

# Aerpro<sup>®</sup>

First Choice

AMHJP2K

INTEGRATED MULTIMEDIA DISPLAY  
FOR JEEP WRANGLER JL & GLADIATOR JT

## USER GUIDE



androidauto



HDMI<sup>®</sup>  
HIGH-DEFINITION MULTIMEDIA INTERFACE



**androidauto**



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for updates and further detailed information.**

**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](http://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 Knob**

Press & Hold to  
Turn to adjust V  
Press to Mu

## CONTROL USING THE

Volume Up/Down

Power On/Off

Mute/Unmute





Reset Button

**Voice Button**  
Launches voice control

**Function Knob**  
Power On/Off  
Volume Up/Down  
Mute/Unmute

**Tune/Track Up Button**  
Media control Next, Forward, Seek  
Press & hold function in select sources

## FACTORY CONTROLS



Tune Up/Down

Screen Off

## GETTING STARTED



### POWER UP!

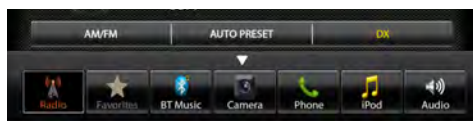
With vehicle ignition in the ON or ACC position, Press and Hold the knob for 2 seconds to power ON/OFF.

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 34.

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 temperature, 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 8.



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**

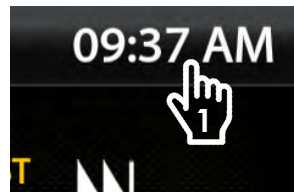


## SETTING THE TIME

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

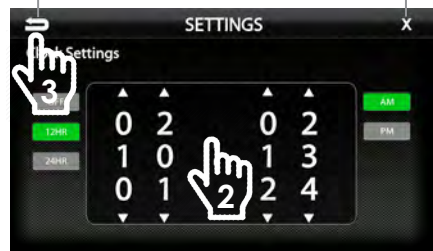
2) Swipe or click arrows to set time and format.

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



Back Arrow

Exit



# CUSTOMIZING THE TABS

## HOME BUTTON > SETTINGS > TABS

The Tabs can be configured to provide quick access to your favorite sources or settings. The steps below show changing Favorites to Climate. Vehicle Info is another option to consider adding to the Tabs.

To Program a Tab:

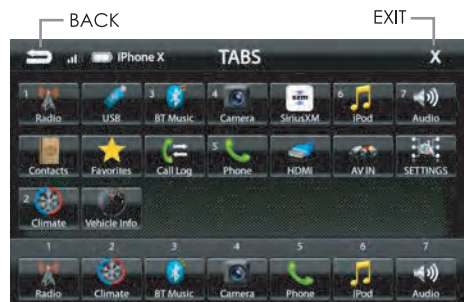
- 1) Press the HOME button and select SETTINGS
- 2) From the SETTINGS menu, select TABS [1]



- 3) Select a Tab position (1–7) on the bottom row. [2]
- 4) Select the desired source or setting from the options on the top rows. [3]



Now Favorites in position 2 is replaced with Climate. Continue customizing or touch EXIT (X) to return to current source or the BACK arrow to return to SETTINGS.





## CLIMATE CONTROL

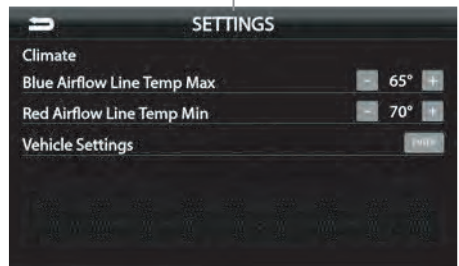
HOME BUTTON > CLIMATE

If your Jeep is equipped with Automatic Climate Controls, you can view and adjust the climate control settings from the touchscreen display as well as operate the heated seats and heated steering wheel, if equipped. The factory climate controls located below the display continues to function, and any changes made with the factory controls are reflected on the screen.

All climate control functions are explained in your Jeep Owner's Manual if you need more information.



Current settings will be highlighted. You can change the highlight color in HOME > Settings > Illumination on Page 31.

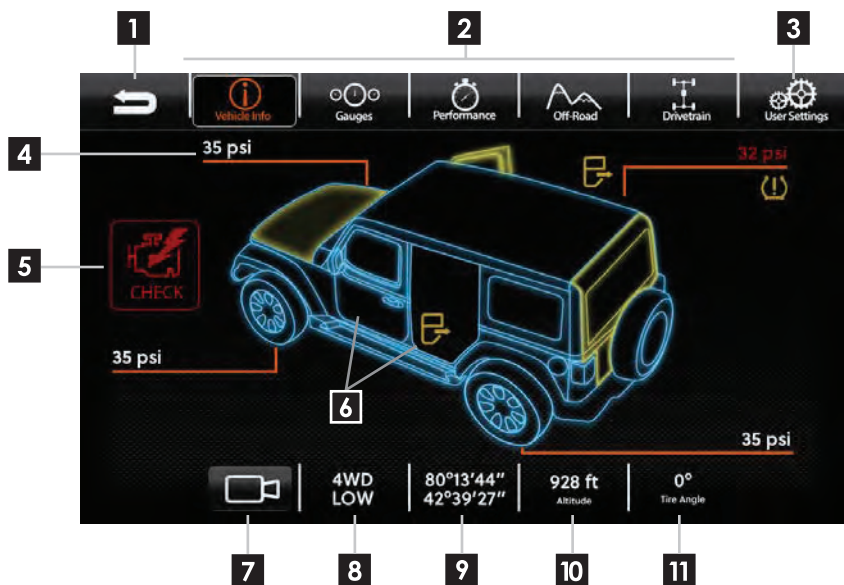


Selecting **Climate Settings** will allow you to personalize the climate display by entering the temperature values that indicate hot, cold and in between. The settings shown above will display Blue Airflow up to 65°, and White Airflow from 66°-69° and Red Airflow from 70° and up. If no White Airflow is preferred, set the temperatures 1° apart and the display will switch from Blue to Red only.

# Vehicle Info

HOME BUTTON > Vehicle Info

Selecting Vehicle Info from the HOME Menu or Tabs will display information and status for various vehicle systems.



- 1** **BACK** - Return to the previous screen.
- 2** **Vehicle Info Menu** - Provides access to various vehicle display modes. The current mode will be highlighted.
- 3** **User Settings** - Access tire pressure, camera and GPS options.
- 4** **Tire Pressure** - Provides tire pressure and low pressure warnings. Low pressure warnings can be customized in User Settings.
- 5** **Malfunction Indicator** - Displays current malfunction indicators. Touch the indicator for more information.
- 6** **Door Closed/Opened/Removed** - Indicates door, hood and rear gate status.
- 7** **Camera** - Activates default camera. Default camera can be set in User Settings.
- 8** **Transfer Case Status** - Displays current transfer case position.
- 9** **GPS Coordinates** - Displays GPS information. Sensitivity can be adjusted in User Settings.
- 10** **Altitude** - Displays altitude above/below sea level.
- 11** **Tire Angle** - Displays front tire angle.

## Vehicle Info > Gauges

Selecting Gauges from the Vehicle Info Menu will display eight gauges that can be user defined and saved.



### To Change the Gauge Type:

Lightly tapping any gauge cycles through the available gauge types.

### Saving a Gauge Setup:

Press and hold either of the two Preset buttons in the bottom corners to save and later recall a gauge combination.

**NOTE:** To change the color of the gauges, see Illumination Page 31

**NOTE:** To change the Units used for the gauges, see Vehicle Settings on Page 15.

### Available Gauge Types:

- Battery Voltage
- Oil Temperature
- Oil Pressure
- Transmission Temperature
- Coolant Temperature
- Fuel Pressure
- Intake Air Temperature
- Engine Calculated Load
- Barometric Pressure
- Intake Manifold
- Fuel Pressure
- Absolute Load
- Ignition Timing
- Engine Run Time

## Vehicle Info > Performance

Selecting Performance from the Vehicle Info Menu will display a digital speedometer and tachometer along with performance measurement options.



### Best 0-60 MPH / Best 1/4 Mile / Best 60-0

Whenever a performance measurement is achieved, the results will be displayed. Use the left and right arrows to recall Best measurements.

### RESET

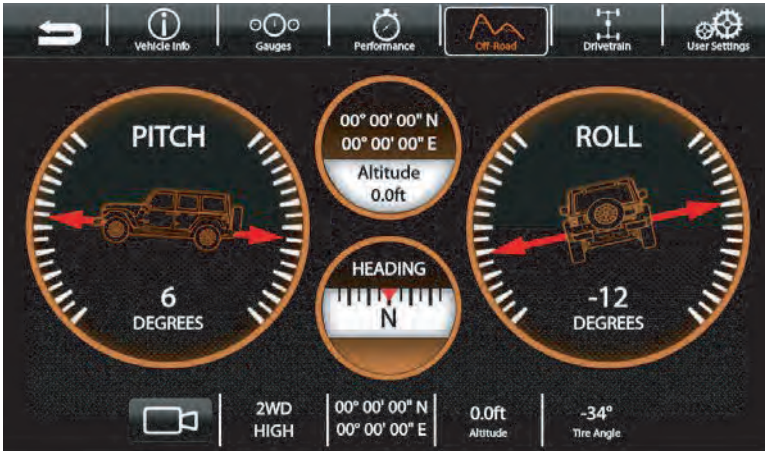
The RESET button will reset both Best and Last results.

### Last 0-60 MPH / Last 1/4 Mile / Last 60-0

Use the left and right arrows to recall the Last measurement for each option.

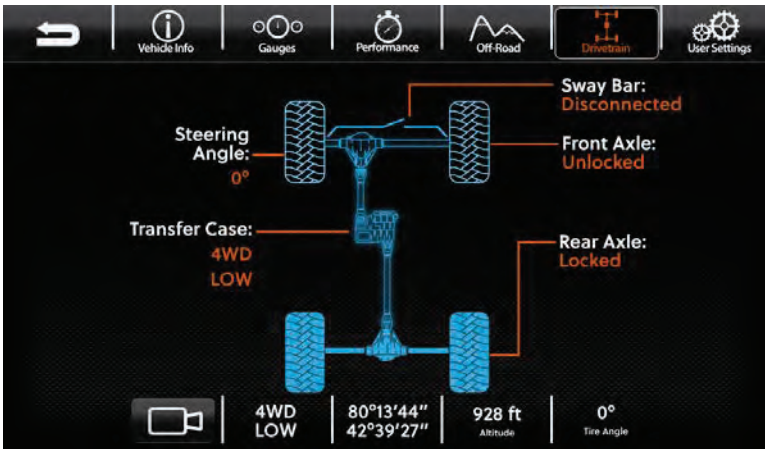
## Vehicle Info > Off-Road

Selecting Off-Road from the Vehicle Info Menu will display digital pitch and roll gauges along with the vehicle's GPS position, altitude and compass heading.



## Vehicle Info > Drivetrain

Selecting Drivetrain from the Vehicle Info Menu will display a visual status for the transfer case, axles, sway bar and tire angle.



## Vehicle Info > User Settings



- 1 Low Tire Pressure Threshold [0–40 PSI]**  
Sets the threshold, in PSI, for the low tire pressure warning shown on the Vehicle Info display.

**Note:** This does not change the factory low tire pressure warning shown in the instrument cluster.

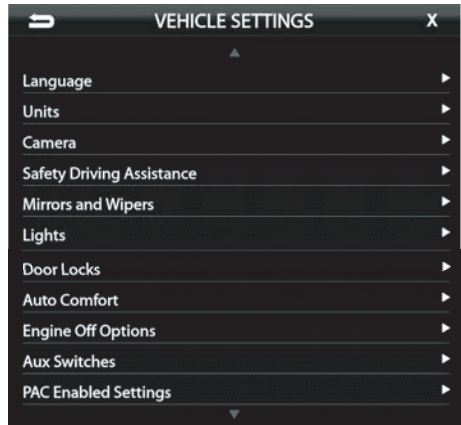
- 2 GPS Precision [Normal-High]**  
Sets the accuracy of the displayed GPS coordinates.
- 3 Default Off-Road Camera**  
Select which camera activates when pressing the camera button.

## Vehicle Settings

HOME BUTTON > Settings > Vehicle Settings

The Vehicle Settings are all the factory vehicle settings retained from the factory radio. Since these are factory settings, with the exception of the PAC Enabled Settings, these are all explained in detail in the uConnect section of the Jeep Owner's Manual.

**NOTE:** The listed settings are based on how the vehicle is equipped. For example, Aux Switches will not be present if the vehicle is not equipped with Aux Switches.



### PAC Enabled Settings > Auto Start/Stop Memory

Setting this to ON will retain the Start/Stop status when the vehicle is turned off.



# Factory Cameras

## HOME BUTTON > Camera

The factory rear camera will continue to automatically display when in reverse and can also be activated at any time by selecting Camera from the HOME Menu or Tabs.

When the camera is first activated, there will be menu bars at the top and bottom of the display. The top menu bar contains the BACK arrow to return to the previous screen, and the Off-Road button will display the camera image along with the off-road gauges and information (FIG. A). Selecting the Camera Settings button will open up the Camera Settings menu (FIG. B).

The bottom menu bar displays available cameras. Touch any available camera to switch camera views. In addition to the factory rear camera, AERA10D can support up four additional cameras.

**NOTE** The top and bottom menu bars will auto-hide after five seconds, and tapping the screen will re-display the menu bars.

### Camera Settings

The Camera Settings page displays all enabled cameras. Cameras can be shut off using the Trigger selection. Selecting Factory Camera will display Camera Guidelines. Active Guidelines move with the steering wheel position, while Fixed Guidelines do not.

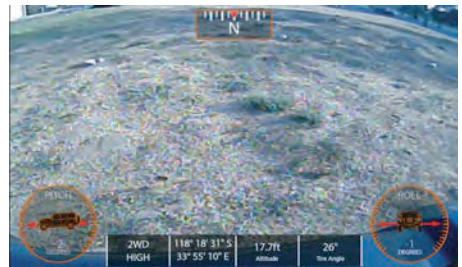


FIG. A



FIG. B



## Factory USB Ports

HOME BUTTON > USB

Apple CarPlay and Android Auto require a dedicated USB port. The factory USB port inside the center console will function for Apple Carplay/Android Auto, and all other USB ports can be used for USB thumb drives and charging only.

### Factory Center Console Port [2]:

Apple CarPlay  
Android Auto  
USB Drive Media (Page: 29)  
Charging



### Factory Dashboard Port [1]:

USB Drive Media & Charging Only  
The AUX Input can be accessed by selecting AV IN from the HOME Menu.



### Factory Rear Console Port [3]:

USB Drive Media & Charging Only



# AM/FM RADIO



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

- 1** **Station Presets** - To assign a preset, go to the desired station, and press and hold a preset location until the 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 the 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 an incoming call.
- 5 End/Decline** - Press to end an active call or decline an 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 the 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.

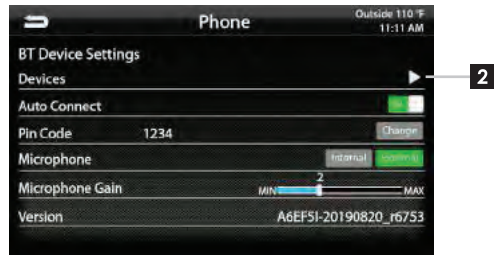
# Bluetooth **PHONE**

## 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 the Key Code on device and select Pair on the 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]

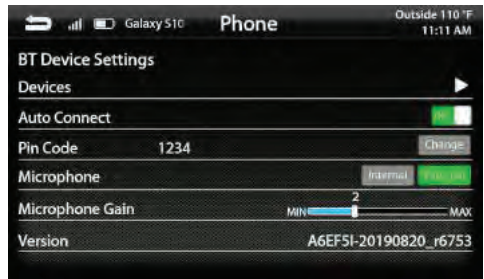
Change the pin code for Bluetooth connection. The default pin code is "1234".

#### 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 Australia 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.



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

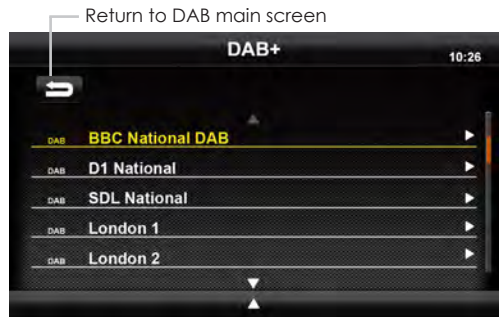
- 1 Channel Presets** - To assign a preset, go to desired channel, press and hold a preset location until preset button highlights and channel name appears. A total of 18 channels can be stored in memory.
- 2 Channel Down/Up** - Touch to go to previous channel / advance to next channel. Touching and 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.



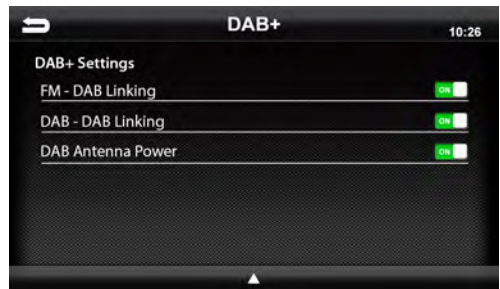
### Channels

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.



# Apple CarPlay®

## Set up Apple CarPlay

You can use Apple CarPlay to get directions, make calls, send and receive text 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 the 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.

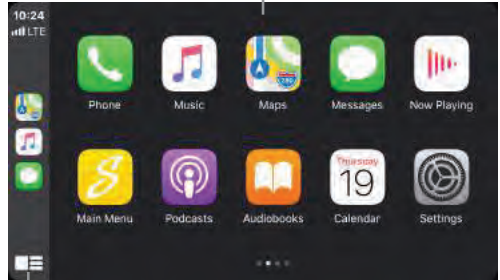
The display will show available apps. Only apps that are supported by Apple CarPlay will appear.

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

1. Go to Settings > General, and tap CarPlay.
2. Select UN1880.
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.

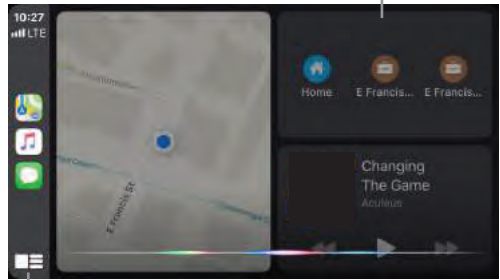
To exit Apple CarPlay, press the Main Menu icon.

CarPlay Home



Toggle CarPlay Home / Dashboard

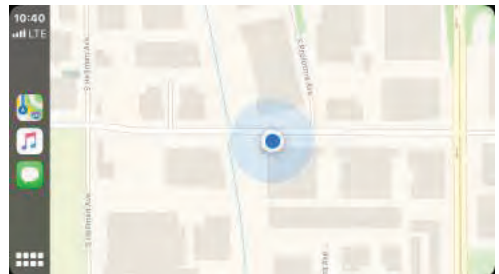
CarPlay Dashboard



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.

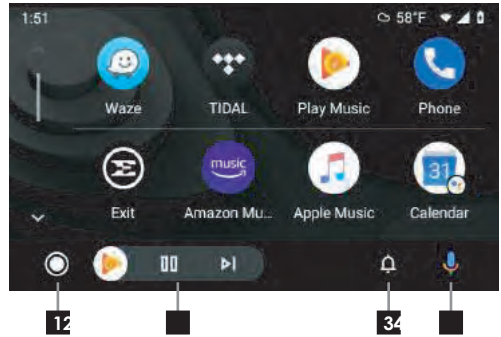
#### Connect your phone

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.

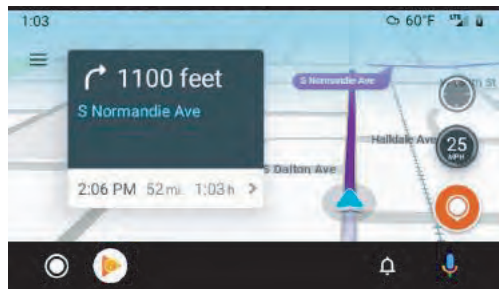
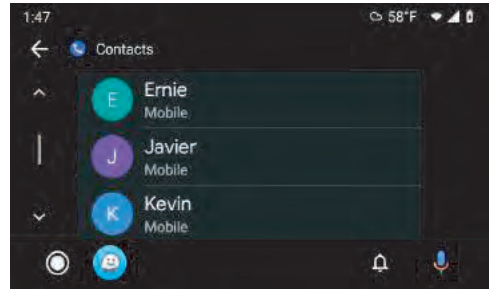
1. Unlock your phone's screen.
2. Connect your phone using a USB cable.
3. Your phone might ask you to download or update certain apps, like Google Maps.
4. Review the Safety Information and Android Auto permissions to access your apps.
5. Turn on notifications for Android Auto. For the best experience,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



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



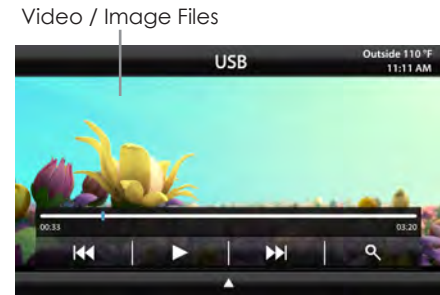
# USB Media



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. 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.



# AERA10D

## 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 and 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!**

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

# CAMERAS

In addition to the factory rear camera, AERA10D can support up to four additional cameras. To access any installed camera, press the **HOME BUTTON > Cameras**

When a camera is first activated, there will be menu bars at the top and bottom of the display. The top menu bar contains the BACK arrow to return to the previous screen, and the Off-Road button will display the camera image along with the off-road gauges and information (FIG. A). Selecting the Camera Settings button will open up the Camera Settings menu (FIG. B).

The bottom menu bar displays available cameras. Touch any available camera to switch camera views.

**NOTE** The top and bottom menu bars will auto-hide after five seconds, and tapping the screen will re-display the menu bars.

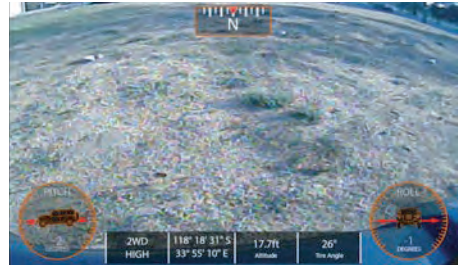


FIG. A

## Camera Settings

The Camera Settings page displays all enabled cameras. Cameras can be shut off using the Trigger selection.



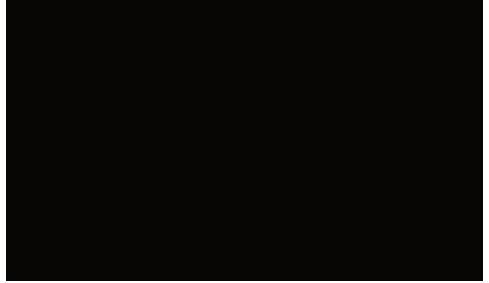
FIG. B

## DISPLAY OFF

Press the **HOME BUTTON > Display Off** or Screen Off on the factory controls to turn off the LCD display.

This is useful at night to prevent eye fatigue.

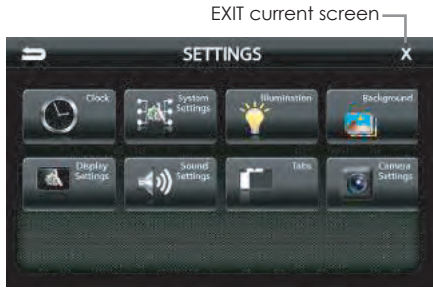
Tap anywhere on the screen to return to the regular display.



# SETTINGS

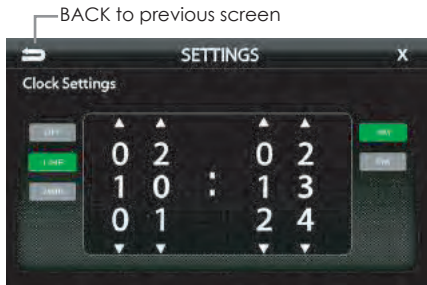
Press the **HOME BUTTON > Settings** to access the Settings main menu.

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



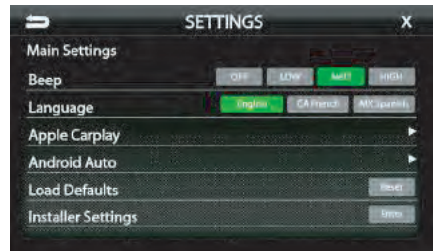
## Settings > Clock

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

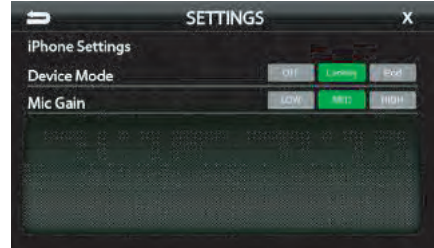
### Settings > System Settings > AppleCarPlay

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.



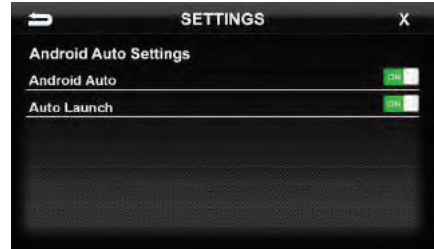
### Settings > System Settings > Android Auto

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 a 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, it 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 the drive to one of the USB ports. Touch the ⊕ symbol and select a file. Images should be JPG or PNG file format and 1024x600 resolution

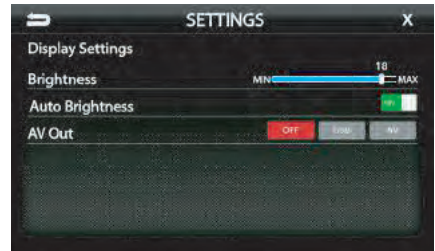


## Settings > Display Settings

**Brightness [0–20]**  
Adjusts Day and Night brightness of the LCD display. To adjust Night brightness level, turn on vehicle's lights and then adjust brightness.

**Auto Brightness [ON-OFF]**  
When set to ON, the display screen will automatically dim when vehicle's 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

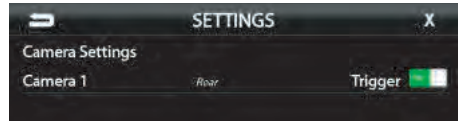
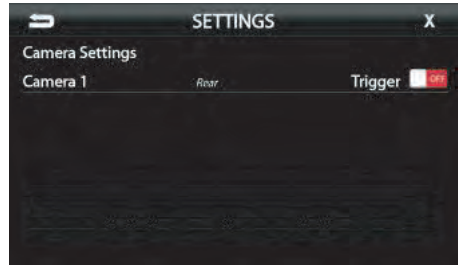


## SETTINGS

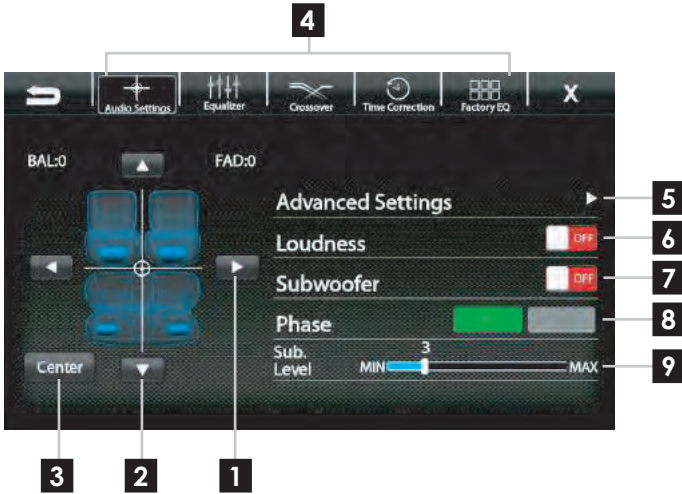
### Settings > Camera Settings

The Camera Settings screen lists all installed cameras and allows the camera triggers to be turned on and off.

**NOTE:** The default initial camera setting is Camera 1 > Rear > Trigger OFF. If a Rear camera has been installed, the Trigger needs to be switched to ON to enable the camera to automatically turn on when vehicle is placed in reverse.



# 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 and microphone settings. (See page 44)
- 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 the phase of subwoofer signal.
- 9** Sub Level [0-15]  
Adjusts volume level of the 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 and 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.

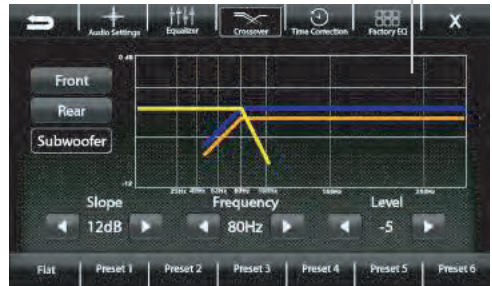
## Saving Crossover Settings

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.

**NOTE:** If the vehicle is equipped with a factory amplifier, Crossover is not selectable by default.

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 the 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.

**NOTE:** If the vehicle is equipped with a factory amplifier, Time Correction is not selectable by default.

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 and speaker 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 the 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 the 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 a specific level.

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





## 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.



## Introduction and Features

The AMHJP2K is a complete radio replacement kit with integrated climate control retention for select Jeep Wrangler JL and Jeep Gladiator JT vehicles. All modules and cables are included to retain important features of the factory system, including: steering wheel-mounted radio controls, factory reverse camera, USB ports, and AM/FM reception.

Data integration with the vehicle and the Aerpro AERA10D radio allows for the retention and addition of the following features: vehicle performance gauges and information, climate controls, vehicle settings, factory amplifier control, and forced camera activation. Simplified installation and setup menus allow direct programming of camera triggers, steering wheel controls, and other settings of the radio and CH4A-JW18 interface. See Important Notes (next section) for additional information.

Plug & Play wiring harnesses and cables 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:**

**Cluster Display Features**

- Compass (when equipped with 7" or 8.4" screen)
- Clock
- Phone pop-ups
- Navigation pop-ups

**Factory Amplifier Features**

- Speed Controlled Volume

2. When connected properly, the USB port inside the center console will function for **Apple Carplay/Android Auto**, and all other USB ports will be used for USB thumb drives and charging only.
3. When connecting an HDMI streaming device to the RPA-HD1, use an HDMI extension cable to position it away from the module to ensure proper functionality. We recommend placing the HDMI device in the glove box. Failure to follow the directions may result in module malfunction.

## Tools Needed; Included Components

Tools needed for installation: 7mm socket, 10mm socket, ratchet, ratchet extension, T20 torx screwdriver, T25 torx screwdriver, pick tool or small flathead screwdriver, plastic panel removal tool.

1. **AERA10D Display Mounting Panel**
2. **18" Data Harness (10P-2-10P-18)**
3. **CAN-Bus Connection Harness (MQS4PT-36)**
4. **Radio Module Mounting Brackets**
5. **Chime Speaker Mounting Accessories**
6. **Screen Panel Clips and Mounting Bracket Screws**
7. **External Chime Speaker**
8. **7' USB Port Retention Adapter (USB-UN2)**
9. **AM / FM Antenna Adapter (BAA22)**
10. **8" USB Hub Retention Adapter (USB-UN1)**
11. **6" Data Harness (10P-2-10P-6)**
12. **PAC-LINK Interface Module (PL1)**
13. **HD Camera Retention Module (RPA-HD1)**
14. **Radio Replacement Interface Module (CH4A-JW18)**
15. **12" HDMI Cable**
16. **Main Wiring Harness (RPK-JW18-HAR)**

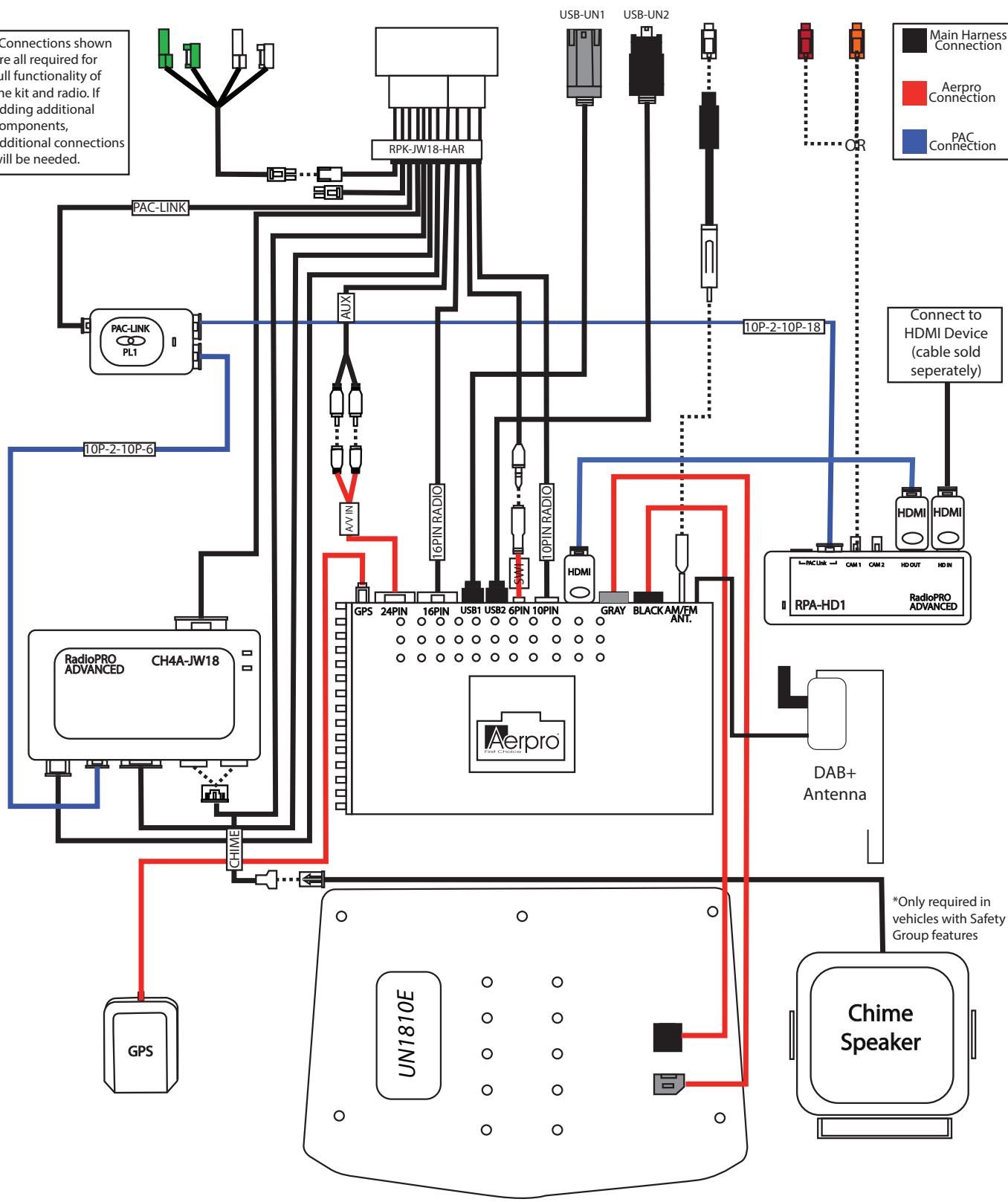


## Complete Wiring Diagram Overview

\*Connections shown are all required for full functionality of the kit and radio. If adding additional components, additional connections will be needed.

Legend:

- Main Harness Connection (Black line)
- Aerpro Connection (Red line)
- PAC Connection (Blue line)



Connect to HDMI Device (cable sold separately)

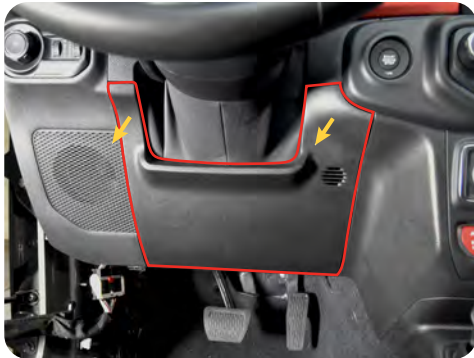
\*Only required in vehicles with Safety Group features

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, Radio Unit Mounting Preparation, Radio Unit Harness Connections and Preparation, In-Vehicle Harness Connections and Preparation, Radio Unit Installation, and Reassembly.

**NOTE: LEFT HAND DRIVE VEHICLE PICTURED FOR ILLUSTRATION PURPOSES ONLY**

## Section 1: Disassembly

### Part One: Radio Removal



**Step 1**

Pull out at the top of the knee bolster to release the retaining clips, then work your hands down the edges of the knee bolster to release the remaining clips and remove the panel.



**Step 2**

Grasp the climate control panel at the exposed left edge and pull out to unclip the left side, then work your fingers around the remaining edges of the panel to fully unclip it.



**Step 3**

Disconnect the push-to-start button and climate control connectors from the back of the climate control panel and remove.



**Step 4**

Remove the two 7mm screws securing the radio bezel to the dash, then pull outward on the radio bezel to unclip it and remove.



**Step 5**

Remove the four 7mm screws securing the radio in place, then lift the radio out of the radio cavity.



**Step 6**

Disconnect the antenna and USB connectors from the back of the radio, then disconnect the 52-pin dock-and-lock connector and remove the radio.

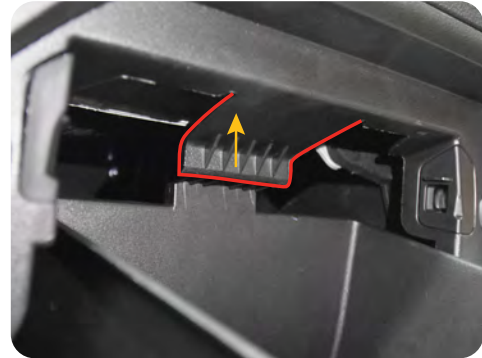
## Section 1: Disassembly (cont.)

### Part Two: Glove Box Removal



**Step 1**

Open the glove box and unclip the soft-open sliding arm clasp from the left side of the glove box.



**Step 2**

Push up on the glove box stop tab to allow the glove box to fall forward out of the glove box opening, then unhinge the bottom of the glove box and remove.

### Part Three: Center Console Panel Removal



**Step 1**

Open the center console storage lid, then remove the two T20 torx screws securing the rear console panel in place.



**Step 2**

While pulling the panel towards the rear of the vehicle, use a plastic panel removal tool to release the clips securing the panel in place and remove.

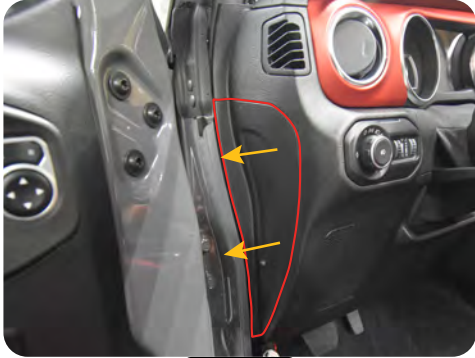


**Step 3**

Disconnect the inner center console USB port connector.

## Section 1: Disassembly (Cont.)

### Part Four: Door Sill Trim Removal



**Step 1**

Use a plastic panel removal tool to remove the panel on the driver side of the dash.



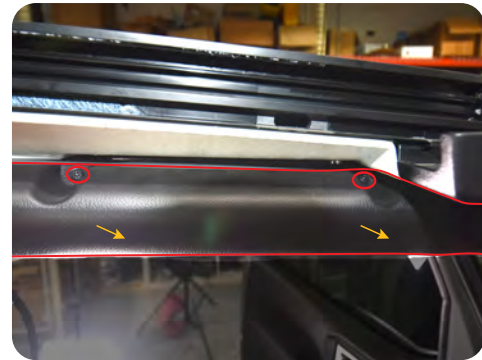
**Step 2**

Use a plastic panel removal tool to open the driver side handle bolt covers, then remove the two 10mm bolts.



**Step 3**

Remove the two T25 screws on the underside of the driver side upper door seal trim.

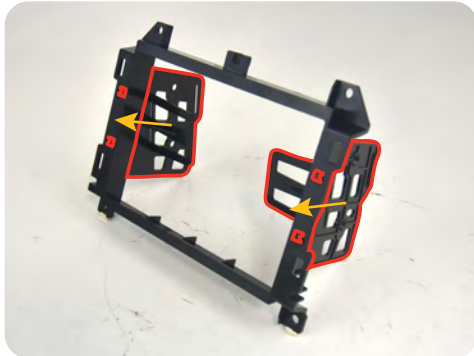


**Step 4**

Remove the two T25 screws on the inner-most side of the driver side upper door seal trim; then, while pulling towards the middle of the vehicle, use a plastic panel removal tool to remove it.

## Section 2: Radio Unit Mounting Preparation

### Part One: Assembling the Radio Module Mounting Brackets



**Step 1**

Slide the left and right side brackets (marked by the letters LH and RH) into the back of the main bracket (the orientation of the main bracket is marked by the part number at the top).



**Step 2**

Secure the side brackets to the main bracket using the four #10x3/8 Phillips coarse threaded screws.

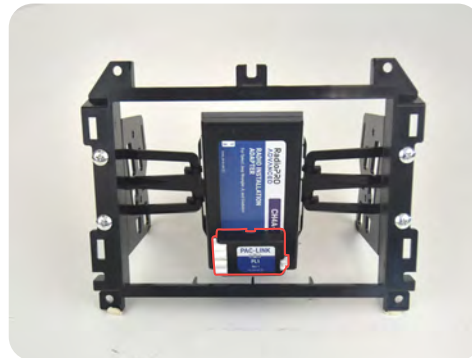
### Part Two: Mounting the Interface Modules and AERA10D Radio Module

**Note:** It does not matter what the DIP switches on the CH4A-JW18 module are set to.



**Step 1**

Mount the CH4A-JW18 module to the left and right inner mounting tabs of the radio module mounting brackets using zip ties. Ensure the module is oriented with the part number (CH4A-JW18) on the right side.



**Step 2**

Mount the PAC-LINK module to the lower part of the CH4A-JW18 module using a piece of the provided double-sided tape.



**Step 3**

Mount the AERA10D radio module onto the side brackets using the four M5x10 Phillips screws (only two shown). Ensure that the ports for connections on the radio module are facing down.

## Section 2: Radio Unit Mounting Preparation (cont.)

### Part Three: Assembling the Screen Mounting Panel



**Step 1**

Install the six orange retaining clips onto either the AERA10D mounting panel



**Step 2**

Lay the radio screen into the mounting panel and secure it to the panel using the four M4x12 screws included in your AERA10D kit.

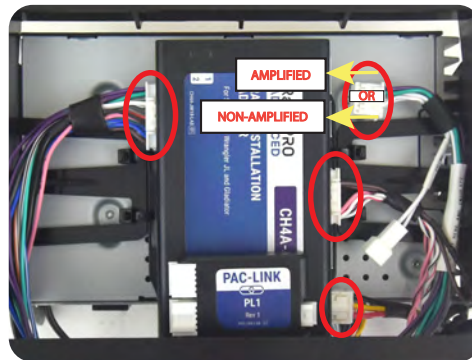
## Section 3: Radio Unit Harness Connections and Preparation

### Part One: Main Harness Connections (RPK-JW18-HAR)



**Step 1**

Connect the two AERA10D radio module connectors which are labeled "16PIN RADIO" and "10PIN RADIO" into the appropriate ports on the AERA10D radio module.



**Step 2**

Connect the four CH4A-JW18 interface module connectors into the appropriate ports on the CH4A-JW18 interface module. Ensure that the 12-pin connector is plugged into the correct audio output port (this depends on if the vehicle is equipped with a factory amplifier or not).



**Step 3**

Connect the PL1 interface module connector labeled "PAC LINK" into the 3-pin port on the PAC-LINK interface module.



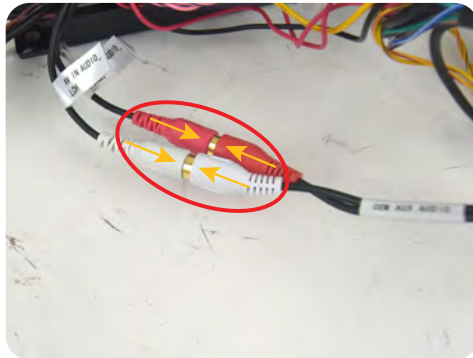
## Section 3: Radio Unit Harness Connections and Preparation (cont.)

### Part One: Main Harness Connections (RPK-JW18-HAR) (cont.)



**Step 4**

Connect the 24-pin A/V Aerpro RCA harness (provided in the AERA10D radio box) into the 24-pin port on the Aerpro radio module.



**Step 5**

Connect the white and red male RCAs labeled "OEM AUX AUDIO" on the RPK-JW18-HAR into the white and red female RCAs labeled "LINE IN / AUX IN" on the A/V Aerpro RCA harness.

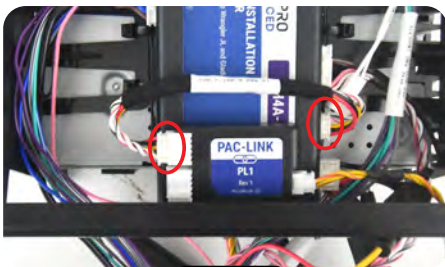
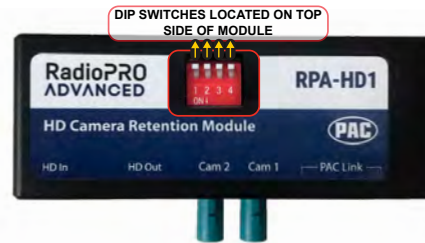


**Step 6**

Connect the 6-pin SWI / IR harness (provided in the AERA10D radio box) into the 6-pin port on the Aerpro radio module, then connect the 3.5mm jack labeled "STEERING WHEEL CONTROL" on the RPK-JW18-HAR into the female 3.5mm connector labeled "SWI" on the Aerpro SWI / IR harness.

### Part Two: 10P-2-10P Harness and HDMI Connections

Prior to making connections to the RPA-HD1 module, verify that all 4 of the module's DIP Switches are set to the up position (OFF).



**Step 1**

Connect one end of the 6" harness (10P-2-10P-6) into the 10-pin expansion port on the CH4A-JW18 interface module, then connect the other end into either of the two 10-pin ports on the PL1 interface module.



**Step 2**

Connect one end of the 18" harness (10P-2-10P-18) into either of the two 10-pin PAC Link ports on the RPA-HD1 interface module. The other end will be connected to the open 10-pin port on the PL1 interface module after mounting the radio unit into the vehicle.

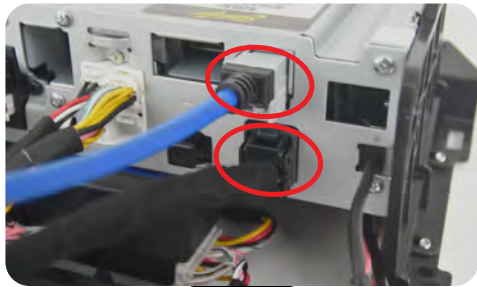


**Step 3**

Connect one end of the 12" HDMI cable into the HD OUT port on the HD1 interface module. The other end will be connected to the HDMI input port on the AERA10D module after mounting the HD1 interface module into the vehicle.

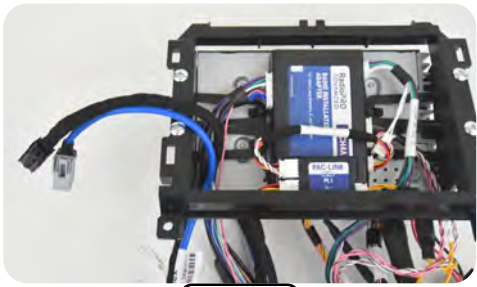
## Section 3: Radio Unit Harness Connections and Preparation (cont.)

### Part Three: AERA10D Display Connections



**Step 1**

Connect one end of the 8-pin display power harness into the 8-pin port on the AERA10D radio module, then connect the LVDS display video cable into the LVDS display port on the AERA10D radio module. (Both of these cables are provided in the Aerpro radio box.)



**Step 2**

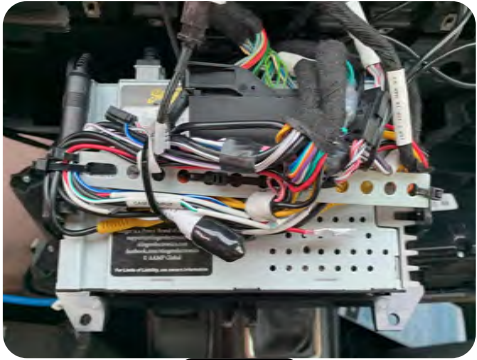
Route the display harness and cable through the front opening of the main radio module mounting bracket.

### Part Four: Securing the Wire Harness



**Step 1**

Run a zip tie through the metal eyelet on the connections side of the AERA10D radio module, then tighten it down around the main wiring harness to secure it in place tightly against the radio module.

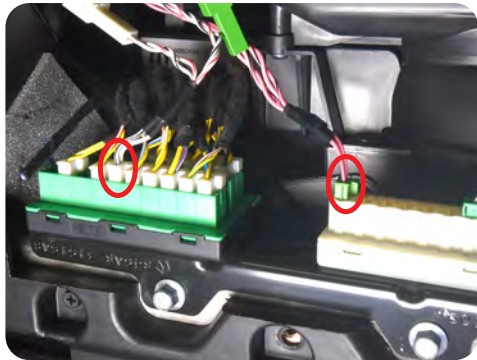


**Step 2**

Secure each end of one backstrap (included in the AERA10D radio box) to the plastic eyelets on the side radio module mounting brackets, then use zipties to secure the factory style 52-pin connector and the rest of the radio unit wiring to the back strap. (The unit should resemble the image pictured when complete.)

## Section 4: In-Vehicle Harness Connections and Preparation

### Part One: CAN Connections Harness (MQS4PT-36)



**Step 1A**

Behind the glovebox, connect the male white connector from the MQS4PT-36 harness into the green CAN junction block and the male green connector from the MQS4PT-36 harness into the white CAN junction block, then run the 4-pin connector on the MQS4PT-36 harness behind the dash to the radio opening.

OR



**Step 1B**

If there are no open ports on the CAN junction blocks, unplug one factory male connector and insert it into the same colored female connector on the MQS4PT-36 harness, then insert the male connector on the MQS4PT-36 harness into the now empty port on the CAN junction block.

### Part Two: GPS & DAB+ Antenna and External Microphone (provided in AERA10D radio box)



**Step 1**

Clean the area next to the factory antenna on the center roll cage structure and stick the GPS mounting plate to it. Then, secure the GPS antenna to the mounting plate (it is magnetic). Route the cable behind the trim panels of the roll cage over to the driver side A-pillar.



**Step 2**

Route the GPS & DAB+ cables down the A-pillar past the plastic dash side panel, then route the cables behind the lower dash below the steering column and then up the center stack to the radio opening. (Secure with zip ties along the way.)



**Step 3**

If you choose to use the external microphone instead of the internal microphone, mount it to the upper windshield trim panel above the rear-view mirror, then route the cable underneath the trim panels across the upper windshield and follow the route of the GPS & DAB+ cables to the radio opening.

## Section 4: In-Vehicle Harness Connections and Preparation (cont.)

### Part Three: Chime Speaker



**Step 1**

Remove the knobs from the chime speaker and mount the chime speaker bracket to the metal brace underneath the steering column using the double sided tape, mounting bolts, and wing nuts. Then, reinstall the speaker to the mounting bracket. (Two holes must be drilled into the metal brace to secure the speaker mounting bracket to it.)

**Note:** Installation of the chime speaker is only required in vehicles with safety group features.



**Step 2**

Route the chime speaker cable behind the dash panels to the radio opening.

### Part Four: USB Retention Adapters



**Step 1**

Connect the USB-UN1 adapter to the factory USB connector that was unplugged from the factory radio.

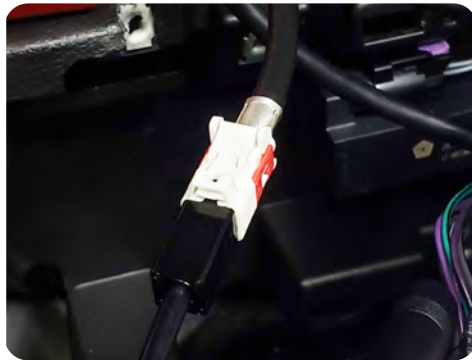


**Step 2**

Connect the USB-UN2 adapter to the factory USB port in the back of the center console, then route the cable along the passenger side of the center console to the radio opening.

## Section 4: In-Vehicle Harness Connections and Preparation (cont.)

### Part Five: AM / FM Antenna Adapter and RPA-HD1



**Step 1**

Connect the AM/FM antenna adapter (BAA22) to the antenna with the white connector that was disconnected from the factory radio.

**Note:** You can also place the RPA-HD1 into the cavity that is below the radio cavity behind the climate control panel on the right side.



**Step 2**

Connect the factory camera cable with an orange or red Fakra connector into the Cam 1 port on RPA-HD1, then slide the RPA-HD1 through the radio opening into the cavity behind the dash that is above the center left air vent or into the cavity behind the right side of the climate control mounting area.

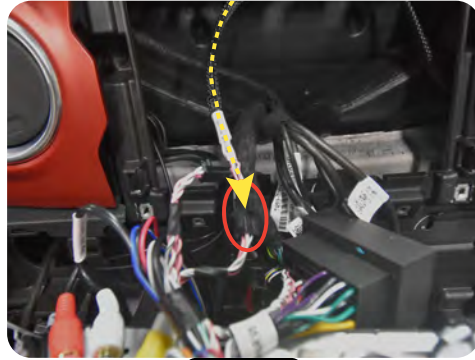
## Section 5: Radio Unit Installation

### Part One: Harness and Cabling Connections



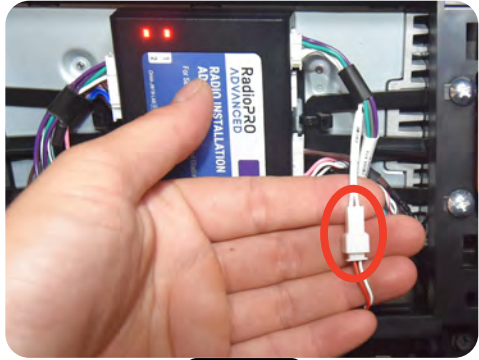
**Step 1**

Before attempting to mount the radio unit into the dash, first ensure that all excess cables and wires are tucked into the sides, out of the way of the radio. The radio unit is a snug fit and will be difficult to mount into the dash if there is anything taking up space behind the radio opening.



**Step 2**

Disconnect the two 4-pin connectors on the RPK-JW18-HAR, then connect the MALE 4-pin connector on the MQS4PT-36 harness into the FEMALE 4-pin connector on the RPK-JW18-HAR. The MALE 4-pin connector on the RPK-JW18-HAR will no longer be used.

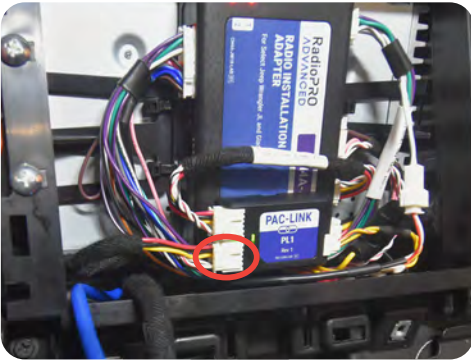


**Step 3**

Connect the 2-pin chime speaker connector to the main harness.

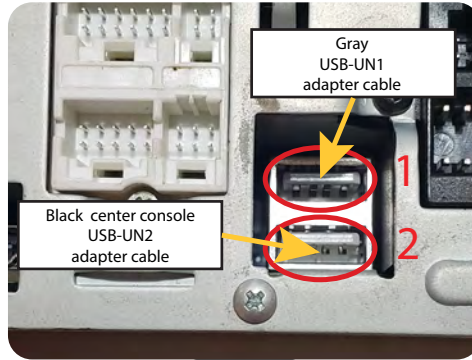
## Section 5: Radio Unit Installation (cont.)

### Part One: Harness and Cabling Connections (cont.)



**Step 4**

Connect the 10P-2-10P-18 connector coming from the RPA-HD1 interface module into the open port on the PL1 interface module, then connect the 52-pin dock-and-lock connector to the main OEM radio connector in the vehicle.



**Step 5**

Connect the USBs into the appropriate ports on the AERA10D radio module. Ensure that the USB-UN1 is connected to port 1, and the center console USB-UN2 is connected to port 2.

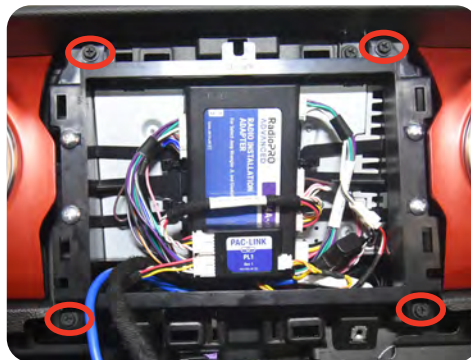


**Step 6**

Connect the AM/FM antenna (3), the HDMI cable (4), and the GPS antenna (5).

For a complete wiring diagram overview, refer to page 2.

### Part Two: Radio Unit Mounting



**Step 1**

While holding the cabling above the vents in the dash, slide the radio unit into the radio cavity and secure it to the dash using the four 7mm screws that held the factory radio in place.

**Note:** Once the radio unit is slid into the radio cavity, the kit will not always seat fully into the dash. There is sometimes about a 1/4-inch gap between the screw holes. If the previous steps of the instructions were followed, this 1/4-inch gap will close with the tightening of the four 7mm screws, allowing the kit to seat fully into place. If there is more than a 1/4-inch gap before installing the screws, slide the radio unit back out and readjust the connectors and cables behind the radio opening until they are no longer in the way of the radio unit, then reinstall.



**Step 2**

Connect the AERA10D display cables into the back of the AERA10D radio display and secure it to the radio unit mounting bracket against the dash using the orange clips and the two 7mm screws below the radio cavity.

## Troubleshooting

1. **Reverse camera inoperable** - Verify that all reverse camera wiring connection points are proper by reviewing the RPA-HD1 connection steps.

### CH4A-JW18 Interface Module LED Diagnostics

LED Pattern	State	Action
LED 2 solid red	Vehicle RAP / ACC Output Is On	N / A
LED 2 flashing green	SWC Activity	N / A
LED 2 flashing red	Module Resetting / Initializing	N / A
LED 1 solid green	Module Powered and Operating	N / A
LED 1 flashing amber	USB Connected	N / A
Off	No Activity	Verify key is in ignition position. Verify that there is 12v on the yellow wire and ground on the black wire.

### RPA-HD1 Camera Module LED Diagnostics

LED Pattern	State	Action
LED solid red	Initial Power-Up	N / A
LED flickering green	Querying RadioPro for Configuration	N / A
LED flashing green	Normal Operation w/ HDMI Pass-thru	N / A
LED solid amber	Normal Operation w/ Camera selected	N / A
Off	No Activity	Verify 10pin harness connections and key position

### PL1 Adapter Module LED Diagnostics

LED Pattern	State	Action
LED flickering green or red	Data Communication / Normal Operation	N / A
Off	No Activity	Verify 10pin harness connections and key position

## 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

If you need assistance setting up or using your Aerpro product now or in the future, call Aerpro Support Australia

TEL: 03 – 8587 8898 FAX: 03 – 8587 8866 Mon-Fri 9am – 5pm AEST. If you would like to download a digital copy of this manual, or other Aerpro manuals/software, please visit the <http://aerpro.com> website.