



Installation Manual

Android Head Units



Thank you

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.

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.



1300 55 55 14



[LiveChat via polarisgps.com.au](https://polarisgps.com.au)



sales@polarisgps.com.au

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

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This manual is best viewed on a phone/tablet/PC

Click on the page you wish to go to.

There are other clickable links within this document.

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



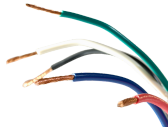
Blade / Cutter



Crimping tool



Voltage Test lamp



Spare Electrical Wire



Heatshrink



Quality trim tool



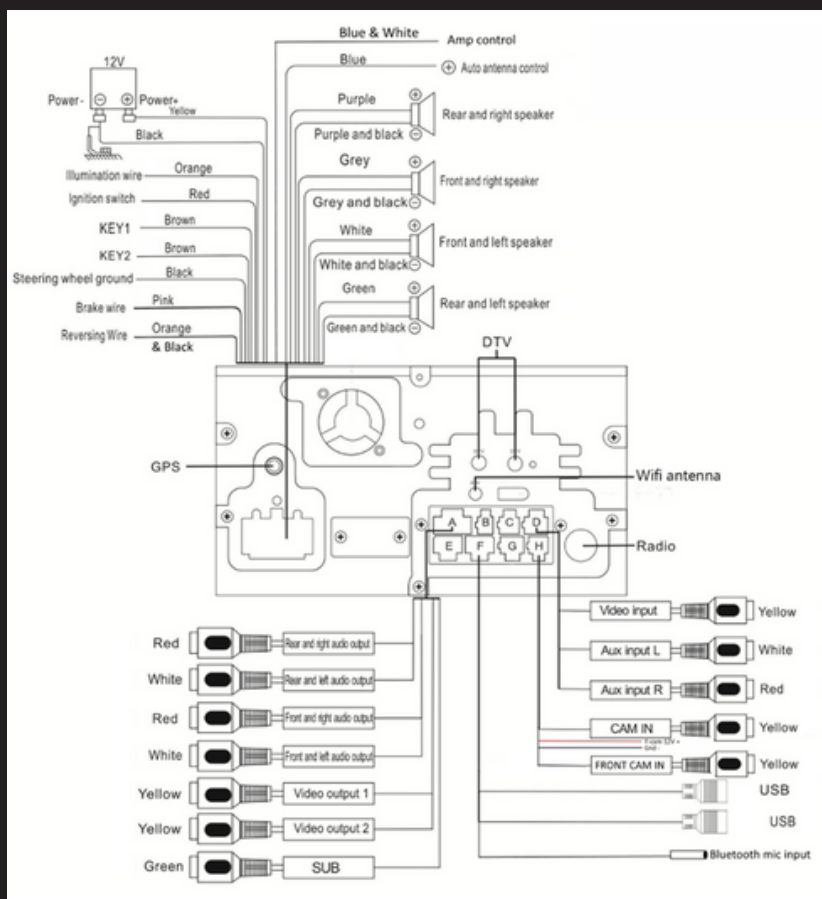
Electrical Tape



Instructions

WIRING DIAGRAM

ALL HEAD UNITS



The wiring diagram is applicable to all
Polaris Android in-dash head units.

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ACCESSORIES / PARTS

ALL HEAD UNITS



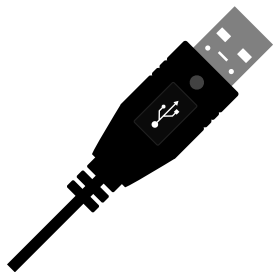
GPS Antenna

Mount the antenna on top of the dash with the black part facing the sky.



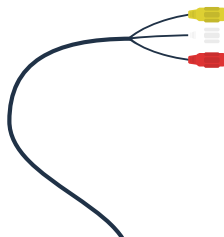
Bluetooth Microphone

We recommend mounting on the pillar. Can remove foam if Bluetooth seems quiet.



USB Cables

We recommend mounting into vehicle glove box, unless the unit comes with a USB retention cable

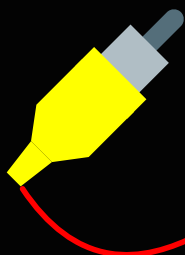


Reverse and Front Camera Input

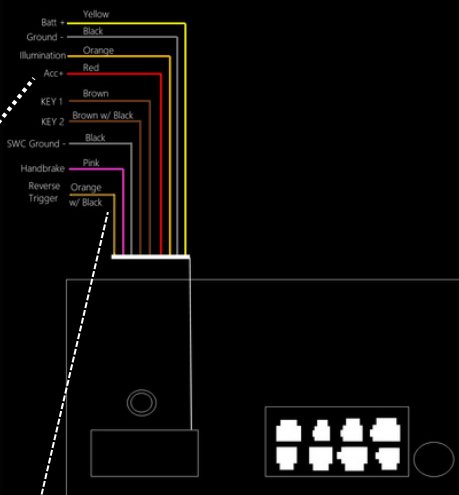
Do not pick up power for any camera from this cable.

REVERSE CAMERA

Plug camera into CAM-IN



Connect red power
(from camera cable) to
RED Acc +



Connect the Reverse trigger wire to the
reverse input in the factory plug.



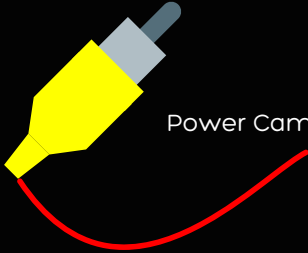
If your vehicle doesn't have a reverse power input feed, you will need to run the **reverse trigger wire** (orange w/ black stripe) to **Reverse Light +**. It is best to do this while running your camera cable at the same time.

The reverse trigger wire is what 'tells' the unit that the car is in reverse. Failure in wiring reverse trigger will result in the camera only appearing manually via the cam app.

Powering the camera via **Acc+ power**, you are allowing for full-time vision. If you don't want this, then you can simply power the camera via Reverse light +

FRONT CAMERA / CARAVAN CAMERA

Plug camera into F-Cam



Power Camera to **ACC+**



View Camera via CAM
App while driving



DO NOT pick up power for the F-CAM input from the camera plug itself.

How to access caravan camera through F-CAM when in reverse gear



When car is in reverse
reverse camera will
always appear by default

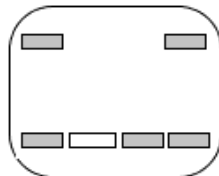
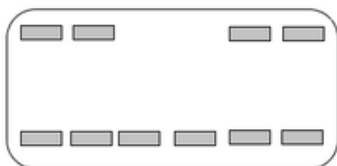
Press the return **touch**
panel button to change
to caravan camera

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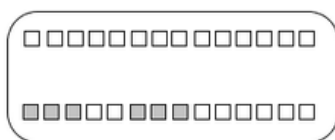
POLARIS 70 MAXX



Main Power and
Speakers



Steering Wheel Controls



Not used in 79 series

Radio Antenna Adaptor- not required see
[page 14](#)



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POLARIS 70 MAXX

Individual Wires

Orange with black: Reverse Trigger

Pink: Handbrake

Blue with white: Amp Control



White and Red RCA: Retain
AUX



70 MAXX NOTES

- You will be required to cut off 4 lugs in the dashboard when taking off your original fascia. Please see Figure A. They are not required and will not affect your original fascia going back in, should you ever wish to restore it to factory.
- The 79 series has its own Antenna Adaptor plugged in, please see [page 14](#) for instructions on how to avoid poor radio reception.
- You will have to wire the reverse trigger if installing a camera. See figure B for the Reverse Trigger Input.
- If we run out of stock on the wiring harness, we will substitute it with an Aerpro APP0141 Toyota wiring harness.

BEFORE



AFTER

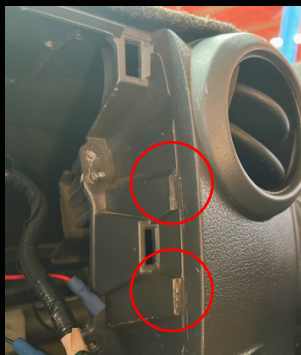


Figure A.

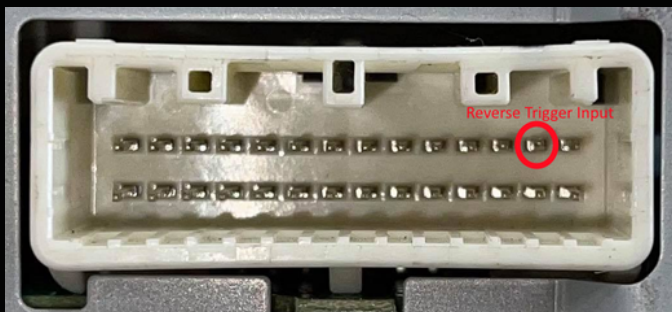


Figure B.

70 MAXX NOTES

- The 79 series already has a Radio Antenna Adaptor fitted from factory. The factory antenna adaptor is not required. Find the factory radio antenna adaptor and unplug it. You will find that once it is unplugged, it will have a standard 1 DIN radio connector which plugs straight into the back of the 70 Maxx. See 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



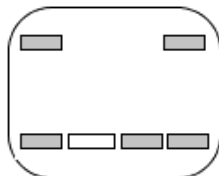
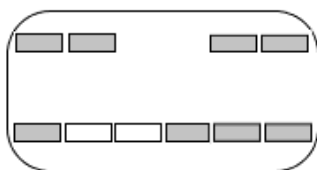
Figure D.

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

POLARIS 200 MAXX



Main Power and Speakers

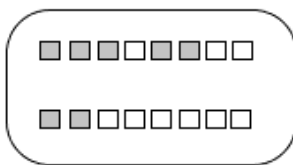
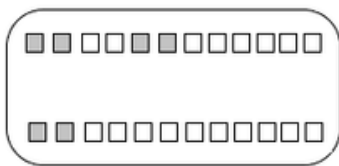


Reverse Trigger, Handbrake, Steering Wheel Controls



POLARIS 200 MAXX

Factory Camera



Generally the 6 pin plug will be
used for
the factory Camera

Radio Antenna Adaptor

Plug into factory
Radio plug



plug into back of
head unit



Yellow RCA: Factory Camera



CAM IN



Plug H: CAM IN

RCA plugs
White / Red: AUX



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POLARIS 200 MAXX

CANBUS Module



CANBUS module controls different features:

- Reverse trigger
- Steering wheel controls
- Display vehicle information

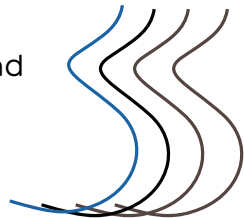
Individual Wires

Blue with white: Amp control

Black: Steering wheel control ground

Brown: Key 1

Brown with black: Key 2



Factory USB Retention Cable

Plug into back of
Factory USB



Plug into one of
Polaris USB's from
Plug F

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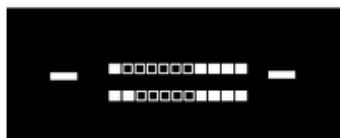
200 MAXX NOTES

- You do not need to wire in or program your steering wheel controls. The CANBUS module has your steering wheel controls already programmed
- If you are retaining your factory camera, don't forget to plug the corresponding RCA video plug into CAM-IN on plug H.

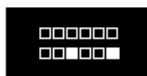
BT50LUXX



Main power, Speakers, Steering
Wheel Controls etc.



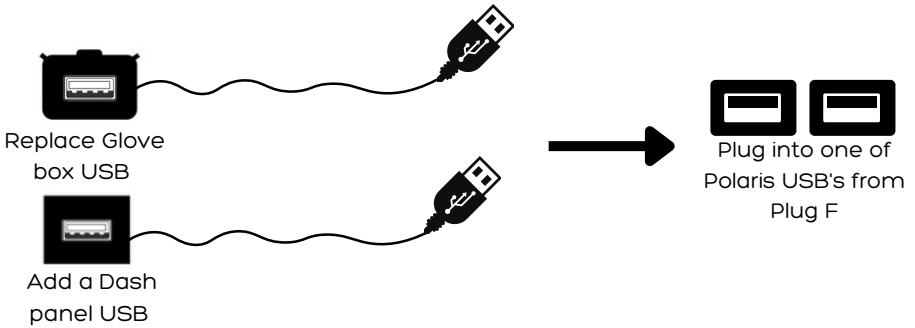
Plugs into where your small Factory
screen was originally plugged into



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BT50 LUXX

USB Retention cables



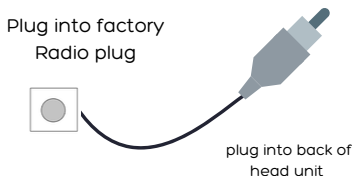
CANBUS Module

Controls different features:

- Steering Wheel Controls
- Reverse Trigger
- Accessories power
- Also has a plug coming off module to retain Factory Reverse Sensor noise (if applicable)



Radio Antenna Adaptor



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BT50 LUXX

Hazard Switch / Door lock Wiring

Plugs into back of Polaris fascia panel behind
hazard/door lock switches



Not Required In Australian Models



Individual Wires

Blue: Amp Control

Brown: Key 1

Brown with black: Key 2



BT50 LUXX/MAXX

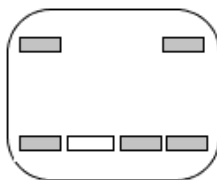
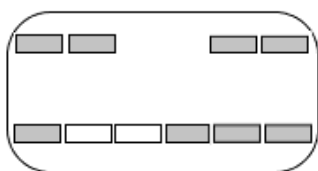
NOTES

- You do not need to wire in or program your steering wheel controls. The CANBUS module has your steering wheel controls already programmed.
- If the unit will not power up, please contact one of our technicians on 1300 555 514.
- If the unit will not turn off with the key out of the ignition, please contact one of our technicians on 1300 555 514.
- If the steering wheel controls do not work, please double-check the CANBUS module settings. You can find this in **Settings > Car Settings > Factory Settings > Passcode: 126 > CANBUS > Canbox Settings > Make sure it is set on Number 24: Mazda BT50 (Simple).**
- Remove clips from the original fascia panel and attach to the BT50 Luxx fascia panel.
- You do not have to use the USB Retention cables, these are optional.
- If a part is not listed in the manual, it is not required.

POLARIS HILUX MAXX HARNESS: 2015-2020



Main Power and Speakers

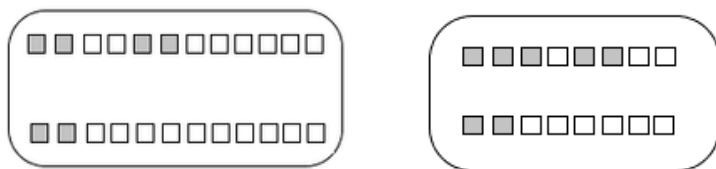


Steering Wheel Controls, Reverse trigger, Handbrake



POLARIS HILUX MAXX HARNESS: 2015-2020

Factory Camera



Generally the 6 pin plug will be used for
the Factory Camera

Radio Antenna Adaptor

Plug into factory
Radio plug



plug into back of
head unit



Yellow RCA Factory Camera



CAM IN



Plug H: CAM IN

RCA plugs

White and
Red: Retain
AUX



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POLARIS HILUX MAXX HARNESS: 2015-2020

CANBUS Module

CANBUS module controls different features:

- Steering Wheel Controls
- Reverse Trigger
- Displays various vehicle information



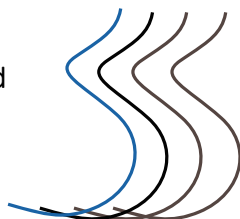
Individual Wires

Blue with white: Amp Control

Black: Steering Wheel Control ground

Brown: Key 1

Brown with black: Key 2



Factory USB Retention Cable

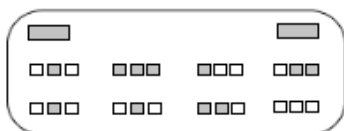
Plug into back of
Factory USB



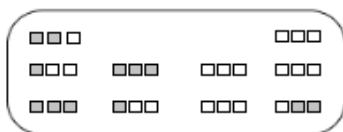
Plug into one of
Polaris USB's from
Plug F

POLARIS HILUX MAXX HARNESS - POST 2020

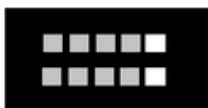
Main Power, Steering Wheel Controls,
etc.



Illumination, Ignition IN, Factory
Reverse Camera



Speakers



Radio Antenna Adaptor

Plug into
Factory
Radio
Antenna



Plug into back
of head unit

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POLARIS HILUX MAXX HARNESS - POST 2020

CANBUS Module

Controls different features:

- Steering Wheel Controls
- Reverse Trigger
- Displays various vehicle information



Yellow RCA : Factory Camera

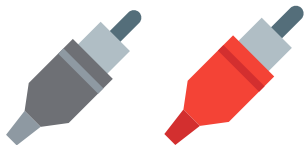


CAM IN

Plug H: CAM IN

RCA plugs

White and Red:
Retain AUX



Individual Wires

Orange with black: Reverse Trigger

Black: Steering Wheel Control ground

Brown: Key 1

Brown with black: Key 2



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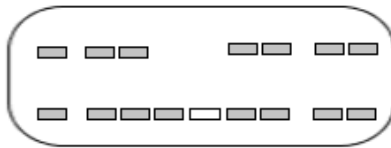
HILUX MAXX NOTES

- If you are retaining your factory camera, don't forget to plug the corresponding RCA video plug into CAM-IN on plug H.
- Original installation instructions no longer correspond with our updated model. If you come across these online, please disregard them.
- You do not need to wire in or program your steering wheel controls. The CANBUS module has your steering wheel controls already programmed.
- Although the Hilux Maxx will not physically fit a 2012-2014 Hilux, this harness can be used in a 2012-2014 Toyota Hilux with our Toyota Luxx or Universal Maxx.
- If your Hilux is post-2020, you will require a different harness. If your Hilux came standard with Carplay / Android Auto then this is classed as post 2020. See [page 26](#) for this harness.
- If you find that the reverse trigger stays active when the car is out of reverse gear, there is a black plug in the middle of the Reverse trigger wire. Find this plug and unplug it.

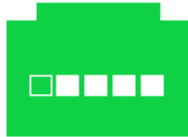
ISUZU MAXX



Main power, Speakers, Steering Wheel controls etc.



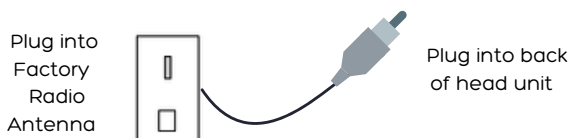
Factory Camera



Reverse Trigger



Radio Antenna Adaptor - some models do not require



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ISUZU MAXX

Individual Wires

Pink: Handbrake

Blue with white: Amp Control

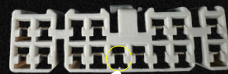


ISUZU MAXX NOTES

- You will need to program your steering wheel controls, See [page 47](#).
- 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.



Wire the Amp control wire to Radio Antenna Control

Figure F.

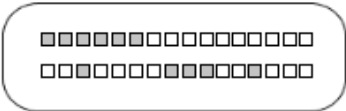
POLARIS NP300 MAXX



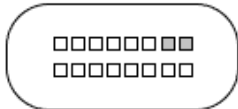
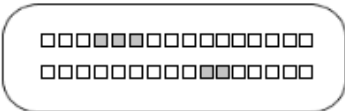
Main Power, Speakers



Steering Wheel Controls and
Factory Camera

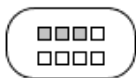


Steering Wheel Controls (No
Factory Camera)



POLARIS NP300MAXX

Retain AUX



Radio Antenna Adaptor



CANBUS Module

Controls different features:

- Steering Wheel Controls
- Reverse Trigger
- Displays various vehicle information



RCA plugs

White and
Red: Retain
AUX



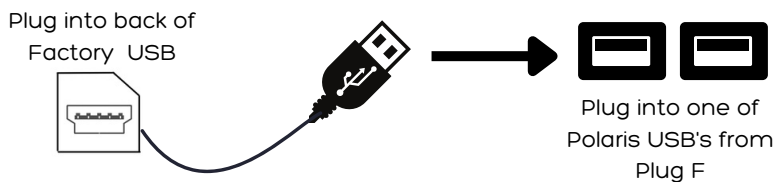
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POLARIS NP300 MAXX

Yellow RCA: Factory Camera



Factory USB Retention Cable



Individual Wires

Pink: Handbrake

Brown: Key 1

Brown with black: Key 2



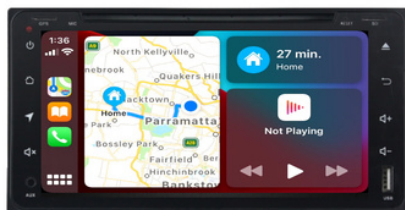
NP300 MAXX NOTES

- If you are retaining your factory camera, don't forget to plug the corresponding RCA video plug into CAM-IN on plug H.
- You do not need to wire in or program your steering wheel controls. The CANBUS module has your steering wheel controls already programmed.
- If you wish to retain AUX, make sure to plug the corresponding Red and White RCA plugs into AUX L IN and AUX IN R on PLUG D
- Use the metal clips from the back original head unit and attach them to the NP300 Maxx fascia (See figure G).

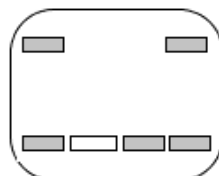
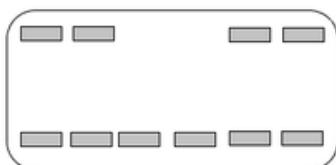


Figure G.

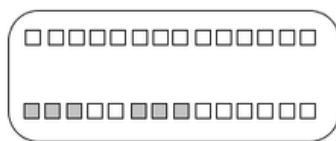
POLARIS UNIVERSAL TOYOTA HARNESS



Main Power and Speakers



Steering Wheel Controls



Radio Antenna Adaptor

Plug into
Factory
Radio
Antenna



Plug into back
of head unit

Not required for 79 series ([see page 14](#))

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POLARIS UNIVERSAL TOYOTA HARNESS

Individual Wires

Orange with black: Reverse Trigger

Pink: Handbrake

Blue with white: Amp Control



White and Red RCA: Retain AUX



TOYOTA LUXX/HARNESS

NOTES

- Toyota universal harness does not retain the Factory Camera. You will require a vehicle-specific Aerpro Cam Retention harness or upgrade to a Polaris Toyota CANBUS harness with camera plugs.
- There is no CANBUS module with this harness therefore, you will need to program your steering wheel controls. See Video on page 47.
- You will need to pick up a reverse trigger for the camera. Reverse Input power can be found in your factory plug (see figure H.) For older Toyota models, you will need to run a wire to your Reverse light+. See page 9 for the reverse camera wiring diagram.
- The Toyota universal harness will suit a wide variety of Toyota vehicles. There may be some plugs that you will not need. There may also be factory plugs that may not need to be plugged into our wiring harness. It will vary depending on your vehicle.

79 Series

- Factory Brackets may need to be filed down for Toyota Luxx (See Figure I).
- The 79 series has its own Antenna Adaptor plugged in, please see page 14 for instructions on how to avoid poor radio reception.



Figure H.



File down section highlighted in Red

Figure I.

UNIVERSAL MAXX UNIVERSAL LUXX



The Universal Maxx and Luxx come with a universal ISO wiring harness.
There are a few options to turn the units into a plug_n_play setup:



**Add a basic Aerpro Harness
to suit your vehicle**

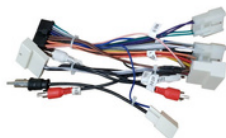
This plug will only cover power and speakers.



This type of Aerpro harness suits vehicles with steering wheel controls.

You will also require an Aerpro **APUNIP2** harness for steering wheel controls.

See [Page 40](#) for the wiring diagram

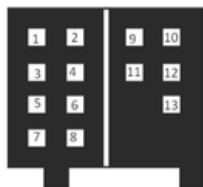


Purchase a Polaris Wiring loom if available for your vehicle

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UNIVERSAL MAXX UNIVERSAL LUXX

Iso Plug Colour Wire / Pin diagram



1. Speaker Left Rear (+)



2. Speaker Left Rear (-)



3. Speaker Left Front (+)



4. Speaker Left Front (-)



5. Speaker Right Front (+)



6. Speaker Right Front (-)



7. Speaker Right Rear (+)



8. Speaker Right Rear (-)



9. 12V+ to ignition
(Acc power on)



10. Ground (-)



11. Auto Antenna Control



12. Illumination



13. 12V+ to battery

Individual Wires



Steering Wheel ctrl Key 1



Steering Wheel ctrl Key 2



Steering Wheel Ctrl GND



Reverse trigger



Handbrake Wire

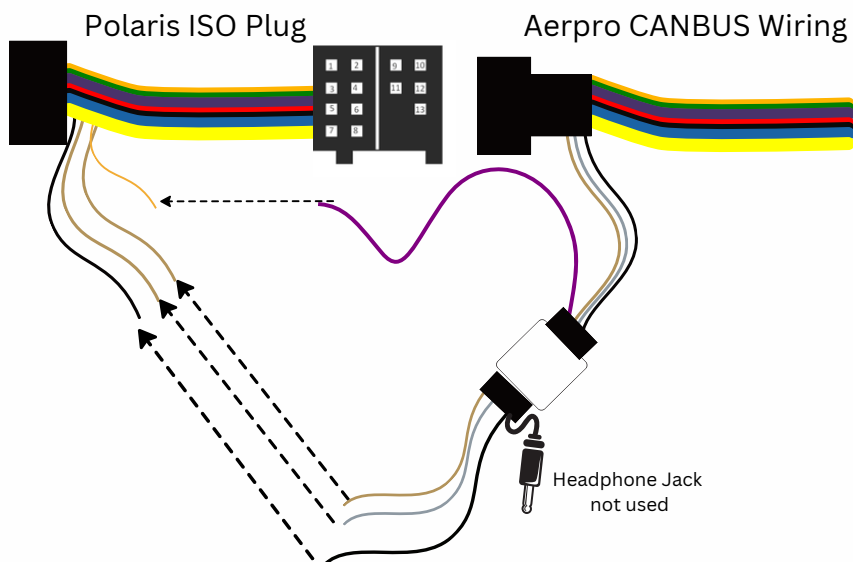


Amp Control Wire

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UNIVERSAL MAXX UNIVERSAL LUXX

Aerpro CANBUS Module Wiring Diagram



Polaris ISO Plug

Key 1 (brown)

Key 2 (brown/black)

Ground (Black)

***Reverse-In
(orange/black)**

Aerpro CANBUS Wiring

Key 1 (Brown)

Key 2 (Grey)

Ground (Black)

***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 steering wheel controls via
Wheelkey study, please see [video page 47](#)

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UNIMAXX NOTES

- The Universal Maxx double DIN chassis will attach to most vehicles' Factory brackets.
- Some vehicles will require a fascia to fill the gap around the double DIN chassis. Please see [here](#) for a list of popular fascia/installation kits that we can order in or head over to www.aerpro.com to see which fascia/install kit suits your vehicle.
- Please avoid constant detaching and attaching of the screen as you may cause damage or reduce the life of the screen.

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.

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TOUCH SCREEN NONRESPONSIVE

Once you have attached the screen and powered the unit up, if you find that the touch screen is nonresponsive, this means that the screen has not been attached properly. To rectify this issue:

1. Turn the vehicle off.
2. Detach the screen and reattach it
Carefully and double-check the pins.
3. Turn the vehicle back on.
4. Grab a small enough device to go
into the reset hole
5. hold in until you see the lights
flashing around the buttons and
release.
6. The unit will perform a cold boot and
the touch screen should be
responsive.

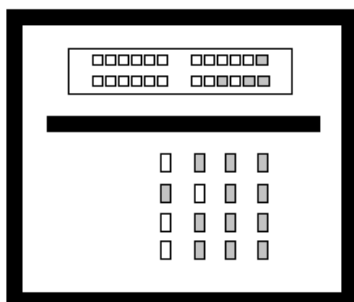
UNILUXX NOTES

- The Universal Luxx double DIN chassis will attach to most vehicle's Factory brackets
- Some vehicles will require a fascia to fill the gap around the double DIN chassis. Please see [here](#) for a list of popular fascia/installation kits that we can order in or head over to www.aerpro.com to see which fascia/install kit suits your vehicle.
- The fascia may have to be slightly modified for the universal Luxx to fit.

VW MAXX



Main Power, Speakers, Steering
Wheel controls AUX, AMP



CANBUS Module

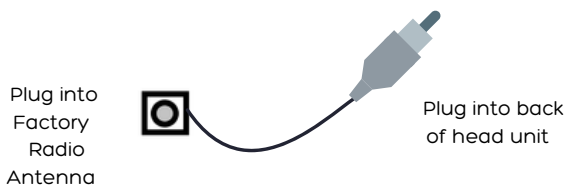
Controls different features:

- Steering Wheel Controls
- Displays vehicle Info on screen
- Displays sensors on screen (if applicable)

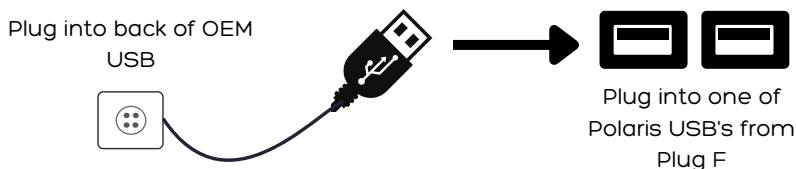


VW MAXX

Radio Antenna Adaptor



Radio Antenna Adaptor



VW MAXX NOTES

- Radio Antenna may differ in VW models. They may have dual or single. For Dual please see Figure J.
- You do not need to wire in or program your steering wheel controls. The CANBUS module has your steering wheel controls already programmed



Figure J.

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.



HOW TO PERFORM A HARD RESET



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HELPFUL VIDEOS

Please see below some videos that may be helpful

How to pull apart a Dmax / MU-X Dash



How to pull apart a BT50 dash



How to pull apart a 79 series dash



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TROUBLESHOOTING

My Reverse camera isn't appearing when I put the vehicle in reverse?

Unless you have a Polaris wiring harness (excludes Aerpro) with a CANBUS module, you will be required to wire up the **Reverse trigger wire** to reverse power. Please see the wiring diagram on [page 9](#)

The Radio Reception is poor

For **79 series**, please see [page 14](#)

For all other models: If you do not need to use an Antenna Adaptor and your vehicle has the standard Radio Antenna connection (1 DIN), make sure the Antenna Control wire on the car side has power to it. You can wire up the **Amp control wire** on the Polaris harness to whichever pin controls the Antenna Control wire on the car side.

I have a Polaris wiring harness with a CANBUS module and my steering wheel controls aren't automatically working.

Please make sure the head unit is set on the correct CANBUS setting: Settings > Car Settings > Factory Settings > Password: 126 > CANBUS > Canbox Settings:

- 1.Hilux Harness 2015 to early 2020: 2. TOYOTA/CAMRY/RAV4 (Simple)
- 2.Hilux Harness Post 2020: 2. TOYOTA/CAMRY/RAV4 (Simple)
- 3.70 Maxx Harness: 2. TOYOTA/CAMRY/RAV4 (Simple)
- 4.200 MAXX Harness: 2. TOYOTA/CAMRY/RAV4 (Simple)
- 5.NP300 Maxx Harness: 31. Nissan 2013 (Simple)
- 6.VW Maxx Harness: 13. VW-GOLF7 (Simple, Raise)
- 7.BT50 Luxx/Maxx: 24. Mazda/BT-50 (Simple)
8. Holden Colorado with mylink: 11. GM/BUICK/CHEVROLET/OPEL (Simple)

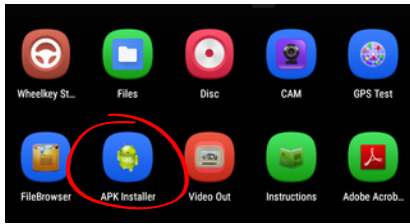
I have a Polaris wiring harness with a CANBUS module and my doors are appear on the wrong side (Left Hand Drive).

- 1.Settings > Car Settings > Factory Settings > Password: 126 > FUNC > Turn Rudder on
- 2.While you are still in the factory settings you can also go into CANBUS and change any settings in here if Rudder does not fix some of your vehicle information appearing correctly.

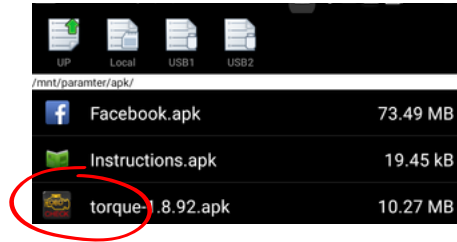
OBDII Setup

How to download the Torque app

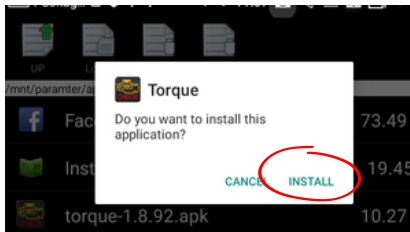
1. Select the APK installer app



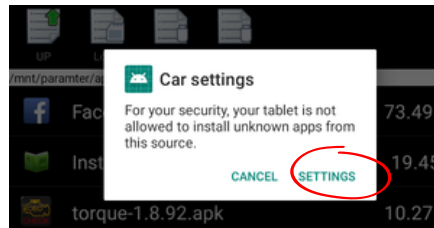
2. Select Torque in local storage



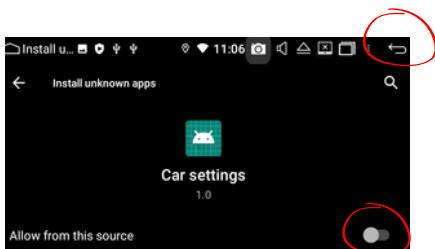
3. Install Torque app



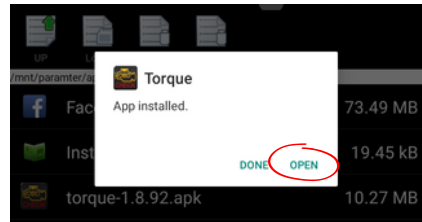
4. Settings



5. Allow and then select the return arrow to go back

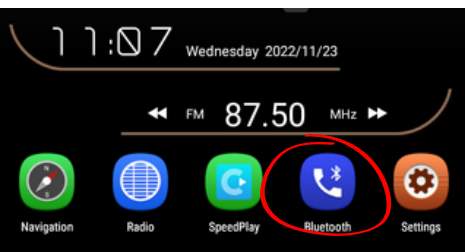


6. Once installation is complete, select Done

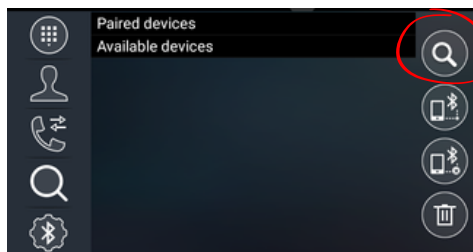


Pair OBDII to Android headunit

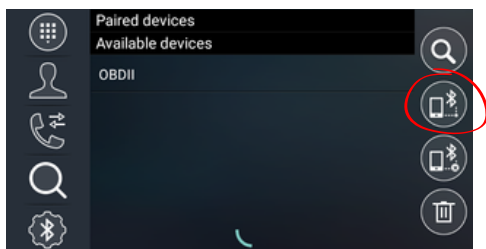
1. Select bluetooth on the main menu



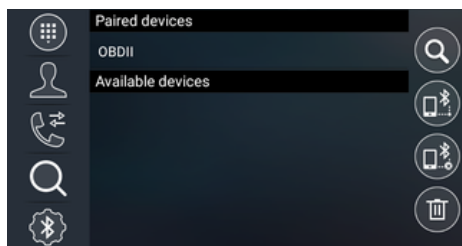
2. Select the magnifying glass to search



3. Select OBDII and then pair (circled icon)

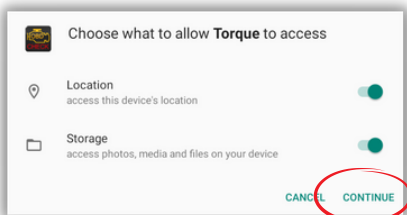


4. When successfully paired, OBDII will move into the paired devices section



How to setup the Torque app

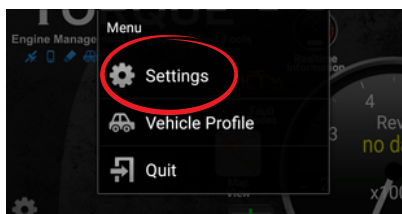
1. Open the Torque app and select continue



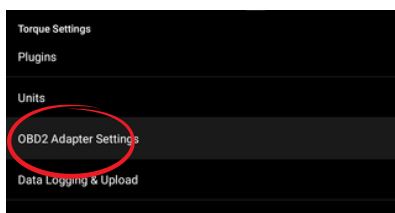
2. Select the Settings icon



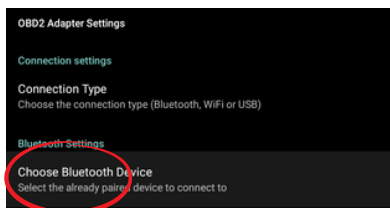
3. Select Settings



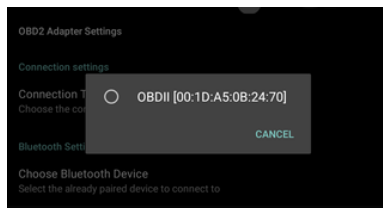
4. Select OBDII Adapter Settings



5. Choose Bluetooth Device



6. Select OBDII

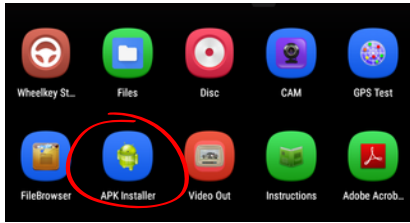


Press the return arrow and open Real Time Information

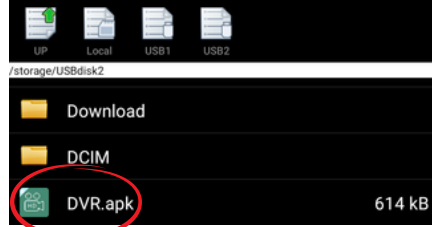
A53 Setup

How to download the DVR app

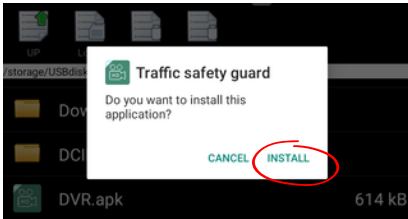
1. Select the APK installer app



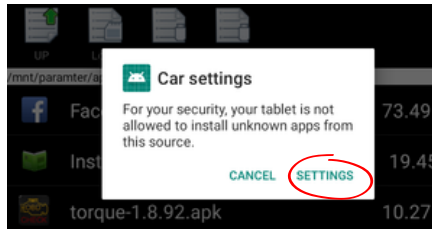
2. Select DVR in USB storage



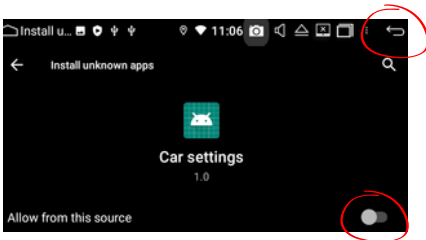
3. Install Traffic Safety Guard app



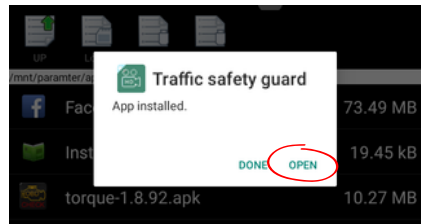
4. Settings



5. Allow and then select the return arrow to go back



6. Once installation is complete, select Done



A53 App Functions



Record sound on video



Start/Stop recording



Lock current footage



Take a photo



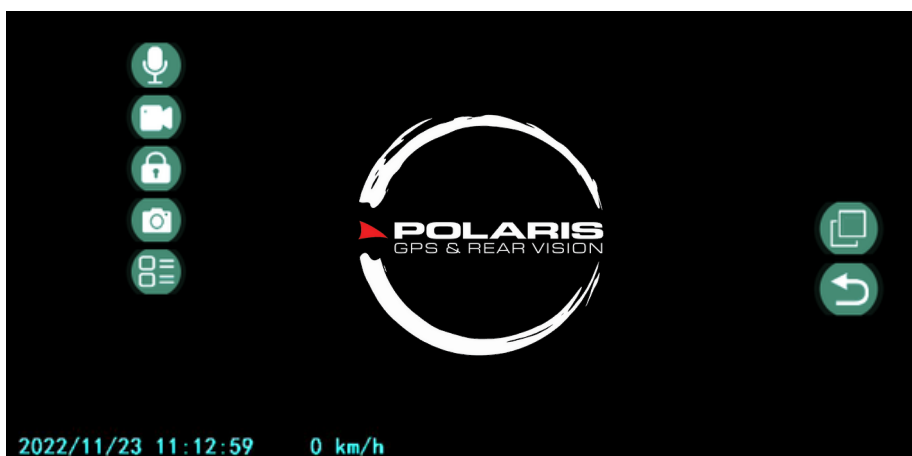
Menu - Media playback, video duration, SD format



Picture in picture mode



Exit



Date

Time

Speed