# Polaris Android Installation Manual



# **New Era Models**

Thank you for purchasing our product We hope you love it as much as we do.

Please take the time to read these instructions before attempting installation.

We get it—reading an installation manual isn't exactly exciting, and most people skip through it! But if you're keen to give the installation a go without reading the whole thing, we highly recommend checking out pages <u>11</u> to <u>13</u>. We've included key information there to help you avoid common installation issues and get everything set up smoothly.

If you need any help, we have experienced staff on hand to help you, so please don't hesitate to reach out via one of the options below.



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# Warranty Terms

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

- The unit is tampered with, damaged, or modified.
- If applicable, reverse camera cable damaged/modified and/or subjected to overvoltage
- If applicable, the Navigation SD card is damaged/modified
- Installation of 3rd party apps that may cause harm to the unit.

#### Warranty Terms

The Polaris Android Head Unit is covered for 2 years and includes:

• Defective Equipment • Defective Cables

#### Not Covered under warranty:

- · Abuse
- · Improper installation
- · Alteration to Cables and Plugs
- · Accidents
- · Water damage
- · Improper use
- · Labour
- · Postage and Handling

# CONTENTS

<u>Warranty</u>	3
Installation Notes	7
Recommended Tools	8
<u>Glossary</u>	9
If you plan on skipping the manual, at least read this	11
Head Unit Rear Overview	14
Parts & Fly Leads	15
Individual Wires	17
Reverse Camera - Quick Overview	18
Reverse Camera Plug & Settings Guide	19
Polaris Mini Camera Wiring Diagram	21
Polaris Mini Camera Wiring with CANbus module	23
Retaining a Factory Camera	24
POLTY02 & POLTY04 Camera Retention Harness	25
Wiring up an external Amplifier	25
Adding a caravan Camera (or second camera)	26
Toyota Harnesses	27

# CONTENTS

70Maxx/N70Maxx/TOYLUXX/200Maxx10.1	27
PradoMaxx18/200Maxx/Prado14Maxx/HlxMaxx	30
PradoMaxx18/HlxMaxx - post 2020 models	34
Toyota CANbus settings	37
Toyota LC 79 Series NOTES	40
Prado18Maxx NOTES	42
General Toyota NOTES	43
BTMaxx	44
<u>GUMaxx</u>	49
IsuMaxx - Holden Colorado with Mylink	53
IsuMaxx	57
<u>NPMaxx</u>	61
Universal Luxx	69
<u>VWMaxx</u>	74
Over The Air Updates	81
How to connect Carplay / Android Auto - VIDEO	82
How to program steering wheel controls - VIDEO	83

# CONTENTS

Dmax/BT50/79LC - how to pull the dash apart - VIDEO	84
Troubleshooting	85
How to change the start up logo	90
How to change the icons at the bottom of the screen	91
OBDII Reader	92
A53 Android Dash Camera	92

# **INSTALLATION NOTES**

- The installation of this unit requires technical skill and experience. If you do not have the level of skill necessary, please phone or email us so we can refer a recommended installer.
- 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.
- To avoid short circuits in the electrical system, ensure that the negative battery cable is disconnected before installation.
- Always secure all wirings with cable clamps or adhesive tape to prevent short circuits.
- To avoid the possibility of shorting out the electrical circuit in the unit, never connect the battery wire directly to the vehicle battery.
- 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.
- Do not cut any plugs or make any alterations to any cables. Doing so will void your warranty. To read more about our warranty terms, see page 3

# **RECOMMENDED TOOLS**



Screwdriver



Drill + Drill bits



Socket Wrench Set



Soldering Iron + Solder



Blade / Cutter



Crimping tool



Voltage Test lamp



Quality trim tool



Spare Electrical Wire



**Electrical Tape** 



Heatshrink



Instructions

# Glossary

**12 Volt ACC+ :** This refers to an accessory feed in your car. Not to be confused with Batt+ (a constant power source). For example, power your camera to a 12-volt accessory feed so that it only receives power when the car is on, rather than wiring it to a battery feed that provides power at all times.

**AHD:** A newer camera signal format that is still analogue but offers higher resolution than CVBS. Stands for Analogue High Definition.

**CANBus**: A system in modern vehicles where multiple functions are powered via a data signal rather than individual wires.

**CANBus Module:** A red/purple/black box that plugs into the Polaris main harness. This module decodes CANBus information, allowing retention of features like steering wheel controls.

**Camera Retention:** The ability to connect your factory camera to the Polaris head unit.

**CVBS:** A camera signal format used in older cameras. Stands for Composite Video Baseband Signal.

Factory Camera: The original reverse camera that came with your vehicle.

**Factory plug:** The factory plugs in your vehicle that are exposed when you remove the original head unit.

**Fakra:** A type of RF connector, commonly used in Europe. Essentially, a specialised type of plug.

**Fly Lead:** Additional cables that come with the head unit, such as camera input cables and CANBus power cables.

Main Harness Camera Plug: The yellow RCA cable labeled "CAMERA" on the Polaris main harness.

**NTSC:** A video standard that determines the frame rate of the camera. NTSC cameras run at 30Hz and 60 frames per second.

**PAL:** A video standard that determines the frame rate of the camera. PAL cameras run at 25Hz and 50 frames per second.

**Polaris AHD Mini Camera:** A small AHD-format camera that typically comes with the Polaris head unit (if applicable).

**Polaris Main Harness:** The primary power harness included with the Polaris head unit. It carries power, speaker signals, illumination control, factory camera input, and more.

**Radio Antenna Adaptor:** If your car does not have the standard 1-pin radio connection, this adaptor converts your original plug into a 1-pin connection, allowing it to connect to the Polaris head unit.

#### **Reverse Feed**

A reverse feed is a function in your vehicle that signals the head unit to display the reverse camera image when the car is put into Reverse gear.

Most modern vehicles provide a reverse feed up the front of the vehicle, typically from the factory harness or kick panel. However, in some older vehicles, the reverse feed must be connected directly to the reverse lights at the rear of the car.

This signal ensures that the camera image automatically appears on the screen whenever you shift into Reverse, enhancing visibility and safety.

# IF YOU READ NOTHING ELSE, READ THIS!

Before putting your dash back together, please check the following:

CANbus Module Power (If applicable)		
	<ul> <li>If your harness includes a CANbus module, ensure it is powered.</li> </ul>	
Essential Harness Connec	ction 🛞 💓Fi	
	<ul> <li>Always plug in the harness that includes Camera Input, VID-Out 1 &amp; 2, and AUX— even if you don't plan on using it.</li> <li>This harness contains your Bluetooth and WiFi antennas. Leaving it unplugged will affect Wireless CarPlay, Bluetooth, and other functions.</li> </ul>	
Polaris AHD Mini Camera		
	<ul> <li>The camera has a RED wire coming out of the yellow RCA plug and ORANGE wires on either end of the extension cable.</li> <li>The RED wire coming from the yellow RCA plug needs to be connected to 12 Volt power (we recommend ACC+ power).</li> <li>The ORANGE wire will NOT power the camera. It is simply a built-in extension cable if you need to pick up a reverse trigger from your reverse lights.</li> </ul>	

# IF YOU READ NOTHING ELSE, READ THIS!

Think of the reverse camera like a lamp:	
	<ul> <li>Plugging in the lamp gives it power, but it won't turn on until you flip the switch.</li> <li>The reverse camera works the same way—newer is supplied via the red wire to a 12V</li> </ul>
	accessory feed, but it also needs a reverse trigger to activate.
Reverse Trigger Setup:	
	<ul> <li>If your Polaris main harness has a CANbus module, it will automatically detect the reverse trigger—no extra wiring needed.</li> <li>If your Polaris main harness does NOT have a CANbus module, you must manually wire the BACK/REVERSE wire (on the main power harness) to a reverse signal in the car.</li> <li>If a reverse feed is available up front, connect the BACK /REVERSE wire to it.</li> </ul>
	<ul> <li>If no reverse feed is available up front, use the orange wires on the extension cable:</li> <li>1. Connect the front <b>ORANGE</b> wire to the <b>BACK/REVERSE</b> wire on the Polaris main harness.</li> <li>2. Connect the rear orange wire to your reverse light positive at the back of the car.</li> <li>This eliminates the need to run a separate wire through the entire vehicle.</li> </ul>

# IF YOU READ NOTHING ELSE, READ THIS!

#### **Retaining a factory Camera**



Even though you're connecting your
 factory camera using the factory plug,
 you still need to connect the Camera RCA
 from the main power harness to the
 correct Camera fly lead.

#### **Camera Settings**



 Please review pages <u>19</u> to <u>20</u> to ensure the reverse camera mode is set correctly according to your camera's format.



1	GPS Antenna	11	4G Antenna +
2	Radio Antenna	12	4G Antenna -
3	CVBS Front Cam input + CANbus module power	13	N/A
4	USB Input - Carplay / Android auto	14	External Mic Input
5	USB Input x 2	15	FR Speaker
6	V1 & 2 Out, AUX, Amp, CVBS Camera input, Wifi & Bluetooth Antenna	16	RR Speaker
7	AHD Front & Rear Camera Input	17	N/A
8	FL Speaker	18	AUX Input
9	RL Speaker	19	SUB-Right
10	SUB - Left	20	Sim card module
21	Main power harness		

External Microphone		
	<ul> <li>We recommend using the external microphone.</li> <li>We recommend mounting the external mic on the drivers side A pillar or on your steering wheel column.</li> <li>We do not support the units using the factory mic.</li> </ul>	
2 USB Inputs		
	<ul> <li>Used for media or manual software updates.</li> <li>Recommend to be placed into the glovebox for easy access.</li> </ul>	
1 USB Input		
	<ul> <li>Used for wired Carplay / Android Auto</li> <li>Recommend to be placed into the glovebox for easy access.</li> <li>Some units may include a USB retention which replaces this cable.</li> </ul>	
AHD Camera Inputs		
	<ul> <li>Mainly used when plugging in AHD cameras</li> <li>Refer to page <u>19</u> to <u>20</u> for detailed explanation</li> </ul>	
Front CVBS Camera Input + CANbus power		
	<ul> <li>CVBS 2nd cam input.</li> <li>CANbus power - plug into matching plug on Polaris main harness (if applicable).</li> </ul>	

CVBS Rear Cam Input, WiFi & Bluetooth Antenna		
	<ul> <li>CVBS Rear Cam input</li> <li>Bluetooth antenna built in</li> <li>WiFi antenna built in</li> <li>Amp Control Wire</li> <li>Important: Plug in this cable even if you don't plan to use it, as it ensures strong Bluetooth and WiFi reception.</li> </ul>	
GPS External Antenna		
	<ul> <li>Mount on your dashboard up near the window with the black part facing the sky.</li> </ul>	
Sim Card Input		
	<ul> <li>Install this if you are wanting to use a sim card with the head unit.</li> <li>You can insert a 5G sim, but it will only pick up 4G.</li> <li>Recommended to mount in glovebox.</li> </ul>	
4G WiFi Antennas		
	<ul> <li>Connect both antennas and mount them. on your dashboard to improve the 4G reception.</li> <li>Both must be connected for proper operation.</li> </ul>	

# **Individual wires**

Some harnesses may have individual wiring, and wire colours can vary. To ensure proper installation, please refer to the tags on the wires:

#### PARK / BRAKE

- If connected to the handbrake, it will disable video playback when the handbrake is released.
- This connection is optional—you don't have to wire it up.

#### AMP-CON

- Can be used to power the radio antenna.
- If you're not using a radio antenna adapter, connect this wire to the pin that controls the antenna to ensure strong radio reception.

## KEY 1 & KEY 2 (Steering Wheel Controls)

- These wires are used to manually wire up steering wheel controls.
- If your harness includes a CANbus module, ignore these wires—the CANbus module will handle steering wheel controls automatically.

## BACK / REVERSE (Reverse Trigger)

- This wire tells the head unit when the vehicle is in reverse.
- If your harness includes a CANbus module, ignore this wire—the CANbus module will provide the reverse trigger.
- If no CANbus module is present, connect this wire to a reverse feed in the car.
  - Most reverse feeds can be found at the front of the vehicle (kick panel or a specific pin in the factory plug).
  - If no reverse feed is available at the front, connect this wire to the orange extension wire built into the Polaris Mini Camera and run the other end to the reverse light positive.
  - Most other cameras do not have this built-in extension wire, meaning you'd need to run a separate cable to the rear—this setup helps avoid that extra work.

#### GROUND

A separate ground wire is rarely included, but if present, ensure it is properly grounded.

If you have a CANbus module, ignore this wire as grounding is handled through the module.

## **Reverse Camera**

#### **Camera Input & Settings Overview**

- The head unit has four camera inputs, but not all can be used simultaneously due to AHD and CVBS input requirements.
- The next page outlines common setups, including which input to use and the required settings.

#### Pre-set Camera Settings:

- If we provide a camera, we will try to pre-set the correct settings before shipping.
- Factory cameras will also have settings pre-configured where possible.

#### Popular Camera Types & Formats:

- Polaris AHD Cameras: AHD 1080P 30Hz
- Polaris CVBS Cameras: CVBS NTSC
- Factory Cameras: CVBS NTSC

#### Safety Dave Caravan Cameras:

- Pre-Jan 2023: CVBS NTSC
- Post-Jan 2023: AHD 1080P 30Hz

The next few pages provide detailed overview of reverse camera setups, including diagrams and settings.

# **Reverse Camera Plug Guide**

Your unit has three separate camera fly leads. The camera plug you use depends on your camera format, and you will need to adjust settings on the head unit accordingly. To access these settings Go into **Settings > Reverse Mode** 

#### 1-2 x AHD Cameras (30Hz 1080P) Connect the reverse camera to the AHD **REAR CAMERA** input on the fly lead. Connect the 2nd camera to AHD FRONT CAMERA channel AHD comere forma BEF THD 3012 input on the fly lead. 3 - 4 AHD Cameras (30Hz 1080P) Connect the reverse Revenie widen innut camera to the AHD REAR **CAMERA** input on the fly lead. Connect the 2nd camera to AHD FRONT CAMERA input on the fly lead. Connect your other cameras to The LEFT & **RIGHT CAMERA** input on the fly lead. Retaining Factory Camera (CVBS NTSC) Connect the factory camera plug into the Reverse video input Polaris Main Harness. CVBS camera • Plug the CAMERA RCA 4 channel AHD camera from Polaris main harness O AHD front rear record into the CAMERA Input on the fly lead.

# **Reverse Camera Plug Guide**



You **CAN NOT** use a CVBS camera as a reverse camera while using an AHD camera as a second camera. The second camera must also be CVBS. Alternatively, both cameras can also be AHD.



# **Polaris AHD Mini Camera**



- 1. Plug in the Camera Connect the camera into the CAM 1 camera input
- Power the Camera Connect the RED wire from the camera's RCA plug to an accessory power source (12V ACC+).
- 3. Connect the Reverse Trigger Locate the "BACK/REVERSE" wire on the main power harness and connect it to a reverse signal from your vehicle. This tells the head unit when you shift into reverse.
- 4. Alternative Reverse Signal for Older Vehicles If your vehicle doesn't have a reverse signal at the front, use the orange wire on the camera extension cable to connect to your reverse lights at the rear.
- 5. **Test the Camera** Shift into reverse and make sure the camera displays properly on the screen.

# **Mini Camera Control Wires**

**BLUE: AHD/CVBS:** Cut this wire to convert the camera to a CVBS signal (note: camera image quality will decrease slightly).

**GREEN: Image Control:** Cut this wire to mount the camera on the front of the vehicle and change the reversed image to a front-facing image.

**WHITE: Guidelines:** Cut this wire to remove the guidelines from the camera display.

# Still confused about camera power and reverse trigger?

## Lamp Analogy:

- Imagine you have a lamp (**THE CAMERA**) plugged into the wall and turned on.
- The lamp has POWER, but without someone flipping the light switch (REVERSE TRIGGER), the lamp (the head unit display) won't know to turn on.
- The reverse trigger is like the light switch—it tells the head unit when it's time to switch to the camera feed, even if the camera itself already has power.
- If you have powered the camera to 12 volt+ Accessories, you can also manually **"switch"** it on via the Cam app on the head unit.





**POWERING** the camera to **12 VOLT ACC+** is like plugging a lamp into a wall

Wiring up the **BACK** wire from the Polaris main harness to a **REVERSE FEED** in the car is like switching the lamp on

# Polaris AHD Mini Camera with CANbus module



- 1. Plug in the Camera Connect the camera into the AHD REAR camera input.
- 2. Power the Camera Connect the RED wire from the camera's RCA plug to an accessory power source (12V ACC+).
- 3. Reverse Trigger Handling If your head unit includes a CANbus module, it will automatically manage the reverse signal.
- 4. Power the CANbus Module Make sure you have powered the CANbus module by plugging together 2 white plugs (one is located on the Polaris main harness and the other is located on one of the fly leads).
- 5. Check Settings After installing and powering on the unit, confirm that the camera input and format are set correctly: Settings > Reverse Mode > Reverse Video Input: AHD Front Rear Record. Format : 1080 FHD 30Hz
- 6. **Test the Camera** Shift into reverse and make sure the camera displays properly on the screen.
- 7. If you have **multiple cameras**, please see pages <u>19</u> to <u>20</u> to ensure the correct settings are adjusted.

# **Retaining a factory camera**



- 1. Connect the Factory Camera Plug the factory camera plug into the corresponding plug on the Polaris main harness.
- Locate the CAMERA RCA on the Polaris Main Harness Find the correct CAMERA RCA connector on the Polaris main harness. It should be connected to the factory camera plug you just connected.
- 3. Connect the CAMERA RCA Plug the CAMERA RCA from the Polaris main harness into the designated Fly lead CAMERA RCA input.
- 4. Reverse Trigger Handling If your head unit includes a CANbus module, it will automatically manage the reverse signal.
- 5. Isuzu Dmax / MUX 12-20 models The main power harness does not have a CANbus module, however the factory plug has it's own dedicated Reverse trigger plug. As long as you have connected this, then the camera should trigger when in reverse.
- 6. Power the CANbus Module Make sure you have powered the CANbus module by plugging together 2 white plugs (one is located on the Polaris main harness and the other is located on one of the fly leads).
- 7. Adjust Settings After installation and powering on the unit, check the settings to ensure the camera input and format are correctly configured:
   Settings > Reverse mode > Reverse Video Input > CVBS camera.
- 8. Test the Camera Shift into reverse and verify that the camera image appears correctly on the screen.
- 9. If you have **multiple cameras**, please see pages <u>19</u> to <u>20</u> to ensure the correct settings are adjusted.

# Toyota Camera Retenion Harness: POLTY04 or POLTY02



- 1. Connect the Factory Camera: Plug the factory camera plug into the POLTY02 / POLTY04.
- 2. Connect the Camera RCA: Connect the CAMERA RCA from the retention harness to the CAMERA RCA on the fly lead.
- 3. Purple Wire: Wire up to a 12 volt Accessory feed to power the camera
- 4. Black Wire: Ground the black wire.
- 5. **Connect up the Reverse trigger:** Locate the **BACK/REVERSE** wire on the main harness and wire up to a reverse feed in the vehicle.
- 6. Check Camera Settings: Make sure the head unit is set to the correct format: Settings > Reverse mode > Reverse Video Input> CVBS Camera.

# Wiring up an External Amplifier

• Your amplifier must be powered by the head unit. Make sure you have connected your amp wire to the amp control wire located on the plug below.



# Adding a caravan camera (or second camera)



 Please refer to page <u>19</u> to <u>20</u> to ensure the cameras are plugged into the correct plug & changed to the correct settings depending on the camera setup.

# Toyota Harnesses

# Model No. TOY001 (No CANbus module)



#### Commonly used for



## About

- Included in the 70Maxx, N70Maxx, Toyluxx, 200Maxx10.1.
- Classified as a universal Toyota harness, it seamlessly connects with various Toyota vehicles.
- Connection features:
  - Primary power integration
  - Speaker compatibility
  - Steering wheel control support
  - Built-in radio antenna for applicable Toyota models
- Note: Depending on your vehicle, not all plugs may be utilised.
- Please be aware that this harness does not support factory camera retention.
- The absence of a CANbus module means that steering wheel controls must be programmed manually
- Connect the reverse trigger wire to a <u>reverse trigger source</u>, either within your Toyota plug or from your <u>reverse lights.</u>

Main Power & Speakers	
	<ul> <li>Covers main power &amp; speakers for most Toyota vehicles.</li> </ul>
Steering Wheel Controls	
	<ul> <li>Depending on which Toyota model you have, one of these will be used for steering wheel controls.</li> <li>You will have leftover plugs that are not used.</li> </ul>
	• You will need to manually program your steering wheel controls.
Radio Antenna Adaptor	
	<ul> <li>Some Toyota models require this radio antenna adaptor, while others do not (70maxx please see page <u>41</u>).</li> </ul>
Polaris AHD Mini Camera	
	<ul> <li>Please see page <u>21</u> for Reverse Camera wiring and page <u>19</u> for correct settings.</li> </ul>

#### **Other Parts**



• See page <u>15</u> for the other parts that come with the head unit.

## Camera, V-Out 1& 2, AUX-V Cable



- Please plug this cable in even if you do not plan on using it.
- It has the Bluetooth & WiFi Antenna built into the plug.
- Failure to do so will affect Wireless Carplay & bluetooth functionality.

# Model No. TOY002



#### Commonly used for









PradoMaxx18

200Maxx

Prado14Maxx

HIxMaxx

#### About

- Toyota harness typically included with:
  - Prado Maxx 18 (18-20), 200Maxx, Prado14Maxx & HlxMaxx (15-20)
- Covers:
  - Power
  - Speakers
  - Steering wheel controls
  - Factory camera retention (some Toyota models)
  - Radio antenna adaptor
  - CANbus module (communicates with the vehicle, powers reverse trigger and SWC without manual programming)
- Note: Depending on your model, not all plugs will be used.

Main Power & Speakers		
	<ul> <li>Covers main power &amp; speakers for most Toyota vehicles.</li> </ul>	
Steering Wheel Controls		
	<ul><li>Reverse Trigger</li><li>Steering Wheel Controls</li></ul>	
Retain Factory Camera		
	<ul> <li>The 6-pin plug is typically used for the factory camera.</li> <li>Don't forget to plug the CAMERA RCA on the Polaris main harness into the CAMERA PLUG fly lead.</li> </ul>	
Radio Antenna Adaptor		
	<ul> <li>Connect the white radio antenna plug to the factory plug, then insert the 1 DIN radio antenna into the back of the head unit.</li> </ul>	

CANbus Module		
	<ul> <li>Reverse trigger</li> <li>Steering wheel controls</li> <li>Display vehicle information</li> </ul>	
	• Don't forget to power the module.	
Polaris AHD Mini Came	era	
	<ul> <li>Not retaining a camera and installing our mini camera? Please see page <u>23</u> for the wiring diagram and page <u>19</u> for the settings.</li> </ul>	
Other Parts		
	<ul> <li>See page <u>15</u> for the other parts that come with the head unit.</li> </ul>	

## Camera, V-Out 1& 2, AUX-V Cable



- Please plug this cable in even if you do not plan on using it.
- It has the Bluetooth & WiFi Antenna built into the plug.
- Failure to do so will affect Wireless Carplay & bluetooth.

# Model No. TOY003



#### Commonly used for





HIxMaxx

#### About

- Toyota harness typically used for
  - Prado Maxx 18 (2020+), Toyota Hilux 2020+
- Covers:
  - Power
  - Speakers
  - Steering wheel controls
  - Factory camera retention
  - Radio antenna adaptor
  - CANbus module (communicates with the vehicle, powers reverse trigger and SWC without manual programming)
- Note: Depending on your model, not all plugs will be used.

Main Power & Steering Wheel Controls	
	<ul><li>Main power</li><li>Steering Wheel Controls</li></ul>
Illumination, Ignition, Fa	ctory Reverse Camera
	<ul> <li>Illumination</li> <li>Ignition Feed</li> <li>Factory Reverse Camera</li> <li>Don't forget to plug the CAMERA RCA on the Polaris MAIN HARNESS into the CAMERA PLUG fly lead.</li> </ul>
Speakers	
	Factory Speakers
Radio Antenna Adaptor	
	<ul> <li>Connect the white radio antenna plug to the factory plug, then insert the 1 DIN radio antenna into the back of the head unit.</li> </ul>

CANbus Module	
	<ul> <li>Reverse trigger</li> <li>Steering wheel controls</li> <li>Display vehicle information</li> </ul>
	<ul> <li>Don't forget to power the module</li> </ul>
Other Parts	
<b>-? ? ? ?</b>	<ul> <li>See page <u>15</u> for the other parts that come with the head unit.</li> </ul>
Camera, V-Out 1& 2, AUX-V Cable	
	<ul> <li>Please plug this cable in even if you do not plan on using it.</li> <li>It has the Bluetooth &amp; WiFi Antenna built into the plug.</li> <li>Failure to do so will affect Wireless Carplay &amp; bluetooth.</li> </ul>
## Polaris AHD Mini Camera



 Not retaining a camera and installing our mini camera? Please see page <u>23</u> for the wiring diagram and page <u>19</u> for the settings.

# **CANbus Settings**

#### **CANbus Module Settings**

Your CANbus module should be pre-set out of the box but in the case of a factory reset or any other reason, please see below the CANbus settings for different Toyota head units:

#### How to Access CANbus settings

You can access all CANbus settings in the **CAR** app on the head unit. Within the **CAR** app, you can:

- Configure the CANbus module.
- Reassign steering wheel control buttons if they are incorrectly mapped.
- Enable 360-degree cameras (if supported).
- Access various other features provided by the CANbus module based on your vehicle's capabilities.

#### 200Maxx - 200 Series 2015-2022 GXL

• Set the module as SIMPLE > Toyota > 16-18 Landcruiser 200

#### Hilux Maxx - Hilux 15-25 (no 360 degree cameras)

- Set the module as SIMPLE > Toyota > 16-20 Hilux
- Go into Car Settings > General Settings > Find an option that says Signal Shield and make sure it is turned ON.

#### Hilux Maxx - Hilux 15-25 (360 degree cameras)

• Set the module as **SIMPLE > Toyota > 16-20 Hilux** 

#### Go into Car Settings > General Settings

- Turn on Panoramic View
- Turn on Original 360
- Select Right View Function > Select OFF
- Find an option that says signal shield and make sure it is OFF

Prado14Maxx - Prado 14-17 (no 360 degree cameras)

- Set the module as SIMPLE > Toyota > 14-17 Landcruiser Prado
- Go into Car Settings > General Settings > Find an option that says Signal Shield and make sure it is turned ON

#### Prado14Maxx - Prado 14-17 (360 degree cameras)

• Set the module as SIMPLE > Toyota > 14-17 Landcruiser Prado

Go into Car Settings > General Settings

- Turn on Panoramic View
- Turn on Original 360
- Select Right View Function > Select OFF
- Find an option that says signal shield and make sure it is OFF

#### PradoMaxx18 - Prado 18 -23 (no 360 degree cameras)

- Set the module as SIMPLE > Toyota > 18-20 Landcruiser Prado
- Go into Car Settings > General Settings > Find an option that says Signal Shield and make sure it is turned ON

### PradoMaxx18 - Prado 18 -23 (360 degree cameras)

• Set the module as SIMPLE > Toyota > 18-20 Landcruiser Prado

#### Go into Car Settings > General Settings

- Turn on Panoramic View
- Turn on Original 360
- Select Right View Function > Select OFF
- Find an option that says signal shield and make sure it is OFF
- Go into Car Settings > General Settings > Temp Display Swap > Turn on

## **79 Series Notes**

- When removing the original fascia, cut off 4 lugs (Figure A), which are unnecessary for reinstallation (applicable to 70Maxx only)
- The 79 series includes its own Antenna Adaptor (refer to page 25 for optimal radio reception).
- If installing a camera, wire the BACK/REVERSE wire to the cable that attaches the pin circled (see Figure B).



BEFORE



Figure A.



Figure B.

# 2010+ 79 Series notes

• The 79 series comes with a factory-installed Radio Antenna Adaptor, rendering the additional factory antenna adaptor unnecessary. Locate the factory radio antenna adaptor, unplug it, and you'll notice it has a standard 1 DIN radio connector. Simply plug this connector into the back of the 70 Maxx, as illustrated in **Figures C and D**.



Unplug factory radio antenna adaptor

Figure C.

Plug the factory 1 DIN radio antenna plug into the back of the 70 Maxx



Figure D.

If you plug the Polaris Radio Antenna Adaptor into the Factory Antenna Adaptor, the radio reception will be poor.

# Toyota Prado 2018+ (PradoMaxx18)

- There are two harness options for the PradoMaxx18. The TOY002 is compatible with models from 2015 to 2020, while the TOY003 is designed for the 2020 and later Prado. If your original head unit features Carplay/Android Auto, it is recommended to use the 2020+ harness (TOY003). The 2020 model marked a transition, and this guideline helps determine the appropriate harness for your vehicle.
- The 2015-2020 harness is a universal Toyota harness which means you may have leftover plugs that are not required to be used in your model.
- You can retain your 360 degree camera and activate it with your dash view button, please see page <u>39</u> for the correct settings.

# **General Toyota notes**

- If installing a camera and your harness has no CANbus module, wire the wire the BACK/REVERSE wire to the cable that attaches the pin circled (see Figure F).
- Some older models may not have this pin, if this is the case, wire the reverse trigger to your reverse lights.



Figure F.

- If your harness lacks a CANbus module, <u>manual programming</u> is required for your steering wheel controls.
- If your harness includes a CANbus module, there's no need for steering wheel control programming.

## BT50Maxx



Main power, Speakers, Steering Wheel Controls etc.		
	<ul> <li>Main power</li> <li>Factory speakers</li> <li>Steering wheel controls</li> </ul>	
Small Factory Screen		
	<ul> <li>Plugs into the same port where your small factory screen was originally connected.</li> </ul>	

Hazard Switch/ Door Lock Wiring		
	<ul> <li>The white plug connects to the back of the fascia panel, while the other end links to the vehicle's wiring to support the hazard switch and door lock functions.</li> <li>If you encounter difficulty plugging the central lock and hazard button into the factory plugs, it may indicate incompatibility, especially if you own a 2015-2016 XTR or GT model.</li> </ul>	
Radio Antenna Adapto		
	• Connect the Antenna plug to the Factory Radio Antenna Plug, and insert the 1 din connector into the back of the head unit.	
Speaker		
	<ul> <li>Retains factory sensor sound.</li> </ul>	

CANbus Module	
	<ul> <li>Steering Wheel Controls</li> <li>Reverse Trigger</li> <li>Accessories power</li> </ul>
	• Don't forget to power the module.
Polaris AHD Mini Camer	а
	<ul> <li>Please see page <u>23</u> for the wiring diagram and page <u>19</u> for the settings.</li> </ul>
Other Parts	
	<ul> <li>See page <u>15</u> for the other parts that come with the head unit.</li> </ul>

### Camera, V-Out 1& 2, AUX-V Cable



- Please plug this cable in even if you do not plan on using it.
- It has the Bluetooth & WiFi Antenna built into the plug.
- Failure to do so will affect Wireless Carplay & bluetooth.

#### **CANbus Settings**

#### **CANbus Module Settings**

Your CANbus module should be pre-set out of the box but in the case of a factory reset or any other reason, please see next page for the CANbus settings for the BT50.

#### How to Access CANbus settings

You can access all CANbus settings in the **CAR** app on the head unit. Within the **CAR** app, you can:

- Configure the CANbus module
- Reassign steering wheel control buttons if they are incorrectly mapped
- Enable 360-degree cameras (if supported)
- Access various other features provided by the CANbus module based on your vehicle's capabilities

#### BTMaxx - 2012-2016 Mazda BT50

Set the module as SIMPLE > Mazda > 12-17 BT50

## **BT50 Maxx Notes**

- Your steering wheel controls do not require wiring or programming. The CANbus module comes pre-programmed for your convenience.
- If the unit fails to power up, or if it remains on with the key out of the ignition, please contact our technicians at 1300 555 514.
- Attach the clips removed from the original fascia panel to the BT50 Luxx fascia panel.
- If you encounter difficulty plugging the central lock and hazard button into the factory plugs, it may indicate incompatibility, especially if you own a 2015-2016 XTR or GT model.

## **GUMaxx**



The GUMaxx models come with three harnesses. Connect the harness that matches your vehicle's plug.

Most connections are plug-and-play, but:

- Steering wheel controls need to be hardwired (if applicable).
- Reverse trigger must be hardwired (if wiring a camera).



NISS002	
	<ul> <li>Main Power</li> <li>Illumination</li> <li>Speakers</li> <li>Radio Antenna Adaptor</li> <li>Has been known to fit wagon GU models</li> </ul>
NISSO03	
	<ul> <li>Main Power</li> <li>Illumination</li> <li>Speakers</li> <li>Steering wheel controls (hardwiring involved)</li> <li>Fits most older GU Patrols</li> </ul>
Radio Antenna Adaptors	5
	<ul> <li>Connect the appropriate antenna plug to the Factory Radio Antenna Plug, and insert the 1 din connector into the back of the head unit.</li> </ul>

#### **Individual Wires**



Wire colors may vary over time, so always refer to the labels.

- Key 1 & Key 2 Wires: Used for hardwiring steering wheel controls.
- If installing an aftermarket steering wheel control, connect these wires to the corresponding steering wheel Key 1
   & Key 2 wires, then manually program the controls in the head unit settings.
- BACK/REVERSE Wire: Must be connected to a reverse trigger when wiring a camera. See page <u>21</u> & <u>22</u> for more details.
- NISS002 Ground Wire: This harness includes a ground wire for the head unit. Ensure it is securely connected to a ground point.

#### Is your Radio Antenna going up randomly when the car is off?

- Please cut the blue wire on the main harness.
- Then, connect the Amp control wire to the blue wire on the factory plug side of the Polaris Main harness.
- please see photo:



### **Polaris AHD Mini Camera**



• Please see page <u>21</u> for the wiring diagram and page <u>19</u> for the settings.

#### **Other Parts**



• See page <u>15</u> for the other parts that come with the head unit.

#### Camera, V-Out 1& 2, AUX-V Cable



- Please plug this cable in even if you do not plan on using it.
- It has the Bluetooth & WiFi Antenna built into the plug.
- Failure to do so will affect Wireless Carplay & bluetooth.

# Holden Colorado with mylink 2014-2016







Radio Antenna Adaptor		
Contraction of the second seco	<ul> <li>Connect the Fakra plug to the Factory Radio Antenna Plug, and insert the 1 din connector into the back of the head unit.</li> </ul>	
CANbus Module		
	<ul> <li>Reverse trigger</li> <li>Steering wheel controls</li> <li>Displays vehicle information</li> <li>Retains some Mylink features</li> <li>Don't forget to power the module</li> </ul>	
Speaker		
	<ul> <li>Retains Factory sensor and various other factory sounds.</li> </ul>	

### **Polaris AHD Mini Camera**



• Please see page <u>23</u> for the wiring diagram and page <u>19</u> for the settings.

#### **Other Parts**



• See page <u>15</u> for the other parts that come with the head unit.

#### Camera, V-Out 1& 2, AUX-V Cable



- Please plug this cable in even if you do not plan on using it.
- It has the Bluetooth & WiFi Antenna built into the plug.
- Failure to do so will affect Wireless Carplay & bluetooth.

# **CANbus Settings**

### **CANbus Module Settings**

Your CANbus module should be pre-set out of the box but in the case of a factory reset or any other reason, please see below the CANbus settings for the Holden Colorado with Mylink.

#### How to Access CANbus settings

You can access all CANbus settings in the **CAR** app on the head unit. Within the **CAR** app, you can:

- Configure the CANbus module
- Reassign steering wheel control buttons if they are incorrectly mapped
- Enable 360-degree cameras (if supported)
- Access various other features provided by the CANbus module based on your vehicle's capabilities

#### IsuMaxx - Holden Colorado 14-16 with MYLINK

Set the module as SIMPLE > Chevrolet Vehicles > 15-20 Colorado

# Isuzu Maxx



Main power, Speakers, Steering Wheel Controls etc.		
	<ul> <li>Main power</li> <li>Factory speakers</li> <li>Steering wheel controls</li> </ul>	
Factory Camera Plug		
	<ul> <li>Connect your factory camera to this plug if applicable.</li> </ul>	
	<ul> <li>Don't forget to plug the CAMERA RCA from the Polaris main harness into the CAMERA plug fly lead.</li> </ul>	

Reverse Trigger Plug		
	<ul> <li>Plug the reverse trigger plug into this port.</li> <li>Provides reverse trigger for the factory camera or for a Polaris camera (no need to pick up a reverse trigger as long as this plug is connected).</li> </ul>	
Radio Antenna Adaptor		
	<ul> <li>Connect the Antenna plug to the Factory Radio Antenna Plug, and insert the 1 din connector into the back of the head unit.</li> <li>Won't be used for every model.</li> </ul>	
Polaris AHD Mini Camera		
	<ul> <li>Please see page <u>21</u> for the wiring diagram and page <u>19</u> for the settings.</li> </ul>	

### **Other Parts**



• See page <u>15</u> for the other parts that come with the head unit.

## Camera, V-Out 1& 2, AUX-V Cable



- Please plug this cable in even if you do not plan on using it.
- It has the Bluetooth & WiFi Antenna built into the plug.
- Failure to do so will affect Wireless Carplay & bluetooth.

## Isuzu Maxx notes

- You will need to program your steering wheel controls, See page 83.
- This harness will fit most of the 2012 2020 Dmax and the 2013 2021 MU-X however, there is one model that requires an adaptor. Any model fitted with a Clarion Navigation Factory head unit (see Figure E), will require an adaptor as the vehicle harness differs from the rest of the models.
- If you do not require the Antenna Adaptor, make sure that the Antenna control wire has power to it on the car side. The best way to do this is to wire up the Amp ctrl wire to the Factory Antenna Ctrl wire (See Figure F).





**Figure E** 



**Figure F** 

## **Polaris NP Maxx**

The unit will come with 2 harnesses: NISS004 & NISS005. NISS004: 2015-2019 SL, ST, ST-X NISS005: 2019+ SL, ST, ST-X







**Note:** Because this harness fits a wide variety of NP300 models you will have leftover plugs that are not used.

Radio Antenna Adaptor		
	<ul> <li>Connect the antenna plug to the Factory Radio Antenna Plug, and insert the 1 din connector into the back of the head unit.</li> </ul>	
CANbus module		
	<ul> <li>Reverse trigger</li> <li>steering wheel controls</li> <li>Displays vehicle information</li> <li>Retains 360 degree camera (if applicable)</li> <li>Don't forget to power the module</li> </ul>	
Polaris AHD Mini Camera		
	<ul> <li>Please see page <u>23</u> for the wiring diagram and page <u>19</u> for the settings.</li> </ul>	

### **Other Parts**



• See page <u>15</u> for the other parts that come with the head unit.

## Camera, V-Out 1& 2, AUX-V Cable



- Please plug this cable in even if you do not plan on using it.
- It has the Bluetooth & WiFi Antenna built into the plug.
- Failure to do so will affect Wireless Carplay & bluetooth.

#### NISS005 - 2019+ SL, ST, ST-X



#### Overview

- Power
- Speakers
- Retains Factory Cam
- CANbus module
- Usually fits 2019+ SL,ST & ST-X models

#### Main Power & Speakers

<ul><li>Main Power</li><li>Speakers</li><li>Reverse trigger</li></ul>
<ul> <li>Illumination</li> <li>Factory Camera</li> <li>Don't forget to plug the CAMERA RCA from the Polaris main harness into the CAMERA plug fly lead.</li> </ul>

Radio Antenna Adaptor		
	<ul> <li>Connect the antenna plug to the Factory Radio Antenna Plug, and insert the 1 din connector into the back of the head unit.</li> </ul>	
CANbus module		
	<ul> <li>Reverse trigger</li> <li>steering wheel controls</li> <li>Displays vehicle information</li> <li>Retains 360 degree camera (if applicable)</li> <li>Don't forget to power up the CANbus Module.</li> </ul>	
Polaris AHD Mini Camera		
	<ul> <li>Please see page <u>23</u> for the wiring diagram and page <u>19</u> for the settings.</li> </ul>	

#### **Other Parts**



• See page <u>15</u> for the other parts that come with the head unit.

### Camera, V-Out 1& 2, AUX-V Cable



- Please plug this cable in even if you do not plan on using it.
- It has the Bluetooth & WiFi Antenna built into the plug.
- Failure to do so will affect Wireless Carplay & bluetooth.

#### **CANbus Module Settings**

Your CANbus module should be pre-set out of the box but in the case of a factory reset or any other reason, please see below page the CANbus settings for the Nissan Navara NP300.

#### How to Access CANbus settings

You can access all CANbus settings in the **CAR** app on the head unit. Within the **CAR** app, you can:

- Configure the CANbus module
- Reassign steering wheel control buttons if they are incorrectly mapped.
- Enable 360-degree cameras (if supported)
- Access various other features provided by the CANbus module based on your vehicle's capabilities.

#### NPMaxx: 15-24 (No 360 degree cameras)

- Set the module as SIMPLE > Nissan > 15-20 Navara
- Go into Car Settings > General Settings > Find an option that says Signal Shield and make sure it is turned ON

#### NPMaxx: 15-24 (360 degree cameras)

• Set the module as SIMPLE > Nissan > 15-20 Navara

#### Go into Car Settings > General Settings >

- Panoramic View> Turn on
- Original 360 > Turn on
- Original 360 floating ball > Turn on (if you want to view 360 degree cameras at anytime).
- Right View Function > Turn off
- Signal Shield > Turn On

# **Polaris Universal Luxx**

The Polaris Universal Luxx is designed as a universal-style head unit, meaning it can be installed into a wide variety of vehicles. It features a standard ISO plug for the main power loom, making it compatible with most aftermarket wiring systems.

For ease of installation, the Universal Luxx can be paired with select Polaris plug-and-play harnesses or Aerpro vehicle-specific installation kits. Depending on the vehicle make and model, you may require additional components such as fascia panels or antenna adaptors to complete the installation. Always confirm compatibility before installation to ensure the correct harness or fitting kit is used for your specific vehicle.



## **Power Loom**



## Iso Plug Colour Wire / Pin diagram



# Individual Wires



Back (Reverse trigger)



Steering Wheel ctrl Key 1

Steering Wheel ctrl Key 2

Individual wire colours can change from time to time, please refer to the tags on the wires

## Adding Aerpro / ISO Plug & Play Wiring

#### **Option 1: Standard ISO Aerpro Harnesses (APP series)**

Most Aerpro harnesses that begin with APP are designed as standard ISO plugs. These will provide basic power and speaker connections, but do not include steering wheel control wiring in the plug by default.

Key Notes:

- Steering wheel control (SWC) wires must be manually connected to the Polaris ISO harness (Key 1 / Key 2 wires).
- The exception is the APP091, which does include SWC wires. These should be matched to the Polaris Key 1 / Key 2 wires.
- Regardless of which APP harness is used, the steering wheel controls must be <u>manually programmed</u> via the head unit settings.



#### **Option 2: CANBUS Aerpro Harness Kits (with APUNIPL2)**

This setup includes a CANBUS module and the APUNIPL2 universal patch lead,

providing more advanced integration.

Key Notes:

The **APUNIPL2** cable must be used with the **CANBUS** module.

You must connect the Key wires from the **APUNIPL2** to the Polaris ISO Key 1 / Key 2 wires.

Steering wheel controls will still need to be <u>manually programmed</u> into the unit, even with a **CANBUS** interface.

#### **Aerpro CANBUS Wiring**



Polaris ISO Plug	L	Aerpro CANBUS Wiring
Key 1 (orange/black)	<b>4&gt;</b>	Key 1 (Brown)
Key 2 (brown/black)	<b>4&gt;</b>	Key 2 (Grey)
*BACK (Pink)	<b>∢&gt;</b> *∣	Reverse Gear (purple/white)

\*Reverse trigger is not always available on the Aerpro harness.

Aerpro Steering Wheel Control patch lead is required - APUNIPL2.

You will still need to program in your <u>steering wheel control</u>s on the head unit, please see video <u>page 83</u>

⚠ Important:

- Always refer to your specific Aerpro harness documentation for correct wire identification.
- If unsure, use a multimeter or consult a qualified auto electrician to confirm connections.
# Polaris AHD Mini Camera • Please see page <u>21</u> for Reverse Camera wiring and page <u>19</u> for correct settings. **Other Parts** • See page <u>15</u> for the other parts that come with the head unit. Camera, V-Out 1& 2, AUX-V Cable • Please plug this cable in even if you do not plan on using it. • It has the Bluetooth & WiFi Antenna built into the plug. • Failure to do so will affect Wireless Carplay & bluetooth functionality.

# **Polaris VW Maxx**

The unit will come with 2 harnesses: VW001 & VW002 VW001: Amarok 2012-2016 VW002: Amarok 2017-2022





Radio Antenna Adaptor		
	<ul> <li>Connect the antenna plug to the Factory Radio Antenna Plug, and insert the 1 din connector into the back of the head unit.</li> </ul>	
CANbus module		
	<ul> <li>Reverse trigger</li> <li>steering wheel controls</li> <li>Displays vehicle information</li> <li>Don't forget to power the CANbus module.</li> </ul>	
Polaris AHD Mini Camera		
	<ul> <li>Please see page <u>23</u> for the wiring diagram and page <u>19</u> for the settings.</li> </ul>	

# **Other Parts**



• See page <u>15</u> for the other parts that come with the head unit.

# Camera, V-Out 1& 2, AUX-V Cable



- Please plug this cable in even if you do not plan on using it.
- It has the Bluetooth & WiFi Antenna built into the plug.
- Failure to do so will affect Wireless Carplay & bluetooth.

# VW002 - VW Amarok 2017-2022

	Overview <ul> <li>Power</li> <li>Speakers</li> <li>CANbus module</li> <li>Fits VW Amaroks 2017-2022</li> </ul>
Main Power, Speakers, SWC, Factory Reverse Cam	



- Main Power
- Speakers
- Steering Wheel Controls
- Factory reverse camera
- Don't forget to plug the CAMERA RCA from the Polaris main harness into the CAMERA plug fly lead.

Radio Antenna Adaptor		
	<ul> <li>Connect the Antenna plug to the Factory Radio Antenna Plug, and insert the 1 din connector into the back of the head unit.</li> </ul>	
CANbus module		
	<ul> <li>Reverse trigger</li> <li>steering wheel controls</li> <li>Displays vehicle information</li> <li>Don't forget to power the CANbus module.</li> </ul>	
Polaris AHD Mini Camera		
	<ul> <li>Please see page <u>23</u> for the wiring diagram and page <u>19</u> for the settings.</li> </ul>	

# **Other Parts**



• See page <u>15</u> for the other parts that come with the head unit.

# Camera, V-Out 1& 2, AUX-V Cable



- Please plug this cable in even if you do not plan on using it.
- It has the Bluetooth & WiFi Antenna built into the plug.
- Failure to do so will affect Wireless Carplay & bluetooth.

# **CANbus Module Settings**

Your CANbus module should be pre-set out of the box but in the case of a factory reset or any other reason, please see below page the CANbus settings for the VW Amarok

# How to Access CANbus settings

You can access all CANbus settings in the **CAR** app on the head unit. Within the **CAR** app, you can:

- Configure the CANbus module
- Reassign steering wheel control buttons if they are incorrectly mapped
- Enable 360-degree cameras (if supported)
- Access various other features provided by the CANbus module based on your vehicle's capabilities

### VWMaxx: VW Amarok 12-22

- Set the module as SIMPLE > VW PQ Cars > Amarok 11-20
- Go into Car Settings > General Settings > Find an option that says Signal Shield and make sure it is turned ON

# **Over The Air Updates**

Make sure the head unit and CANbus module are updated to the latest software version before using the system or delivering it to the customer. Your head unit may have **two types of updates** available:

- 1. General Software Update Updates the head unit's system.
- 2. CANbus Module Update Updates the CANbus module (if applicable).

#### **General Software Update**

#### Step 1: Disable Wireless CarPlay/Android Auto

- Open Settings on the head unit.
- Go to Bluetooth and temporarily disable it.
- This prevents the unit from trying to connect to Wireless CarPlay/Android Auto via Wi-Fi.

#### Step 2: Connect to the Internet

- Use a mobile hotspot or home/work Wi-Fi (if in range).
- On the head unit, go to Settings > Wi-Fi.
- Select your Wi-Fi network, enter the password, and connect.

#### Step 3: Run the Update

- Open Settings on the head unit.
- Scroll down and select System.
- Scroll to the bottom and select OTA Update.
- Tap Check for Updates.
- If an update is available, let it install completely.

#### Step 4: Re-enable Wireless CarPlay/Android Auto

- If your unit does not have a CANbus module, re-enable Bluetooth:
- Go to Settings > Bluetooth.
- Turn Bluetooth back on to resume Wireless CarPlay/Android Auto.
- If your unit has a CANbus module, proceed to the CANbus Module Update on the next page.

# **CANbus Module Update (If Applicable)**

#### Step 1: Run the Update

- Open the Car app on the head unit.
- Tap the Car icon in the top left corner.
- Scroll down to the bottom and tap Check for Updates.
- If an update is available, let it install completely.

#### Step 2: Re-enable Wireless CarPlay/Android Auto

- Go to Settings > Bluetooth.
- Turn Bluetooth back on to resume Wireless CarPlay/Android Auto.

# How to wirelessly connect carplay / Android Auto



Carplay



Android Auto

# **Steering Wheel Controls**

For any wiring harness without a CANbus Module (Polaris wiring harness only), please see the video below on how to program your steering wheel controls.



# **Helpful Videos**

### How to pull apart a Dmax / MU-X Dash



### How to pull apart a BT50 dash



#### How to pull apart a 79 series dash



# Troubleshooting

# Wired / Wireless Carplay not connecting

If you're having trouble connecting to wired/wireless CarPlay, follow these steps:

#### Wired Carplay

• Ensure the cable you are using is a genuine Apple cable

#### Double check the Bluetooth and WiFi Antenna

 Make sure you have plugged the fly lead that has the Bluetooth and Wi-Fi antenna built into it (See page <u>11</u>)

#### Check for Updates

- Ensure your iPhone is running the latest iOS version.
- Make sure the head unit has the latest software update (OTA updates see page <u>76</u>).

#### **Restart Devices**

Reboot the head unit:

- Tap the **Time/Date** section on the head unit to open the **quick menu**.
- Select Reboot System.
- Restart your iPhone: Turn it off and back on.

#### Check Network Settings

- Disable VPN: If you have a VPN enabled on your iPhone, turn it off.
- Turn off Hotspot: Disable Personal Hotspot on your iPhone.
- Make sure Wi-Fi is enabled on your phone.

#### Verify Bluetooth Connection

Ensure Bluetooth is enabled on the head unit:

• Go to Settings > Bluetooth > Turn On.

#### Perform a Factory Reset (If Needed)

- If the issue persists, reset the head unit:
- Go to Settings > System > Factory Reset.

# Wired / Wireless Android Auto not connecting

you're having trouble connecting to Android Auto, follow these steps:

#### Wired Android Auto:

• Ensure the cable you are using is a data cable

#### Double check the Bluetooth and WiFi Antenna:

 Make sure you have plugged the fly lead that has the Bluetooth and Wi-Fi antenna built into it (See page 11).

#### Check for Updates:

• Ensure your Android phone is running the latest software version.

#### Ensure Android Auto is up to date:

- Open the **Google Play Store** on your phone.
- Search for Android Auto to check for and install any available updates.

#### Ensure the head unit is up to date:

 Make sure the head unit has the latest software update (OTA updates – see page <u>76</u>).

#### **Restart Devices:**

Reboot the head unit:

- Tap the Time/Date section on the head unit to open the quick menu.
- Select Reboot System.
- Restart your Phone: Turn it off and back on.

#### Check Network Settings:

- Disable VPN: If you have a VPN enabled on your phone, turn it off.
- Turn off Hotspot: Disable Personal Hotspot on your phone.
- Make sure Wi-Fi is enabled on your phone.

#### Verify Bluetooth Connection

Ensure Bluetooth is enabled on the head unit:

• Go to Settings > Bluetooth > Turn On.

#### Perform a Factory Reset (If Needed)

- If the issue persists, reset the head unit:
- Go to Settings > System > Factory Reset.

# **Reverse Camera not working correctly**

If you are having trouble with the reverse camera, please see troubleshooting tips below

#### Polaris AHD Mini Camera

No Image?

• Have you **powered the camera** using the 12V red wire coming from the RCA plug?

Not Switching to Reverse?

- Have you connected a **reverse trigger** to let the head unit know when to switch to the camera feed?
- Refer to page <u>21</u> to double-check the wiring.

Distorted Picture?

 Check page <u>19</u> - <u>20</u> to ensure the correct camera format setting has been programmed.

#### Factory Camera

#### No Image?

- Have you plugged the Camera RCA into the Camera RCA fly lead?
- See page <u>24</u> for the wiring diagram.

#### Not switching to reverse?

- Have you powered the CANbus module?
- Refer to page <u>24</u> for instructions on **powering the CANbus module**.

#### Distorted Image?

- Check page <u>19 to 20</u> to ensure the correct camera format setting is applied.
- Factory cameras are typically CVBS NTSC format.

#### Can't locate the format you are after in the settings?

• Simply **scroll up or down** to view all the options, as not all of them will be visible on the screen at once.

# **Poor Radio Reception**

If you are having trouble with the radio reception, please see troubleshooting tips below

#### 79 Series Toyota Landcruiser 2010-2025

• Please do not use the antenna adaptor - refer to page 41 for more details

#### Other models

 If your vehicle has a standard 1 DIN radio antenna connection and does not require an antenna adapter, ensure that the Antenna Control wire on the vehicle side is powered. To enable this, connect the Amp Control wire from the Polaris fly lead to the appropriate pin that controls the Antenna Control wire on the vehicle side.

### **Steering Wheel Controls are not working**

#### No CANbus Module

#### Steering wheel controls not responding?

- Make sure the **controls** have been **programmed** into the head unit.
- Refer to page <u>8</u>3 for a video guide on how to program them.

#### With CANbus Module

#### No steering wheel control response?

• Ensure the CANbus module is powered (see reference photo).



- Verify that the CANbus module is set correctly:
  - Open the **CAR** app on the head unit.
  - Check the **CANbus** settings for your specific unit in this manual.

# Steering Wheel Controls are not working (cont)

#### **Incorrect Button Functions**

Some steering wheel controls are assigned incorrectly?

- Adjust them in the Car app:
- Open Car app > Car Settings > General Settings.
- Swap buttons as needed.

#### External amp makes a pop sound when i start the car up

 Your amplifier must be powered by the head unit. Make sure you have connected your amp wire to the amp control wire located on the plug below.



When i turn the right indicator on, the head unit goes to a black screen

Open **Car app > Car Settings > General Settings** > Look for an option that says **Signal Shield >** Turn this **on** 

My radio antenna is randomly going up and down when the car is off

• Please see picture (right) on how to fix this:



# How to Change Boot Logo on your Polaris Head Unit

# Step 1: Create Your Boot Logo Image

- 1. Ensure the image matches your screen resolution. You can find your screen resolution by going to:
- 2. Settings > System > Screen Resolution
- 3. Save the image in BMP format.
- 4. Rename the image to bootlogo (no caps, spaces or special characters).

# Step 2: Replace the Boot Logo in the Config File

- 1. Unzip the flyconfig file that was sent to you via email (you will have to request from us).
- 2. Open the following folders in order:
  - flyconfig
  - input
  - theme config
  - logo
  - boot logo
- 3. Replace the existing Polaris logo file in this folder with your new bootlogo.bmp file.

# Step 3: Load the New Boot Logo into the Head Unit

- 1. Format a blank USB to FAT32 and copy the flyconfig folder to the USB.
- 2. Insert the USB containing the flyconfig folder into your head unit.
- 3. The head unit will detect the file.
- 4. You may hear a pop sound—this is normal and can be ignored.
- 5. The first configuration attempt will run and show an error—this is also normal.
- 6. The head unit will restart automatically.
- 7. Once restarted, a message will appear:
- 8. "The last import configuration was not completed, continue importing configuration in 8 seconds."
- 9. The system will attempt to run the rest of the configuration files. Since only the logo file is present, another message will appear:
- 10."19 configuration import failed, please check whether the configuration is correct."
- 11. Press CANCEL when this message appears.

11. Tap the Date/Time in the bottom-right corner of the screen to bring up the quick menu.

12. Select Reboot.

# Step 4: Verify the New Boot Logo

Your head unit will restart, and your new boot logo should now be displayed!

# How to change icons down the bottom of the screen

- Go into Settings
- System
- Multi-tap Software Version until Factory Settings appear
- Enter password: 8888
- Select Theme
- Select Nav Bar Layout
- Select Nav Bar Item Features
- Select the icon you wish to change
- Select the new icon
- Select Save

# **OBDII Reader & Torque app**

#### Step 1: Plug in the OBDII Reader

- Locate your vehicle's OBDII port (usually found under the dashboard, near the driver's seat).
- Plug the OBDII reader into the OBDII port.

### Step 2: Connect the OBDII Reader to Bluetooth on the Head Unit

- On the head unit, go to Settings > Bluetooth and ensure Bluetooth is turned on.
- Select Manage Devices.
- Wait for the head unit to detect the OBDII reader.
- When prompted for a password, enter 1234 and select Connect.

#### • Step 3: Configure the Torque App

- The Torque app should already be preinstalled on your head unit. If not, please email us at sales@polarisgps.com.au, and we will send you the APK file for installation.
- Open the Torque app.
- Tap the Settings icon in the bottom left-hand corner.
- Select OBDII Adapter Settings.
- Tap Choose Bluetooth Device and select your OBDII reader.
- Press the Return arrow to go back.
- Open Real-Time Information to start viewing vehicle data.

# A53 Dash Camera

#### Step 1: Install the Dash Camera

- Insert a microSD card into the dash camera.
- Plug the dash camera into one of the USB ports on the head unit.
- Mount the camera in your preferred position on the windshield. Ensure it has a clear view of the road and is securely attached.

#### Step 2: Install the DVR App

- Open the File Manager app on the head unit.
- Select USB to access the files on your USB drive.
- Locate and select the DVR.apk file.
- Follow the on-screen prompts to install the app.
- Once installed, open the DVR app to view the camera feed and access additional settings.