ROAD ANGEL™

2 YEAR WARRANTY
WHEN YOU REGISTER ONLINE AT ROADANGELGROUP.COM

RA-X721DAB

RA-X621BT

RA-X721DAB & RA-X621BT

PRODUCT MANUAL

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Notes on Installation

INSTALLATION PRECAUTIONS

CAUTION

- The Road Angel Stereo is designed for **12V DC negative ground operation system only**. Before installing the unit, make sure your vehicle is connected to a DC12V negative ground electrcial system.

- **The negative battery terminal must be disconnected before making connections,** which can avoid the chance of damaging the Road Angel Stereo due to a short circuit

- Be sure to **connect the colour coded leads correctly** according to the diagram on the Road Angel Stereo itself. Incorrect connection may cause the unit to malfunction or damage the vehicle's electrical system.

- Be sure to connect the speaker (**-**) leads to the speaker (**-**) terminals (or vice versa). **Do not cross-wire the left and right speaker channels** or to the vehicle's body.

- **Do not block vents or radiator panels.** Doing so may result in heat build-up inside the unit and may result in a fire.

- **For Android Auto to work, you need to ground the pink cable labelled "PARK"**. Otherwise, Android Auto will not load. This is a built in safety feature common on all aftermarket headunits with Android Auto.

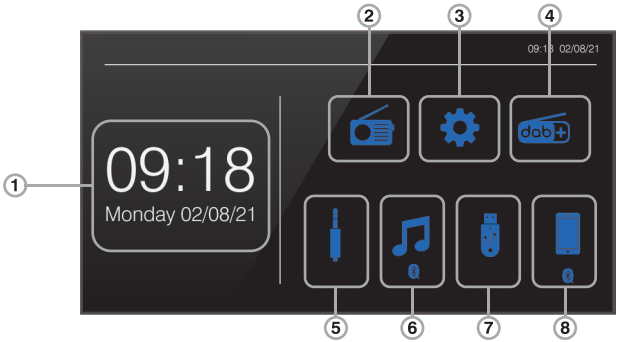
Introduction

MAIN PANEL AND INSTRUMENTATION

1	⌂	Touch to return to the home screen.
2	⏻	Touch to mute. To unmute, touch again. Touch and hold to power off. To power back on, touch again.
3	+ −	Touch (+) for volume increase and (-) for volume decrease.
4	🎙	Touch to activate the voice control. When an iPhone or Android device is connected, you can active Google Assistant or Siri
5	RST	Press to reset the stereo

Main Interface

MAIN PANEL AND INSTRUMENTATION

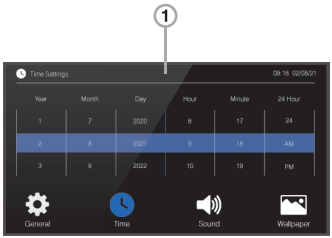


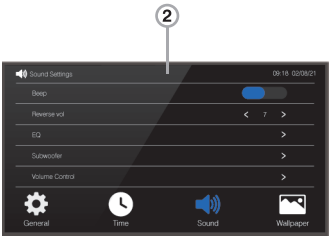
1		Touch to adjust Date & Time.
2		Touch to enter the Radio settings.
3		Touch to enter the General settings.
4		Touch to enter DAB settings. (Only available on RA-X721DAB)

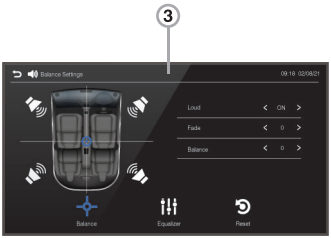
5		Touch to access the AUX IN.
6		Touch to access the Bluetooth Music.
7		Touch to access the connected USB.
8		Touch to enter Phone Bluetooth settings.

General Settings [1]

ADJUSTING DATE/TIME AND SOUND







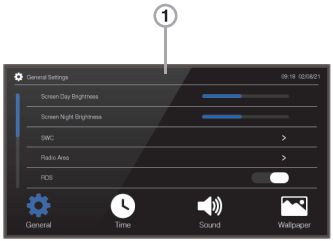
1		Once in the Date & Time settings, simply scroll up and down in the individual segments to find the appropriate setting. Touch the home screen icon ⌂ on the left of the screen to save.

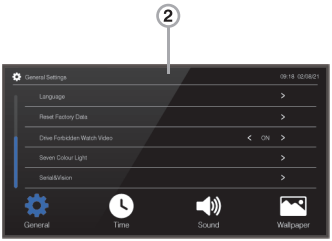
2		Once in the Sound Settings you can adjust the following: • The volume of the beeping when the screen is touched. • Reversing volume when an exterial camera is fitted. • Speaker balance settings. • Subwoofer Settings. • Volume Control.

3		Once in the Balance Setting you can drag around the cross-hairs centre ⊙ to get the required balance or manually adjust using the Fade & Balance.
		Touch to adjust the prefered acoustic and Graphic Equaliser settings.
		Reset Sound Settings.

General Settings 2

ADJUSTING BASIC SETTINGS & CHANGING TOUCH SCREEN WALLPAPER





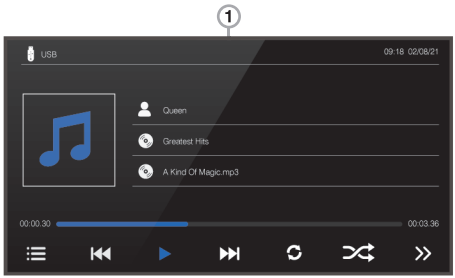
1	⚙	Once in the General settings, simply scroll up and down to access the full customisable settings menu. • Screen Day Brightness • Screen Night Brightness • SWC (Steering Wheel Control Functions) • Radio Area (Location) • RDS (Turn on/off the RDS Display Information)

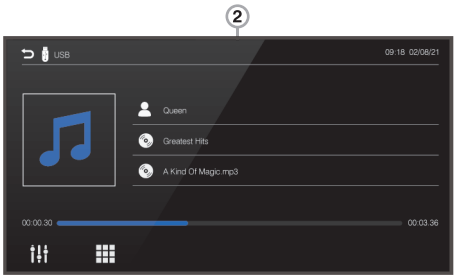
2	⚙ ⚠	• Language • Reset Factory Data **The Stereo will automatically restart back to original factory settings.** • Video Available Whilst Driving • LED Key Colour (Select system colour preference) • Serial & Version (System information)

3	🖼	Once in the Wallpaper Setting simply touch your preference and you will be then prompted to confirm your choice.

USB/SD Card Operation

USING EXTERNAL MEDIA TO PLAY MUSIC & WATCH VIDEO





1		Access the USB/SD data.
		Rewind or hold to play media.
		Play or Pause current media.
		Skip or hold to fast forward.
		Repeat & loop media.
		Shuffle media.
		Move to next screen.

2		Enter equaliser settings.
		Select & lay digitally.

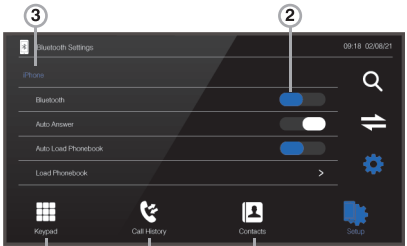
Radio

SETTING AND SAVING RADIO STATIONS

1		Turn on/off TA (Traffic Announcements) & search DX (Distant Signals) & (Alternative frequencies).
2		Search for Radio Stations.
3		Touch to switch Radio bands between FM1, FM2, FM3, AM1 & AM2 or touch the bands themselves.
4		Touch to adjust the prefered Acoustic and Graphic Equaliser settings.
5		Touch to scan through saved stations. Hold to scan for a good signal.
6		Touch to toggle between DX (Distant Reception) & LOC (Line Output Converter).
7		Touch to open the frequency keyboard. Manually input a Radio Station or choose a pre-stored selection.
8		Go To Keyboard.

Bluetooth [1]

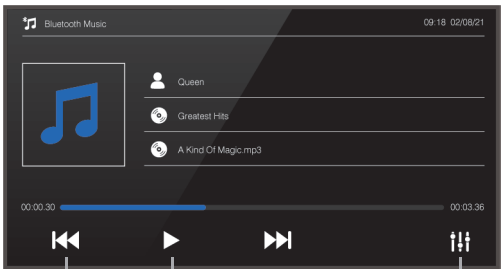
PHONE BLUETOOTH SETTINGS & PAIRING



①		To pair a new device follow these steps: Open Bluetooth phone's on the stereo & ensure your phones Bluetooth is on.
②		Switch on the Road Angel Stereo's Bluetooth. Once your device's detects the Road Angel Stereo, select pairing to the Stereo. You will be prompted to allow the Stereo access to your Contacts.
③		Once connection is successful, you will see your device's name appear here.
④		All your device's contacts will be available here when the Auto Load Phonebook toggle is set to on.
⑤		Touch to access your device's Call History.
⑥		Touch to reveal the keypad where you can manually input a telephone number.
		Do not attempt to connect your device whilst the vehicle is in motion.

Bluetooth [2]

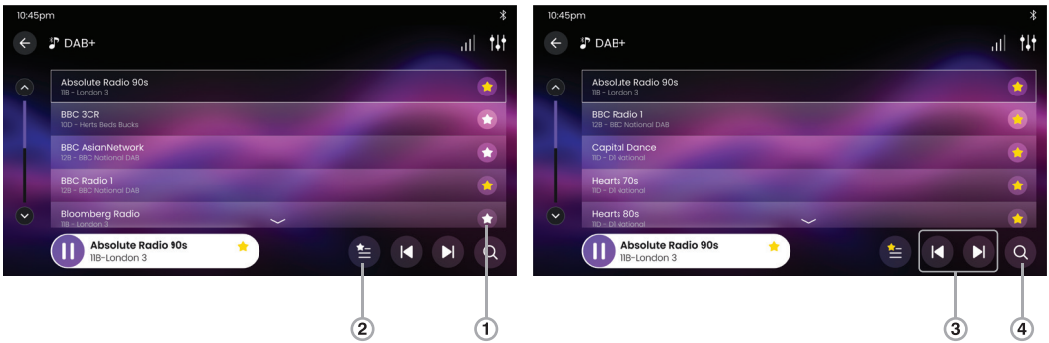
BLUETOOTH MUSIC



①		Follow the Bluetooth pairing instructions on the previous page. Open Bluetooth music on the stereo & ensure your phone's Bluetooth is on.
②		Touch to browse the music available on your connected device.
③		Play and Pause the music.
④		Touch to adjust the prefered acoustic and Graphic Equaliser settings.
		Do not attempt to connect your device whilst the vehicle is in motion.

DAB+

DAB/DAB+ (RA-X721DAB ONLY)



1	★	Favourite - You can save multiple favourites. Just long press the station you want to save as a favourite.
2	☰★	Press “Favourite” and you will see the favorites you have saved.
3	⏮⏭	Go to the next or previous frequency. Long Press to go next available station.
4	🔍	Retune DAB stations

Apple CarPlay

Works with Apple CarPlay

APPLE CARPLAY OPERATING INSTRUCTIONS

1		Connect your device with a lightning cable via the USB port to access the Apple CarPlay screen.
2		Swipe the Apple CarPlay screen left and right to access other available apps.
3	■☰	Touch to access split screen apps.
		You can operate iPhone applications with finger gestures such as tapping, dragging, scrolling, or flicking on the Stereo screen.
	⚠	**Compatible iPhone models: For details about compatibility of iPhone models please visit http://apple.com/ios/carplay.** **The compatible finger gestures vary depending on the application for the iPhone.** **Certain uses of the iPhone may not be legal while driving in your jurisdiction, so you must be aware of and obey any such restrictions. If in doubt as to a particular function, only perform it while the car is parked and the engine is off. No feature should be used unless it is safe to do so under the driving conditions you are experiencing.**

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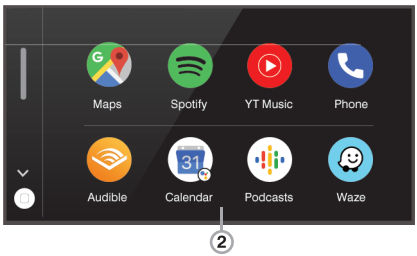
Android Auto

androidauto

ANDROID AUTO OPERATING INSTRUCTIONS



1		Connect your device with a cable via the USB port to access the Android Auto screen.
2		Swipe the Android Auto screen left and right to access other available apps.
		You can operate Android applications with finger gestures such as tapping, dragging, scrolling, or flicking on the Stereo screen.
	⚠	**Compatible Android models: For details about compatibility of models please visit http://support.google.com/androidauto.** **The compatible finger gestures vary depending on the application.** **Certain uses of the Android Auto may not be legal while driving in your jurisdiction, so you must be aware of and obey any such restrictions. If in doubt as to a particular function, only perform it while the car is parked and the engine is off. No feature should be used unless it is safe to do so under the driving conditions you are experiencing.** **For Android Auto to work, you need to ground the pink cable labelled "PARK". Otherwise, Android Auto will not load. This is a built in safety feature common on all aftermarket headunits with Android Auto.**

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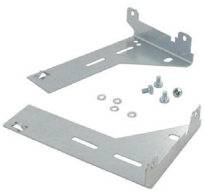
Installation Guide [1]

INTRODUCTION

It is not practical for us to print a full installation guide for every vehicle as there are thousands of variations. We advise this installation is carried out by an experienced car audio installer.

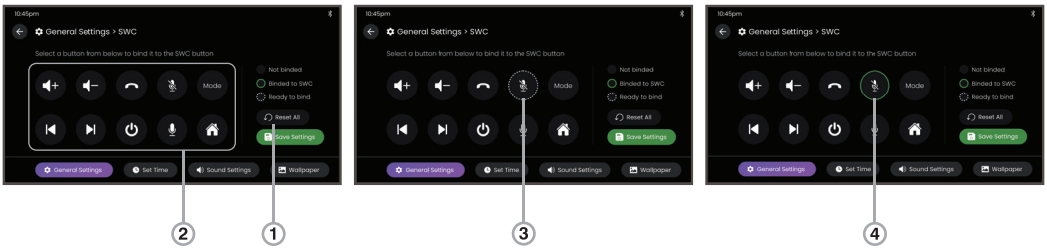
You may need a fitting kit for your vehicle, below is an example of such which fits a VW Transporter T6 2015 2019.
The reason you may need a fitting kit is due to the vehicle specific connects not being ISO connections so they may need adapting. Please consult your local car audio specialist or retailer to obtain such parts



The Road Angel RA-X stereos are standard 2-DIN size and have ISO connections.
This means the stereo will fit any aftermarket parts using ISO components.

Installation Guide 2

STEERING WHEEL CONTROLS



①	↺	Press “Reset All”
②		Press the function you want to program
③	⋯	When the function has a dotted border, press the button on the steering wheel you would like to program.
④	○	The function should display a green border to indicate a successful pairing.
		Quick Tip: Some vehicle command signals to the stereo are weaker than others. If you have trouble mapping controls. Please change the “SWC Resistance” to “High”. This is located in the previous menu.

Installation Guide 3

REVERSING CAMERA

“The Road Angel stereo accepts all reversing cameras with a standard yellow video connector.”

How to connect reverse camera:

①		Connect your reversing camera video feed into “CAM” which is located at the rear of the unit
②		Connect your reversing camera 12V power feed to the +12V Camera cable on the rear of the stereo
③		Connect your reversing camera trigger to the Orange cable on the rear of the stereo

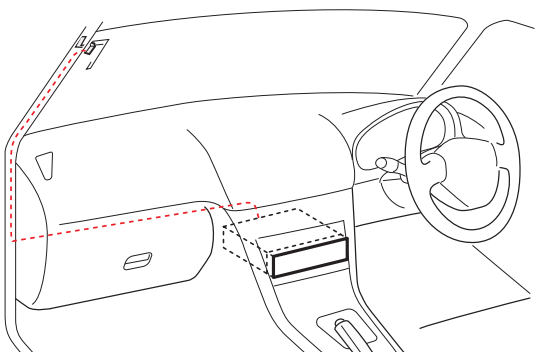
Installation Guide 4

DAB ANTENNA INSTALLATION

Fitting Instructions 1

Mounting and wiring the Road Angel Amplified DAB Antenna requires a degree of skill and experience and we advise it being installed by a professional. If you have problems during the installation, please consult your Road Angel dealer by calling **0330 320 3030.**

The antenna should be installed on the passenger side for safety. The direction of the Windscreen Antenna will change depending on whether the Windscreen Antenna is installed on the right side or left side of the vehicle.



Disconnect the battery's negative terminal before installing the unit.

Installation Guide 5

DAB ANTENNA INSTALLATION

Fitting Instructions 2

Be sure to check the installation location of Vehicle Windscreen Antenna before installing as this cannot be reapplied to the windscreen once removed.

Do not install at the following locations:

- Where it may block driver's view.
- Where it may obstruct operation of safety devices such as air bags.
- On movable glass surfaces.

Signal strength will decrease at the following locations:

- On IR reflecting glass/mirrored glass film and thermal insulated glass.
- Where it overlaps another radio antenna.
- Where it overlaps window heating wires.
- At side/rear of vehicle (door, quarter, rear window).

Reception may decrease due to noise when the wipers, air con, or engine is turned on. It may also decrease depending on the direction of the broadcast station and that of the vehicle (antenna) direction.

It may not be possible to install on some type of vehicles.

Do not bend or damage the Vehicle Internal Windscreen Antenna.

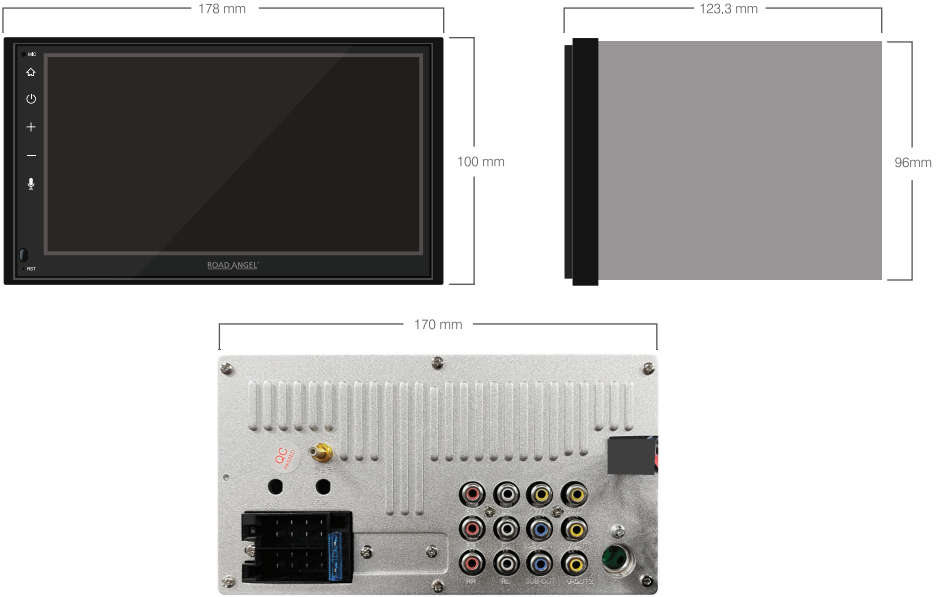
FAQs

FAQs AND TROUBLESHOOTING

Issue/Question	Solution
Unit keeps losing memory	Some vehicles have the permanent and switch live the wrong way. Swap the red & Yellow cable over in the ISO loom at the bullet connection.
Cannot get all steering wheel control functions	Not all functions can be retained when changing to aftermarket stereos. Please change “SWC resistence” to “high” to get the best possible function from the stereo.
Can I add Rear monitors to stereo?	Yes, use the “video out” connector on stereo.
Can I add Rear Camera?	Yes, this unit works with all major branded cameras.
Can I fit it myself?	DIY installation is not recommended. We advise you have this product installed by an experienced technician.

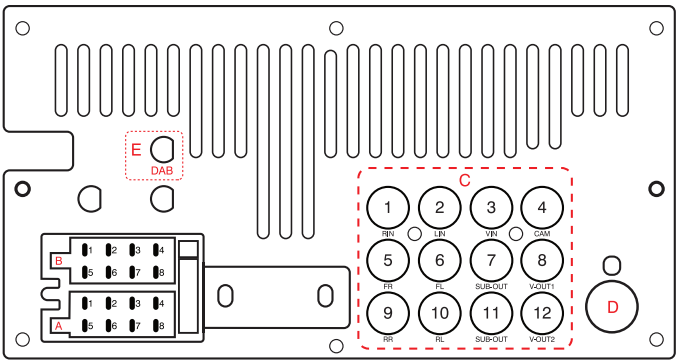
Dimensions

DIMENSIONS



Diagram

WIRING DIAGRAM



Fuse: 15 Ampere

Voltage: 12V DC, Negative Ground

D: Radio Antenna

E: DAB Antenna

ISO Connector					
A	**Color**	**Function**	**B**	**Color**	**Function**
1	Black	SWC-GND	1	Purple	RR+
2	Black	3.5mm Connector for SWC	2	Gray	FR+
5			3	White	FL+
3	Blue	Power Antenna	4	Green	RL+
4	Red	ACC	5	Purple/Black	RR-
6	Yellow	BATT	6	Gray/Black	FR-
7	Orange	ILL	7	White/Black	FL-
8	Black	GND	8	Green/Black	RL-

RCA Connector					
C	**Color**	**Function**	**C**	**Color**	**Function**
1	Red	Audio-IN R	7	Blue	SUB-OUT2
2	White	Audio-IN L	8	Yellow	Video-OUT1
3	Yellow	Video-IN	9	Red	Audio-OUT RR
4	Yellow	Camera-IN	10	White	Audio-OUT RL
5	Red	Audio-out FR	11	Blue	SUB-OUT1
6	White	Audio-out FL	12	Yellow	Video-OUT2

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More Information

MORE INFORMATION

- You can make your Road Angel Wireless Apple CarPlay or Wireless Android Auto with our wireless adapters.

  Scan the below QR codes for more information on these products.

Apple CarPlay Android Auto

- You should consider protecting your vehicle with one of our dashcams.

  Scan the below QR codes for more information on these products.

- Trouble with speeding? Protect your livelihood with our speed awareness devices now!

  Scan the below QR codes for more information on these products.

ROAD ANGEL™

RA-X721DAB & RA-X621BT
DOUBLE DIN AV RECEIVER

Designed, engineered and manufactured by Road Angel Group DB House, Rani Drive, Nottingham, NG5 1RF, United Kingdom RoadAngelGroup.com

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