Aerpro®
In-Car Tech Solutions

# 9" ADVANCED INFOTAINMENT SYSTEM

## INTEGRATED HEAD UNIT UPGRADE

to suit **LANDCRUISER 200 SERIES SAHARA (2010-2011)**




# **AMU**TO51B
# INSTALLATION MANUAL

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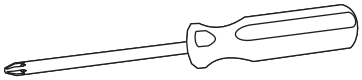
## Tools Required

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.*

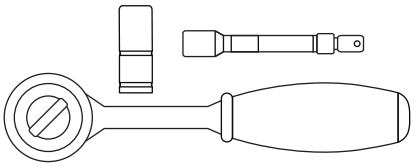
**1. Plastic panel remover (pry tool)**



**2. Phillips Head Screwdriver**



**3. 10mm socket, extension, and ratchet**



## Product Overview

The Aerpro AMUTO51B is a head unit replacement kit to suit the Toyota Landcruiser 200 Series Sahara 2010-2011 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 9” High Definition display, DAB+ & Dual USB inputs.

## Inclusions

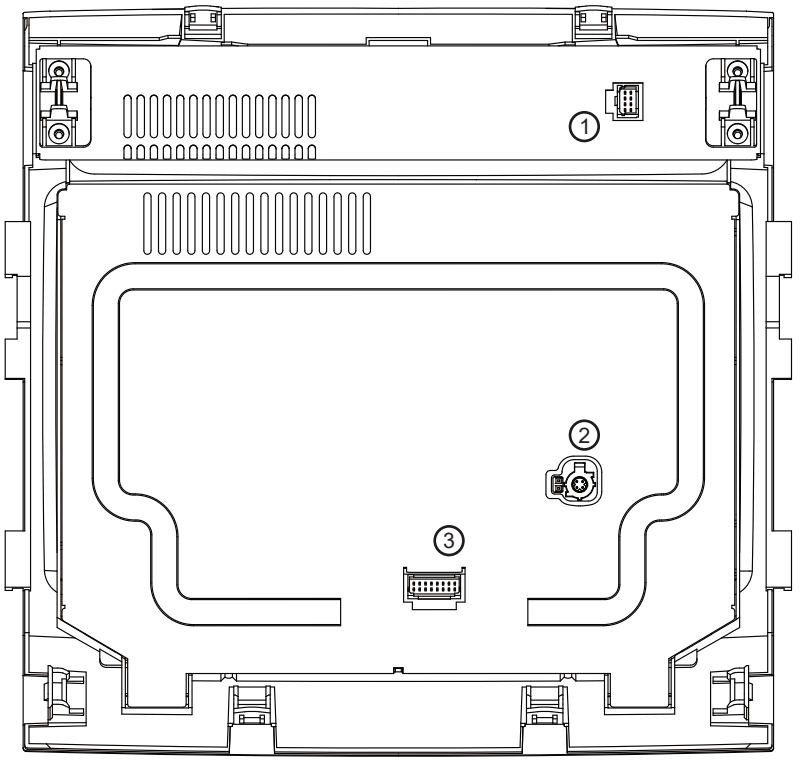
- Infotainment unit
- Infotainment monitor with physical buttons
- Mounting brackets and screws
- Main harness
- LVDS cable
- GPS Adaptor
- Audio Visual (AV) harness
- DAB+ Antenna
- External Microphone with Clip-on bracket
- Stick-on Microphone bracket
- Dual USB panel adaptor

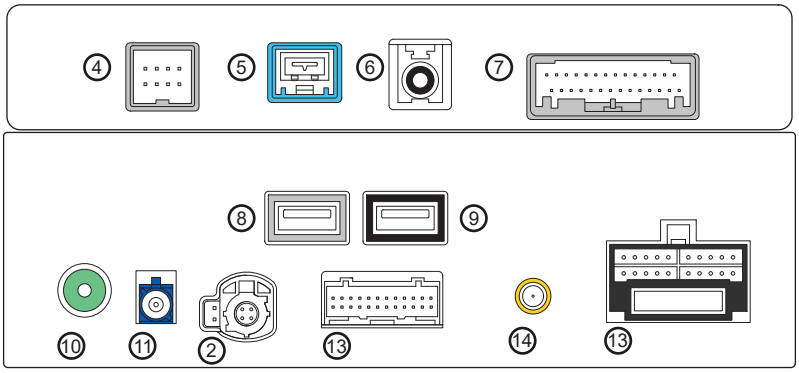
## Pre-installation checks

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

- ☐ Steering wheel controls
- ☐ Climate controls
- ☐ Hazard light switch
- ☐ AM / FM
- ☐ Factory reset system Settings
- ☐ Factory vehicle settings
- ☐ Audio output and adjustment

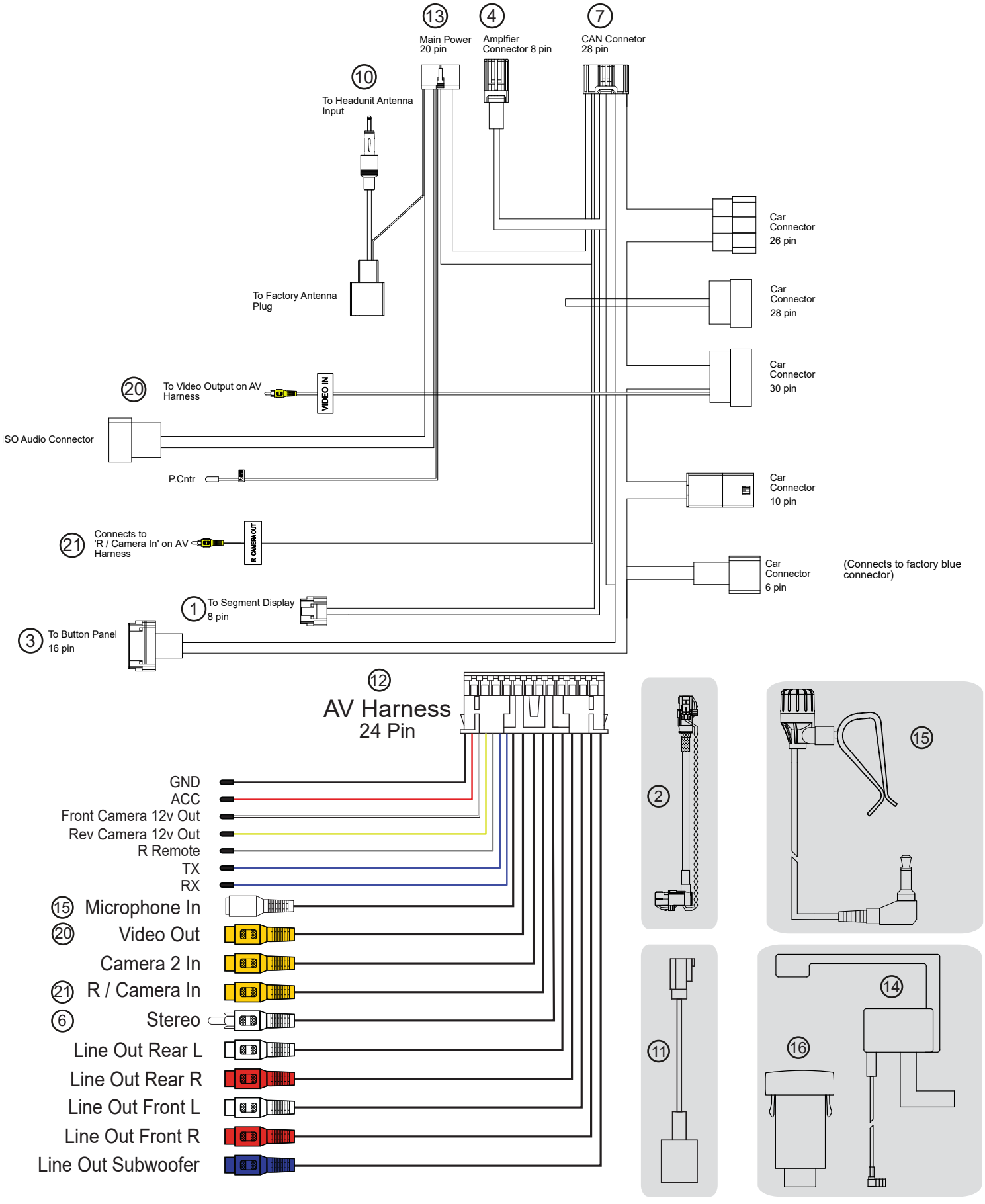
# Connection wiring diagram




| | |
|---|---|
| ① | Segment Connector |
| ② | LVDS Connector / Cable |
| ③ | Button Display Connector |
| ④ | Amplifier Connector |
| ⑤ | Camera Connector |
| ⑥ | Amplifier Stereo Connector |
| ⑦ | Multiplex Connector (28 pin) |
| ⑧ | USB 1: CP/AA |
| ⑨ | USB 2: Media |
| ⑩ | AM/FM Antenna |
| ⑪ | GPS Antenna |
| ⑫ | AV Harness / AV Connector |
| ⑬ | Multiplex Connector (20 pin) |
| ⑭ | DAB+ Antenna |
| ⑮ | Microphone |
| ⑯ | USB Panel Adaptor |

# Wiring diagram

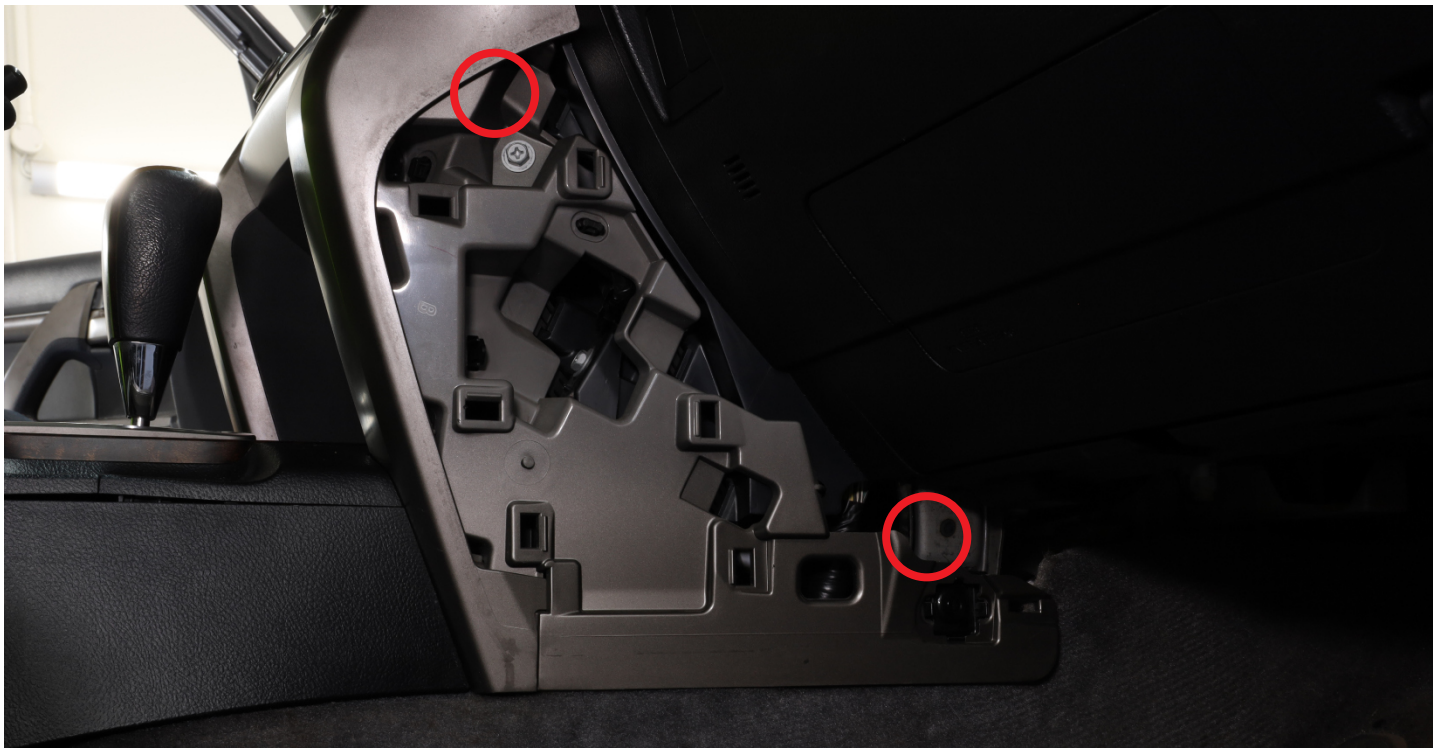


# Dash disassembly

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



# Dash disassembly continued...

Remove the panel with the engine start / stop button by pulling it firmly on an slight angle toward yourself as shown




Disconnect the harness leading to the engine start / stop button and the 4WD mode selector switch. Place this panel aside.

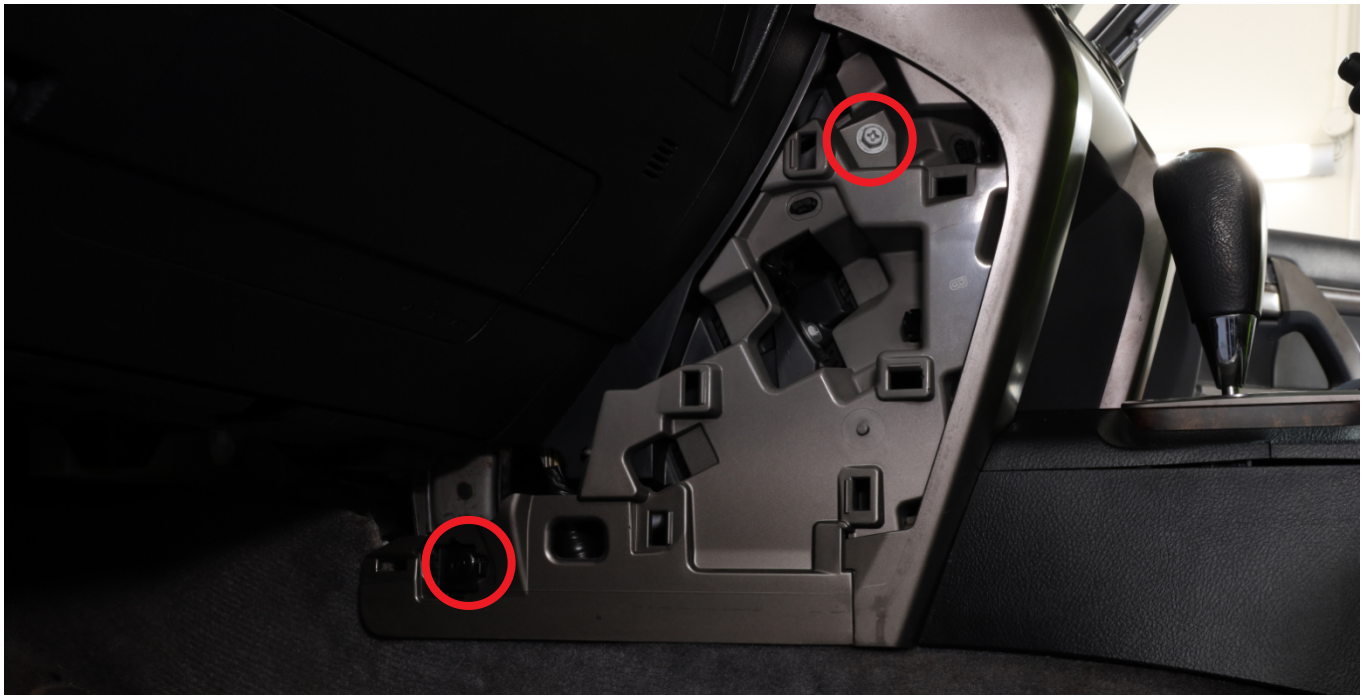


## Dash disassembly continued...

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.



Remove the 10mm screw and retaining clip indicated below.



## Dash disassembly continued...

Repeat the process for the opposite panel to the Start/Stop button. See page 6.




Remove the gear shift knob by unscrewing

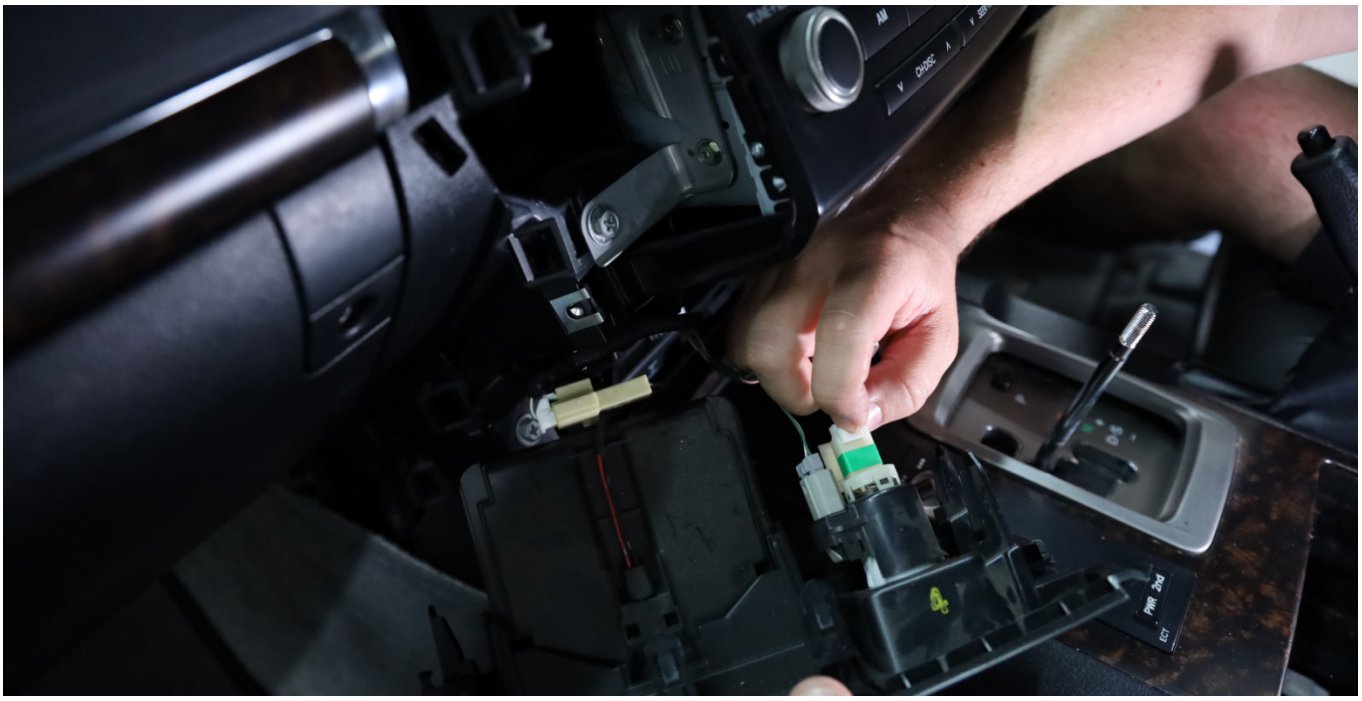


# Dash disassembly continued...

Remove the accessory socket panel below the stereo controls by pulling firmly toward the rear of the vehicle.



Disconnect the harnesses leading to the accessory socket to remove this panel. Place this panel aside.



# Dash disassembly continued...

Unzip the hand brake lever boot



Open the cup holder lid and lift upwards to remove



## Dash disassembly continued...

Remove the retaining clip for the large white plug located under the cupholder




Firmly grip the rear of the center console panel and lift upwards firmly to release the clips.



# Dash disassembly continued...

With the center console panel slightly raised, unplug all of the connectors from the large white plug and remove the center console panel. Place this panel aside.



Remove the speaker 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.



# Dash disassembly continued...

With the speaker grille unclipped, disconnect the light sensor harness to remove it completely. Place this panel aside.




Remove the 2x 10mm screws from under the grille holding the top of the display as shown below. Place these aside, they will be reused.



# Dash disassembly cont

Gently pull the factory display toward you slightly (not removing it yet) to help pop the vent clips so you don't have to use a pry tool against the dash.




Remove both vents and unplug the harnesses for the temperature control buttons. Place them aside.

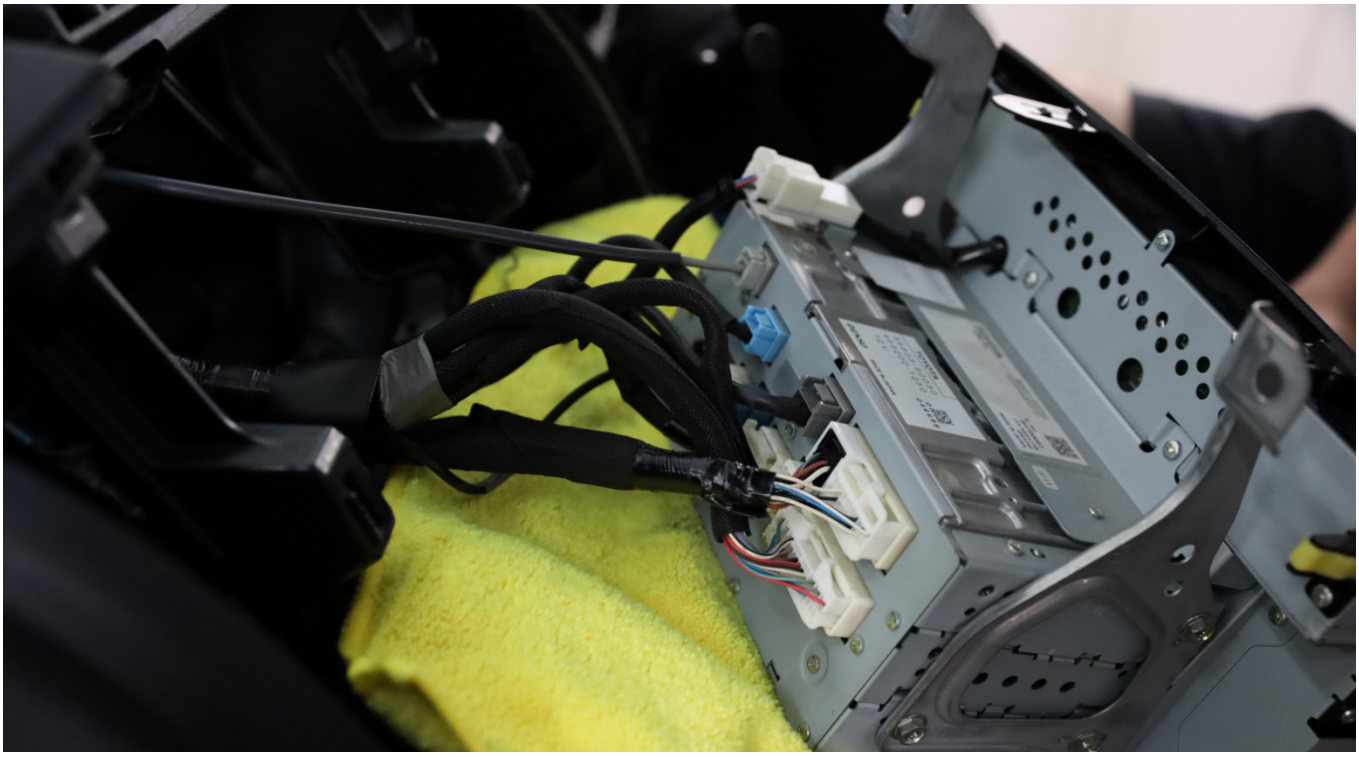


# Dash disassembly cont

Remove the 2x 10mm bolts from behind the vents either side of the display as indicated below. These will be reused. Remove the display by pulling in the center on both sides.

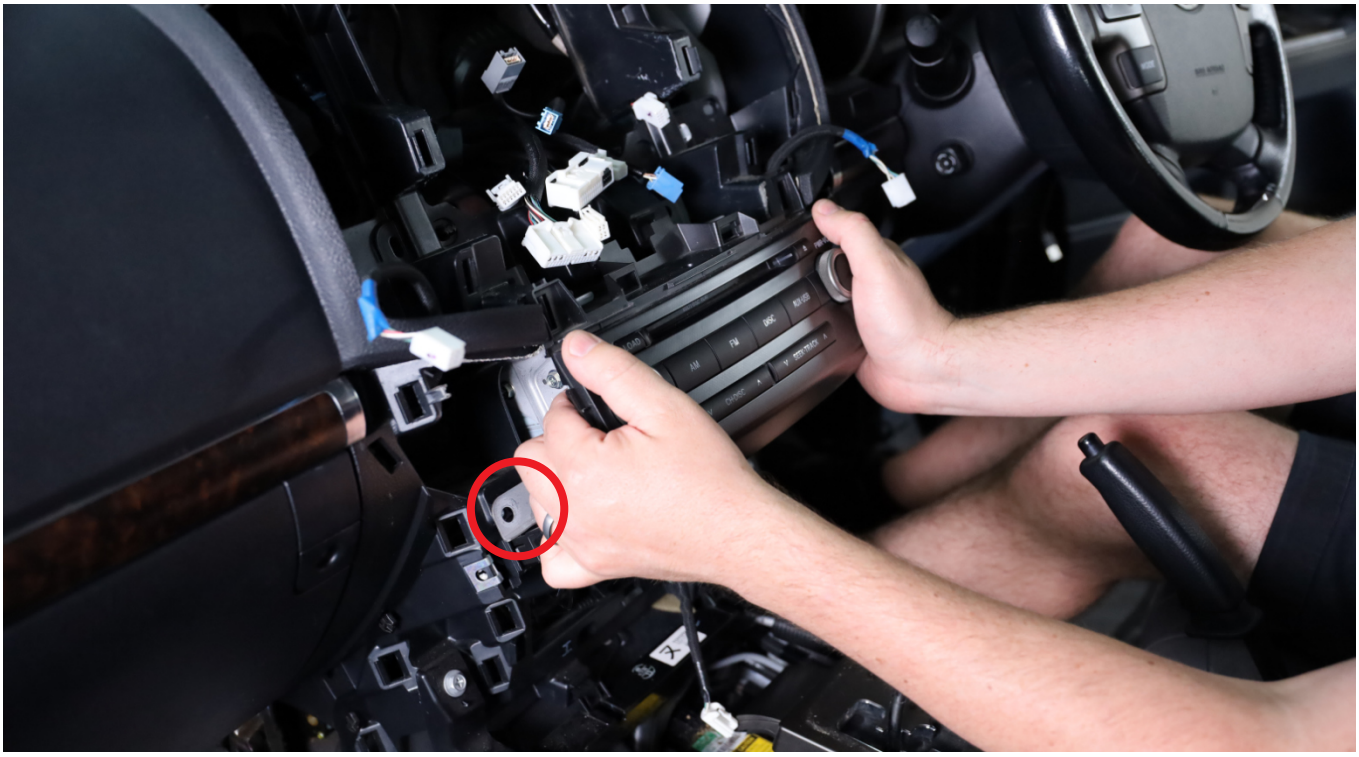



Place a soft cloth under the display to rest it on making it easier to unplug all of the harnesses and remove the display. The display will not be reused.

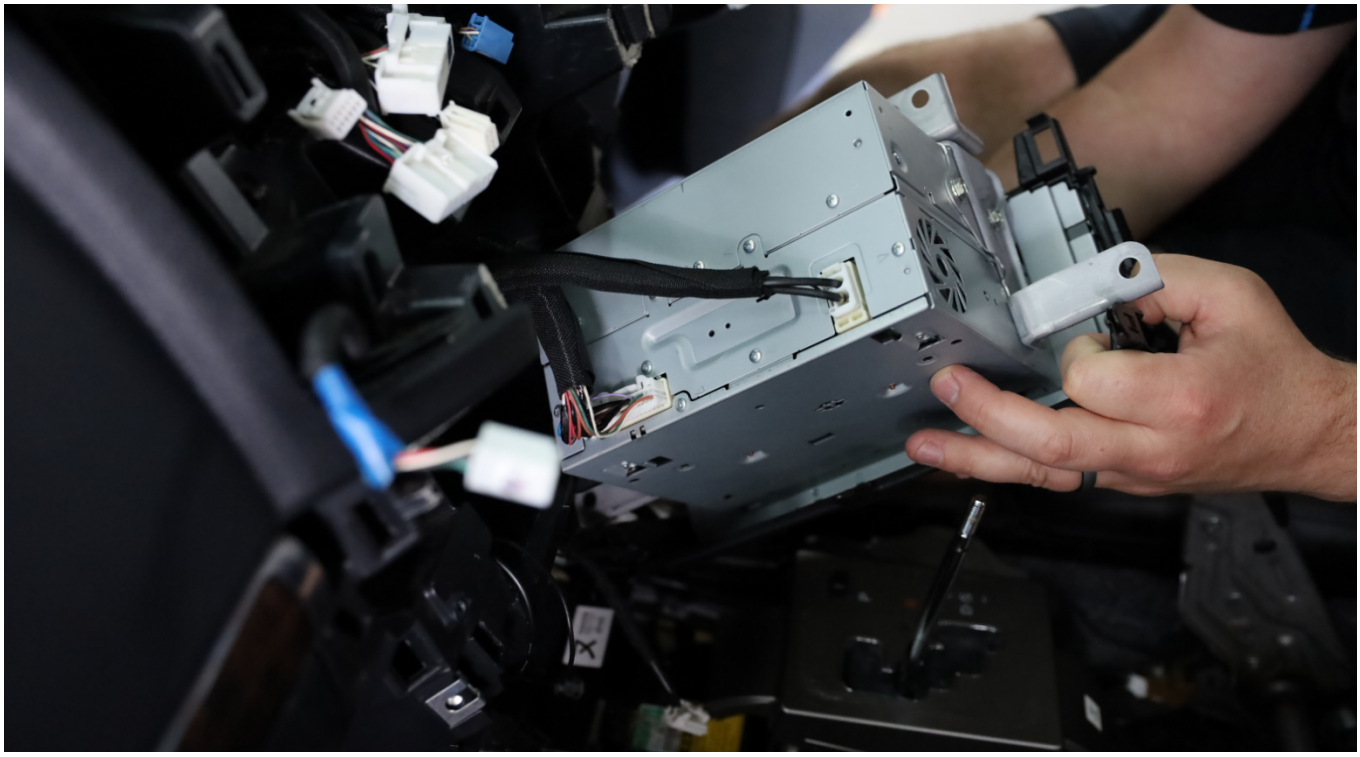


# Dash disassembly cont

Remove the 2x 10mm screws either side of the head unit circled in red below. Pull the head unit toward you to remove.



Unplug the 2x harnesses and remove the head unit. The original head unit will not be reused.



# Microphone and DAB antenna install

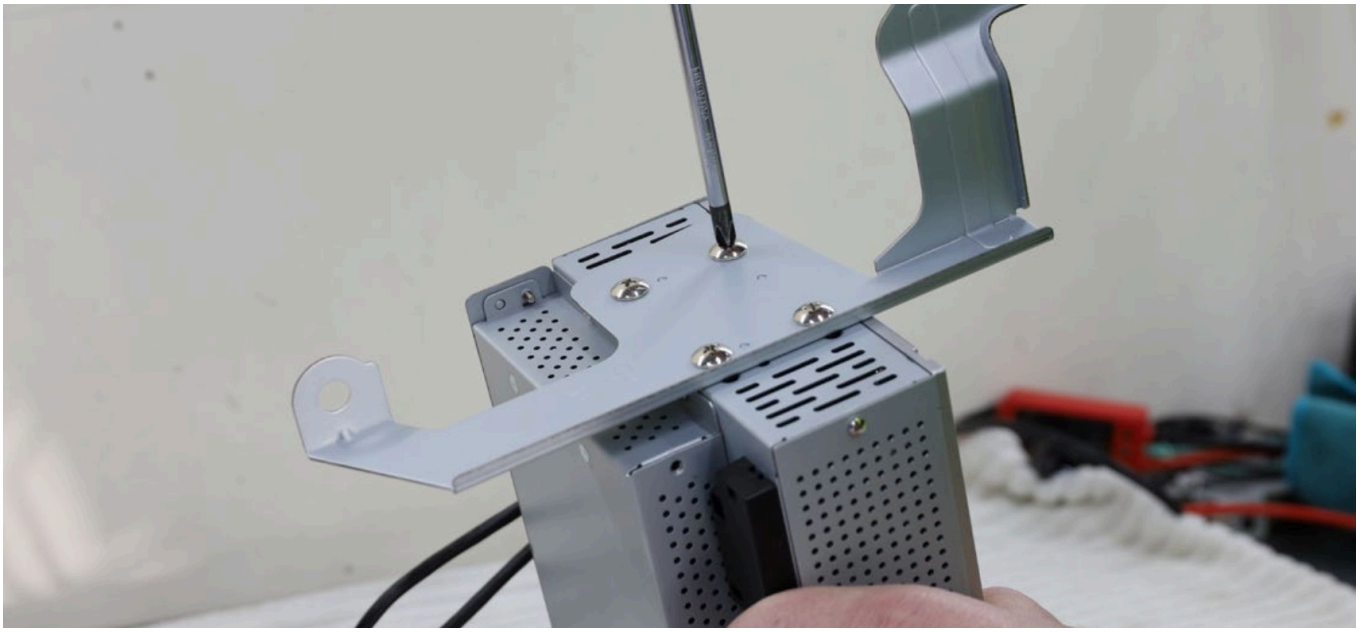
Remove the passenger A pillar grab handle and panel to run the Mircophone and DAB+ antenna.



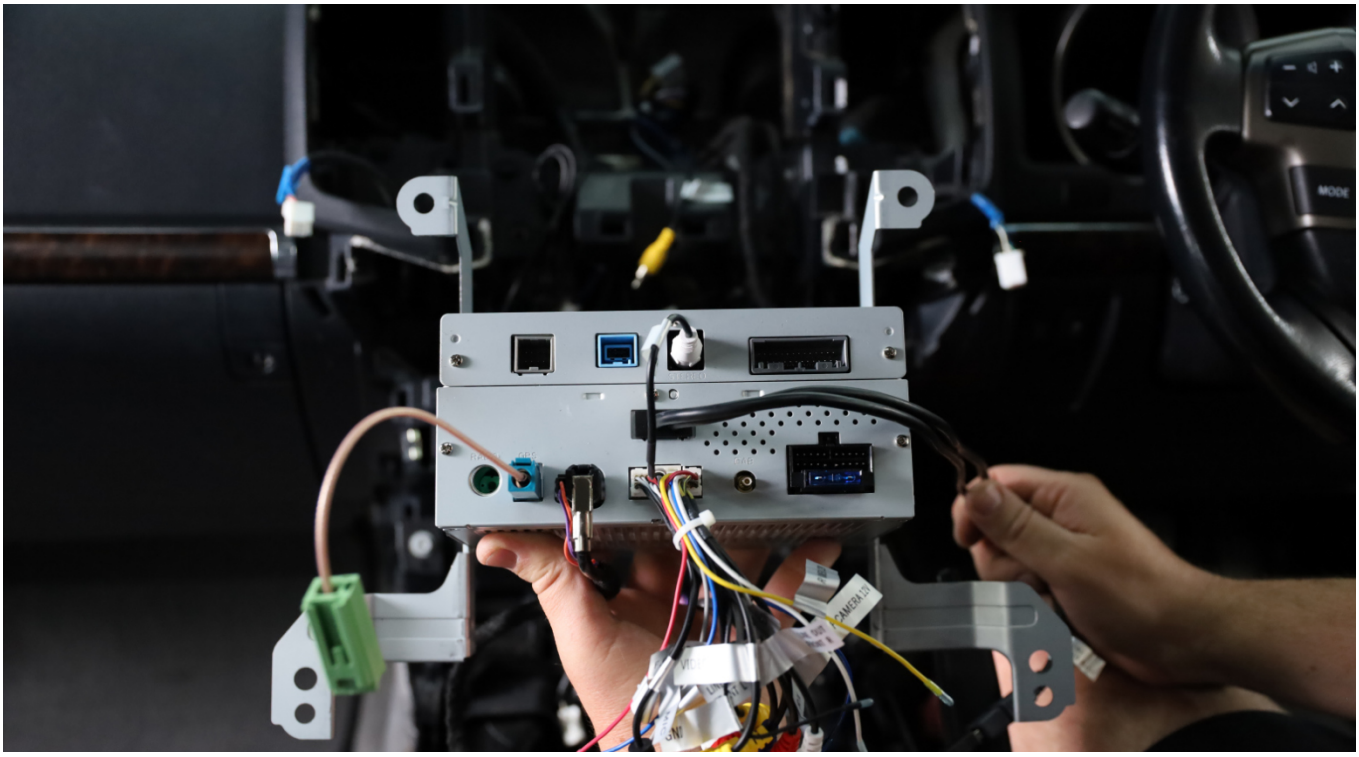


# Unit installation

Install the brackets supplied in the kit to the sides of the new head unit.



Connect the necessary harnesses to the new head unit.

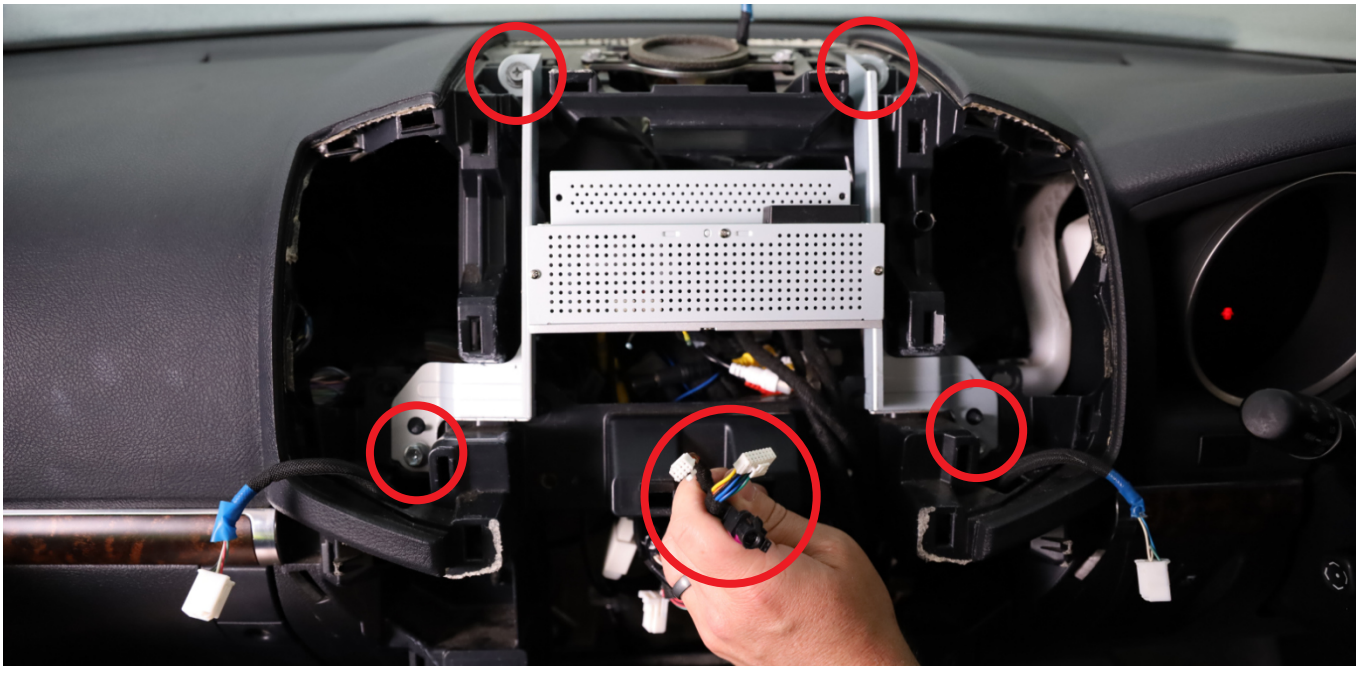


# Unit installation

Route all of the harnesses to the top section of the dash where the new head unit will be installed.

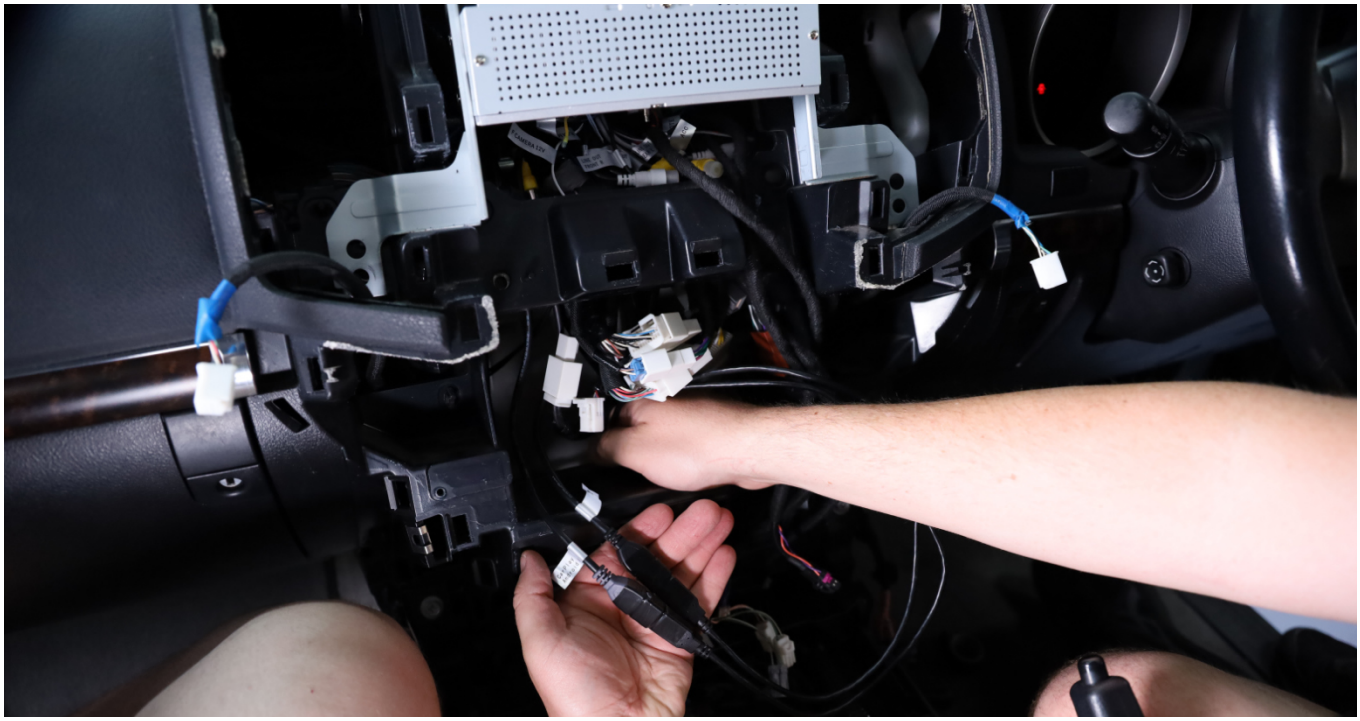


Install the new head unit and secure it using the original mounting locations and screws placed aside. Be sure to route the 3x cables (segment display connector, LVDS, and button display connector) required for the new display out the bottom of the new head unit.



# USB installation

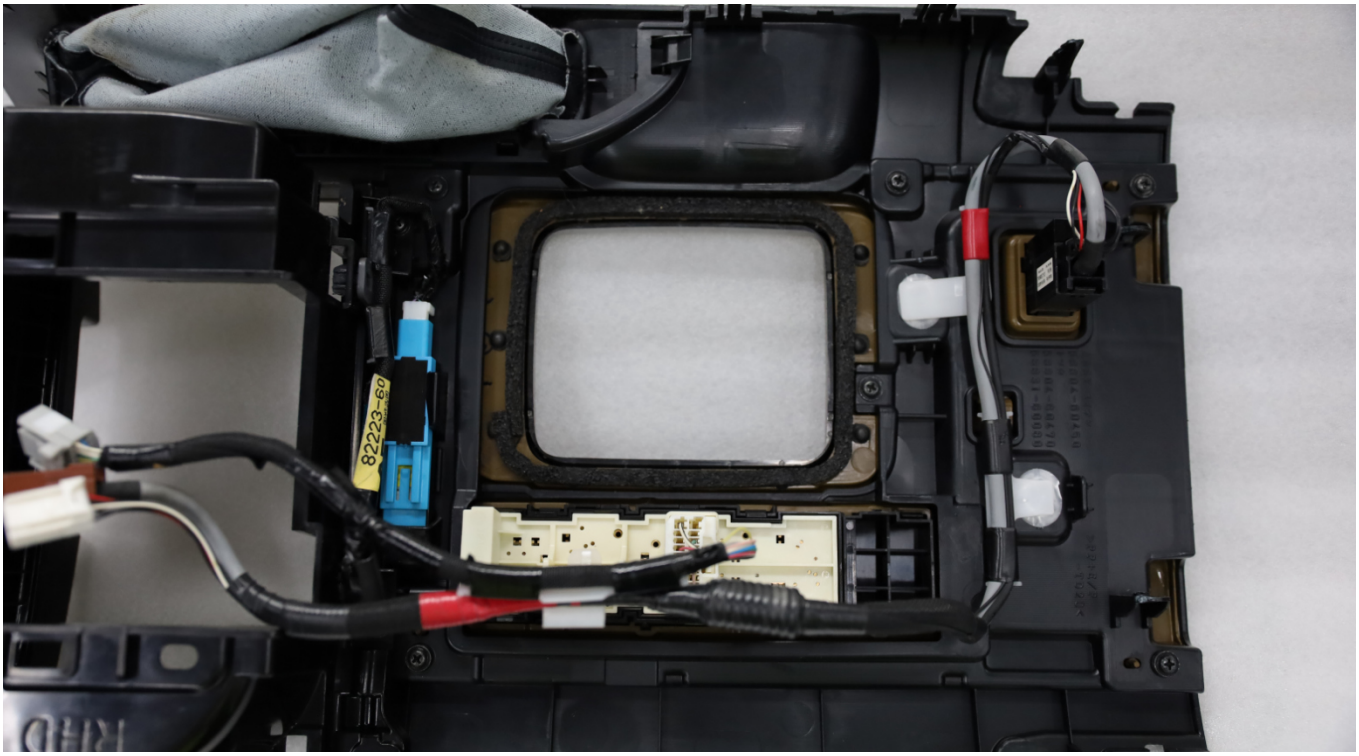
Route the USB cables from the new head unit behind the plastic dash structure down and out towards the handbrake lever.



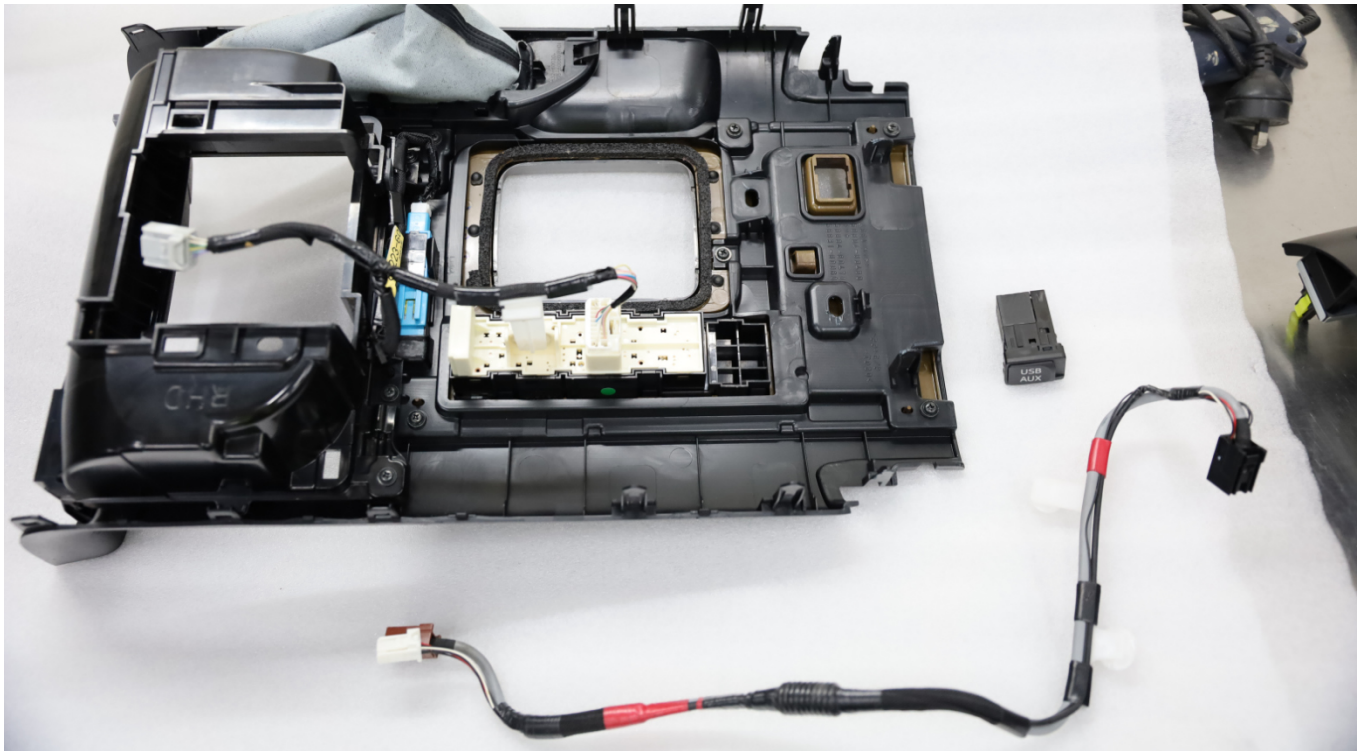


# USB installation

Remove the factory USB port and harness from the underside of the center console



The factory USB insert and harness are no longer required.

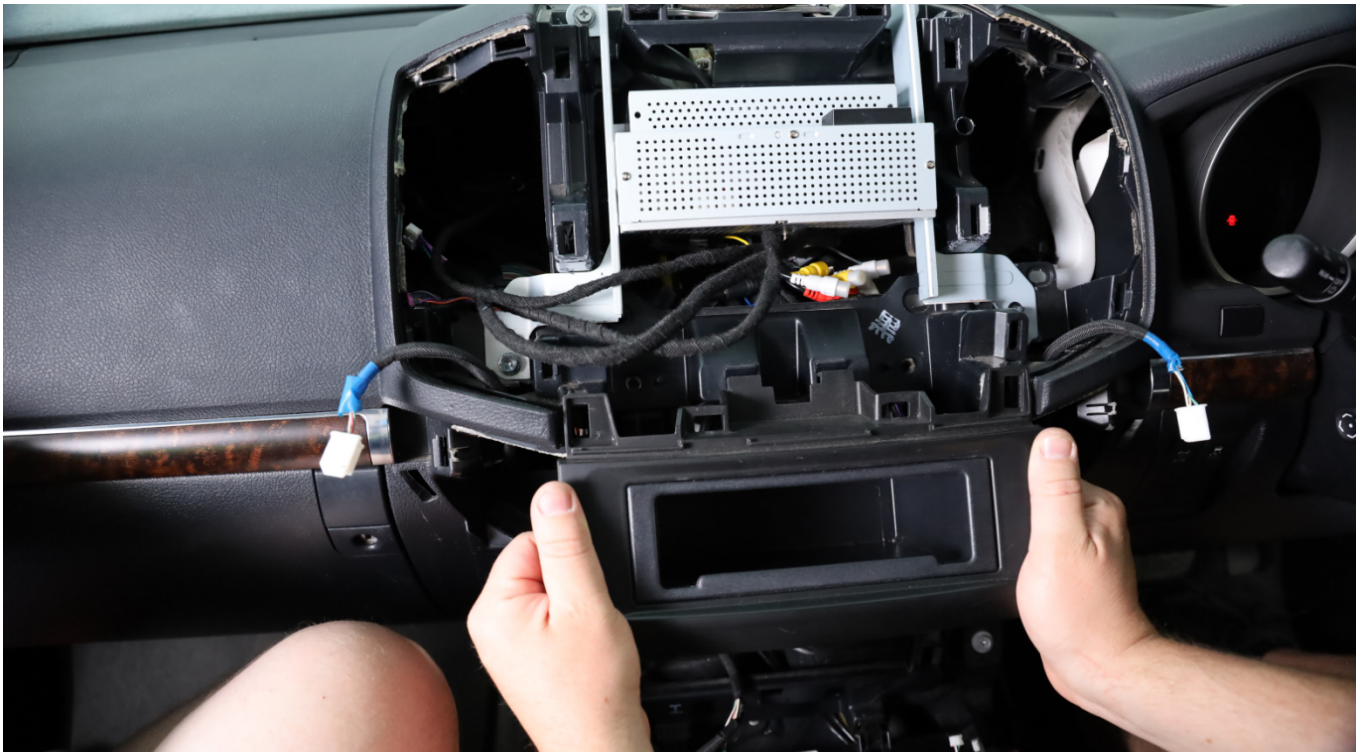


# Dash Reassembly

Replace the factory USB port with the included USB ports insert.

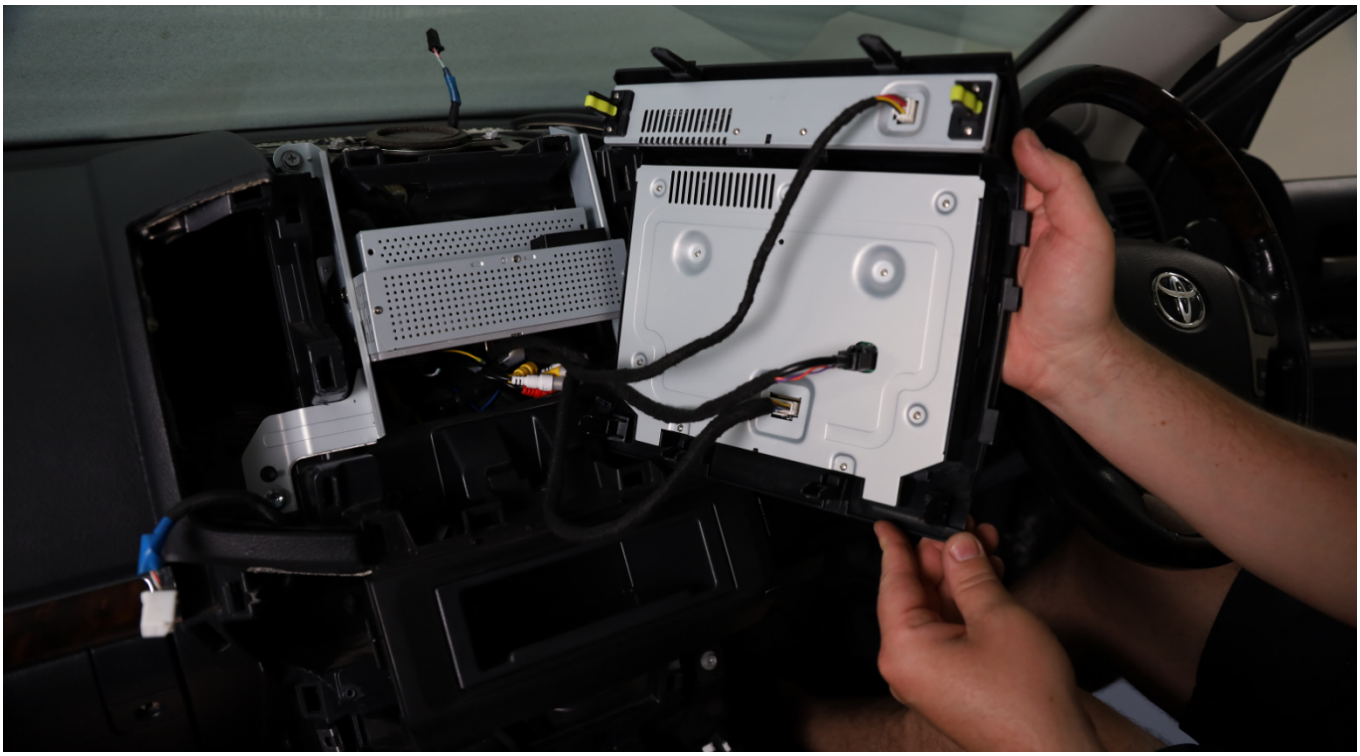


Install the supplied pocket (or optional switch panel) in the place of the factory head unit



# Dash Reassembly

Connect the new display to the 3x harnesses routed out from under the new head unit.



Line up the clips of the new display and push it evenly and firmly into place.



The dash can now be reassembled in the reverse order of the steps taken on pages 5 to 14.

## 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
- ☐ Reverse camera
- ☐ 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)
- ☐ Second camera (if fitted)

** IMPORTANT INFORMATION**

You may need to increase Factory Amplifier volume in the Sound Settings if volume is low

## 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

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