

Installation Manual

UNIVERSAL
MAXX



Please read this manual before installing this product.

Warranty Details

Thank you for purchasing the UniversalMaxx

Before installing, be sure to thoroughly read these instructions.

Warranty for this product is 2 years from date of purchase, however warranty will be void if:

- The unit is tampered with, damaged or modified in anyway.
- If applicable Reverse camera cable is cut or modified in any way.
- If applicable Reverse camera is subjected to over voltage.
- If applicable the Navigation SD card is damaged or tampered with in any way (this includes installing foreign mapping or software onto the SD card).
- The installation of 3rd party apps that may cause harm to the unit.

Warranty Terms

The UniversalMaxx is covered 2 years and includes:

- Defective Equipment • Defective Cables

Not Covered under warranty:

- Abuse
- Improper installation
- Alteration to Cables (includes cutting of any cables)
- Accidents
- Water damage
- Improper use
- Labour
- Postage and Handling

If you have any questions concerning the installation, warranty or the operation of the unit, please contact **Polaris** on **1300 555 514**.

We hope that you enjoy the UniversalMaxx

Table of Contents

<i>Warranty Details</i>	2
<i>Installation Notes</i>	4
<i>What's in the Box</i>	5
<i>Power harness</i>	5
<i>Wiring diagram</i>	6
<i>Toyota Power Harness (optional extra)</i>	7
<i>Radio Reception for older Toyota vehicles</i>	7
<i>Special Vehicle notes—79 series Radio Antenna Adaptor</i>	8
<i>Mounting the Unit and attaching the screen</i>	9
<i>Reverse Camera Wiring Diagrams</i>	10-11
<i>Additional camera wiring diagram</i>	12
<i>Steering Wheel Controls</i>	13-14
<i>Dimensions</i>	15
<i>Returns Procedure</i>	16

Please note: once the unit is installed you can access your user manual on the head unit or you can download a copy from our website: www.polarisgps.com.au

Also check out our youtube channel **Polaris GPS** for troubleshooting / tutorials

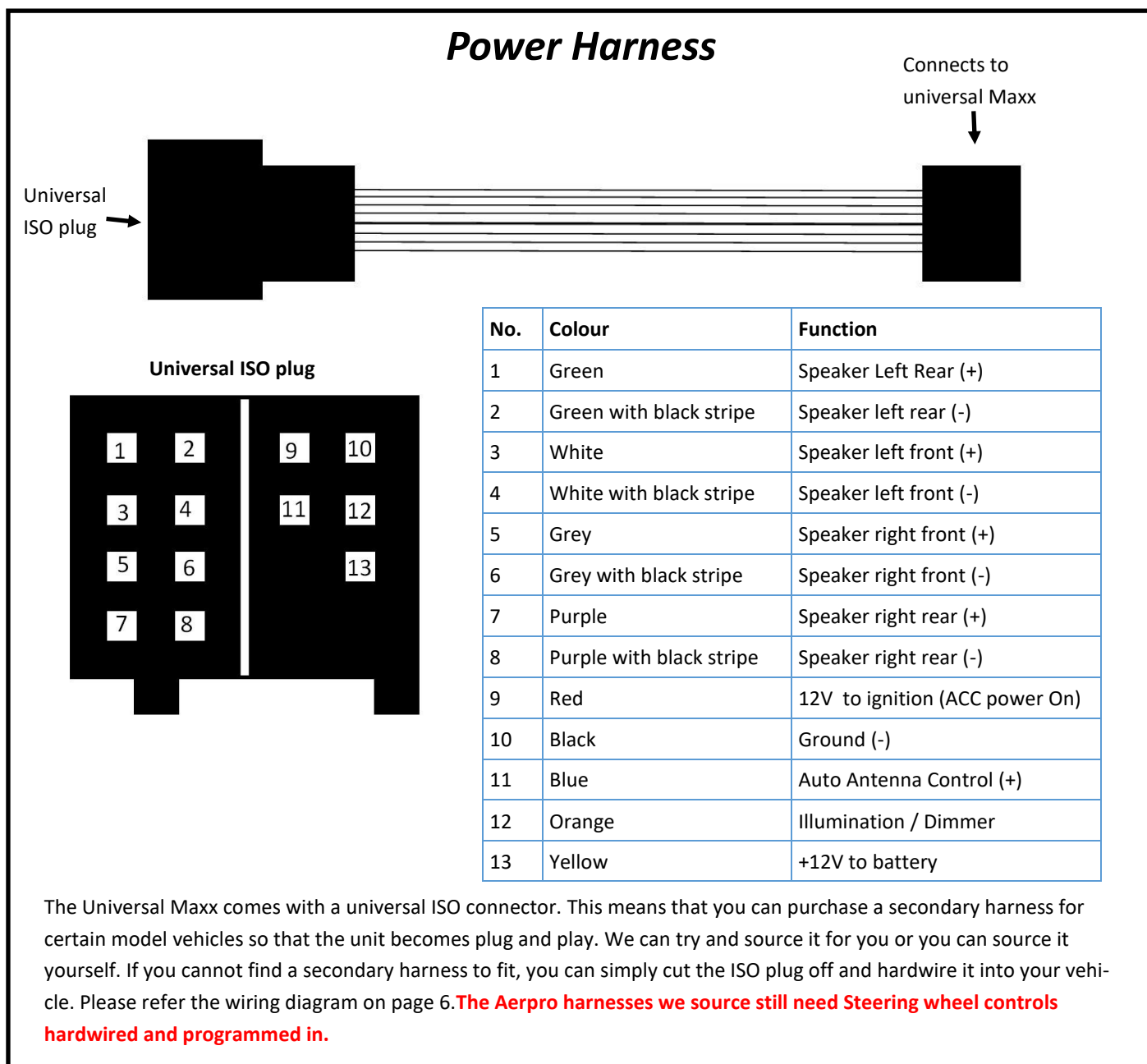
Record your serial number here and keep on hand for future records:

Installation Notes

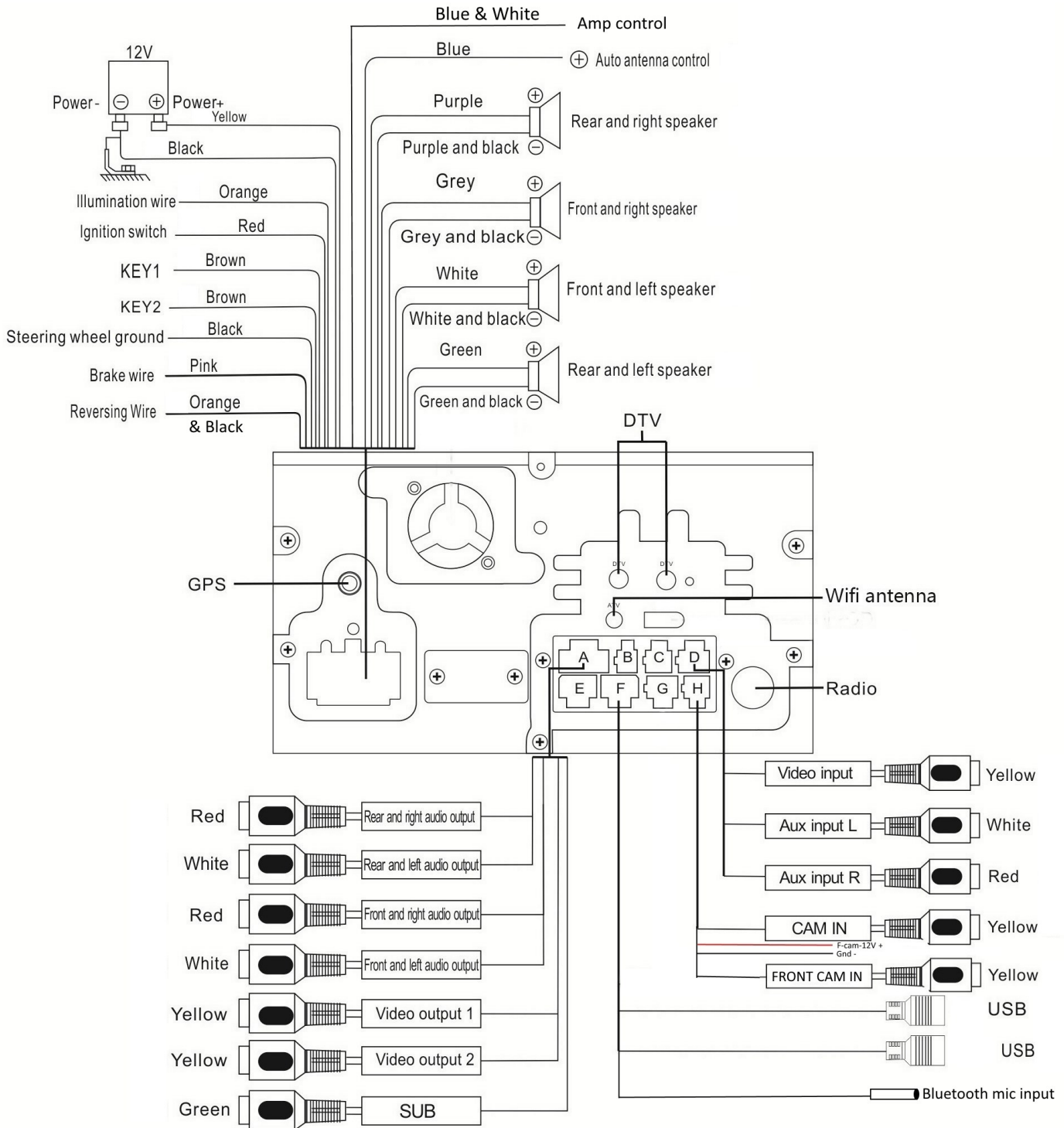
- ♦ The wiring and installation of this unit requires special technical skill and experience. If you do not feel confident installing this product or do not have the level of skill necessary, please contact Polaris on 1300 555 514 so we can refer to a recommended installer.
- ♦ Unfortunately we do not have the colour codes of every vehicle. To find the correct wires to tap in-to, our installers use the following items:
 - Test lamp (to find power).
 - Multimeter (to find steering wheel control wires).
 - 9 volt battery (to find the speaker wires).
- ♦ This unit is designed to be used in a vehicle with a 12 volt battery and a negative grounding. Before installing this unit to a recreational vehicle, bus, or truck, make sure the battery voltage is appropriate for this unit to be used. If installing into a 24Volt vehicle , you will need a 10 amp converter which can be purchased through automotive electronic shops such as Jaycar electronics.
- ♦ To avoid short circuit in the electrical system, ensure that the negative battery cable is disconnected before installation.
- ♦ To avoid possibility of shorting out the electrical circuit in the unit, never connect the battery wire directly to the vehicle battery.
- ♦ Always secure all wirings with cable clamps or adhesive tape to prevent short circuit.
- ♦ Please make sure all wiring connections and speaker wires are well insulated.
- ♦ When pulling the dash apart, please use quality trim tools to avoid damaging your dash.
- ♦ Please do NOT cut any plugs off of any Polaris cameras. Doing so will void your warranty! If you need to blend other brand cameras into our system, please call Polaris on 1300 555 514 so we can refer you to a recommended dealer who has the skill and experience in performing this type of work.
- ♦ Some vehicles will require extra parts such as:
 - Fascia's to make the double din chassis fit nice and neatly.
 - CAN bus modules to retain steering wheel controls or other original features of the car.
 - modules to retain a factory amp.
- ♦ Holden vehicles with MyLink will require a special CAN bus module.
- ♦ Most European vehicles will require a CAN bus module to retain steering wheel controls.
- ♦ If there is something you are not 100% sure about when installing this unit, please give our experienced technicians a call on 1300 555 514.

What's in the Box & Wiring Diagram

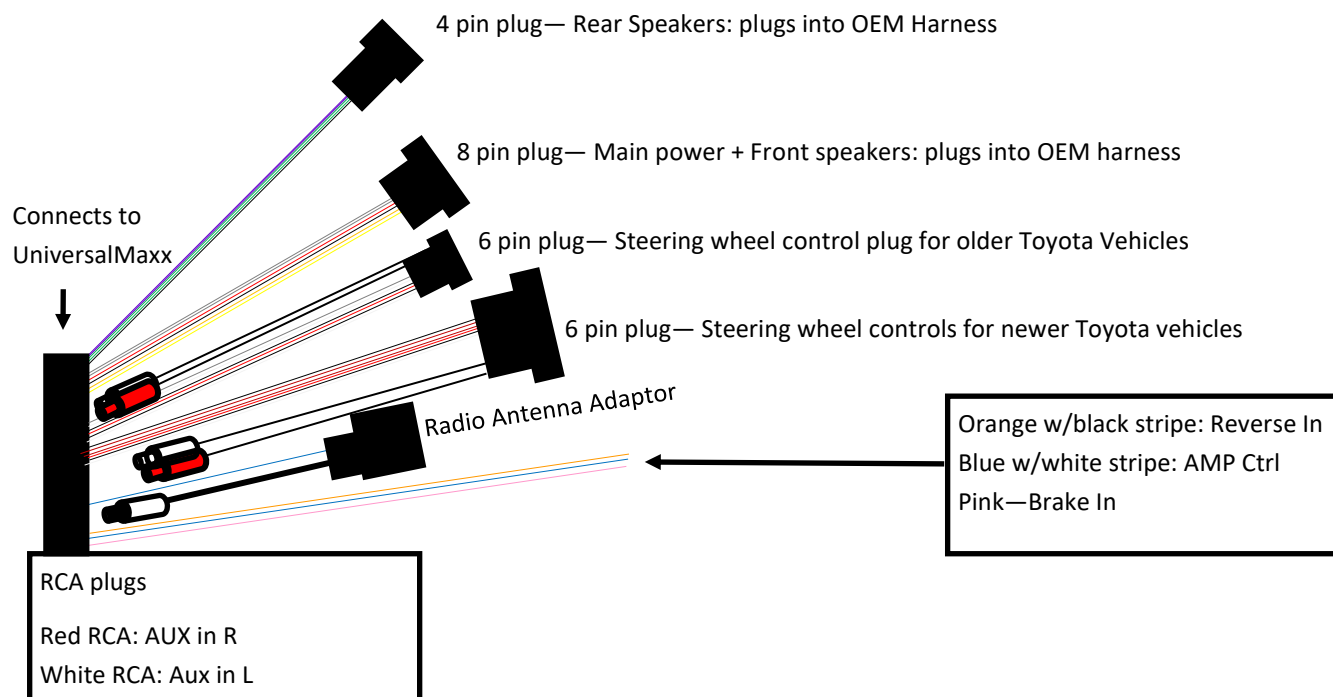
- 1) Universal Maxx Unit.
- 2) Main Power Harness (universal ISO connector)
- 3) GPS External Antenna.
- 4) External Bluetooth Microphone.
- 5) RR,RL,FR,FL Aud Out & SUB / VID out 1&2 cable.
- 6) VID in / AUX L / AUX R cable.
- 7) CAM in / Front CAM IN cable.
- 8) 2 x USB cables / Bluetooth mic input cable.
- 9) Polaris Reverse Camera with RCA adaptor.



Wiring Diagram

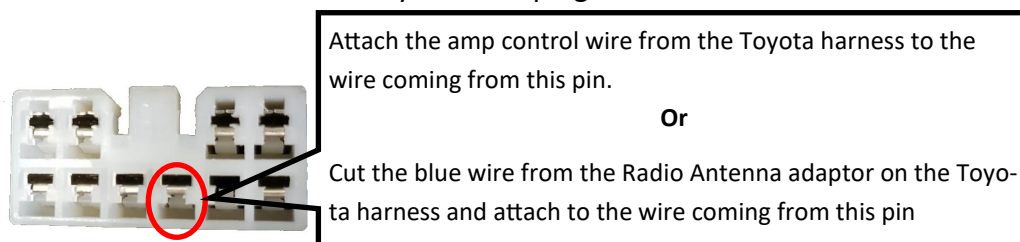


Toyota Power Harness (Optional Extra)



Special Vehicle Notes: Radio Reception for Toyota vehicles with a standard radio connection

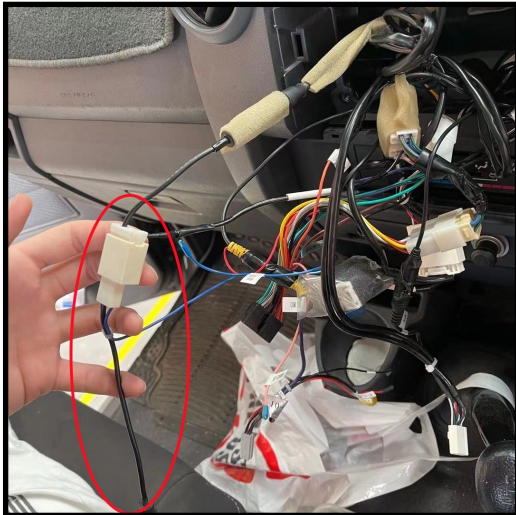
For all Toyota vehicles that use the older style one pin Radio Antenna plug, you will need to attach either the **Antenna control wire** or the **Amp Control wire** (from the Toyota power loom) to the Antenna Control wire on the Toyota OEM plug:



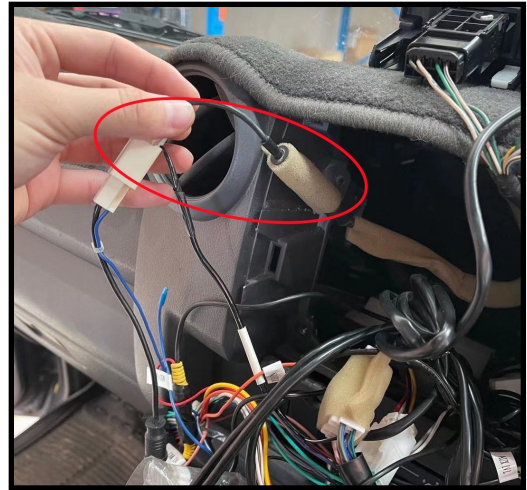
Special Vehicle Notes: 79 Series Radio Antenna Adaptor

The Toyota Landcruiser 79 series has it's own Radio Antenna adaptor plugged into the OEM head unit. If you are using our Toyota Patch harness then this also has an antenna adaptor. We have found Radio interference when the 2 adaptors are plugged together.

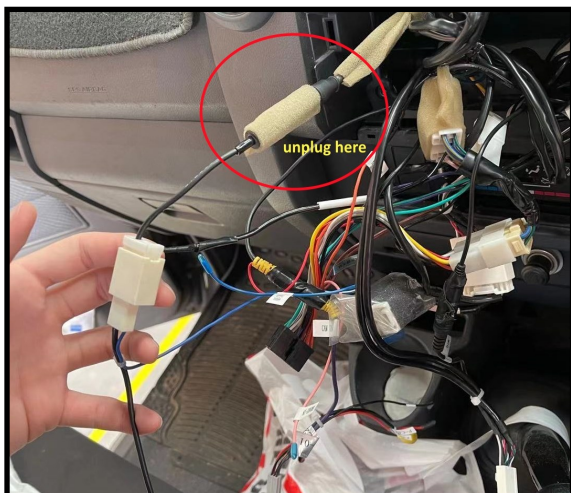
We suggest plugging everything together as normal, then find the Toyota original antenna adaptor and unplug (see photos below).



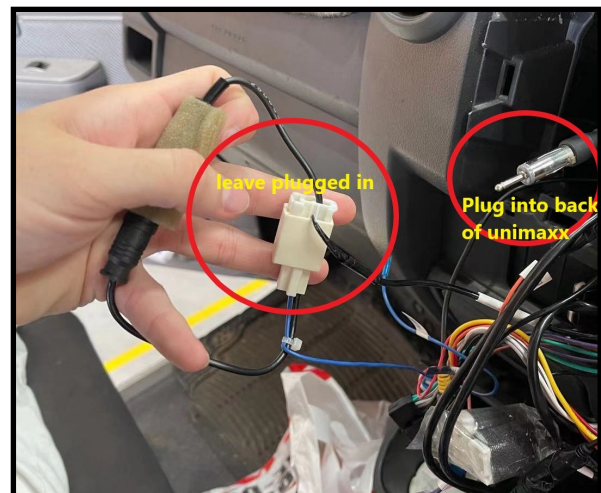
1. Plug the Polaris radio antenna adaptor into the Toyota radio antenna as normal.



2. Find the beginning of the factory antenna adaptor



3. Unplug the factory antenna plug as shown above



4. Plug the original radio plug (OEM) straight into the back of the UniversalMaxx and leave the Polaris antenna adaptor plugged in for Antenna control power.

Mounting the unit

- ♦ The Universal Maxx double din chassis will attach to most vehicle's OEM brackets.
- ♦ Before putting your dash back together it is best to attach the screen and test all functions.
- ♦ Some vehicles will require a fascia to fill the gap around the double din chassis.

Attaching the screen:



- 1) Plug the cable in from the double din chassis into the back of the screen mount (make sure it is plugged in correctly by lining up the locating pin).
- 2) Hold the screen and push the mount into the opening located on the double din chassis.
- 3) The mount should click in place. If you do not hear a click, then it has not attached correctly.

TOUCH SCREEN NOT RESPONSIVE: Once you have attached the screen and powered the unit up, if you find that the touch screen is non responsive, this means that the screen has not been attached properly. To rectify this issue, > turn car off, > try reattaching the screen carefully again > turn car on > grab a small enough device to go into the reset hole > hold in until you see the lights flashing around the buttons and release. This will allow the unit to do a hard reset.

Warning: Once installed, please avoid constant detaching and attaching of the screen as you will cause damage and reduce the life of the Universal Maxx

Wiring Diagram: Reverse Camera

DIAGRAM 1

CONSTANT CAMERA AND TRIGGER

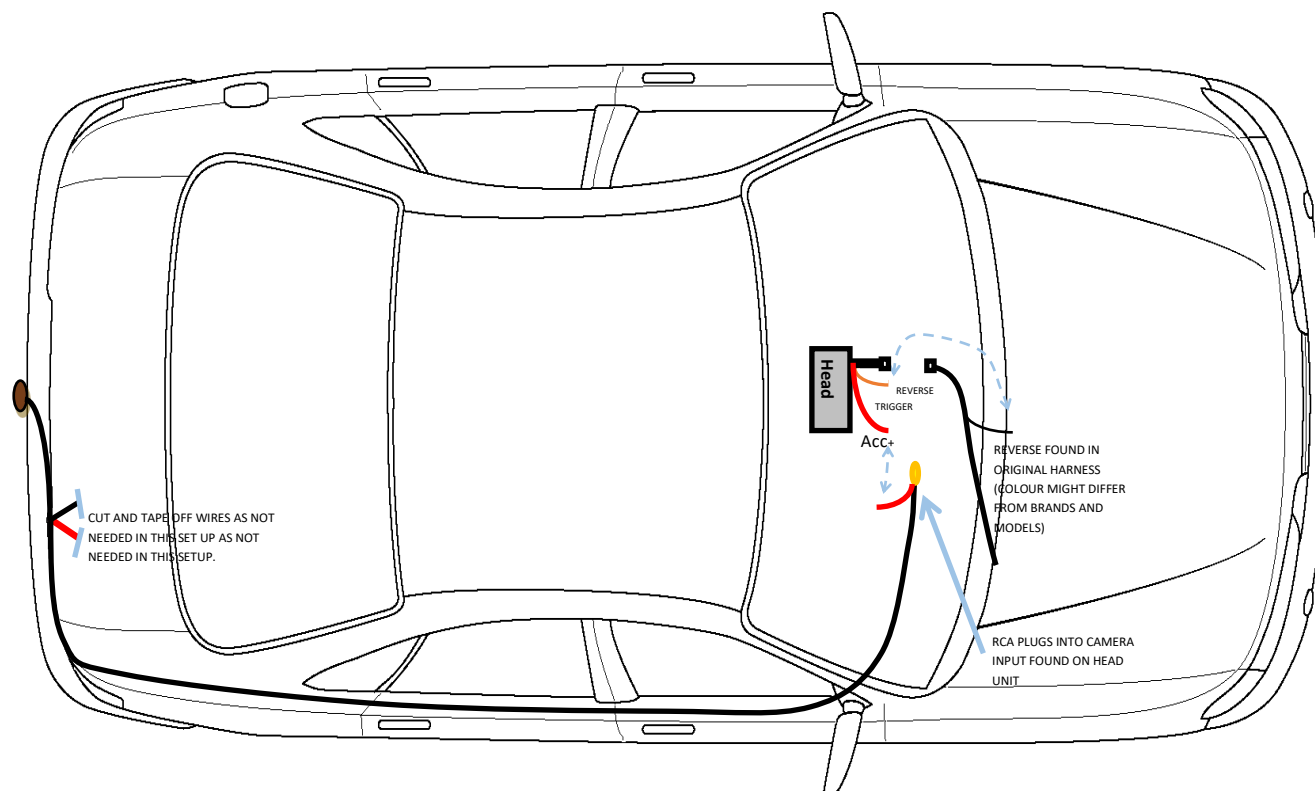
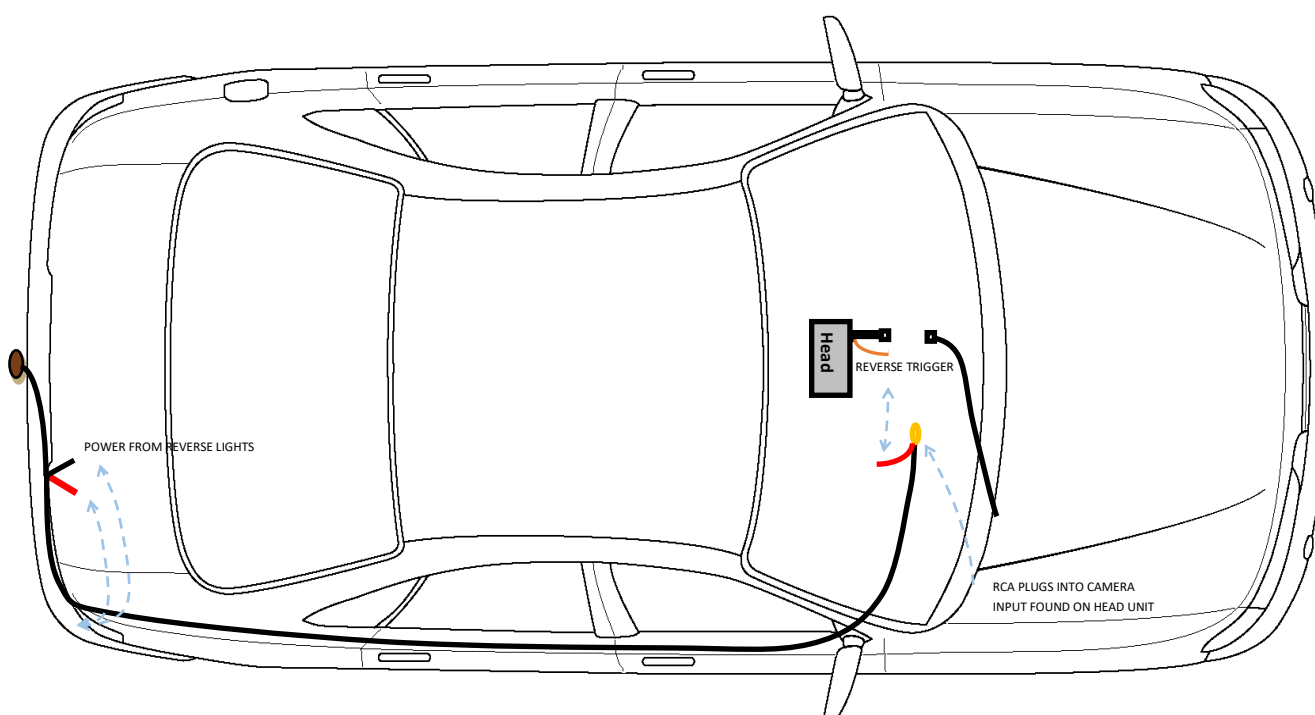


DIAGRAM 2

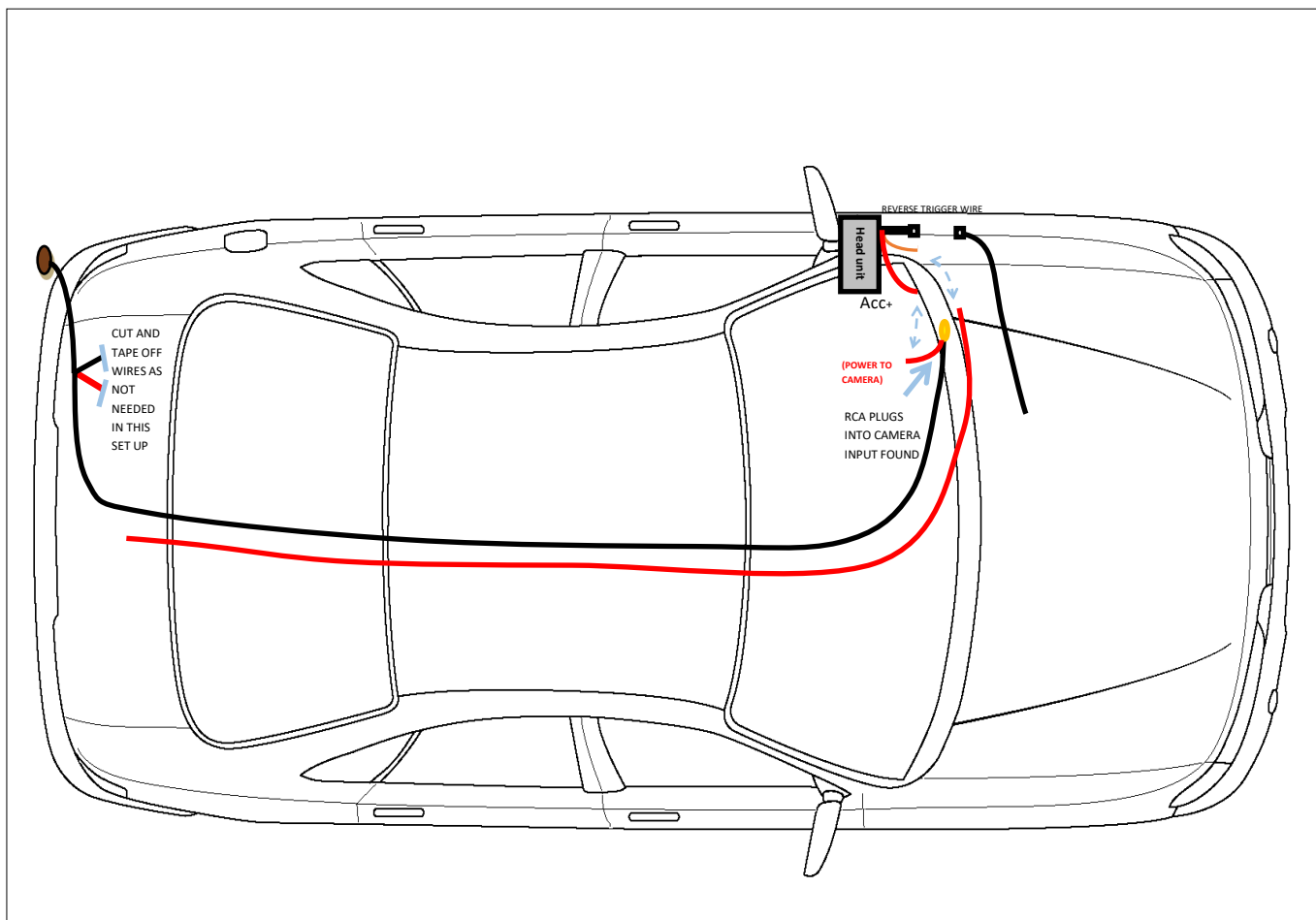
RCA CAMERA WITH REVERSE TRIGGER ONLY



Wiring Diagram: Reverse Camera (cont.)

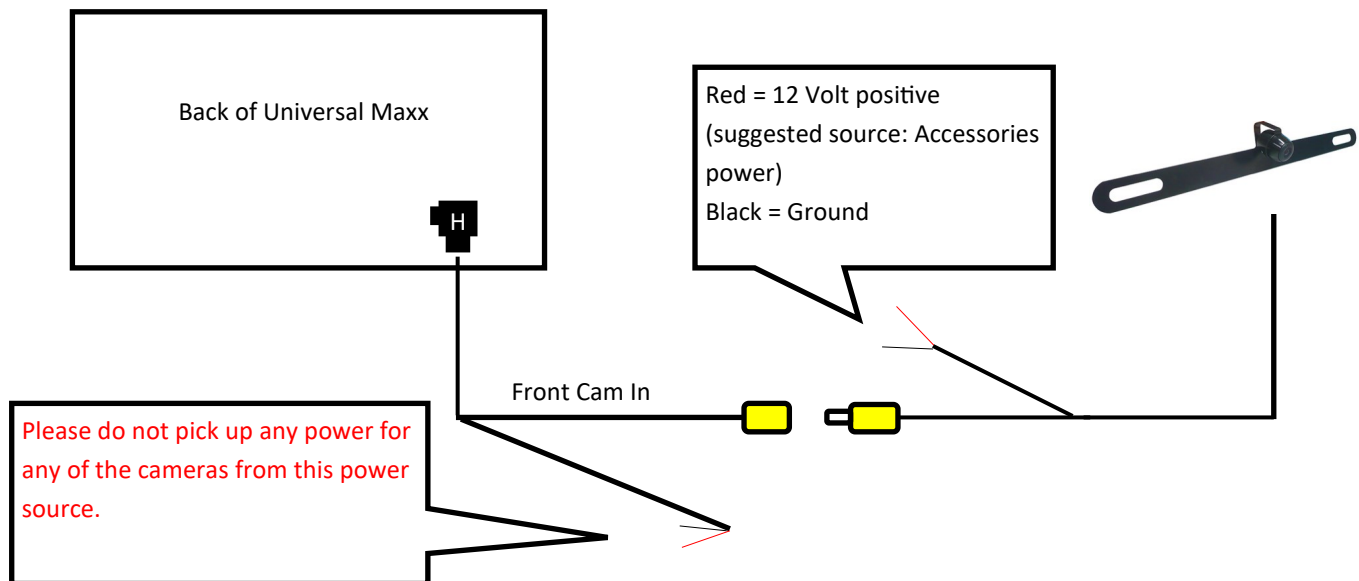
IF NO REVERSE TRIGGER IS FOUND PLEASE FOLLOW THE SECOND DIAGRAM, IF YOU WOULD LIKE A CONSTANT CAMERA AS WELL, A TRIGGER MUST BE BROUGHT FROM REVERSE LIGHT

DIAGRAM 3



Wiring Diagram: Additional Camera

Even though the actual input is labelled as front camera, you can still use this input for a second reverse camera. The actual head unit has an icon on the screen labelled CAM and this can toggle between the 2 cameras installed.



Note: If you are wiring up a front camera and have received either our **number plate** or **miniature camera**, please make sure you cut the control wire to change it from reverse image to a forward facing image. You can also disable the guidelines if you want by cutting the other control wire.

If you are using our **black infrared camera** as a front camera, please remove the cap on the camera lead to change to a forward facing image.

How to view the additional camera

Reverse Gear: When the vehicle is in reverse it will always default to your reverse camera. To switch over to the second camera, press the return touch button on the head unit (See figure 1).

Driving forward: You can access your cameras at any time by selecting the app named CAM (see figure 2). The CAM app will always default to whichever camera is plugged into **Front Camera in**. You can switch over to your reverse camera by selecting the camera icon in the top left hand corner (see figure 3).



Figure 1

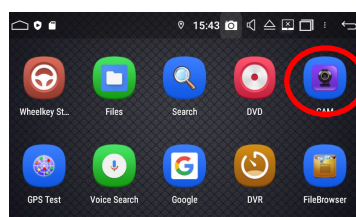


Figure 2

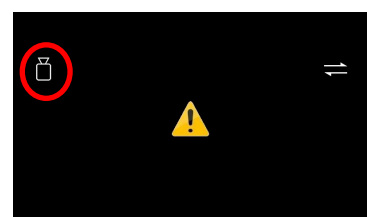


Figure 3

Steering Wheel Controls

Steering wheel controls should work for all non CAN bus vehicles provided that Key 1, Key 2 and steering wheel ground have been hardwired in properly according to your specific vehicle.

Some CAN bus vehicles will work with a specific module, please call Polaris to see if we have a solution for your vehicle.

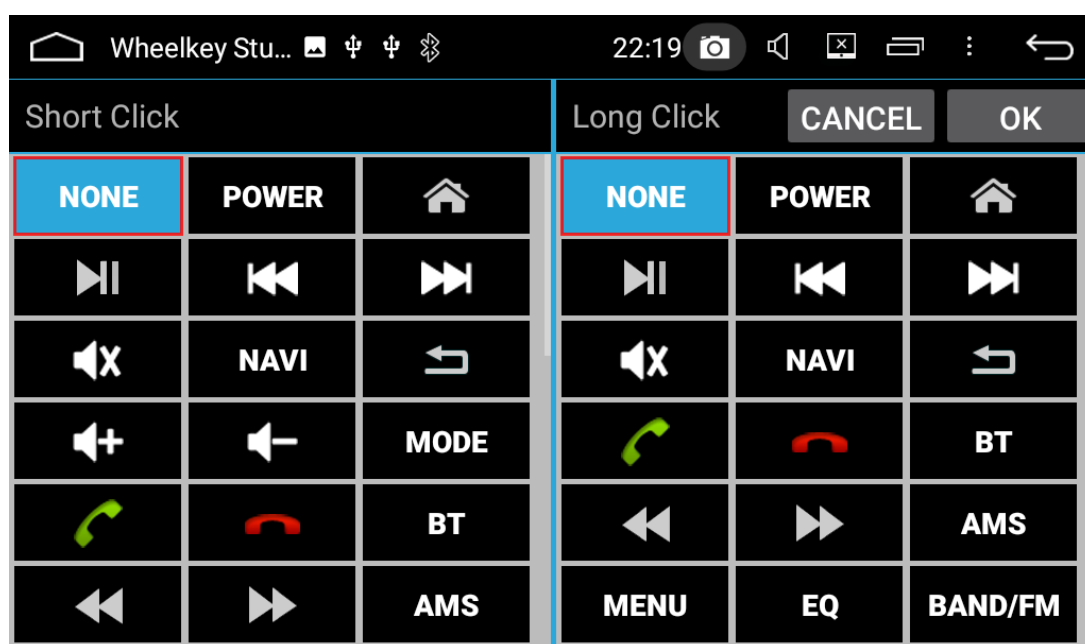
Programming in your steering wheel controls

Select Wheel Key study from the main menu



Select and press one of your steering wheel controls.

Once you have selected one of your steering wheel controls, the following screen will appear:



You can select a different function for short click and long click.

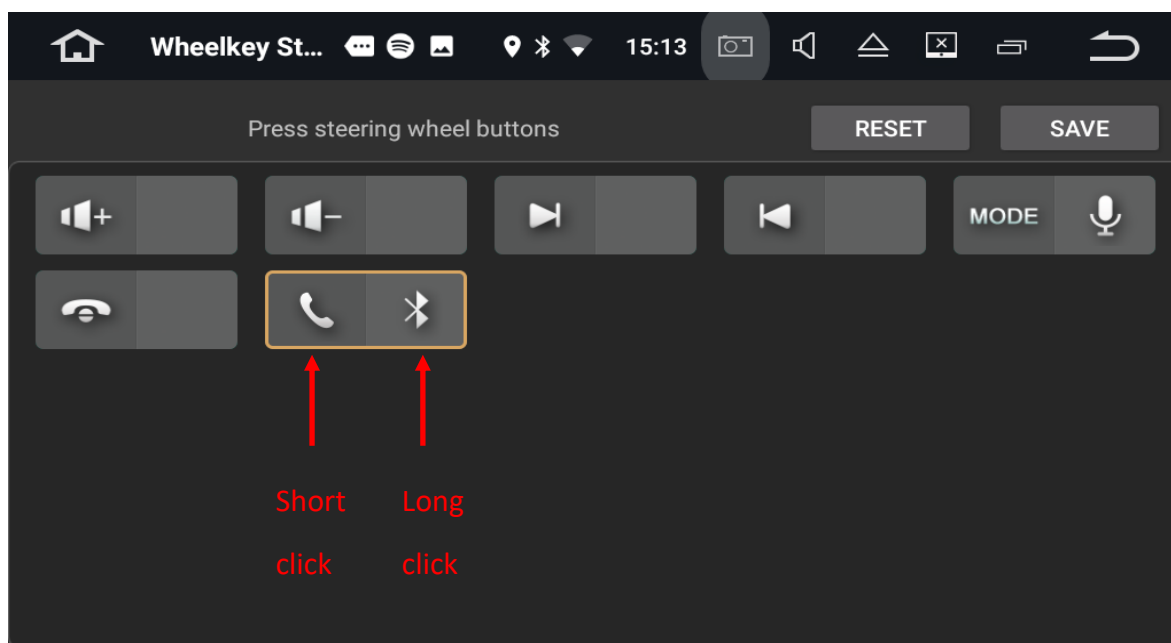
For example, if I have selected my mode button, I can select the mode function as my short click and then I can choose the 'ok google' function for my long click. When I hold down my mode button, 'ok google' will appear.

Once you have your desired settings, press ok in the top right hand corner. You will then be taken back to the SWC Home screen. Select the next steering wheel control that you wish to programme in and follow the same procedure.

Keep repeating the same procedure to programme each individual SWC setting.
































Steering Wheel Controls

Once you have programmed all your steering wheel controls in, your screen should look similar to the one below:

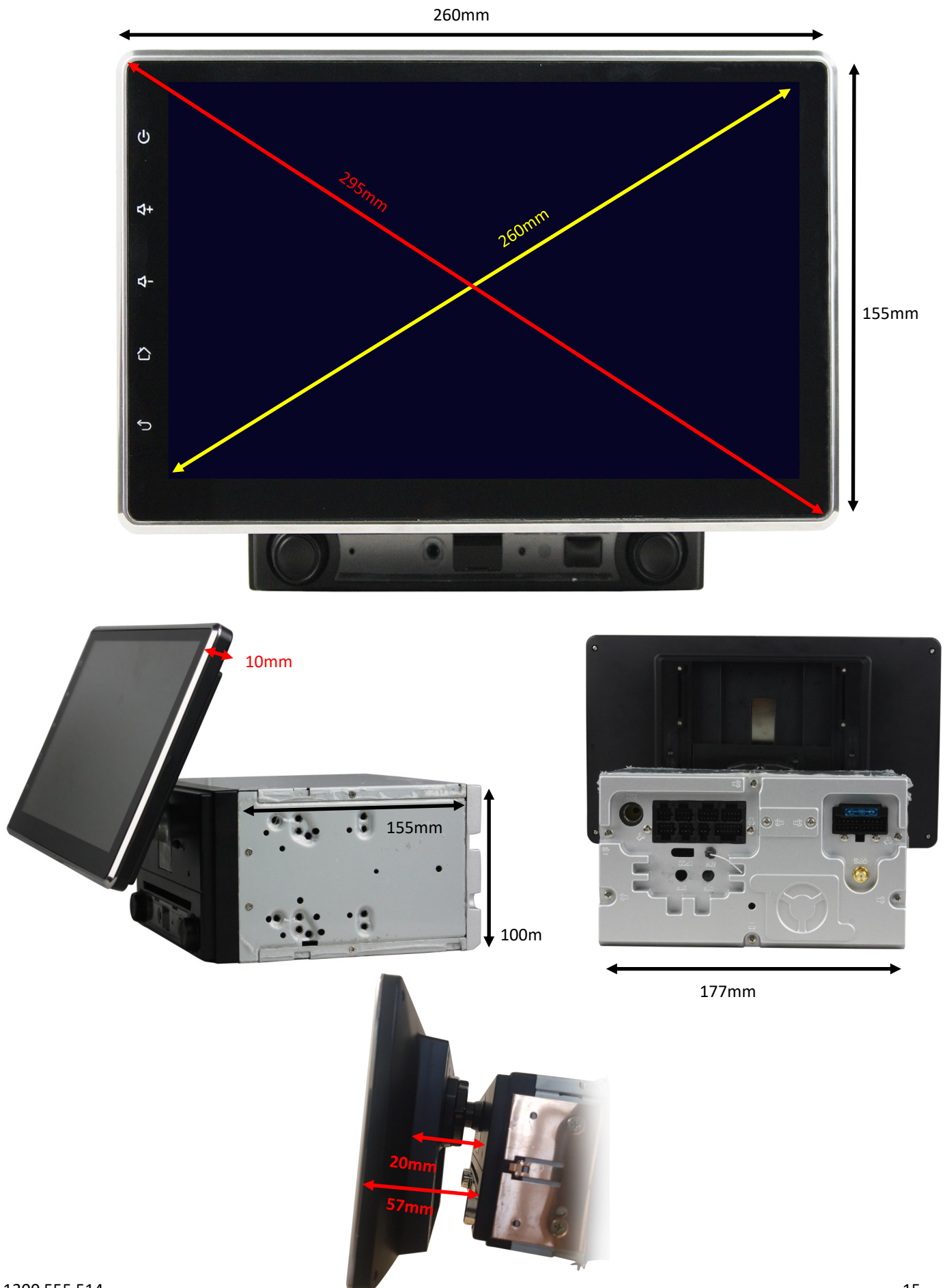


If you have made a mistake or you wish to change the functions you can press **reset** and start the process again. If you are happy then press save. Test all your SWC functions.

Steering Wheel Control functions

	Power/ standby		Answer call		Settings
	Home /main menu		Hang up call		AV in
	Back to previous screen		Brightness control		Equaliser
	Widgets		Ok Google		Radio: Scans through pre-sets
	Volume Up		Stop (music / movies files)		Radio: Scans
	Volume Down		Skip previous		Play / Pause (music / movie files)
	Mode		Skip forward		Radio: Change bands
	Navigation		Rewind		Radio: Seek up
	Radio		Fast Forward		Radio: Seek Down
	Mute		Toggle loud on/off		
	Bluetooth		Sound & Equaliser		

Dimensions



Returns Procedure

Thank you for purchasing a Polaris product.

If you have any enquires or queries, please call Polaris on 1300 555 514.

The warranty on this unit is 2 years from the date of purchase.

If you are having problems with this unit, please refer to your user manual and trouble shooting tips. If the troubleshooting tips haven't helped, please follow steps below:

- 1) Please contact us on 1300 555 514 or email technical@poron.com.au as there may be a quick solution by changing some settings or running a software update.
- 2) If our technician has exhausted all options and determines that the unit needs to be sent back for assessment please visit www.polarisgps.com.au > warranty & returns > returns form. Please print and fill out the return form and include a copy with the goods. For a speedy return process please try and be as detailed as possible when describing the fault.
- 3) Package the item up and send back to:
TO: Polaris
ATTN: Returns
2/12a Distribution Place, Seven Hills, NSW, 2147
We suggest registering the parcel so that you have a tracking number in case the item gets lost in the post.

Polaris
2/12a Distribution Place, Seven Hills, NSW, 2147
Phone: 1300 555 514
www.polarisgps.com.au