



10" ADVANCED INFOTAINMENT SYSTEM

INTEGRATED HEAD UNIT UPGRADE

to suit **TOYOTA LANDCRUISER 200 SERIES VX/SAHARA 2016-2021**



AMUTO53 INSTALLATION MANUAL

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Tools required

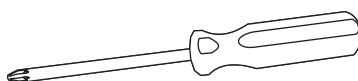
Use the following tools to make dismantling the dash and the installation of the new kit easier.

NOTE: Do not use power tools, only use the tools recommended below, and do not over tighten screws as they may damage other components. Also take care in removing trim panels as over time they may have become brittle.

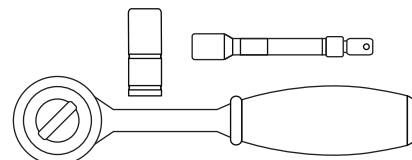
1. Plastic panel remover (pry tool)



2. Phillips Head Screwdriver



3. 10mm socket, extension, and ratchet



Product overview

The Aerpro AMUTO53 is a head unit replacement kit to suit the Toyota Landcruiser 200 Series Sahara & VX* (*VX only from 2016-2021) models. These kits are Australian designed and engineered to replace the original Toyota head unit and retain the vehicles original functions* while adding features such as Apple CarPlay, Android Auto, larger 10.1" High Definition display, Dual USB input, and an additional High Definition camera input.

Inclusions

- Infotainment unit
- Infotainment monitor with physical buttons
- Mounting brackets and screws
- Power harness
- LVDS cable
- MOST / GPS / DAB / USB / 360 retention harnesses
- Audio visual lead
- 720p AHD Surface Mount Camera

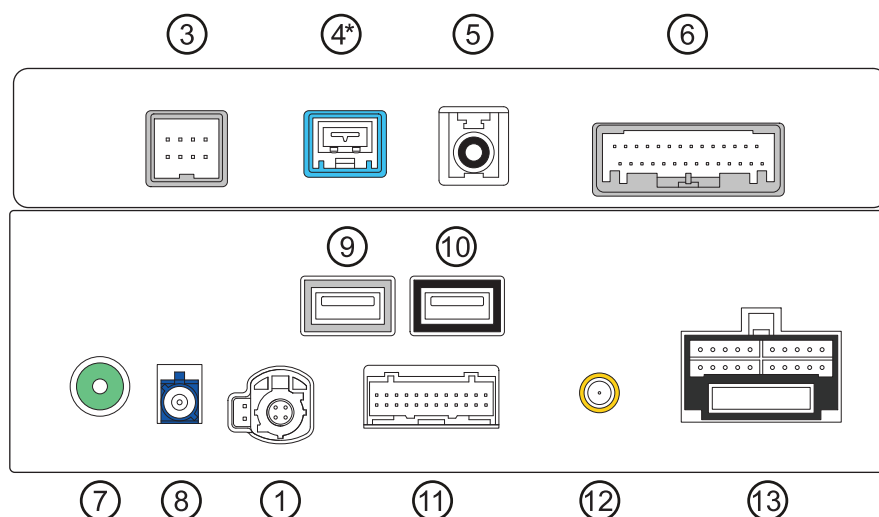
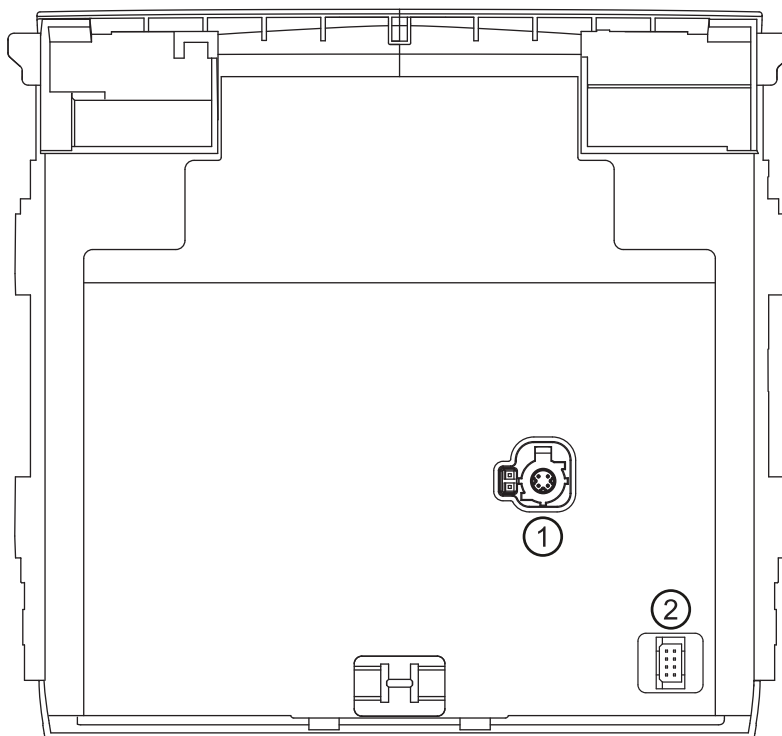
Pre-installation checks

Prior to disassembling the dash and removing the original head unit perform the following checks to determine their functionality:

- | | |
|---|--|
| ☐ Steering wheel controls | ☐ Factory vehicle settings |
| ☐ 360 degree camera | ☐ Bluetooth microphone |
| ☐ Parking sensors front / rear | ☐ Audio output and adjustment |
| ☐ Climate controls | ☐ AM / FM / DAB |
| ☐ Hazard light switch | ☐ USB port |
| ☐ Factory reset system Settings | |

Connection wiring diagram

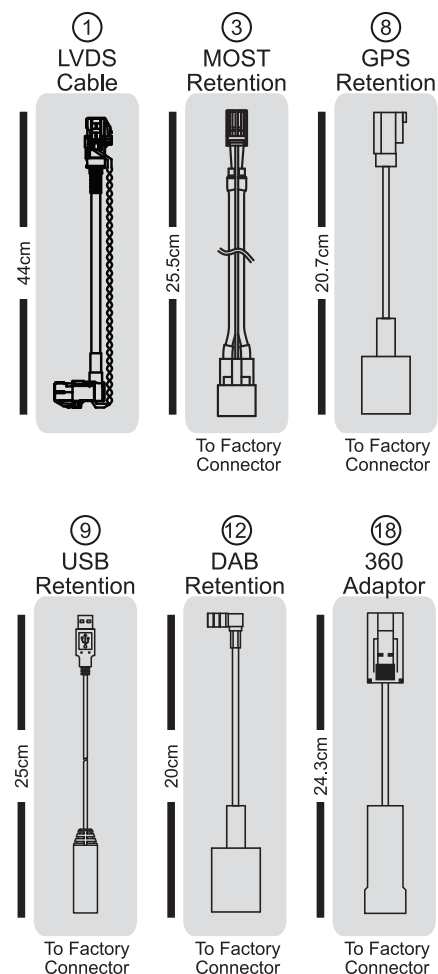
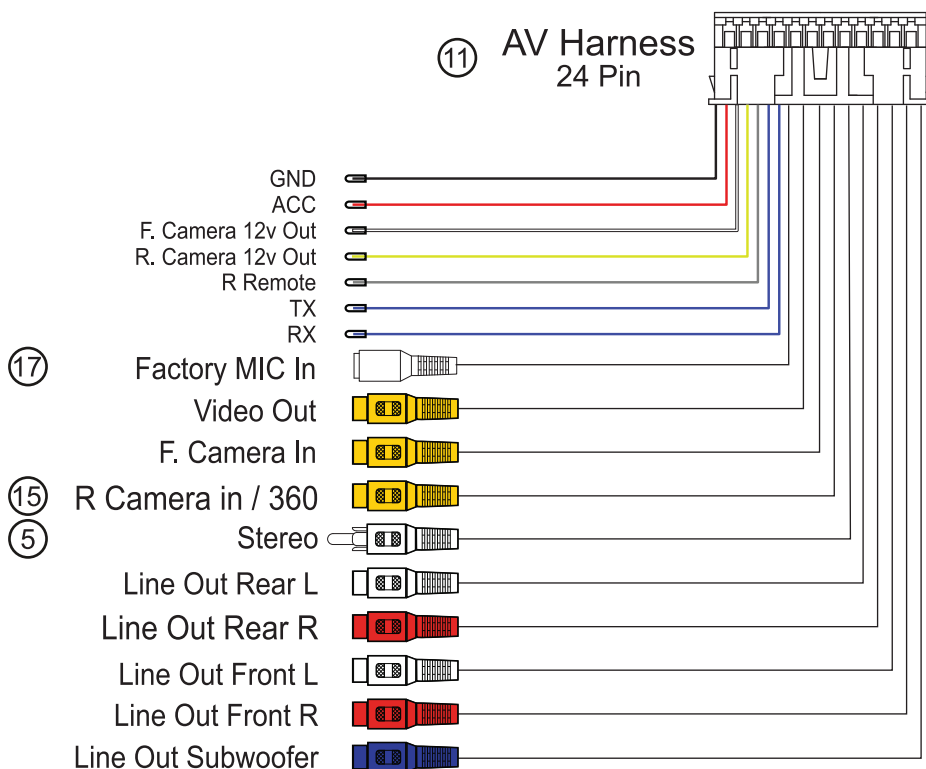
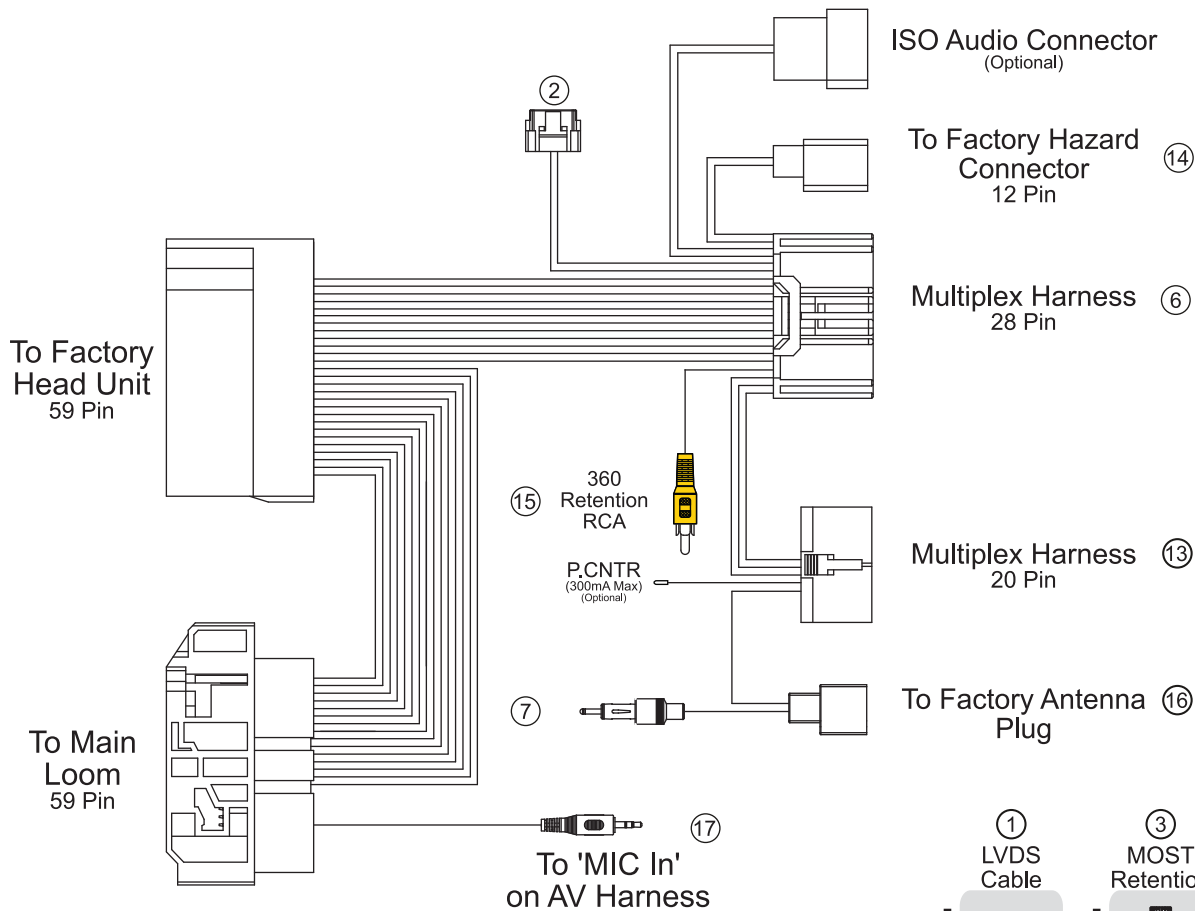
- 1 LVDS Monitor
- 2 Segment Display & Buttons
- 3 MOST Connector
- 4 Factory 360 Camera*
- 5 MOST Stereo Connector
- 6 Multiplex Connector
- 7 AM/FM Antenna Plug
- 8 GPS Antenna Plug
- 9 USB 1: CP/AA
- 10 USB 2: Media
- 11 AV Harness
- 12 DAB Antenna Plug
- 13 Multiplex Harness
- 14 Hazard Connector
- 15 360 Camera RCA
- 16 AM/FM Antenna Adaptor
- 17 Microphone
- 18 360 Camera Adaptor (*To be connected to No.4 pictured below depending on vehicle. See P. 25*)



NOTE: Numbered Plugs are mandatory
for head unit to function correctly.

**Not required if AMUTO53 comes with camera module*

Wiring diagram



Dash disassembly

Remove the panel which is located by the left knee of the driver by pulling it firmly toward yourself. Place this panel aside.



Remove the 10mm bolt indicated in figure 1.



Fig.1

Dash disassembly cont.....

There is a black clip located in the circle below that requires to be pushed in the centre to release.



Remove the panel with the engine start / stop button by pulling it firmly on an angle toward yourself as indicated in figure 2.



Fig.2

Dash disassembly cont.....

Disconnect the harness leading to the engine start / stop button. Place this panel aside.

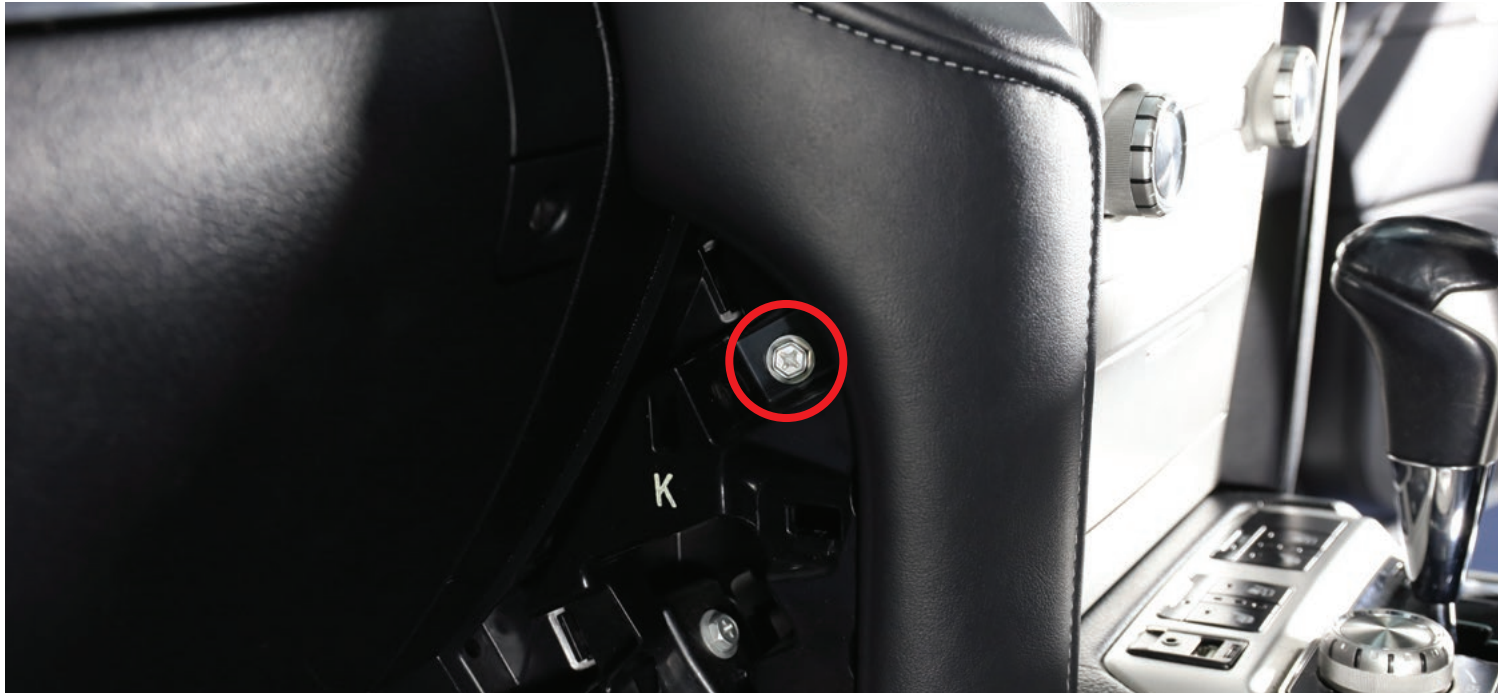


Repeat the process on the opposite side, remove the panel located by the right knee of the passenger by pulling it firmly toward yourself. Place this panel aside.

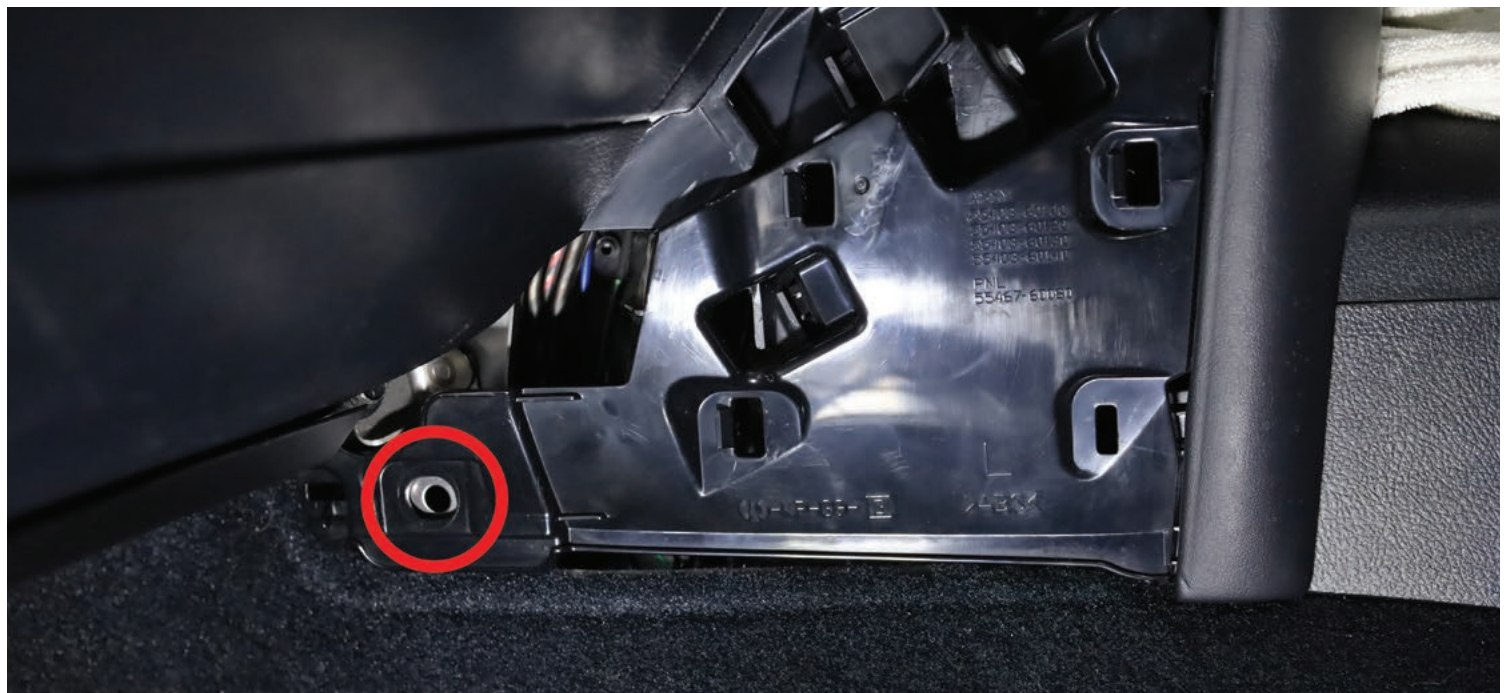


Dash disassembly cont.....

Remove the 10mm bolt as per previous side.



There will be another black clip, same as the other side, again requiring to be pushed in the centre to release.



Dash disassembly cont.....

Remove the panel indicated in figure 3 as per the previous side. Place this panel aside.



Using either the physical key of the vehicle or a flat head screw driver, remove the cover over the transmission levers shift lock.



Dash disassembly cont.....

Once the shift lock cover has been removed, using either the physical key or a flat head screw driver, press the shift lock button down to allow you to move the transmission lever down to the Drive position, out of the way.



Remove the storage compartment panel below the stereo controls by pulling firmly toward the rear of the vehicle (You may require the connected harnesses to be disconnected to have this panel completely removed). Place this panel aside.



Dash disassembly cont.....

Remove the air vents from both sides by gently using a plastic pry tool around the edges to detach them from the dash. Place them both aside.



Dash disassembly cont.....

Remove the grille at the top of the dash by gently using a plastic pry tool along the front edge and both sides to release the clips. Once lifted out of its place, disconnect the light sensor harness attached to it. Place this panel aside.



Dash disassembly cont.....

Remove the 2x 10mm bolts from under the grille at the top of the dash indicated in figure 4 and place them aside.



Fig.4

Remove the 2x 10mm bolts from behind the air vents either side of the stereo indicated in figure 5/6 and place them aside.



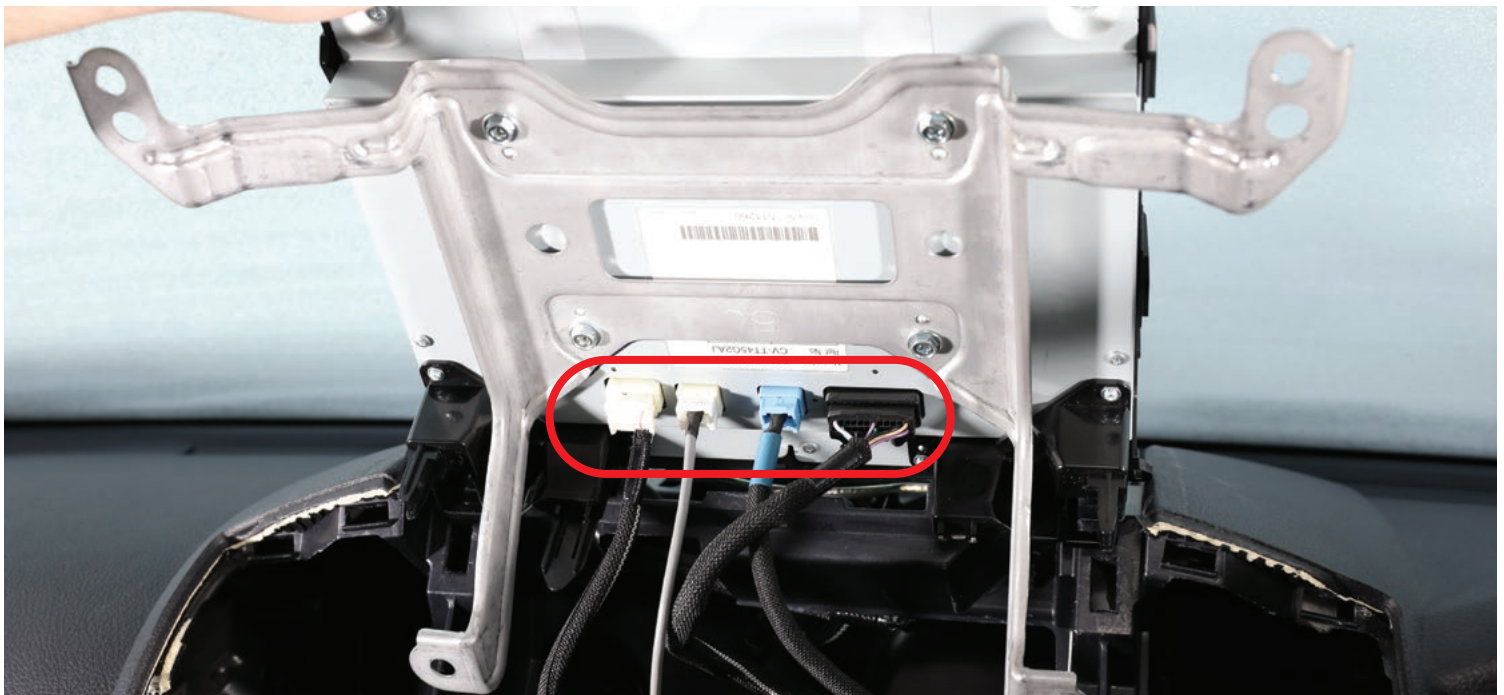
Fig.5



Fig.6

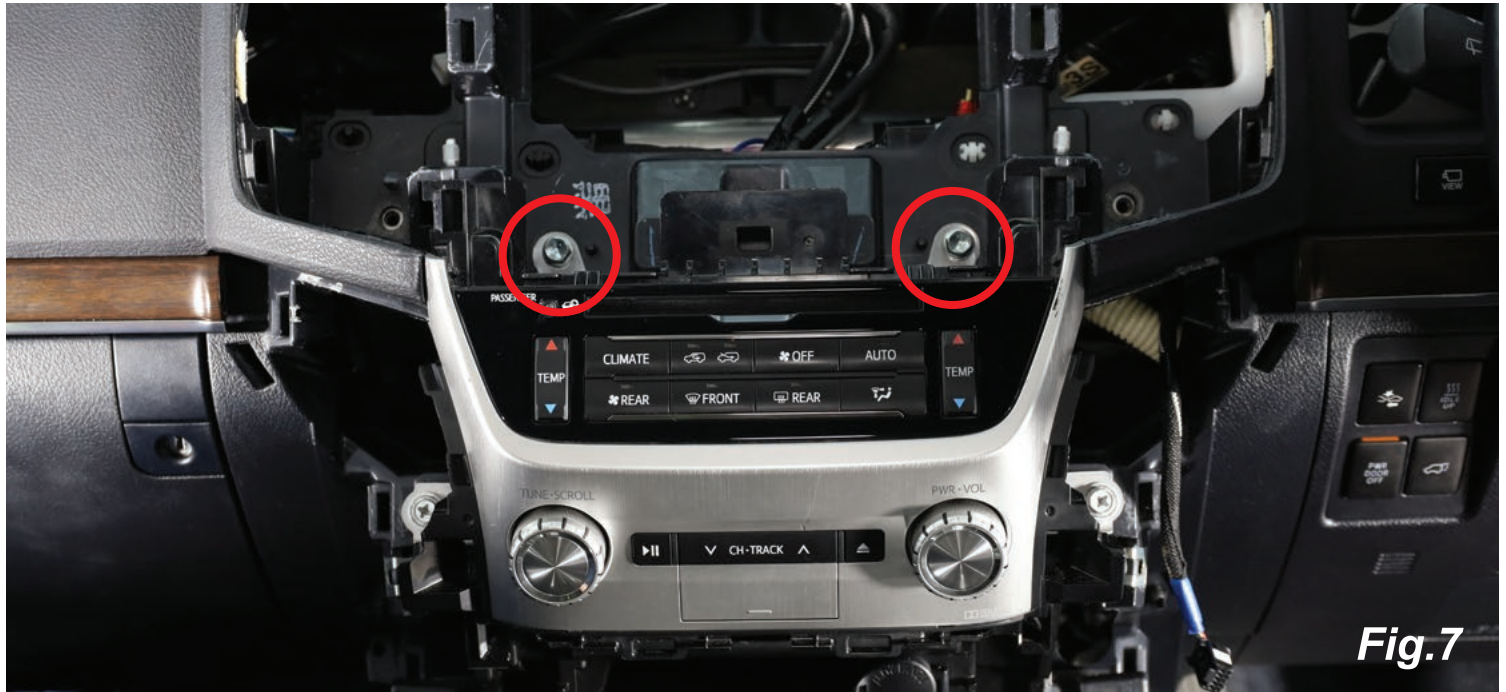
Dash disassembly cont.....

Remove the original screen by pulling it firmly toward the rear of the vehicle. Once the clips have been released it can be flipped up to allow the 4x harnesses to be disconnected. This panel will no longer be required.

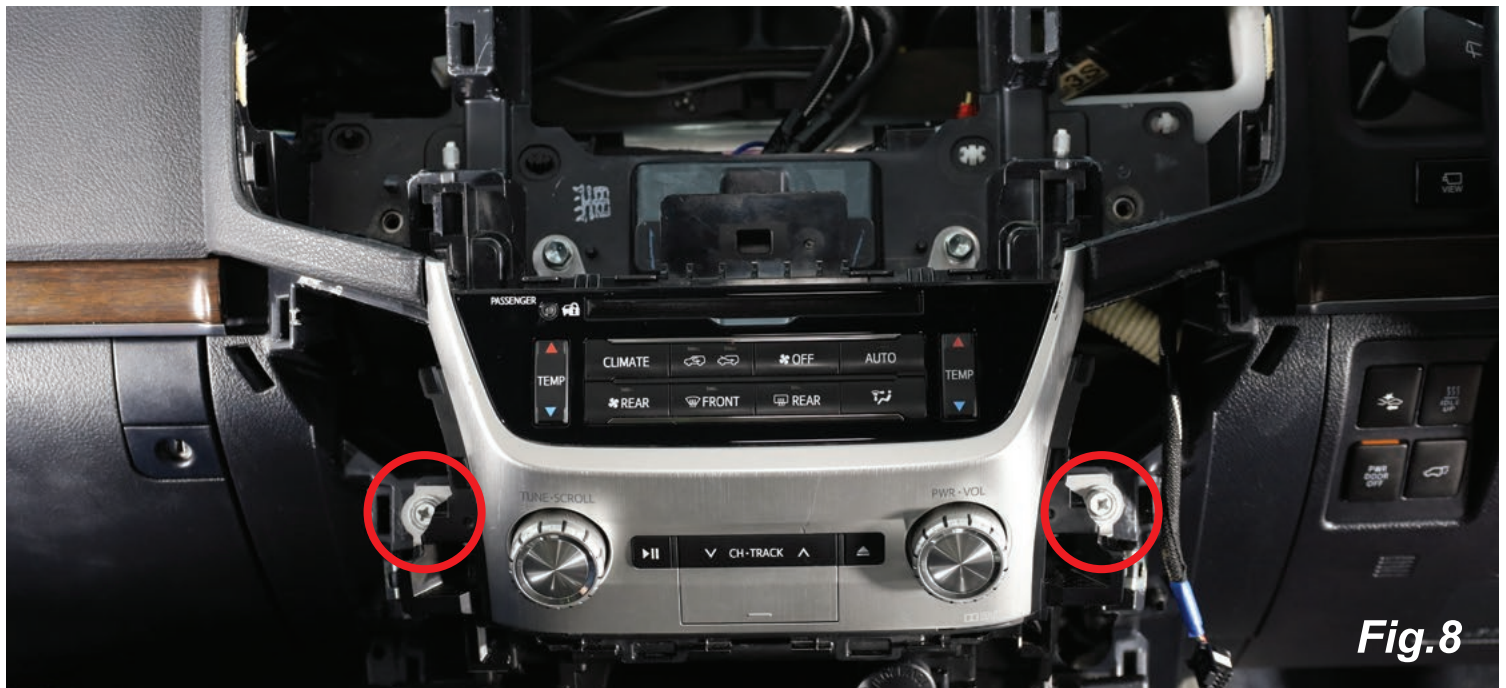


Dash disassembly cont.....

Remove the 2x 10mm bolts from behind the original screen indicated in figure 7 and place them aside.



Remove the 2x 10mm bolts from beside the 2x original dials indicated in figure 8 and place them aside.

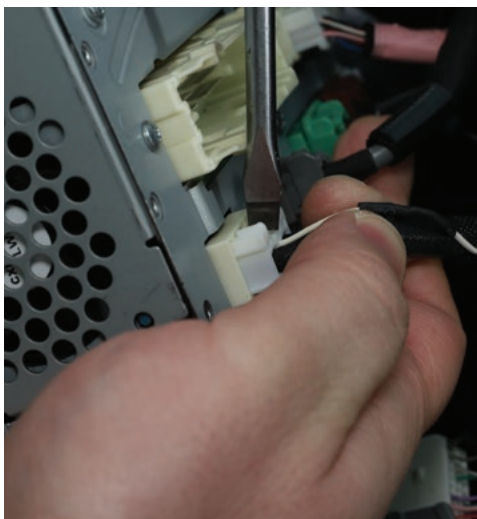


Dash disassembly cont.....

Remove the original climate controls and stereo dials by pulling them firmly toward the rear of the vehicle. Once the clips have been released you can access and disconnect the 9x harnesses. Place this unit aside.



Dash disassembly cont.....



Head unit assembly

On a workbench attach the mounting brackets to the new head unit using the 8 x supplied Phillips head screws. The brackets and new head unit chassis are marked "L" and "R" to designate which sides they are to be mounted to.

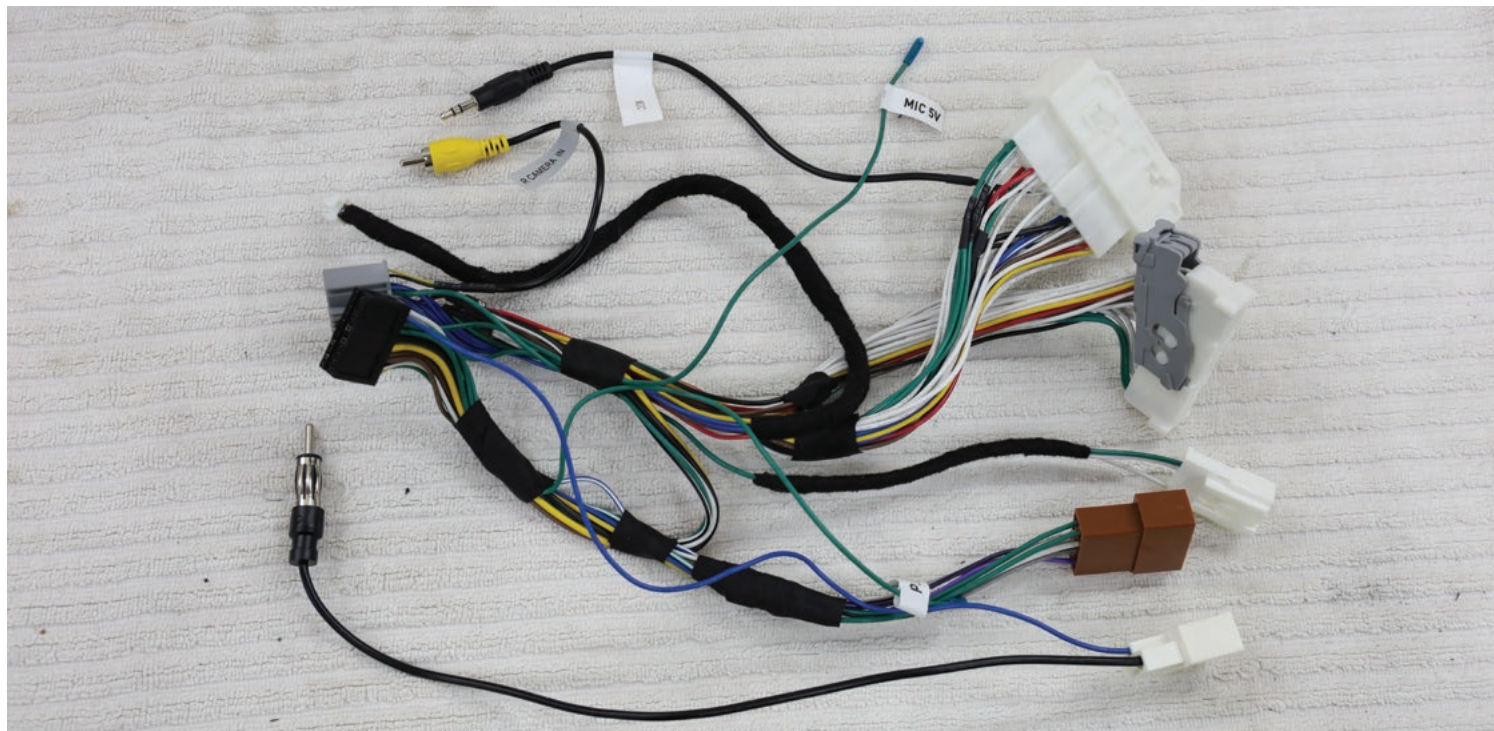


Head unit assembly cont.....



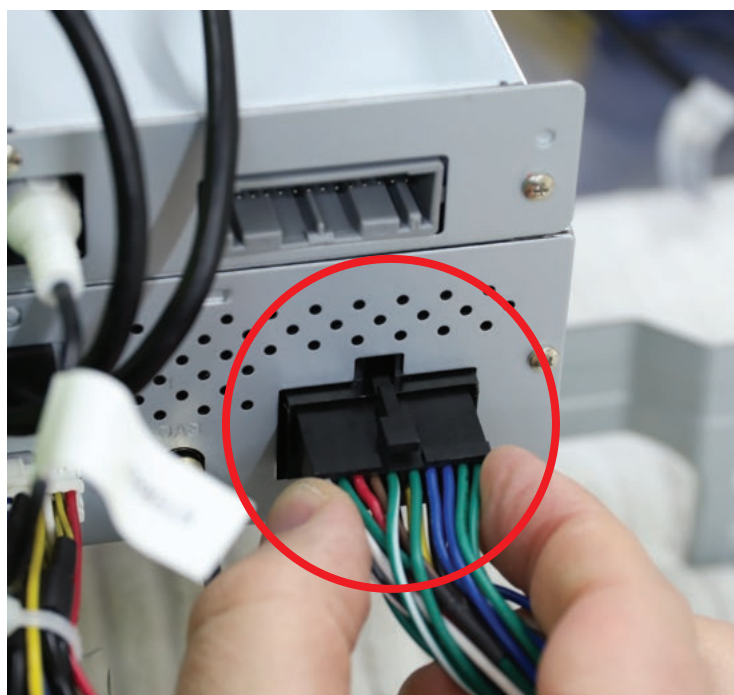
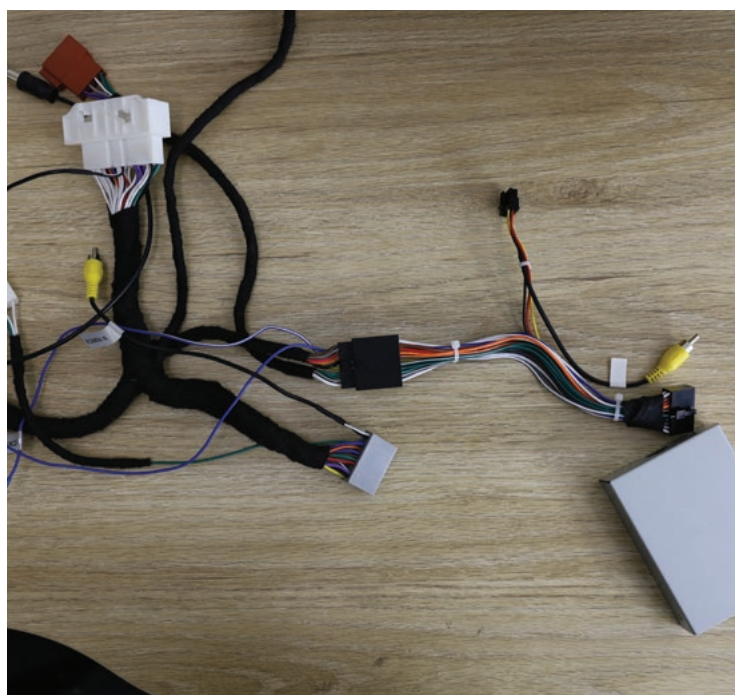
Wiring

Connect the wiring harnesses supplied with the new kit to the new head unit as indicated in the wiring diagram on pages 3-4 and then to the vehicles original harnesses



NOTE: The following connections need to be made to the head unit while on the workbench. Main power harness (black 20-pin plug) (13)

DO NOTE if your AMUTO53 comes with a seperate module then you would need to plug the main power harness into that T-Harness. See page 27 for additional instructions regarding the camera module



Wiring cont.....

Multiplex harness (grey 28-pin plug) (6)



AV harness (white 24-pin plug) (11)



Wiring cont.....

AM/FM antenna adaptor plug (7)



GPS antenna adaptor plug (8)



Wiring cont.....

LVDS lead plug (1) (If your AMUTO53 comes with a right angle cable instead, please plug the right angle side into the headunit)



DAB antenna adaptor plug (12)



Wiring cont.....

Stereo RCA (white RCA plug from AV harness labelled "Stereo" connects to RCA socket labelled "Stereo") (5)



MOST harness (grey 8-pin plug) (3)



Wiring cont.....

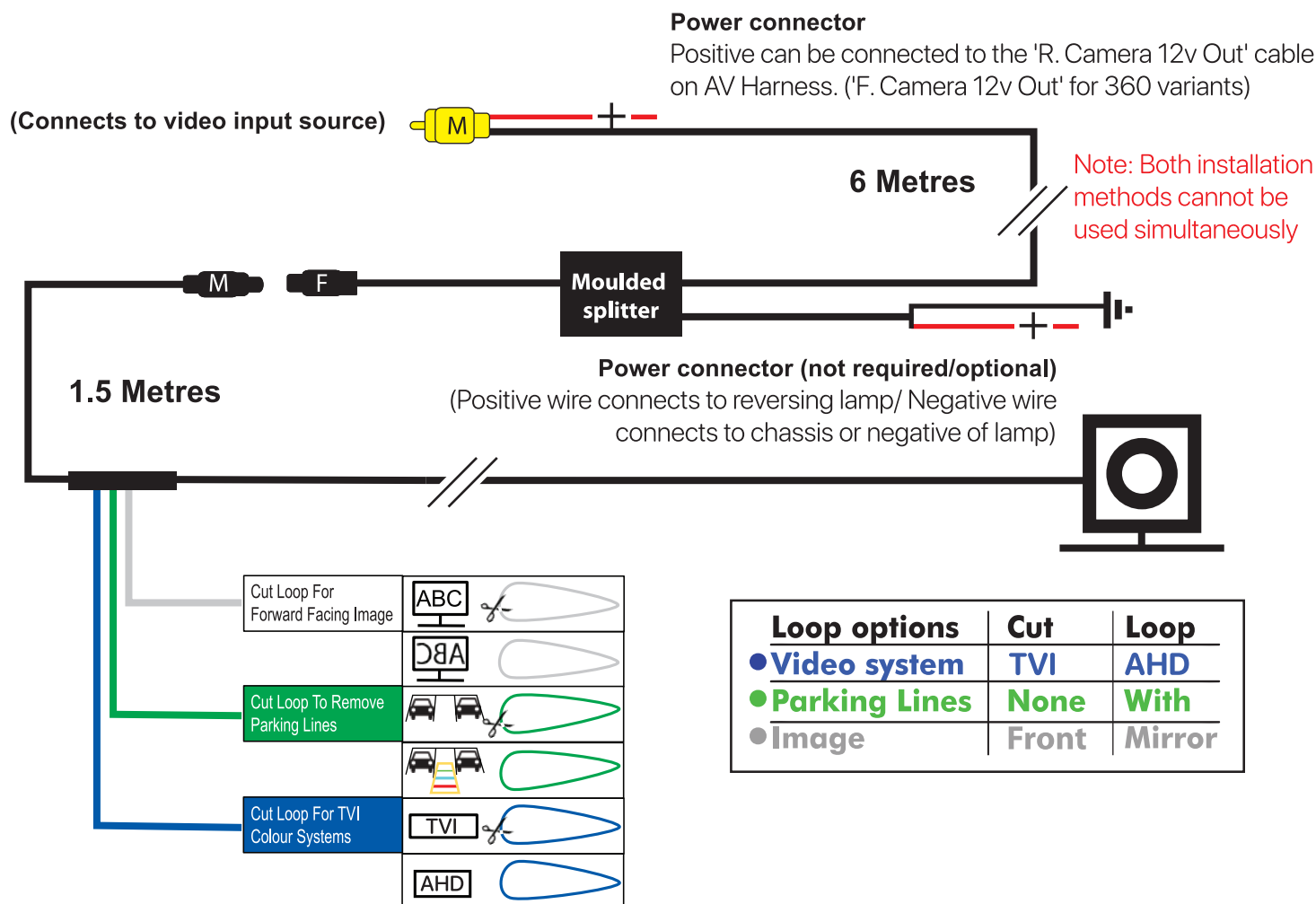
Attention: Vehicles without 360 camera (Reverse Camera Models).

Your factory reverse camera is required to be upgraded using the supplied AHD 720p reverse camera. This kit has not been configured to retain the original reverse camera as it is low resolution. Upgrading the camera is necessary to retain the reverse camera function.

Supplied is an AHD 720p camera designed for replacing the reverse camera of your non-360 camera vehicle. However if you have a vehicle with 360 camera support, this can instead be used as a secondary camera.

You can wire it up using the reverse lights of the vehicle or connect it to the head units AV harness's camera power outputs (R. Camera 12v Out / F. Camera 12v Out)

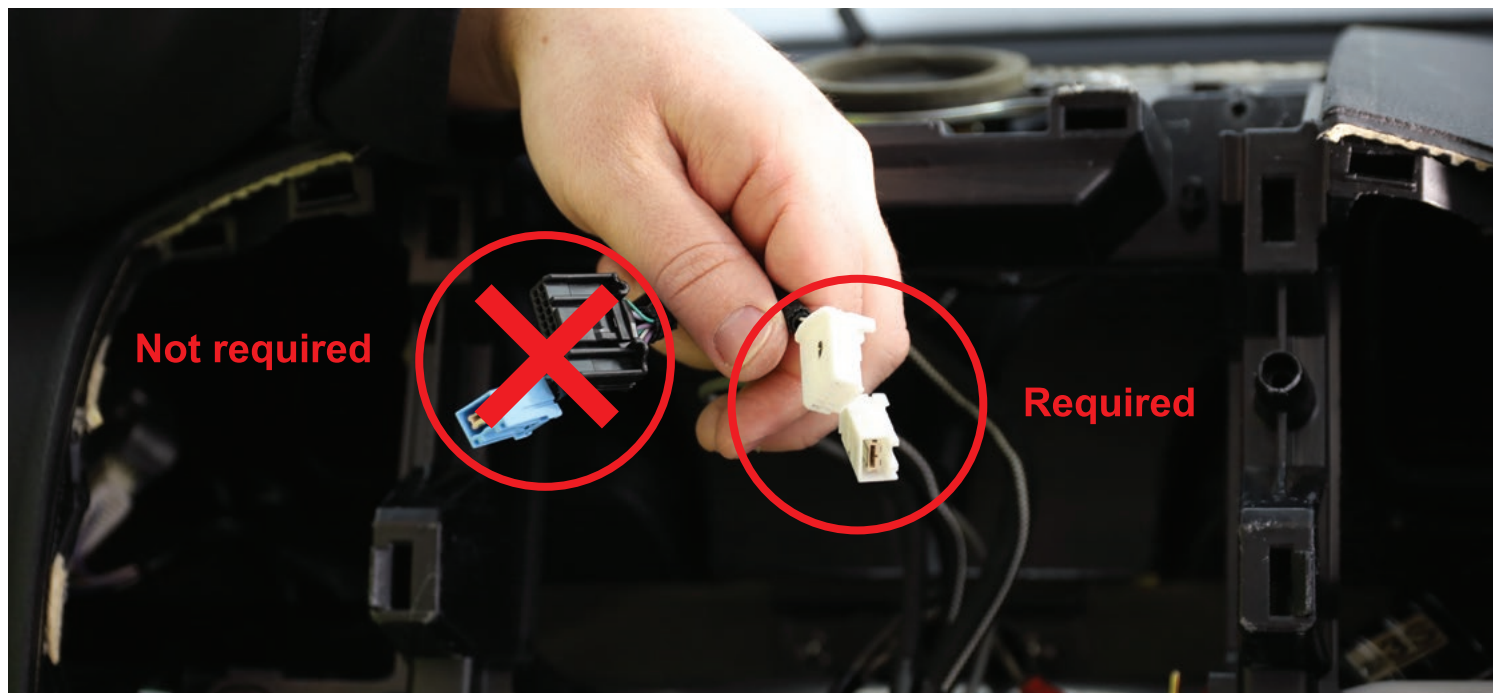
NOTE: Putting the vehicle in reverse will send 12v out from the 'R. Camera 12v Out' cable. Pressing the second camera icon on the homescreen will send 12v out from the F.Camera 12v Out cable.



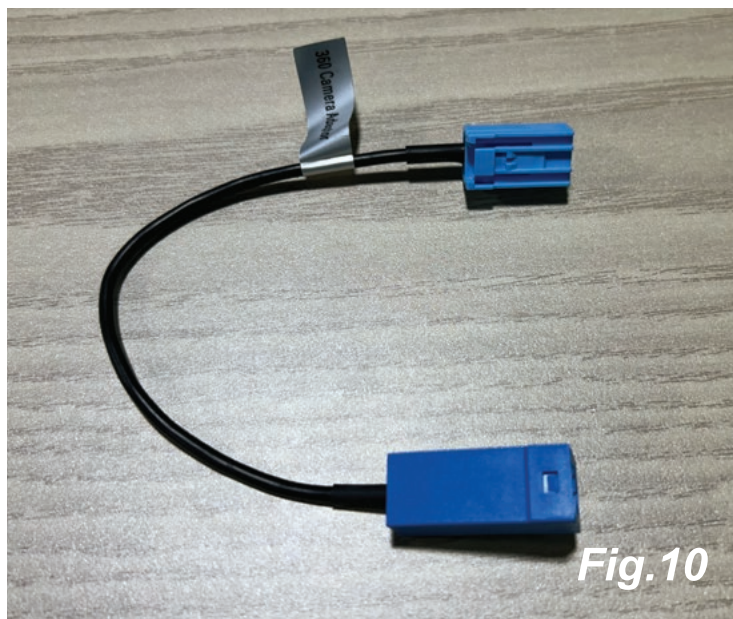
Wiring cont.....

NOTE: The following connections need to be made to the head unit in the vehicle.

The following leads pictured below are required to retain the Hazard switch and 360 degree camera. The white 12-pin Hazard switch plug in the vehicle will connect to the white 12-pin Hazard switch socket of the new harness (14). The square 360 degree camera plug connects to the 360 degree camera socket on the included camera module. (More info on P.27)



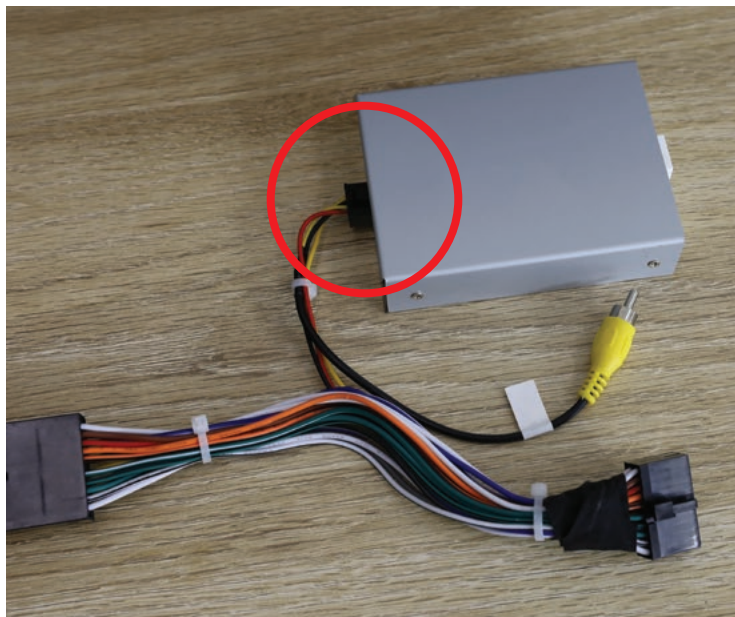
For the Australian region, the 360 camera plug is white or black and not blue. If your vehicle has a 360 camera connector like Figure 9 then before continuing you will need to use the blue 360 camera adaptor shown in Figure 10.



Wiring cont.....

If your AMUTO53 came with a AHD camera module then please follow the below instructions. Now would be a good time to connect the camera module box using the molex connector from the T-Harness we connected eariler.

Also ensure that the R.Camera/360 Camera input RCA from the AV Harness is connected to the AHD 360 Camera Out RCA from the T-Harness of the camera module.



NOTE: Camera module design used in images is not final. Final module design may differ.

Plug the factory 360 camera connector directly into the camera module picture in figure 11.

If you are using the 360 camera adaptor then you would insert the blue end of that plug into the camera module.

An ideal location for the camera module would be the vacant section underneath the headunit, pictured in figure 12.

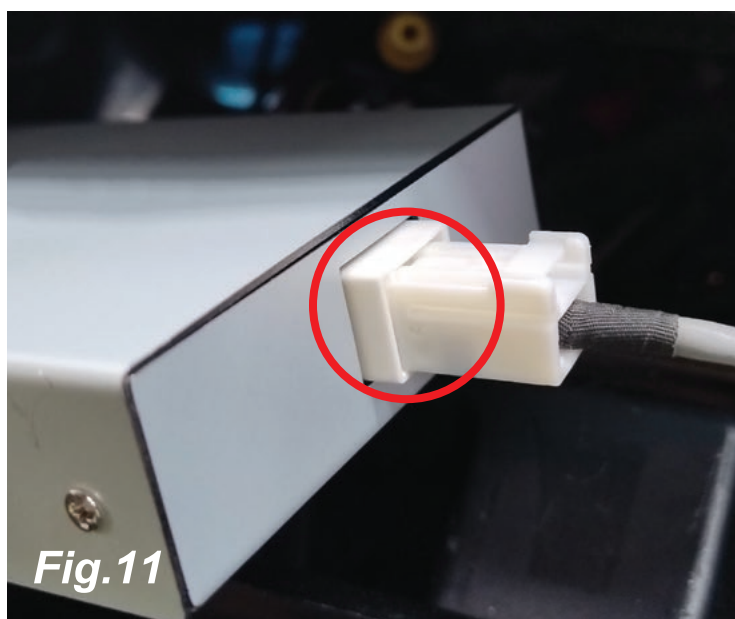


Fig.11

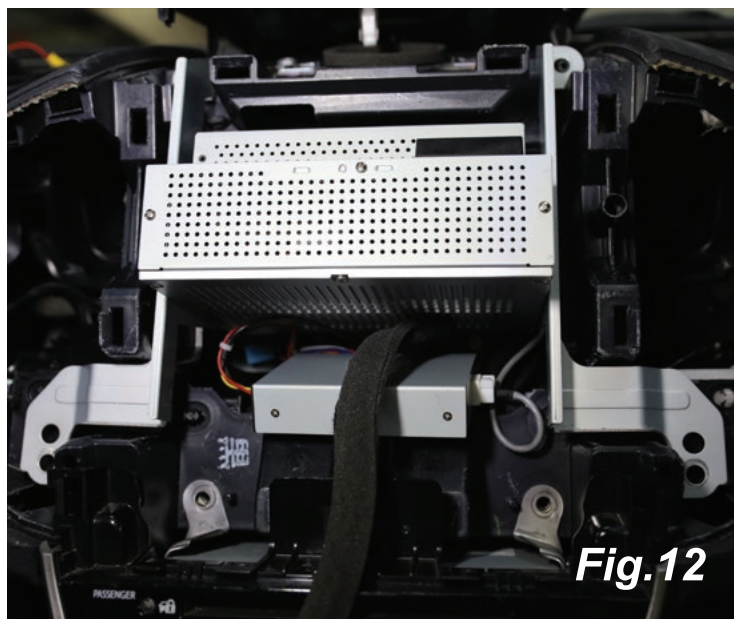


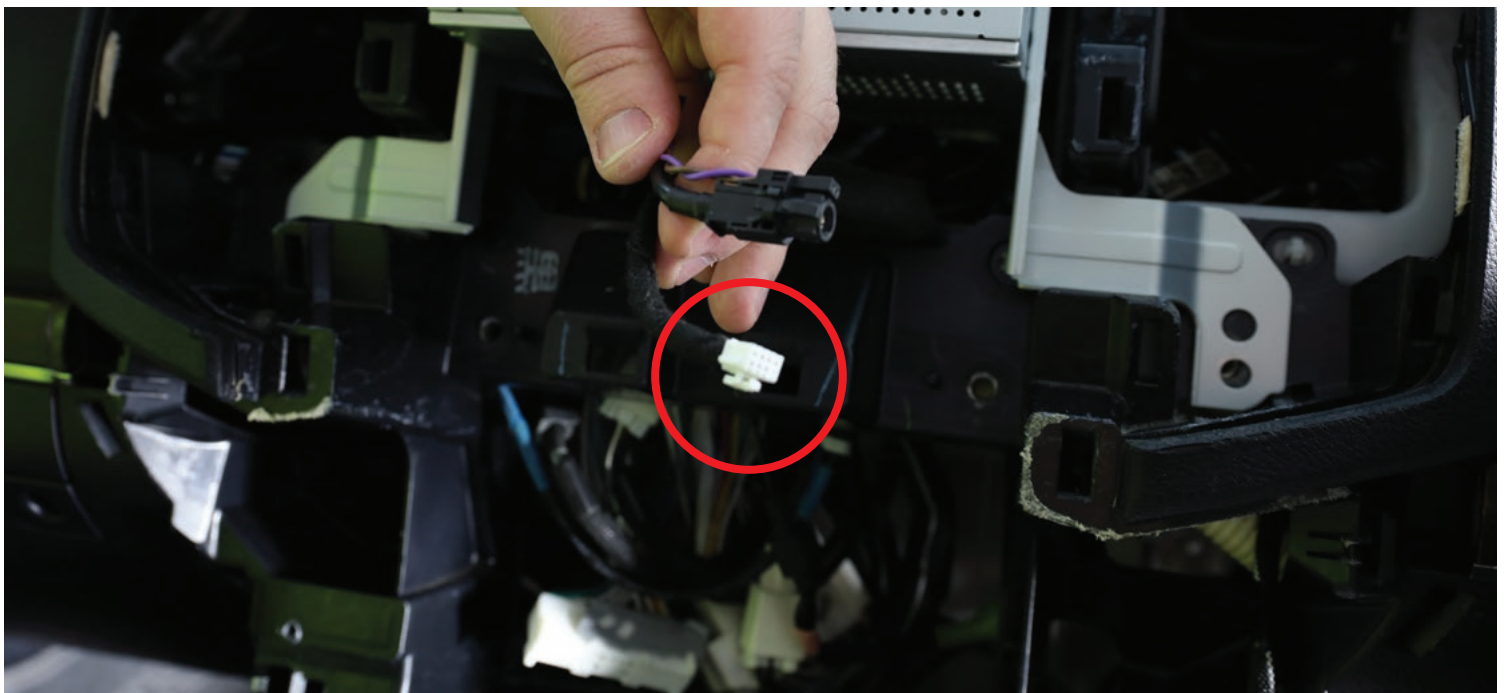
Fig.12

Wiring cont.....

The following leads are to be routed beside or underneath the new head unit but above the plastic dash support (these will connect to the new display): LVDS lead (1)



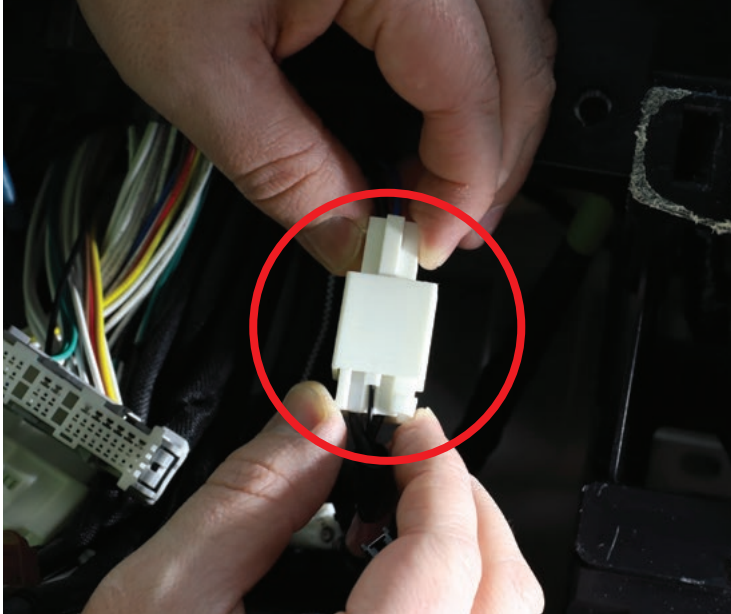
Hazard switch and climate display harness (white 8-pin plug) (2)



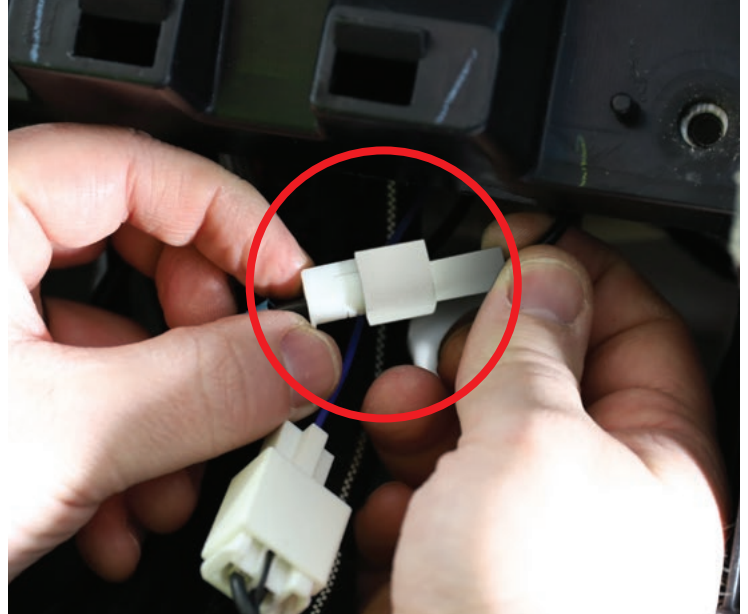
Wiring cont.....

The following leads are to be routed down behind the plastic dash support and connected to their corresponding original harnesses.

AM/FM antenna adaptor (7)



GPS antenna adaptor (8)



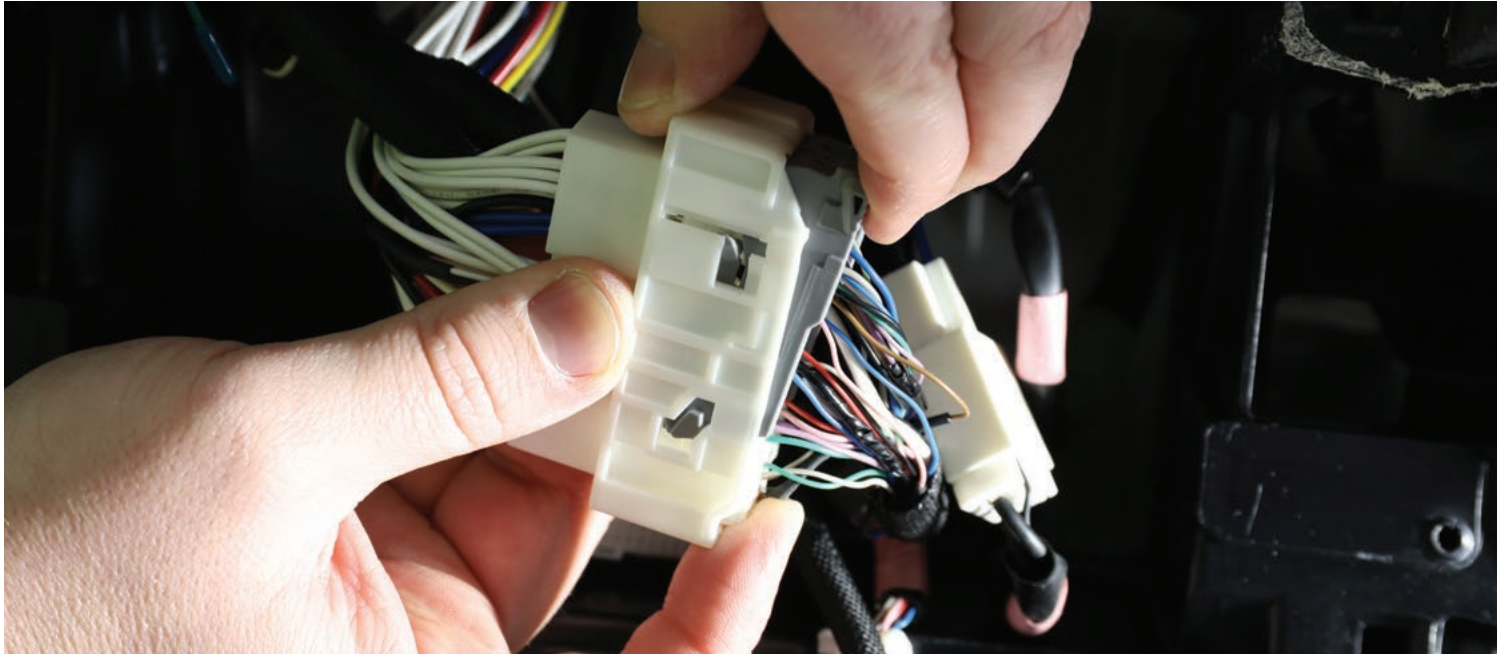
DAB antenna adaptor (12)



Wiring cont.....

The following leads are to be routed down behind the plastic dash support and connected to the original climate control system. Locking multiplex harness (white 59-pin plug and socket)
The new 59-pin plug is to be connected to the socket of the original head unit.

NOTE: Make sure that the connection is done slowly, ensuring that all the pins make contact and aren't bent or loose on installation.



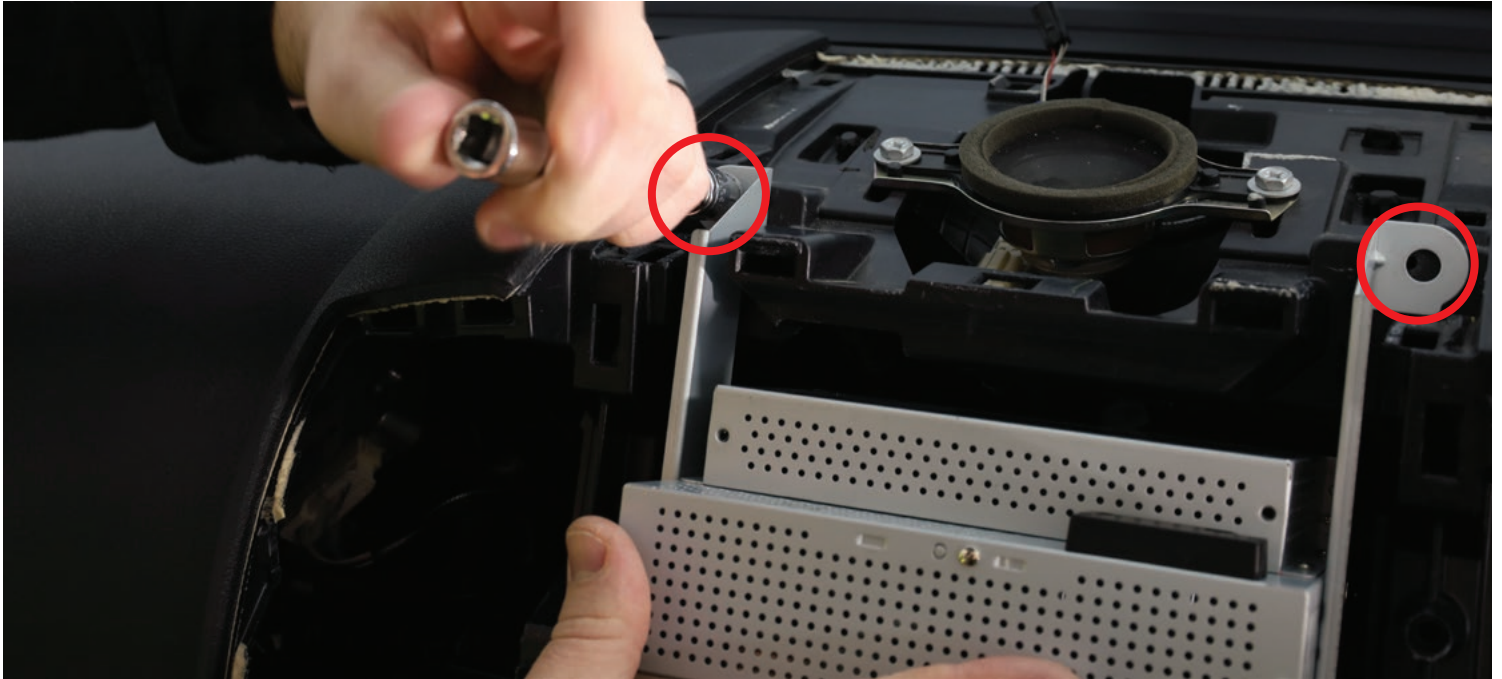
The new 59-pin socket is to receive the original 59-pin plug which was disconnected from the original climate control system.

Do not connect anything other than the 59-pin plug to the back of the climate control system. Connecting other factory plugs may interfere with the functionality of the new head unit.



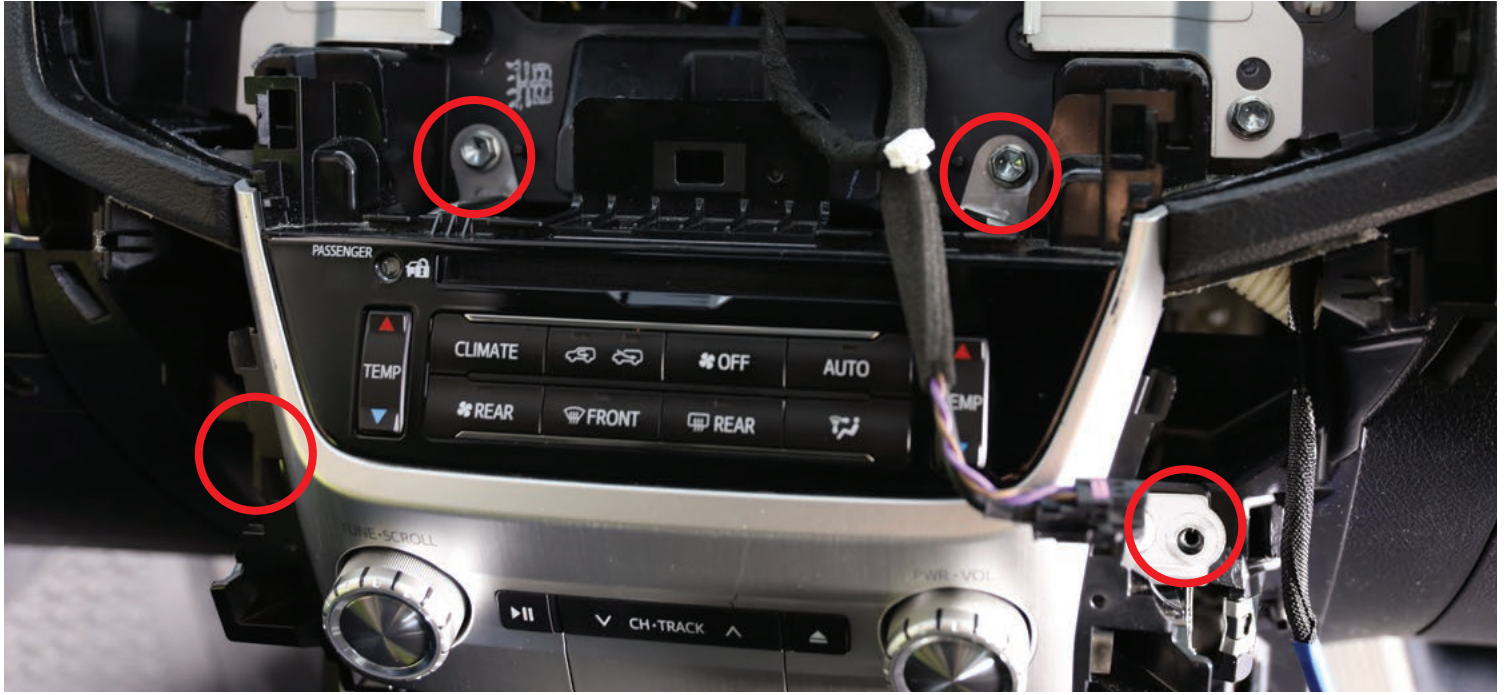
Dash reassembly

The new head unit can be secured into the dash using 4x of the 10mm bolts which have been placed aside.

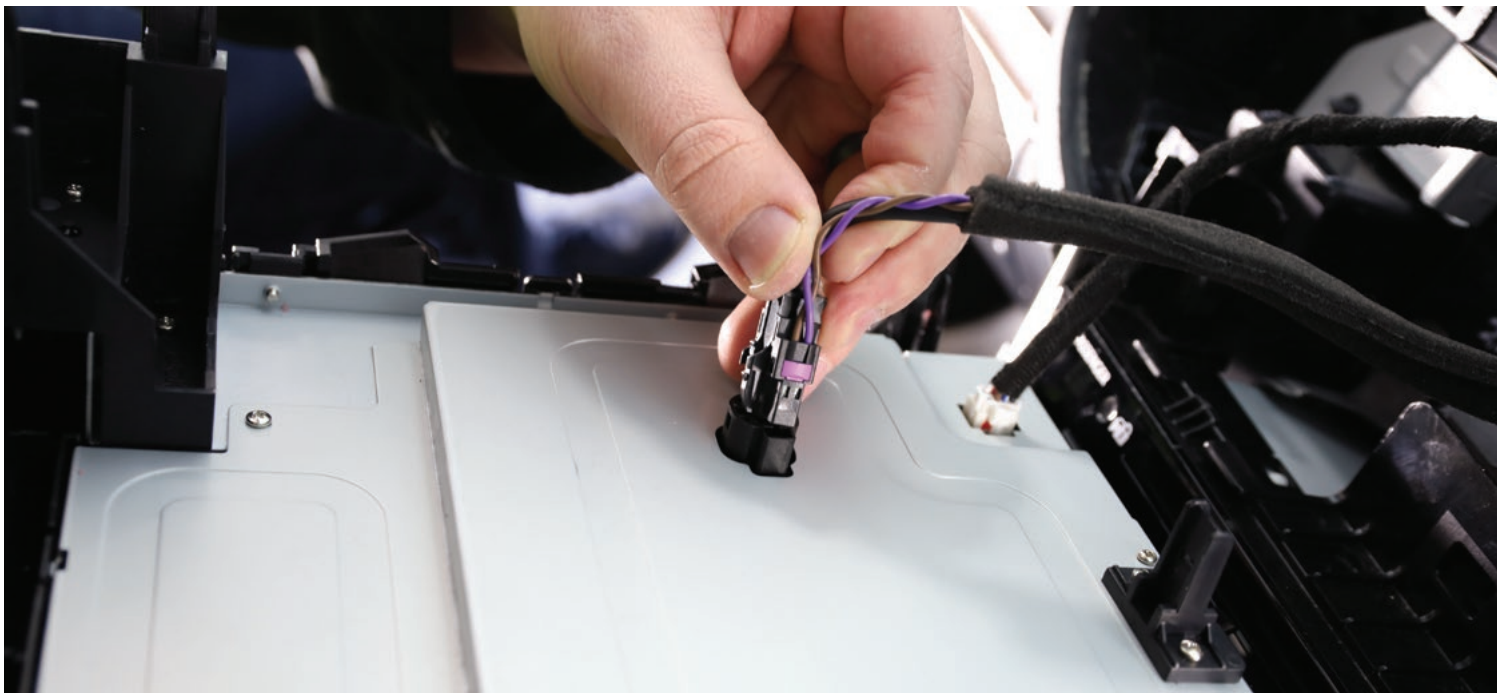


Dash reassembly cont.....

The original head unit including the original climate controls can be secured into the dash using 4x of the 10mm bolts which have been placed aside.



The new display can be connected using the LVDS plug (1) and the hazard switch plug (white 8-pin plug) (2)



Dash reassembly cont.....

The new display can be clipped into its place by firmly pushing it in with even pressure by hand.



The dash top panel can be replaced by first connecting the original light sensor harness and then clipping it into place by firmly pushing it down with even pressure by hand.



Dash reassembly cont.....

The air vents can be replaced by firmly pushing them into place with even pressure by hand



The pocket below the original stereo can be replaced by firmly pushing it into place with even pressure by hand. (You may require the harnesses to be reconnected before replacing this panel).



Dash reassembly cont.....

The transmission lever can now be returned to the Park position and the shift lock cover replaced



The start / stop button can be reconnected.



Dash reassembly cont.....

The panel and its equivalent on the passenger side can be clipped back into place and secured with the 2x remaining 10mm bolts and 2x clips.



The panels by the drivers left knee and the passengers right knee can both be clipped back into place



Testing the new unit

Perform the following checks to determine their functionality:

- ☐ AM / FM / DAB
- ☐ Apple CarPlay
- ☐ Android Auto
- ☐ Audio output and adjustment
- ☐ Bluetooth microphone
- ☐ Steering wheel controls
 - ☐ Volume up / down
 - ☐ Track change next/ previous
 - ☐ Mode
 - ☐ Voice control
 - ☐ Phone buttons answer / hang up
- ☐ USB ports
- ☐ 360 degree camera
 - ☐ View change button
- ☐ Parking sensors front / rear
- ☐ Climate controls
 - ☐ AC function
 - ☐ Temperature up / down
 - ☐ Vent location
 - ☐ Air re-circulation
 - ☐ Fan speed
 - ☐ 4-zone setting
 - ☐ Demisters front / rear
 - ☐ Outside temperature
- ☐ Hazard light switch
- ☐ Factory vehicle settings
 - ☐ Sound settings (Change sound settings to update vehicle info)
 - ☐ Rear system* (*Sahara only)
 - ☐ Door lock settings
 - ☐ Climate settings
 - ☐ Light settings
 - ☐ Toyota park assist settings
- ☐ Inclinator (after calibration, refer user manual)
- ☐ Second camera (if fitted)

Technical assistance

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

TEL: 03 – 8587 8898

FAX: 03 – 8587 8866 Mon-Fri 9am – 5pm AEST or EMAIL: service@tdj.com.au

If you would like to download a digital copy of this manual, or other Aerpro manuals/software, please visit the Aerpro.com website and search for the product model number for more information, accessories and products.

This manual is considered correct at time of printing but is subject to change. For latest manuals and updates refer to the website.

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10-02-2026