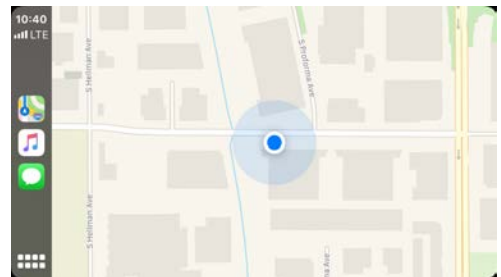
Toggle CarPlay Home / Dashboard



Press & Hold for Siri



Ask Siri for what you need. Press the Voice Control button or the Home/Dashboard button in Apple CarPlay until Siri appears on the display, then say what you need.



Set up Android Auto

Make sure your phone is running Android 5.0 (Lollipop) or later. Download the Android Auto app from Google Play on your device. Once the app is installed, open the app and follow the setup steps.

Connect your phone

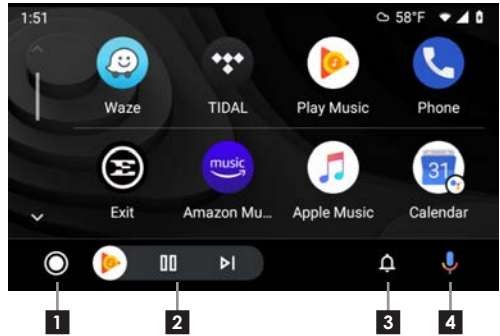
Before you connect your phone for the first time, turn on your car. Make sure it's in park (P) and that you have time to set up Android Auto.

1. Unlock your phone's screen.
2. Connect your phone using a USB cable.
3. Your phone might ask you to download or update certain apps, like Google Maps.
4. Review the Safety Information and Android Auto permissions to access your apps.
5. Turn on notifications for Android Auto. For the best experience, we recommend accepting all requests.

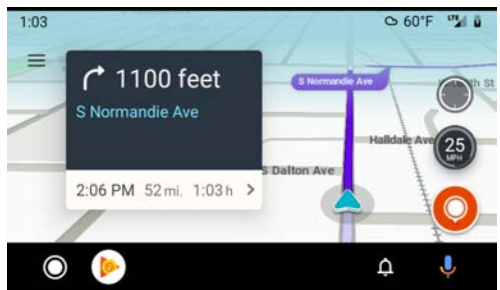
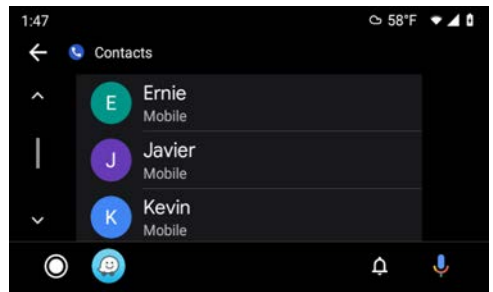
Your phone's Bluetooth will be turned on automatically when Android Auto is connected to the car via USB.

To exit Android Auto, touch the Exit icon.

For details about Android Auto, visit <https://www.android.com/auto/>



- 1 Home Button
- 2 Audio Controls
- 3 Notifications
- 4 Voice Command



iPod®



Press **MENU > iPod** to select iPod as the source.

- 1** **Previous Track** - Touch once to restart current track, touch again for Previous track.
- 2** **Play/Pause** - Touch to play or pause the audio.
- 3** **Next Track** - Touch to advance to the Next track.
- 4** **Browse** - browse artist, album or songs.
- 5** **Keyboard** - direct input song search
- 6** **Repeat** - Press once to repeat the current track (1), press again to repeat album/folder (F).
- 7** **Shuffle** - Plays tracks in random order.



Browse and Select by Artists, Albums, Playlists, Songs...

HDMI INPUT

Press the **HOME BUTTON > HDMI** to switch to the HDMI input.

The HDMI input can be used for an external DVD player, streaming sticks, media players, smartphone mirroring.

You can only view HDMI content with the vehicle in Park and the parking brake ON.

When viewing HDMI content, the Information Bar will auto-hide. To access the Information Bar, touch anywhere on the screen.



AV IN

Press the **HOME BUTTON > AV IN** to switch to the AV input.

You can only view the AV input with the vehicle in Park and the parking brake ON.

When viewing the AV IN, the Information Bar will auto-hide. To access the Information Bar, touch anywhere on the screen.



WARNING!

Driver is prohibited by law from viewing a video signal on any in-dash monitor while the vehicle is in motion.

CAMERAS

Press the **HOME BUTTON > Cameras** to access Cameras

If there are optional cameras installed, you may view them at anytime using the camera selection bar at the bottom of the screen.

To Exit camera view, touch the Back Arrow.

Note: For triggered side cameras that turn on automatically with the turn signals, you can override and close the camera view by touching the screen.



Mute On Reverse

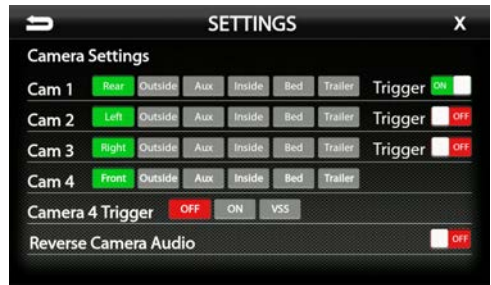
The Mute on Reverse feature will mute all audio while in Reverse, touch the speaker icon to toggle between mute ON/OFF.



Settings > Camera Settings

- Cam1-4 Label
[REAR-OUTSIDE-AUX-INSIDE-BED-TRAILER]
Allows custom labeling for multiple cameras
- Cam 1-3 Trigger [ON-OFF]
Set individual camera triggers ON/OFF
- Cam 4 Trigger [ON-OFF-VSS]
Set Camera 4 trigger ON, OFF or Vehicle Speed Sense. Use VSS Mode when parallel parking aid is desired (front camera and VSS wire need to be connected). On VSS Mode, the front camera will turn on after shifting from Reverse gear and remain On until the speed reaches above 5MPH or the display is touched.

Reverse Camera Audio [ON-OFF]
When set to ON and a microphone is connected, back up camera audio will be heard through the vehicle's speakers.

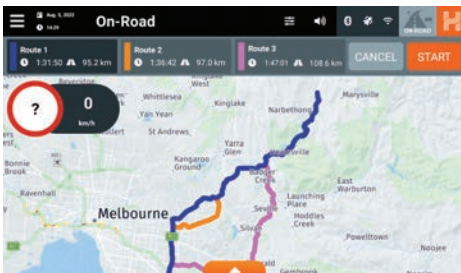
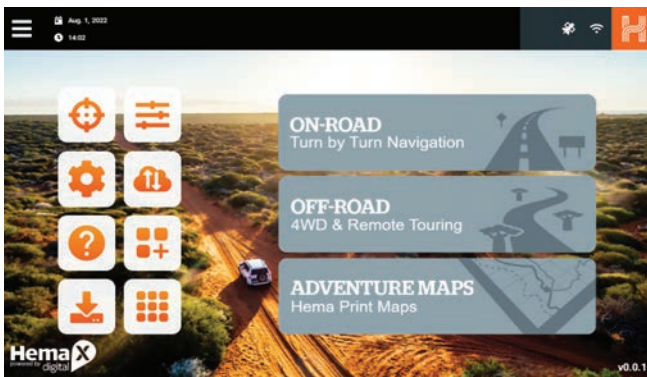


HEMA MAPS NAVIGATION (Aerpro AMHXD3 Sold separately)

Press the **HEMA MAPS BUTTON** >
to access Hema Maps

The Aerpro AMHXD3 Hema Maps Navigation Module seamlessly integrates On-Road and Off-Road Navigation onto the head unit display in your vehicle. Optimised for Aerpro Multimedia Receivers and compatible with various aftermarket head units*, the AMHXD3 simply connects via the Apple CarPlay USB port. Experience turn by turn street navigation provided by HERE Technologies and Hema Maps' award winning off road navigation and track information. Hema Maps provides the most comprehensive on and off-road content including over 100,000 Hema-X moderated listings with over 40,000 Hema Maps verified points of interests (POI's) including campsites, caravan parks and other touring points of interest.

For more information go to the website: aerpro.com/AMHXD3

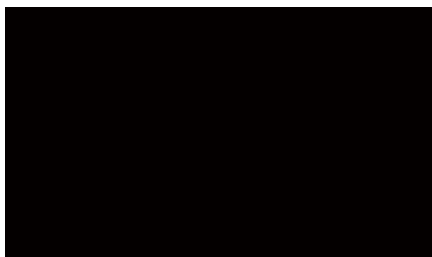


DISPLAY OFF

Press the **HOME BUTTON > Display Off** to turn off LCD.

This is useful at night to prevent eye fatigue.

Tap the screen anywhere to return to regular display.



SETTINGS

Press the **HOME BUTTON > Settings** to access the Settings main menu.

- Clock
- System Settings
- Illumination
- Background
- Display Settings
- Sound Settings
- Tabs
- Camera Settings

Settings > Clock

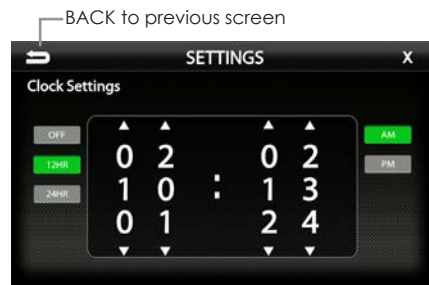
Clock Settings [OFF-12HR-24HR]
 Select time format. Swipe or click arrows to set time.



Settings > System Settings

Beep [OFF-LOW-MED-HIGH]
 Sets volume of confirmation beeps.

Language [ENGLISH-FRENCH-SPANISH]
 Set display language



Apple CarPlay [See Page 25]

Android Auto [See Page 25]

Load Defaults [RESET]
 Selecting Reset will reset all settings to factory defaults. This process takes 5-7 minutes and system must NOT be shut down during the reset.

Installer Settings [ENTER]
 See Installation Guide or Firmware Update Instructions for more information.



SETTINGS

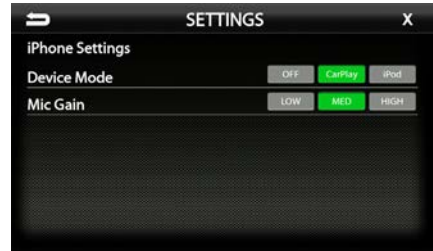
Settings > System Settings > Apple CarPlay

Device Mode [OFF-CarPlay-iPod]

Determines how iPhone will be used when plugged into USB port. OFF is charging only.

Mic Gain [LOW-MED-HIGH]

Sets microphone gain (sensitivity) when using Apple CarPlay.



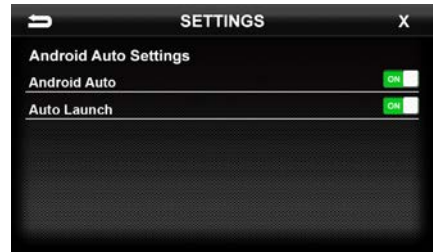
Settings > System Settings > Android Auto

Android Auto [ON-OFF]

Set to OFF for charging only with Android devices.

Auto Launch [ON-OFF]

When set to ON, Android Auto will automatically launch when compatible Android device is plugged into USB port.



Settings > Illumination

Illumination [OFF-ON-AUTO]

Turn button illumination ON/OFF. Set to AUTO for buttons to illuminate only when vehicle lights are on.

Illumination Brightness [0-20]

Set brightness of button illumination

Highlight Colors

[AMBER-RED-AQUA-GREEN-BLUE-WHITE]

Set on-screen highlight color.

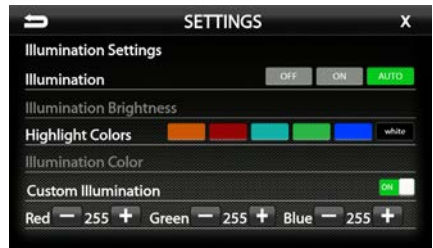
Illumination Color

[AMBER-RED-AQUA-GREEN-BLUE-WHITE]

Set button illumination color.

Custom Illumination [OFF-ON]

When Custom Illumination is set to ON, allows custom illumination color based on RGB values.



SETTINGS

Settings > Background

Allows you to change the background image. Touch image thumbnail to select. You can upload up to 3 of your own images. To upload an image(s), copy images onto a USB thumb drive and connect drive to one of the USB ports. Touch the ⊕ symbol and select file. Images should be JPG or PNG file format and 1024*600 resolution

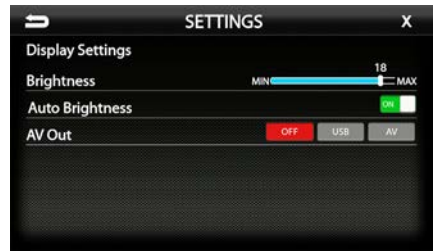


Settings > Display Settings

Brightness [0-20]
Adjust Day and Night brightness of LCD display.
To adjust Night brightness level, turn on vehicles lights and then adjust brightness.

Auto Brightness [ON-OFF]
When set to ON, display screen will automatically dim when vehicle lights are turned on.

AV [OFF-USB-AV]
Determines which source is routed to the AV outputs.



Settings > Tabs

The Tabs are customizable and can be configured to include favorite sources or settings.

To Program a Tab:

- 1) Select a Tab position (1-7) on the bottom row
- 2) Select the desired source or setting from the options on the top rows.



SETTINGS

Settings > Camera Settings

Cam 1-4 Label

[REAR-OUTSIDE-AUX-INSIDE-BED-TRAILER]

Allows custom labeling for multiple cameras

Cam 1-3 Trigger [ON-OFF]

Set individual camera triggers ON/OFF

Cam 4 Trigger [ON-OFF-VSS]

Set Camera 4 trigger ON, OFF or Vehicle Speed Sense.

Use VSS Mode when parallel parking aid is desired (front camera and VSS wire need to be connected).

On VSS Mode, the front camera will turn on after shifting from Reverse gear and remain On until the speed reaches above 5MPH or the display is touched.

Reverse Camera Audio [ON-OFF]

When set to ON and a microphone is connected, back up camera audio will be heard through the vehicle's speakers.



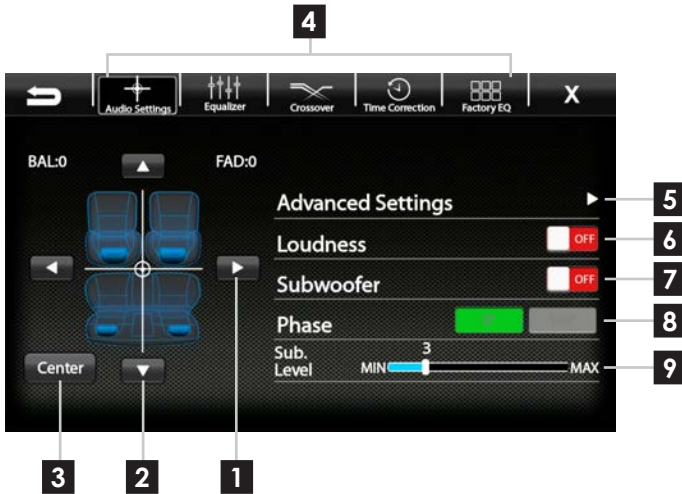
Reset Button

The Reset Button is located on the lower right hand corner of the display. To reset the unit the power must be on, use a paper clip or similar to push the reset button for 2 seconds and release. The reset will take a few minutes, do not turn of power during this time.



Reset Button

SOUND SETTINGS



Settings > Sound Settings

- 1** Balance [-9 - 0 - 9]
Using the Left and Right arrows, adjusts the speaker balance Left/Right.
- 2** Fader [-9 - 0 - 9]
Using the Up and Down arrows fades the speakers Front/Rear.
- 3** Center
Press to set balance and fade to zero (0)
- 4** Audio Menu Bar
Access to Equalizers, Crossovers and Time Correction
- 5** Advanced Settings
Access to gain/volume settings, Toslink, microphone settings. (See page 32)
- 6** Loudness [ON-OFF]
When ON, boosts low and high frequencies when listening at lower volume
- 7** Subwoofer [ON-OFF]
Turns subwoofer output ON/OFF
- 8** Phase [0°-180°]
Changes phase of subwoofer signal.
- 9** Sub Level [0-15]
Adjusts volume level of subwoofer output.

SOUND SETTINGS

Sound Settings > Equalizer

Selecting Equalizer from the Audio Menu Bar will bring up the 15 band graphic equalizer and presets. Frequency adjustments can be made by touching and sliding the frequency sliders up/down. Once the desired sound is achieved, it can be saved as a Preset.



Saving EQ Settings

There are 6 user Presets that can be used to save EQ settings. This is useful for having EQ settings for different types of music, volume levels or for different sources.

When you are done adjusting the EQ, touch and hold a Preset location to save the settings. The Preset will highlight.



Sound Settings > Factory EQ

Selecting Factory EQ from the Audio Menu Bar will access factory equalizer presets for different music types.

Rock - Hip-Hop - Electronic - Jazz - Pop

When a Factory EQ preset is selected, it can be fine-tuned using the Equalizer and then re-saved as a User Preset.



SOUND SETTINGS

Sound Settings > Crossover

Selecting Crossover from the Audio Menu Bar will access the internal electronic variable crossover. Crossover settings can be saved and recalled via Presets.

Front / Rear / Subwoofer Channels
Select Front, Rear or Subwoofer to set crossover.

Slope [6dB-12dB-18dB]
Adjusts the slope of the crossover.

Frequency
[BYPASS-25-40-63-80-100-160-250Hz]
Adjusts crossover frequency. Front and Rear channels are High Pass and Subwoofer is Low Pass.

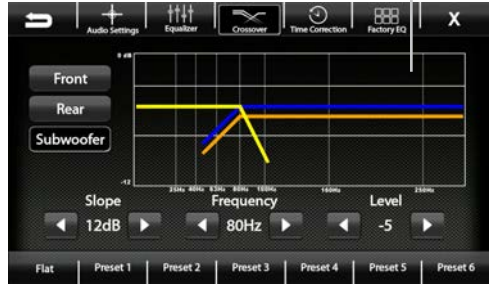
Level [-12 - 0]
Adjusts signal level. Channel levels can be adjusted regardless of crossover settings.

Saving Crossover Settings

There are 6 user Presets that can be used to save Crossover settings.

When you are done adjusting the Crossover, touch and hold a Preset location to save the settings. The Preset will highlight.

Graphical representation of crossover
Slope, Frequency and Level.



Front Channel = Blue
Rear Channel = Orange
Subwoofer = Green
Active(Selected) = Yellow

SOUND SETTINGS

Sound Settings > Time Correction

Selecting Time Correction from the Audio Menu Bar will access the Time Correction settings. Time Correction settings can be saved and recalled via Presets.

Time Correction compensates for the uneven distances between the speakers and a listener's ears. Time Correction delays signals from the closest speaker(s), so that all the sound arrives at the listening position at the same time, giving the listener a more accurate, life-like stereo image.

To set Time Correction, select a listening position, for example the driver's seat headrest. Then measure from each speaker to the listening position. Set Units to Inch and input speaker distance values into the appropriate positions using the +/- buttons.

Saving Time Correction Settings

There are 6 user Presets that can be used to save settings. When you are done adjusting the Time Correction, touch and hold a Preset location to save the settings. The Preset will highlight.

Select milliseconds or inches



SOUND SETTINGS

Settings > Sound Settings > Advanced Settings

Selecting Advanced Settings ► from the Audio Settings screen will access the following settings:

Defeat [ON-OFF]

When set to ON, this will defeat/bypass all equalizer, crossover, speakers settings. This is useful when connecting to a DSP.

Default Audio Settings [Reset]

Press to Reset all audio settings to default.

Toslink(Optical Out) [ON-OFF]

Turns variable digital output ON/OFF

Microphone Selection [INTERNAL-EXTERNAL]

Select External if external microphone is installed. Select Internal to use built-in microphone.



Source Gain Settings ►

Selecting Source Gain from the Advanced Audio Settings will allow gain/volume adjustments for individual sources. For example, if AM/FM is much louder than BT Music, lower AM/FM and/or raise BT Music to even out volume levels.



Arrow down for additional sources

Volume Settings ►

Selecting Volume Settings from the Advanced Audio Settings will access the following Volume settings:

Start Volume [LAST-CUSTOM]

LAST will be same level as when unit was shut off. CUSTOM will be a preset level adjusted below.

Volume Slider [0-40]

Adjusts CUSTOM volume level to specific level.

The Volume Mode is adjustable for Bluetooth(BT), Navigation(NAV) and Voice using the same procedure.



TROUBLE SHOOTING

General

Black Screen with Audio

Touch the screen anywhere as it may have been turned off, see page 24. Ensure the cables on the back of the screen are fully locked into place and also properly connected at the back of the radio module. Check for damaged/kinked cables.

Display Image is Inverted

Press and Hold the HOME BUTTON for 5 seconds. The Display Orientation page will appear, select desired orientation.

Bluetooth

Device will not Pair

Ensure Bluetooth is turned ON in your device settings. Delete all unused devices. Restart/Reboot device and try pairing again. (Page: 10)

Music Volume is low

- Turn up volume on device
- Turn up volume on head unit.
- Turn up BT Volume Gain (Page: 32)

Phone Volume is low

- Turn up volume on device
- Turn up volume on head unit.
- Turn up BT Volume Gain (Page: 32)
- Turn up Mic Gain (Page: 11)

Video/Cameras

Rear Camera not displaying in reverse

- Make sure rear camera trigger is ON (Page: 27)
- If display is showing NO SIGNAL in reverse, ensure camera RCA is plugged into correct RCA input (CAMERA IN).
- Confirm camera has power and ground.
- Confirm camera trigger is receiving positive 12V.

Note: NTSC and PAL video formats only.

Apple CarPlay

Apple CarPlay will not start/launch

- Ensure you are using a Apple certified cable
- Make sure you are plugged into USB #1 (top)
- Make sure Apple CarPlay is turned ON (Page 18)

Android Auto

Android Auto

- Ensure you are using a USB certified cable
- Make sure Android Auto app is downloaded and installed on your device.
- Make sure you are plugged into USB #1 (top)
- Make sure Android Auto is turned ON (Page 19)

SPECIFICATIONS

GENERAL

Operating Voltage: 9.0VDC to 18VDC
Grounding system: Negative Ground
Max current consumption: 10A fused

DIMENSIONS

Radio Module:
178 mm x 100 mm x 116 mm (W x H x D)
Display:
247.2 mm x 180.6 mm x 48.5 mm (W x H x D)

DISPLAY

10-inch Diagonal
16:9 aspect ratio
1024 x 600
Pixels: 1,843,200
Active area 222.72 (W) x 125.28 (H) mm
Operating Temperature (C) -20° to 70°

AUDIO

Peak power output: 50W x 4ch/4 Ω
Load impedance: 4 Ω nominal / 2 Ω allowable
Continuous power output:
25W x 4ch/4 Ω 20Hz to 20KHz,
1%THD at 14.4V
Audio output level (max): 4.0V preout
EQ: (15-band)
25Hz/40Hz/63Hz/100Hz/160Hz/250Hz/400Hz/
630Hz/1KHz/1.6KHz/2.5KHz/4KHz/6.3KHz/
10KHz/16KHz
Gain: \pm 12dB (2dB/step)
HPF: 25Hz/40Hz/63Hz/80Hz/100Hz/160Hz/250Hz
Slope: 6dB, 12dB, 18dB

AUDIO (CONT.)

Subwoofer Preout
LPF: 25Hz/40Hz/63Hz/80Hz/100Hz/160Hz/250Hz
Slope: 6dB, 12dB, 18dB
Gain: -14dB to 7dB (1dB/step)
Phase: 0 or 180
Speaker level: \pm 9dB (1dB/step)
Time Alignment: 0 to 133 step (inch/ms)

USB

USB 2.0
Max current supply 1.5A
USB Class:
MSC (Mass Storage Class),
MTP (Media Transfer Protocol)
File system: FAT32, NTFS

BLUETOOTH

V4.2 dual
4dBm Class2
2.4GHz to 2.48GHz

FM TUNER

87.9MHz to 107.9MHz
Usable sensitive 0dB (mono S/N: 30dB)
SNR: 65dB

AM TUNER

530KHz to 1710KHz
Usable sensitive 0dB (mono S/N:20dB)
SNR 58dB

CAMERA(S) VIDEO INPUTS

NTSC OR PAL video formats

SPECIFICATIONS

HDMI INPUT

Supported HDMI Resolutions:
640*480p, 720*480p, 1280*720p,
1920*1080i, 1920*1080p

TOSLINK (OPTICAL)

Output: 48khz Variable

BACKGROUND IMAGE (USER)

File Format: JPG / PNG
Resolution: 1024 x 600
File size is not limited

AUDIO/VIDEO FORMATS

AUDIO

MPEG-1 Audio Layer-3 (.mp3)
FLAC (.flac)
MPEG-2 Advanced Audio (.aac)
MPEG-4 Audio (.m4a)
Windows Audio (.wav)
OGG Audio (.ogg)

VIDEO

QuickTime (.mov)
MPEG-4 Video (.mp4)
Microsoft AVI (.avi)
MPG Video (.mpg)
MPEG Video 1/2 (.mpeg)
VOB DVD (.vob)
Flash Video (.flv)

IMAGE

JPEG (.jpg)
CompuServe GIF (.gif)
PNG (.png)
JPEG (.jpeg)
Bitmap (.bmp)

Introduction and Features

The AMHJP1K is a complete radio replacement kit for Jeep Wrangler JK. All modules and cables are included to retain important features of the factory system, including: steering wheel-mounted radio controls, factory amplifier (if equipped) and AM/FM reception. Plug & Play wiring harnesses allow for quick and easy installation without the need to cut or splice any wiring.

Important Notes

We recommend reading this manual thoroughly to familiarize yourself with the entire process prior to beginning the installation.

1. Does not retain the following factory features:

- uConnect
- In Premium Amplified Systems, only two input channels can be used from the aftermarket radio, therefore there will be no fading capability of the aftermarket stereo.

2. Directions for removing the display panel are on page 13.

Recommended Tools

<i>Plastic Panel Tool</i>	<i>Phillips Screwdriver</i>
<i>7mm Socket</i>	<i>Pick Tool</i>
<i>Ratchet</i>	<i>Flush Cutters</i>
<i>Ratchet Extension</i>	<i>Wire Feeder</i>

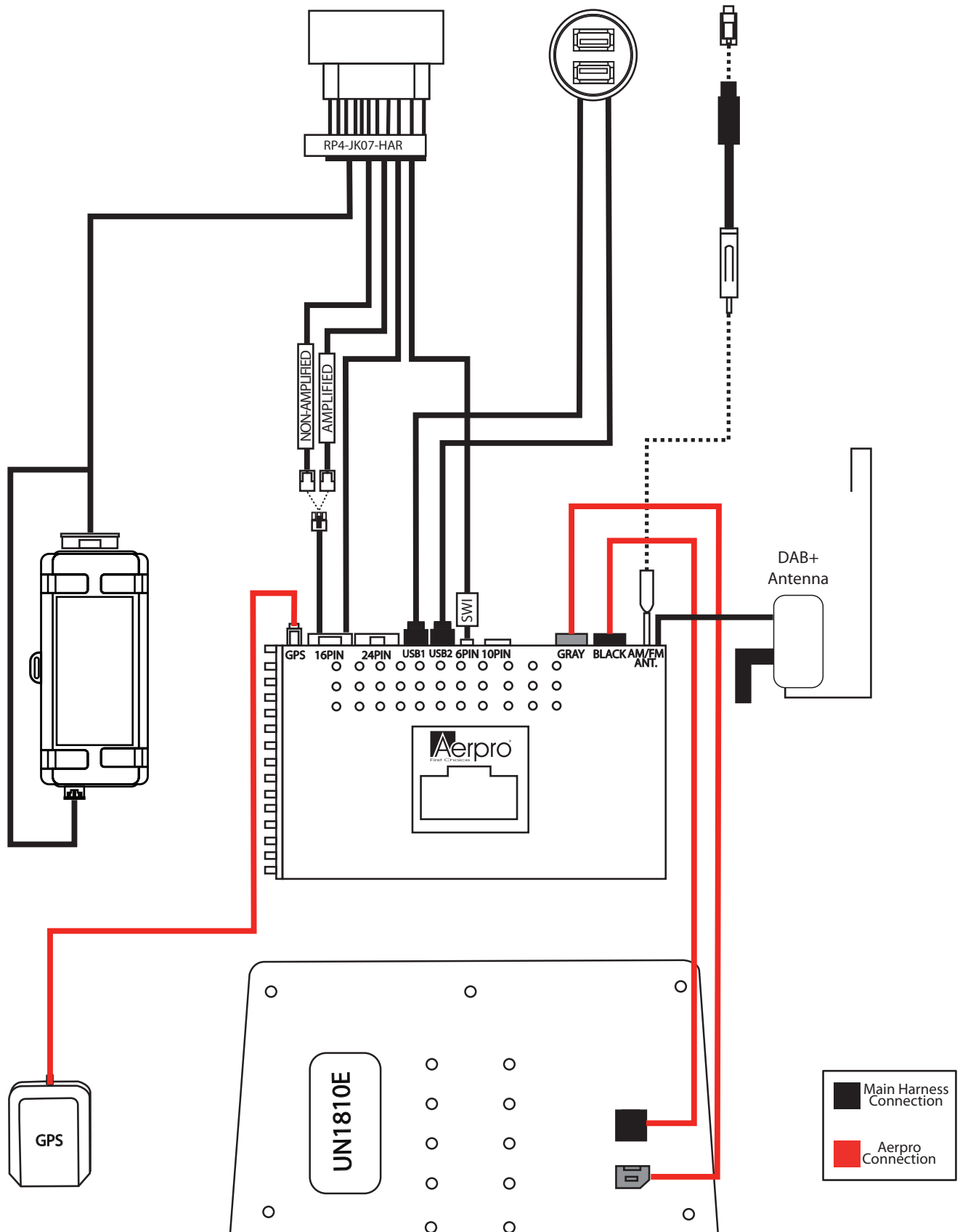
Included Components

1. **Mounting Panel Front Frame**
2. **AERA10D Display Mounting Panel**
3. **Side Mounting Brackets**
4. **Top Support Bracket**
5. **Main Wiring Harness (RP4-JK07-HAR)**
6. **Radio Replacement Interface Module (RP4-CH11)**
7. **AM / FM Antenna Adapter (BAA22)**
8. **Dual USB Extension (SSUSB2)**

NOTE: Along with the AMHJP1K components, additional hardware and wire harnesses from the AERA10D (UN1810E) kit will also be used in the installation. There is a component list, hardware guide, wire harness descriptions and illustrations in the UN1810E Installation Guide for reference.



Wiring Diagram Overview

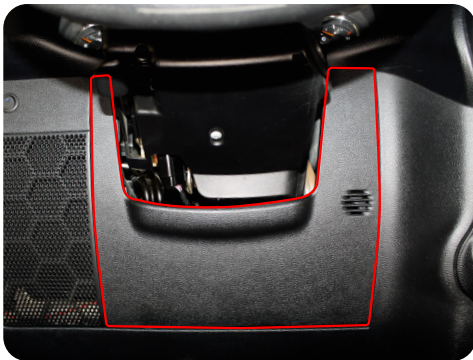


This installation manual will cover the necessary order of procedures to complete the installation efficiently and to avoid redoing any steps along the way. The order will be as follows; Disassembly, In-Vehicle Harness Connections and Preparation, Display, Radio Module and Harness Preparation, and Radio Unit Installation.
(Directions for removing the display panel are on Page 13)

NOTE: LEFT HAND DRIVE VEHICLE PICTURES FOR ILLUSTRATION PURPOSES ONLY

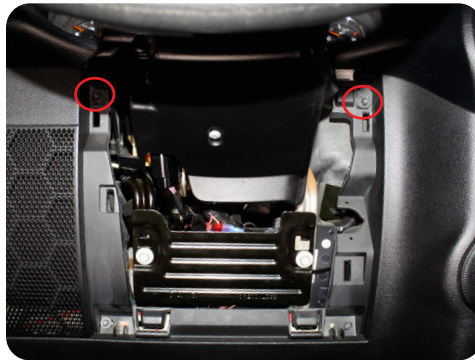
Section 1: Disassembly

Part One: Radio Removal



Step 1

Remove the knee bolster panel below the steering column using a plastic trim tool to release the upper left and right clips and swing panel downward to disengage lower tabs.



Step 2

Remove the two 7mm screws from the bottom edge of the radio/instrument cluster trim panel on both sides of the steering column.



Step 3

Using a plastic trim tool, gently pry to release and remove the power window switches or storage pocket below the radio. Disconnect the connector on the back of the switch assembly.



Step 4

Remove the 7mm screw inside the switch opening.



Step 5

Remove the rubber mat from the storage tray above the radio and remove the 7mm screw underneath.



Step 6

Starting below the radio, reach into the window switch opening and firmly grasp the lower bezel and pull the bezel to release the lower retaining clips.

Section 1: Disassembly (cont.)



Step 7

Using the storage tray and area over the gauges, pull the top edge of the panel to release the upper retaining clips. Lower the steering wheel and remove the panel.



Step 8

Remove the four 7mm screws securing the radio and pull the radio from the sub-dash.



Step 9

Disconnect all wire harnesses and antenna cables from the back of the factory radio.

Section 2: In-Vehicle Harness Connections and Preparation

Part One: Dual USB Extension (SSUSB2)

Apple CarPlay and Android Auto require access to a USB port. The SSUSB2 is designed to extend the USB ports on the back of the AERA10D to where they are accessible once the radio is installed.

For this installation, the factory 12V power outlet will be replaced with the SSUSB2. You may choose to follow these steps, or mount the USB ports somewhere else in the vehicle.



Step 1

Remove the climate control / switch panel by pulling outward and releasing the retaining clips. Unplug all connectors from the backside of the panel.



Step 2

Remove the metal insert from the power outlet by releasing the two retaining clips with a small pick tool and pushing out the front side.



Step 3

Remove the plastic sleeve by depressing the two tabs and pushing out the front.

Section 2: In-Vehicle Harness Connections and Preparation (cont.)

Part One: Dual USB Extension (SSUSB2) (cont.)



Step 4

Install the optional USB cover and feed the USB cables through the front of the panel. Secure with the flanged nut and then lock with the lock nut.



Step 5

Reconnect and reinstall the climate control panel. Route the two USB cables up to the radio opening, making sure to route them behind the metal bracket.

Part Two: GPS & DAB+ Antenna

The GPS antenna is required for proper operation of Apple CarPlay and Android Auto. The GPS antenna and mounting plate are included in the AERA10D hardware.



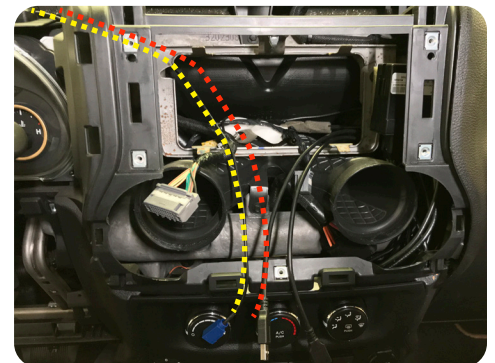
Step 1

Clean the indicated area above the right side of the instrument cluster.



Step 2

From the AERA10D box, position the DAB+ antenna on the windscreen and the magnetic GPS antenna on the metal bar running across the back of the sub-dash at the rear of the radio opening.

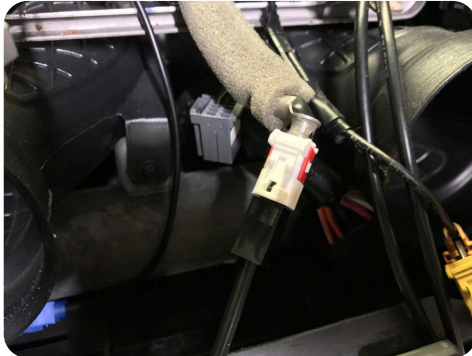


Step 3

Route the blue GPS & DAB+ antenna connectors behind the metal bracket and into the radio opening. Bundle and secure the excess antenna cable behind the instrument cluster.

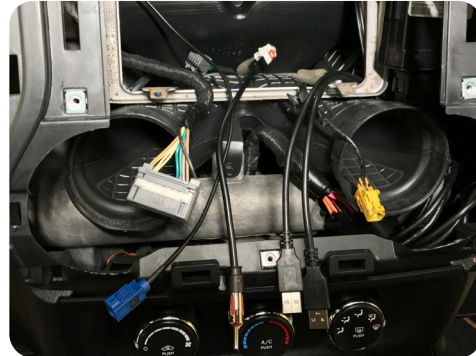
Section 2: In-Vehicle Harness Connections and Preparation (cont.)

Part Three: AM / FM Antenna Adapter



Step 1

Connect the BAA22 Antenna Adapter to the factory antenna cable (white connector).



Step 2

These are the connections for the basic installation. If adding cameras, amplifiers or external microphone, those connections should be made at this point, before mounting the radio module.

Section 3: Display, Radio Module and Harness Preparation

Part One: Display Mounting Panel Preparation



Step 1

Place the AERA10D display into the front of the mounting panel and carefully turn the panel over onto a soft surface while holding the display in place.



Step 2

Use four M4x12 from the AERA10D hardware to attach the display to the mounting panel.

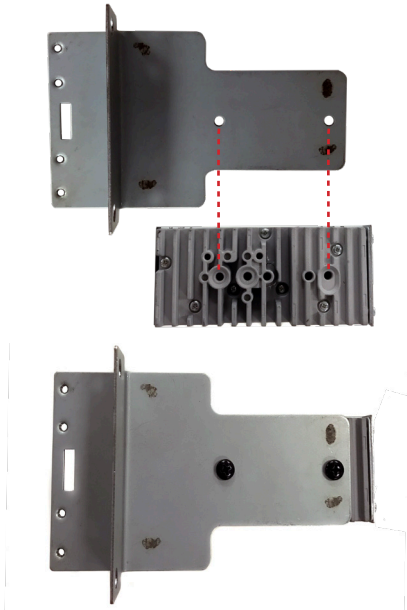


Step 3

Partially screw in the four M4x10 screws from the AMHJP1K hardware into the side holes of the mounting panel. NOTE: Ensure screw tip is flush and does not exceed the plastic thickness.

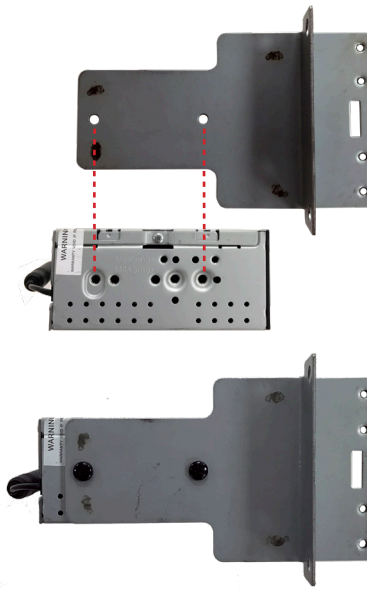
Section 3: Display, Radio Module and Harness Preparation (cont.)

Part Two: Attaching the Radio Module Mounting Brackets



Step 1

Align and attach one of metal side brackets to the right side of the radio module using two M5 x 10 screws from the AERA10D box.



Step 2

Align and attach the remaining metal side bracket to the left side of the radio module using two M5 x 10 screws from the AERA10D box.



FRONT arrow should point towards the Aerpro logo.



Step 3

Using two M4x4 screws from the AERA10D box, mount the support bracket to the top of the radio module in the location shown.

Part Three: Main Harness Connections (RP4-JK07-HAR)



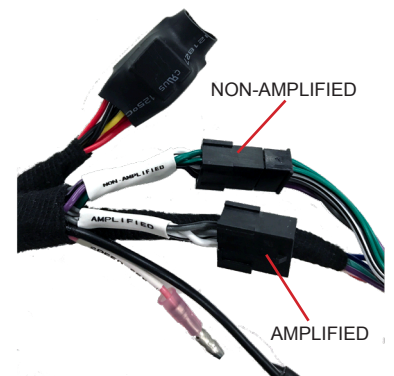
Step 1

Set the dial on the side of the RP4-CH11 interface to Number 4. Remove the warning sticker covering the 16-pin plug on the end of the interface.



Step 2

Connect the 16-pin and 4-pin connectors on the RP4-JK07-HAR Main Harness to the RP4-CH11 interface module.

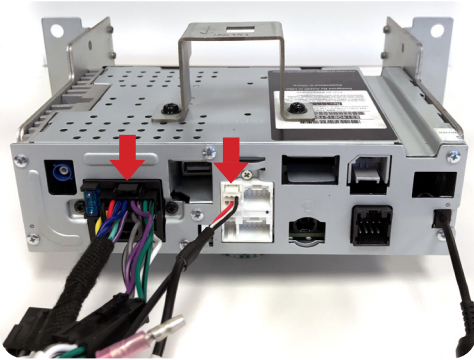


Step 3

If the vehicle is equipped with a factory amplifier, connect the 8-pin connector to the AMPLIFIED connector. All others connect to the NON AMPLIFIED 8-pin connector.

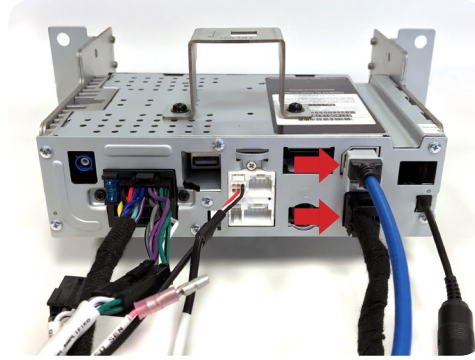
Section 3: Display, Radio Module and Harness Preparation (cont.)

Part Three: Main Harness Connections (RP4-JK07-HAR) (cont.)



Step 4

Connect the 16-pin and 6-pin connectors on the RP4-JK07-HAR Main Harness to the AERA10D radio module.



Step 5

From the AERA10D box, connect the blue LVDS and 8-pin display cables to the radio module.

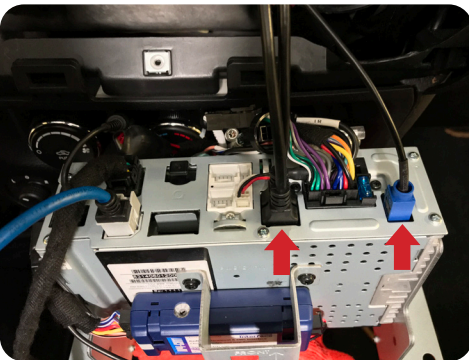


Step 6

Attach the RP4-CH11 interface to the top of the radio module using a M4 x 4 screw from the AERA10D hardware in the threaded hole shown.

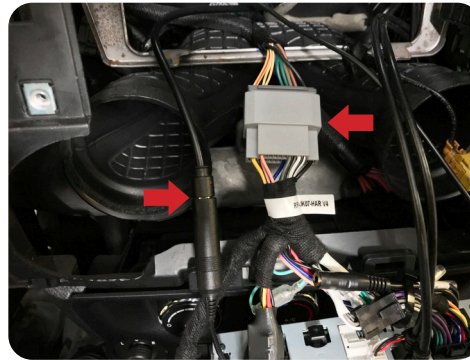
Section 4: Radio Unit Installation

Part One: Harness and Cabling Connections



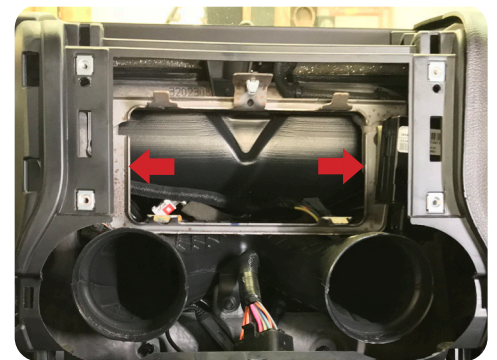
Step 1

Inside the vehicle, plug in the two USB cables and connect the GPS antenna to the radio module.



Step 2

Connect the AM/FM antenna adapter. Connect the vehicle's gray 22-pin radio plug to the RP4-JK07-HAR main harness.



Step 3

Before attempting to mount the radio unit into the dash, ensure that all excess cables, wires and connectors are tucked into the sides, not directly behind the radio.

Section 4: Radio Unit Installation

Part Two: Mounting the Radio Assembly



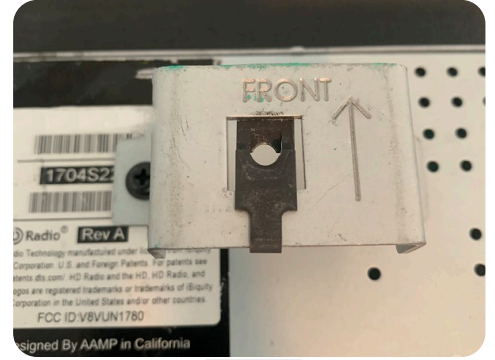
Step 1

With the two display cables routed over the top of the radio module, slide the assembly into place. Take caution that no wiring gets pinched between metal brackets.



Step 2

The top support bracket on the radio assembly needs to go over the top of the factory radio support bracket with the factory nut centered in the bracket cut-out.



Step 3

If the vehicle does not have a factory radio support bracket, insert the included clip-on nut onto the top bracket as shown.



Step 4

Install the four 7mm screws removed from the factory radio to secure the radio assembly.



Step 5

Lower the steering wheel and align and reinstall the instrument cluster / radio panel. Ensure that all retaining clips are fully seated.

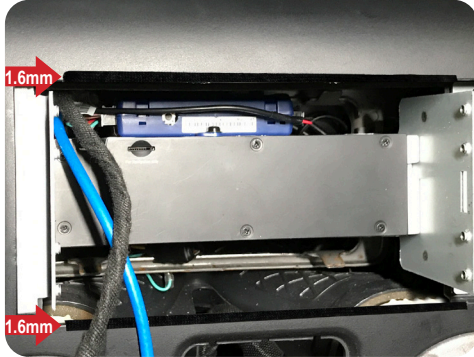


Step 6

Reinstall the factory 7mm screw in the upper storage tray. If using the clip-on nut in Step 3, use the included #10-24 X 1/2" Philips machine screw to secure.

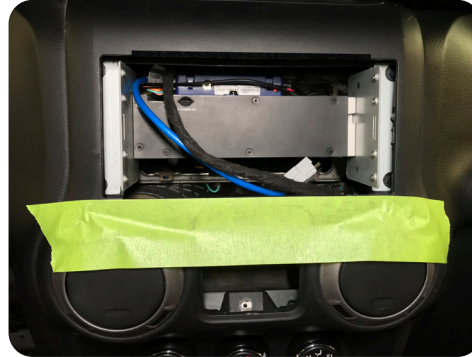
Section 4: Radio Unit Installation (cont.)

Part Three: Attaching the Display Panel



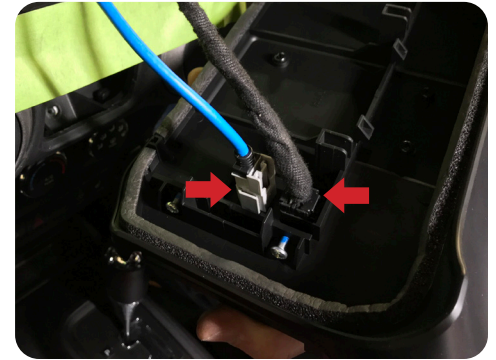
Step 1

Apply a piece of cloth tape across the top and bottom edges of the radio opening. Approximately 1.5mm of tape along the face of the dash panel and the remainder folded inward.



Step 2

Apply a piece of removable tape across the bottom of the radio opening to protect the dash panel during installation.



Step 3

Connect the two display cables to the back of the display.

Step 4

Once the radio display is connected, and before attaching the display panel, it is recommended to power up the radio and check functionality...

- Volume, Balance, Fade
- AM/FM Reception
- Digital Radio Reception
- Bluetooth
- USB
- Apple Carplay
- Android Auto
- Steering Wheel Controls
- Camera(s)



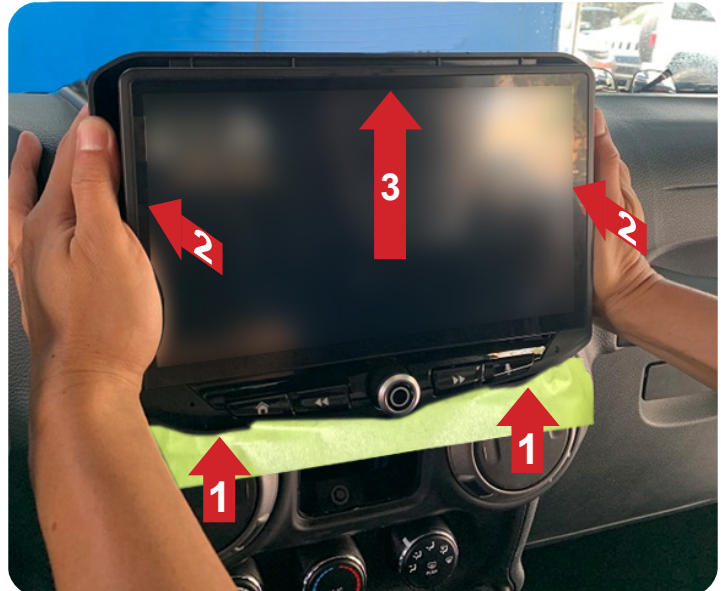
Section 4: Radio Unit Installation (cont.)

Part Three: Attaching the Display Panel (cont.)



Step 5

To attach the display assembly, align the location ribs on the sides of the mounting panel to the side brackets to center the panel side to side.



Step 6

Holding the mounting panel at the sides:

1. Position the bottom edge almost touching the air vents.
2. Firmly push the assembly against the dash panel.
3. Slide the assembly up until it snaps in place.

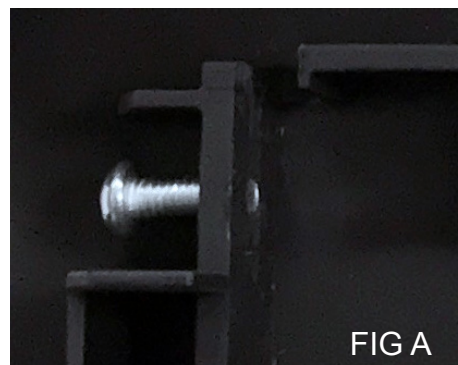
Note: Once the locking clips engage, the panel will stay in place.

Installer Note!

If you are having trouble locking the display in place, try the tips below...

Confirm the four side mounting screws are flush and not protruding beyond the thickness of the plastic. (FIG A)

Press the display assembly *harder* against the dash panel as you slide it into place.
(Step 6 / Part 2)



Section 4: Radio Unit Installation (cont.)

Part Three: Attaching the Display Panel (cont.)



Step 7

Once the display panel is locked into place, use a Phillips screwdriver to tighten the two mount screws on the left and right sides of the mounting panel.



Step 8

Install the front frame by hooking at the top first, then snapping in the sides and bottom. Remove the tape by pulling downward.

Reinstall the remaining screws, panels and switch pod to complete the installation

Reset / Restoring Interface Factory Settings

You can restore the RadioPRO interface module to factory default settings by pressing and holding the programming button on the side of the module until the status LED starts blinking red. Once the LED starts blinking red, release the button. You must release the button while the LED is blinking red in order to perform the reset. This reset will restore all settings to factory defaults.

Technical Support

Email: Tech@TDJ.com.au

Phone: 03 8587 8889 **FAX:** 03 8587 8866

Removing the Display Panel



Step 1

Remove the front frame by first releasing the side clips at the locations indicated by arrows.



Step 2

Using a very thin pry tool or similar, carefully release the side clips as shown on both sides.



Step 3

Once the side clips are disengaged, swing the bottom edge upwards to unhook the top of the frame and remove.



Step 4

Using a Phillips screwdriver, remove the two mounting screws on the left and right sides of the mounting panel.



Step 5

While holding the display with one hand, insert a soft plastic panel tool under either bottom corner and slightly pry up to release the display panel.