PUBLISHED: 25-JAN-2017
2017.0 DISCOVERY (LR), 415-01

INFORMATION AND ENTERTAINMENT SYSTEM - VEHICLES WITH: INCONTROL TOUCH

AUDIO AMPLIFIER MODULE (G2035500)

REMOVAL AND INSTALLATION

REMOVAL

NOTE:

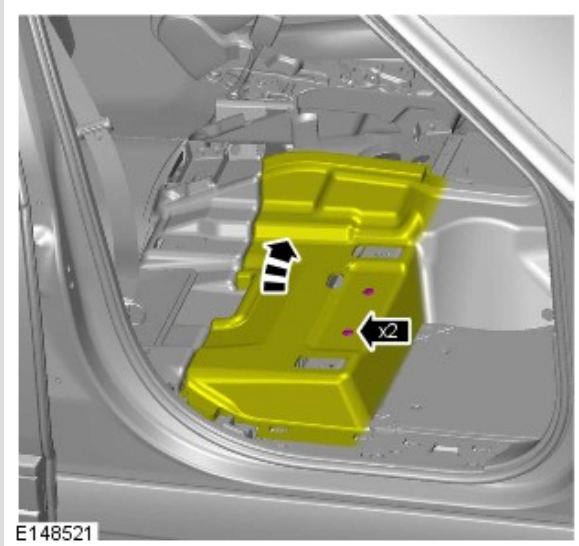
Some variation in the illustrations may occur, but the essential information is always correct.

1. Remove the right front seat
   Refer to: Front Row Seat - Vehicles With: Power Seats (501-10, Removal and Installation).
   Refer to: Front Row Seat - Vehicles Without: Power Seats (501-10, Removal and Installation).

2. Remove the B-post lower trim finisher.
   Refer to: B-Pillar Lower Trim Panel (501-05, Removal and Installation).

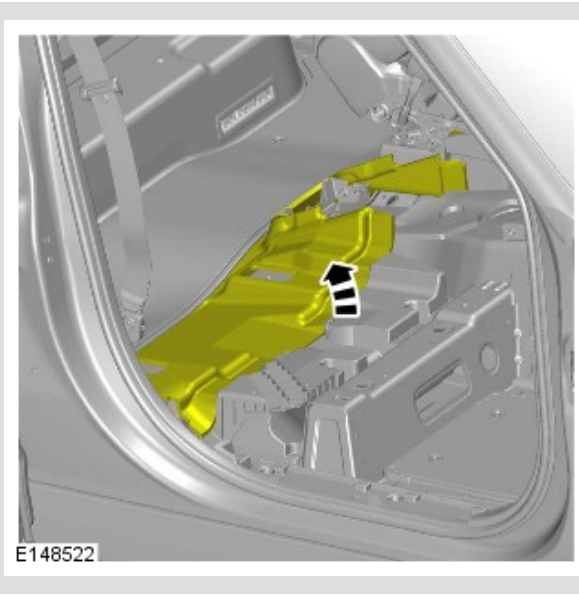
3. Remove the front treadplate trim panel.
   Refer to: Front Treadplate (501-05, Removal and Installation).

4.



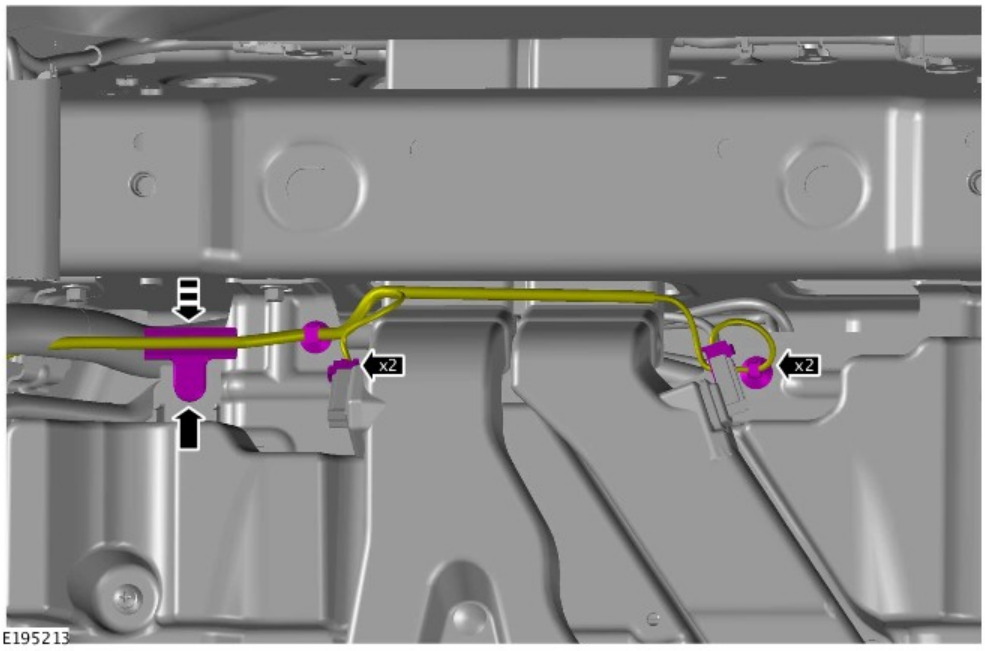
Carefully release the carpet for access.

5.



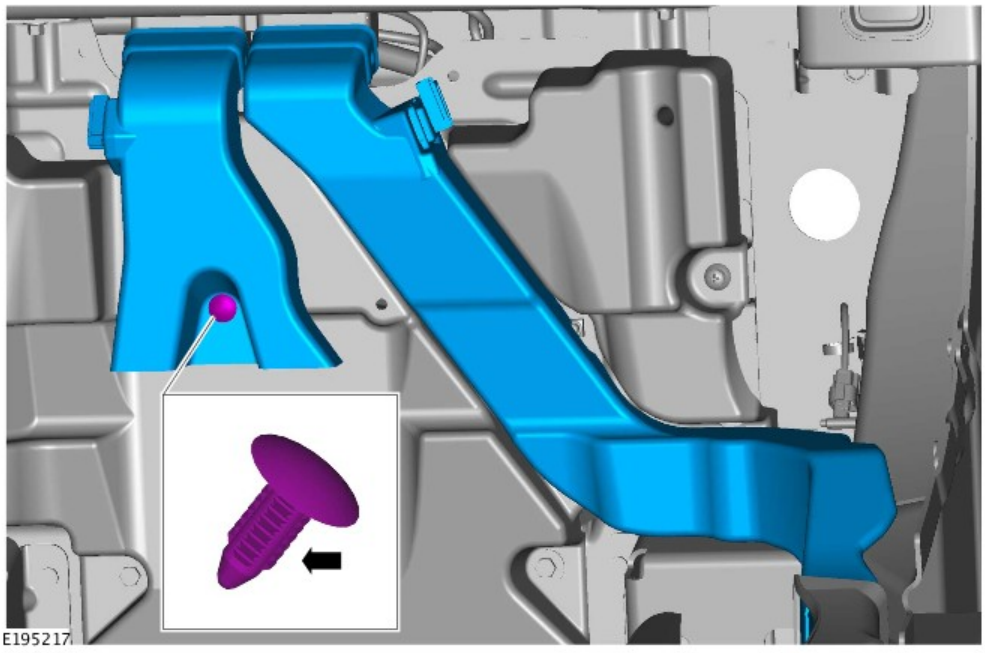
Position the floor carpet to one side.

6.



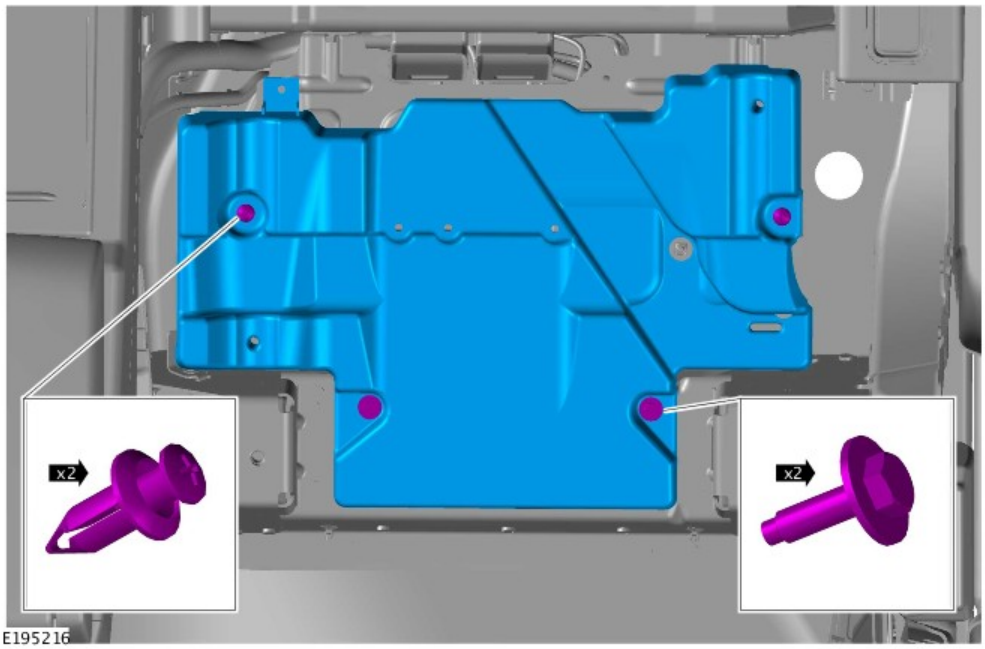
- Disconnect the electrical connectors.
- Carefully release the clips.

7.



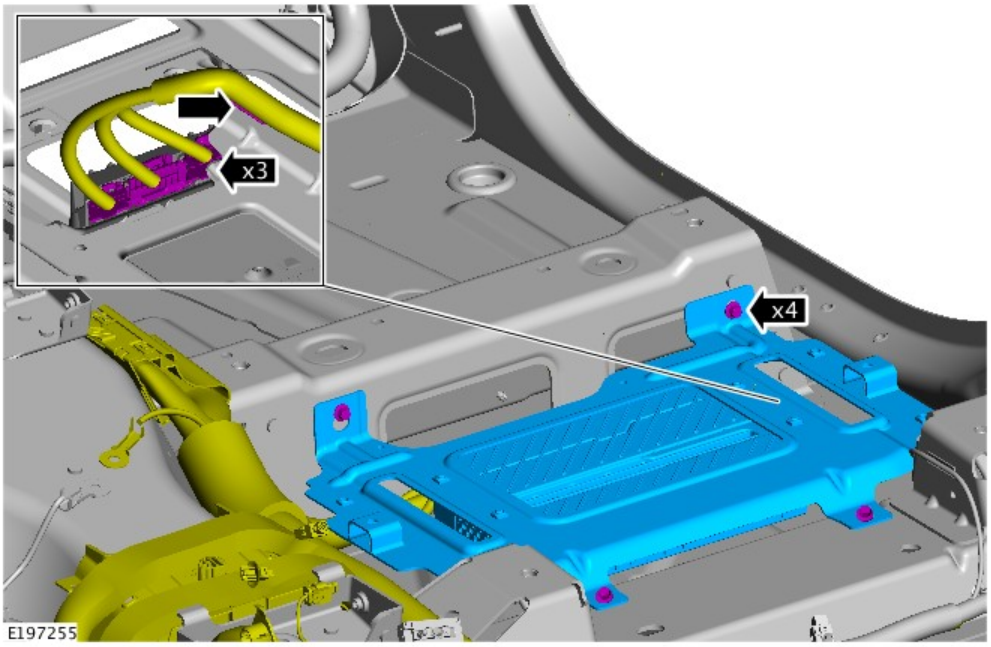
Remove the right footwell heater duct.

8.



Remove the cover.

9.



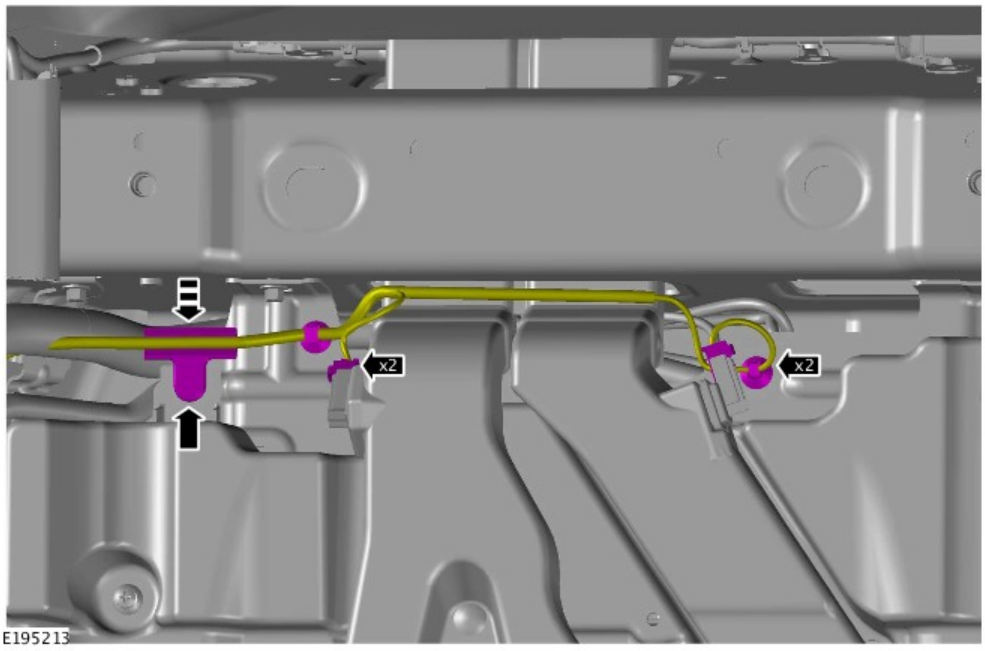
- Remove the retaining bolts.
- Disconnect the electrical connectors.
- Remove the AAM.

INSTALLATION

1.
   - Install the AAM.
     Torque: **10 Nm**

2. Install the cover.
   Torque: **10 Nm**

3. Install the right footwell heater duct.

4. 

   - Reconnect the electrical connectors.
   - Carefully install the clips.

5. Install the floor carpet.

6. Install the front treadplate trim panel.
   Refer to: Front Treadplate (501-05, Removal and Installation).

7. Install the B-post lower trim finisher.
   Refer to: B-Pillar Lower Trim Panel (501-05, Removal and Installation).

8. Install the right front seat

Refer to: Front Row Seat - Vehicles With: Power Seats (501-10, Removal and Installation).

Refer to: Front Row Seat - Vehicles Without: Power Seats (501-10, Removal and Installation).

PUBLISHED: 30-NOV-2016
2017.0 DISCOVERY (LR), 415-01

INFORMATION AND ENTERTAINMENT SYSTEM - VEHICLES WITH: INCONTROL TOUCH PRO

AUDIO AMPLIFIER MODULE (G2035521)

REMOVAL AND INSTALLATION

REMOVAL

NOTE:

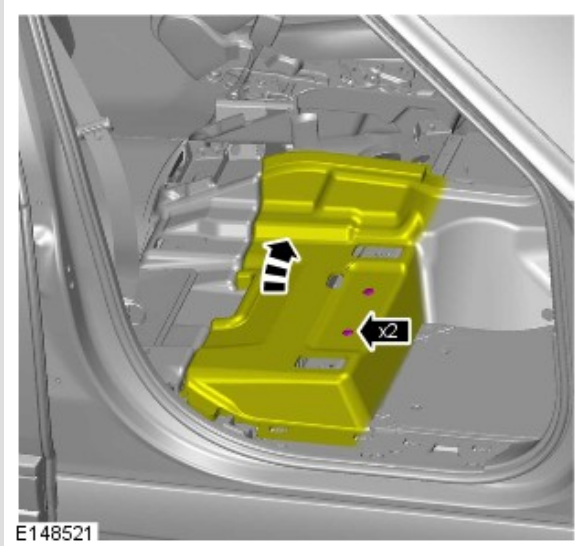
Some variation in the illustrations may occur, but the essential information is always correct.

1. Remove the right front seat
   Refer to: Front Row Seat - Vehicles With: Power Seats (501-10, Removal and Installation).
   Refer to: Front Row Seat - Vehicles Without: Power Seats (501-10, Removal and Installation).

2. Remove B-post lower trim finisher.
   Refer to: B-Pillar Lower Trim Panel (501-05, Removal and Installation).

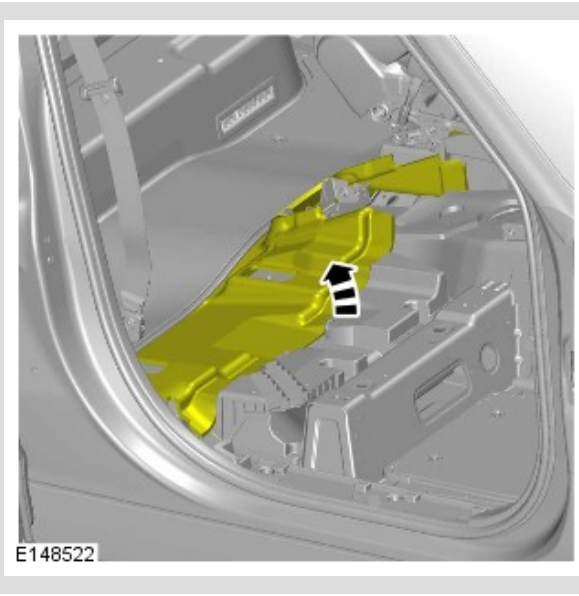
3. Remove the front treadplate trim panel.
   Refer to: Front Treadplate (501-05, Removal and Installation).

4.



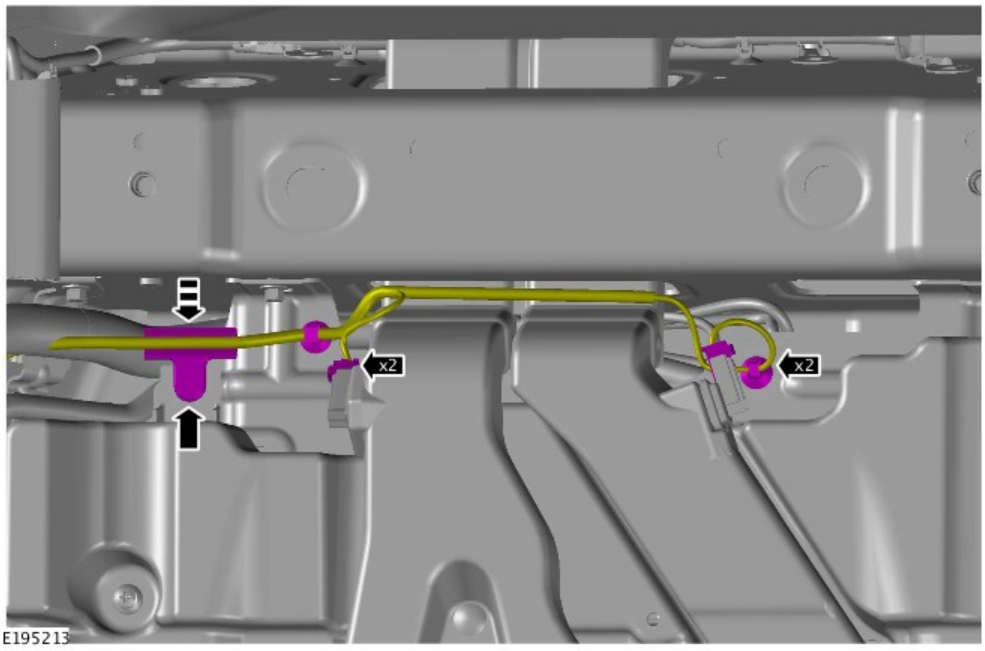
Carefully release the carpet for access.

5.



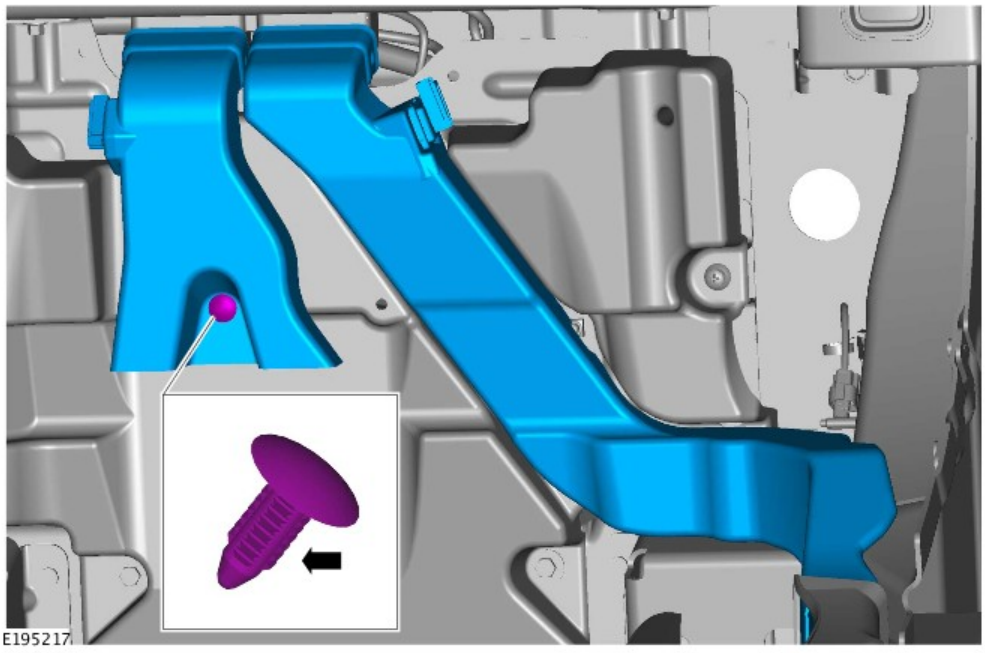
Position the floor carpet to one side.

6.



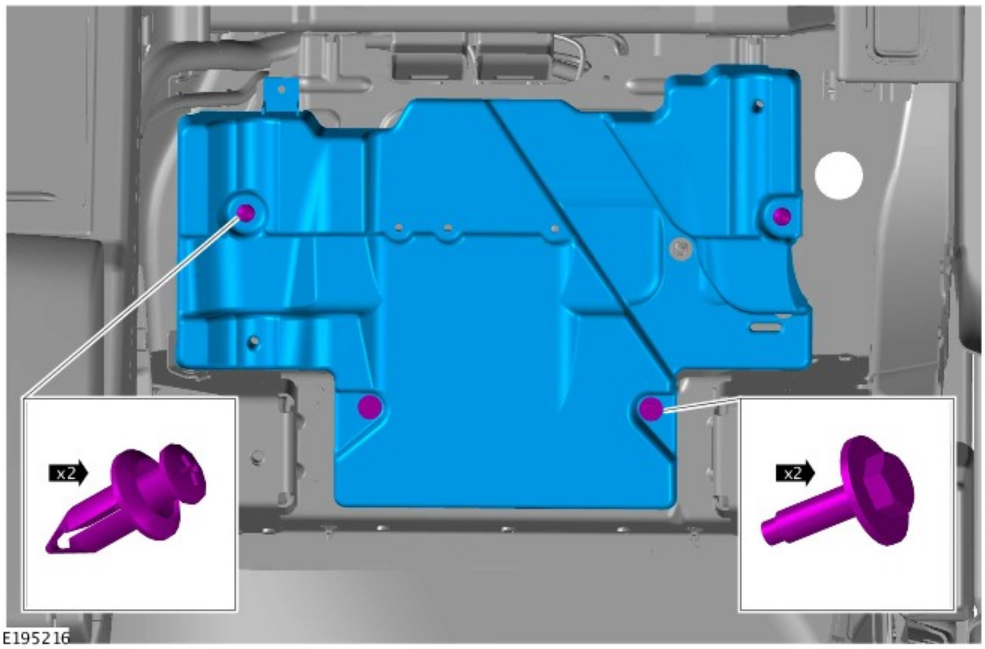
- Disconnect the electrical connectors.
- Carefully release the clips.

7.



Remove the right footwell heater duct.

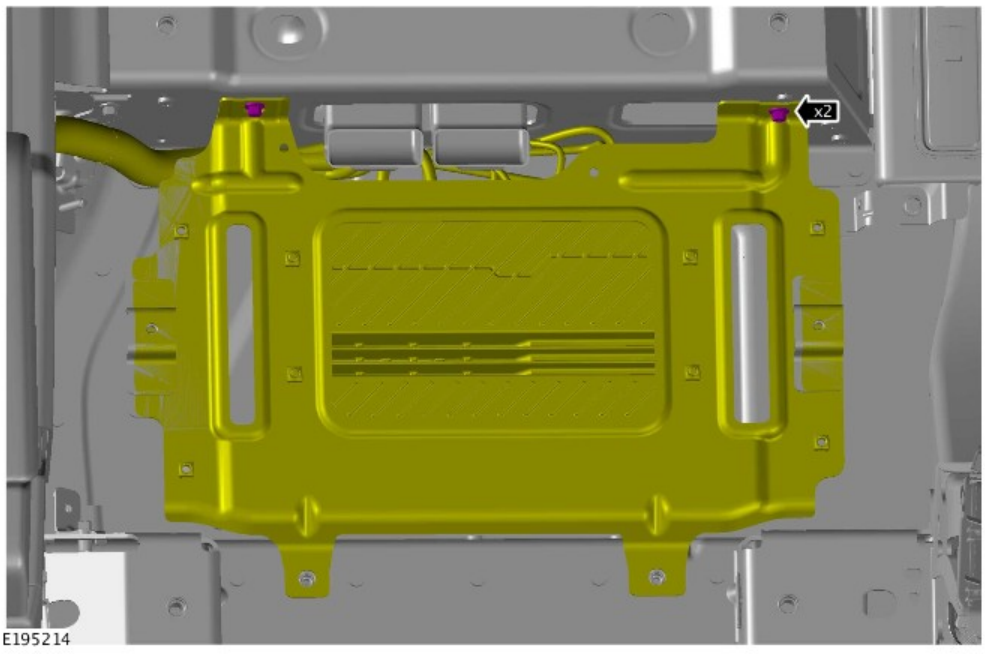
8.



Remove the cover.

Torque: **10 Nm**

9.



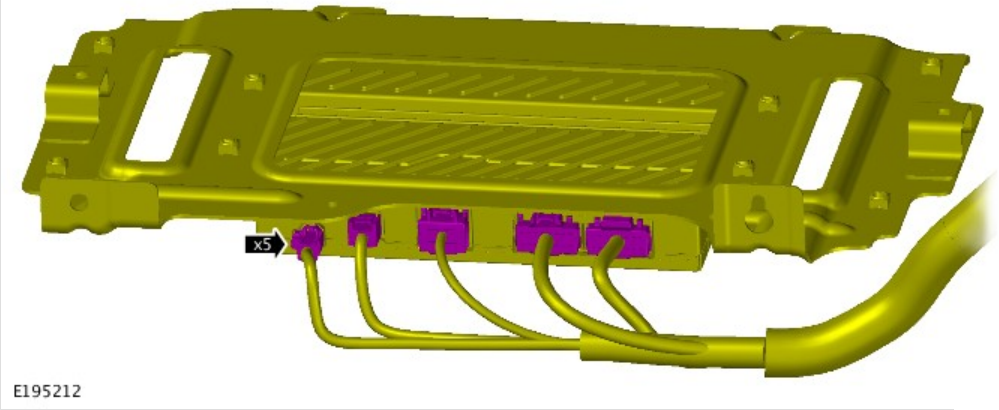
Remove the retaining bolts.

Torque: **10 Nm**

10.

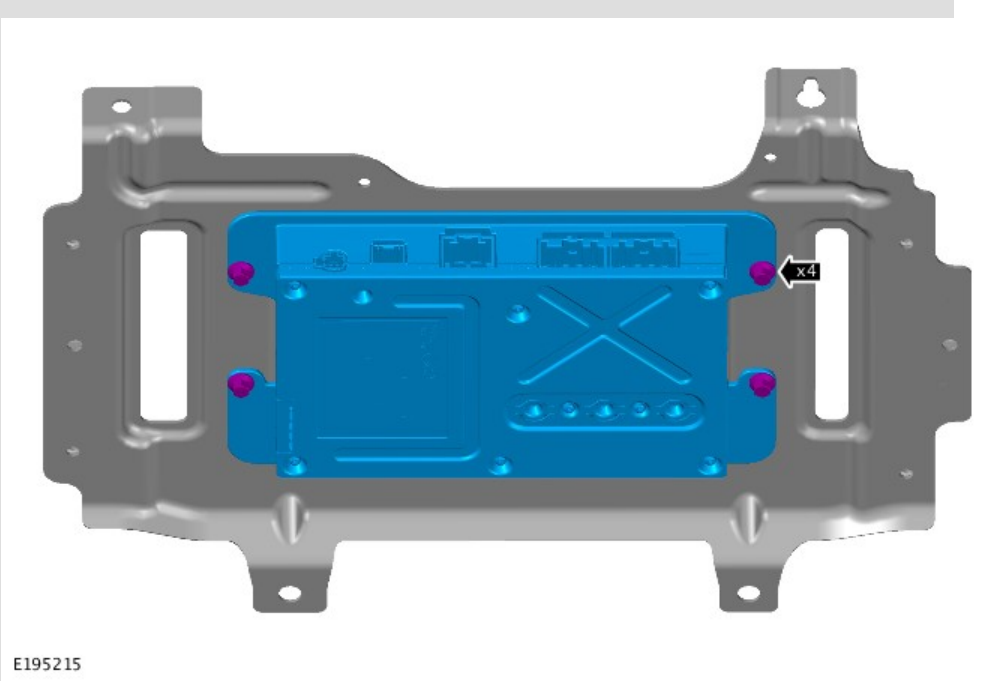
CAUTION:

Make sure the wiring harness and electrical connectors are not damaged during this operation.



Disconnect the electrical connectors.

11.



Remove the audio amplifier module.

Torque: **9 Nm**

INSTALLATION

1. To install, reverse the removal procedure.

PUBLISHED: 15-DEC-2016
2017.0 DISCOVERY (LR), 415-01

INFORMATION AND ENTERTAINMENT SYSTEM - VEHICLES WITH: INCONTROL TOUCH

AUDIO HEAD UNIT (G2090753)

REMOVAL AND INSTALLATION

REMOVAL

NOTE:

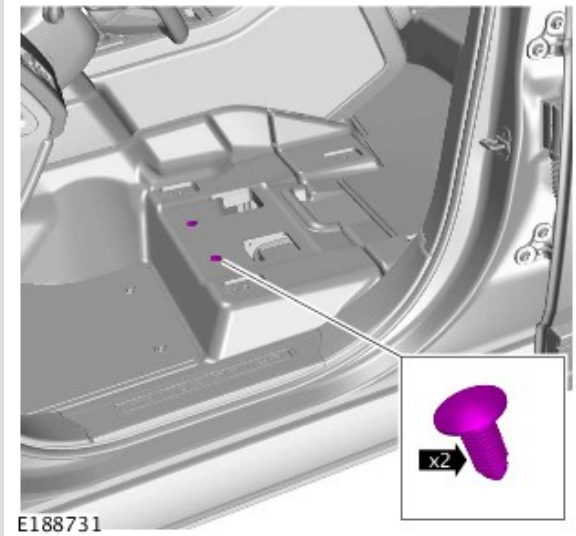
Some variation in the illustrations may occur, but the essential information is always correct.

1. Disconnect the battery ground cable.
   Refer to: Specifications (414-00, Specifications).

2. Remove the left side front seat.
   Refer to: Front Row Seat - Vehicles With: Power Seats (501-10, Removal and Installation).
   Refer to: Front Row Seat - Vehicles Without: Power Seats (501-10, Removal and Installation).

3. Remove the front treadplate trim panel.
   Refer to: Front Treadplate (501-05, Removal and Installation).

4.

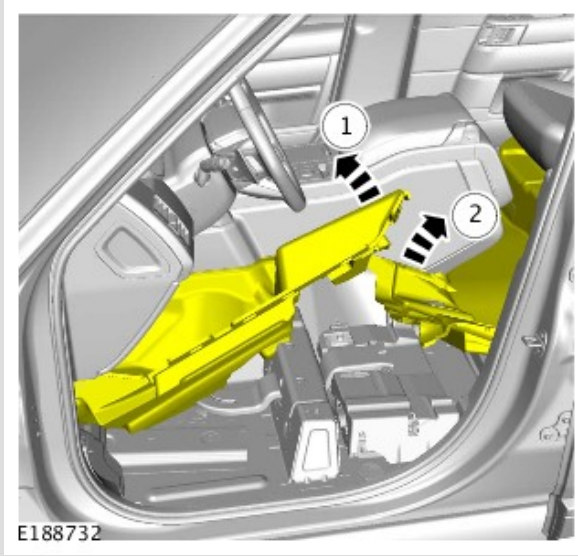


Remove the carpet clips.

5.

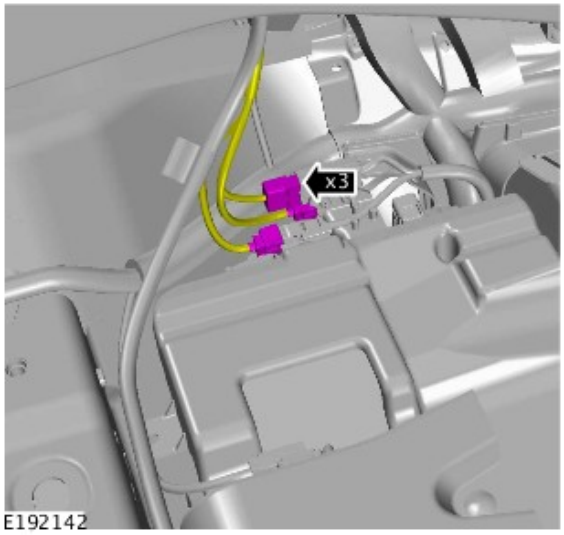
CAUTION:

Take extra care not to damage the component. Position the carpets to one side.



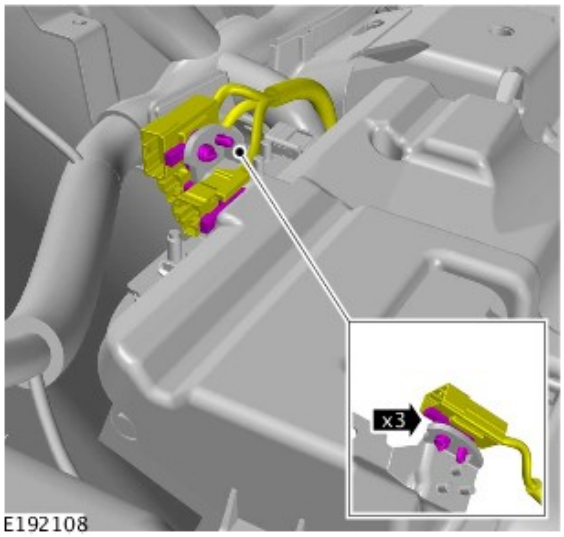
Position the carpets to one side.

6.



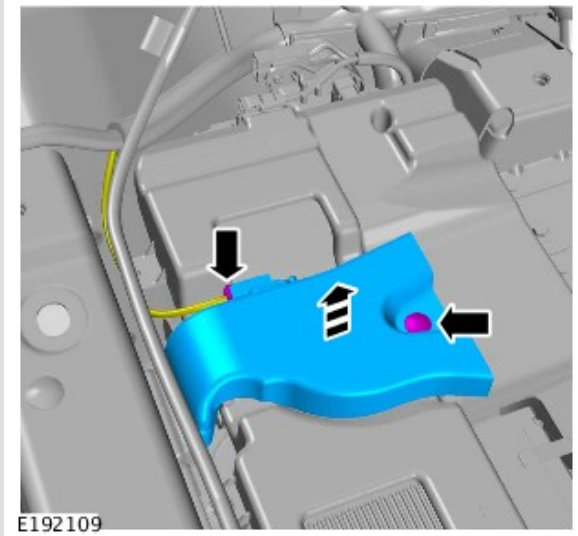
Disconnect the electrical connectors.

7.



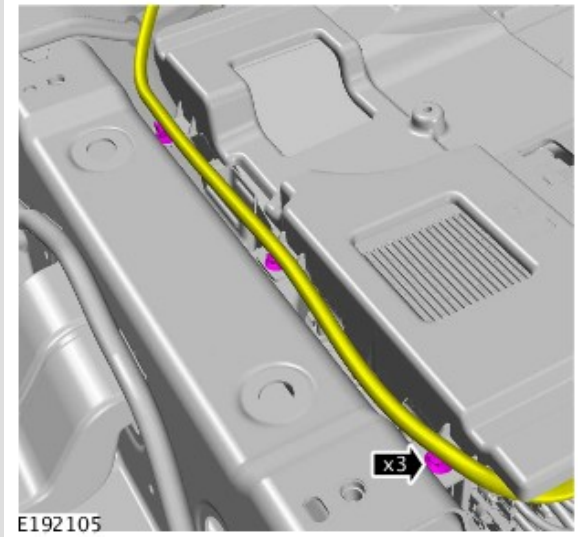
Release the electrical connector brackets.

8.



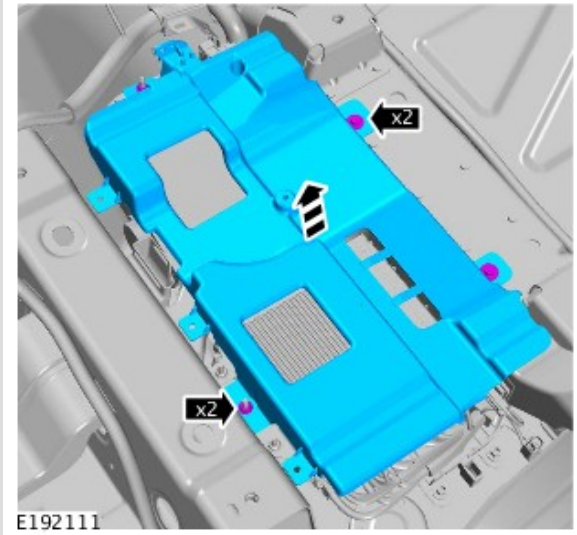
- Disconnect the electrical connector.
- Remove the clip.
- Remove the left rear footwell duct.

9.



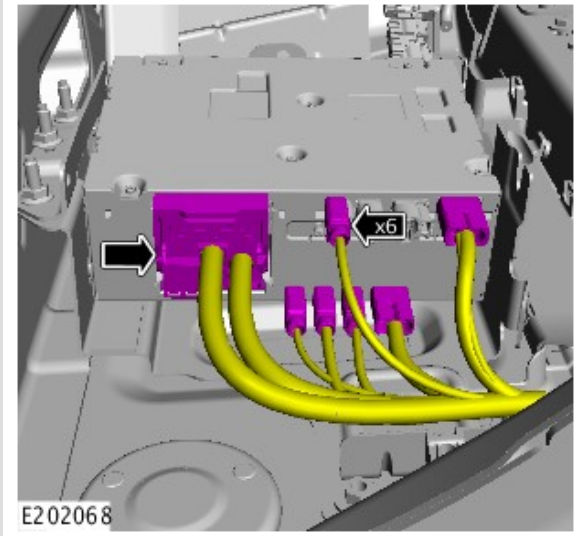
Release the electrical cable clips.

10.



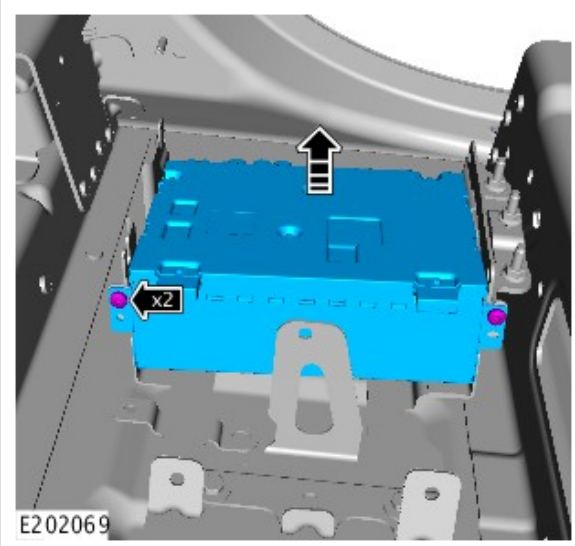
Remove the left front underseat tray panel.

11.



Disconnect the electrical connectors.

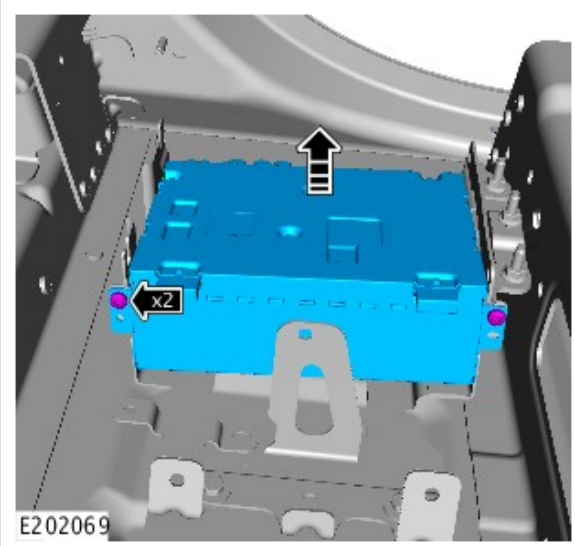
12.



- Remove the integrated audio module retaining bolts.
- Remove the integrated audio module.

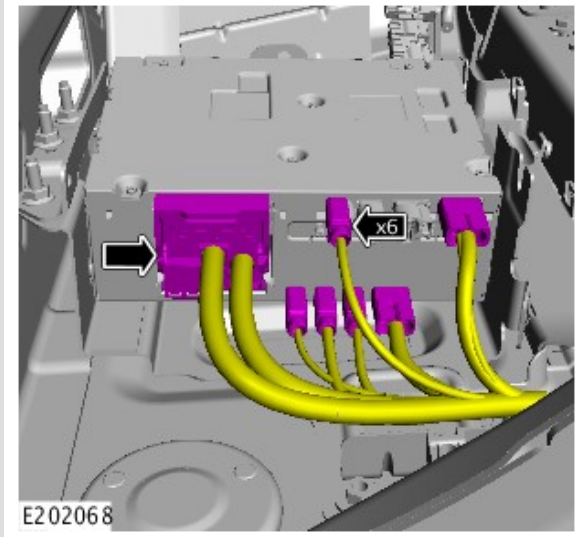
INSTALLATION

1.



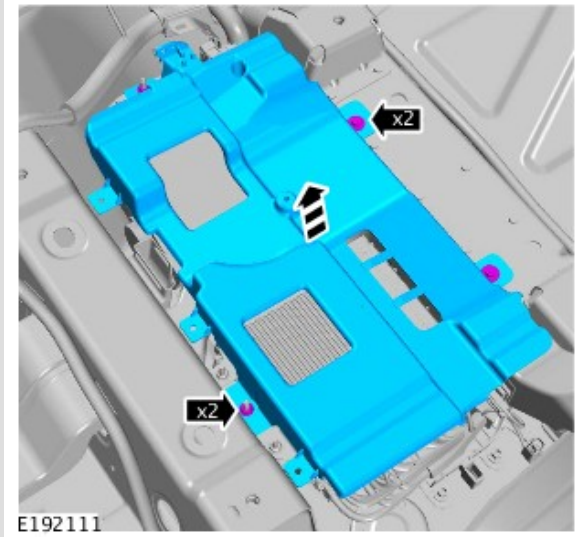
- Install the integrated audio module.
- Install the integrated audio module retaining bolts.
  Torque: **5.4 Nm**

2.



Connect the electrical connectors.

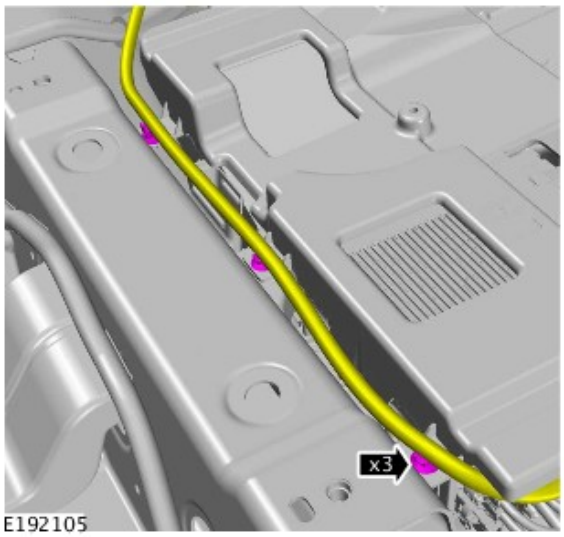
3.



Install the left front underseat tray panel.

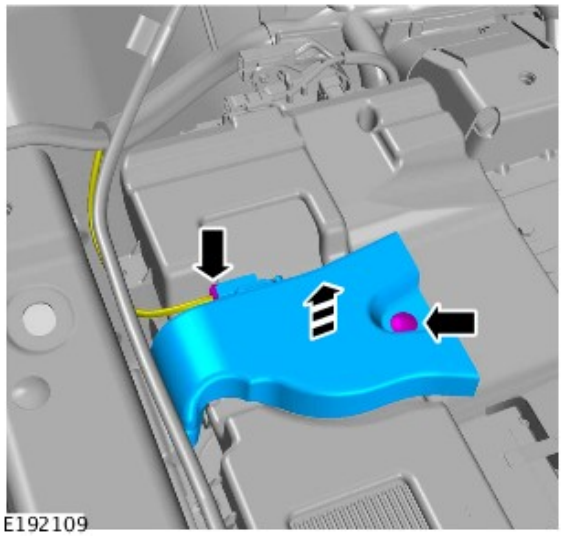
Torque: **9 Nm**

4.



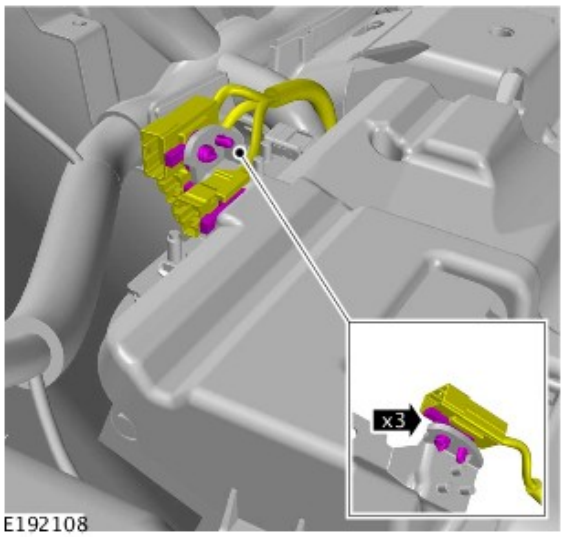
Install the electrical cable clips.

5.



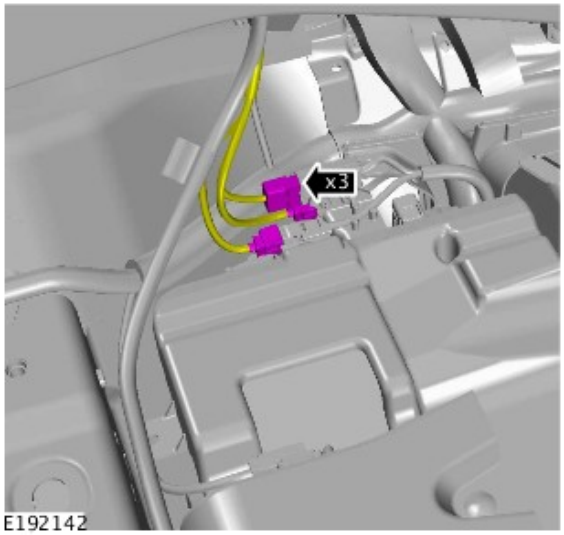
- Install the left rear footwell duct.
- Install the clip.
- Connect the electrical connector.

6.



Install the electrical connector brackets.

7.

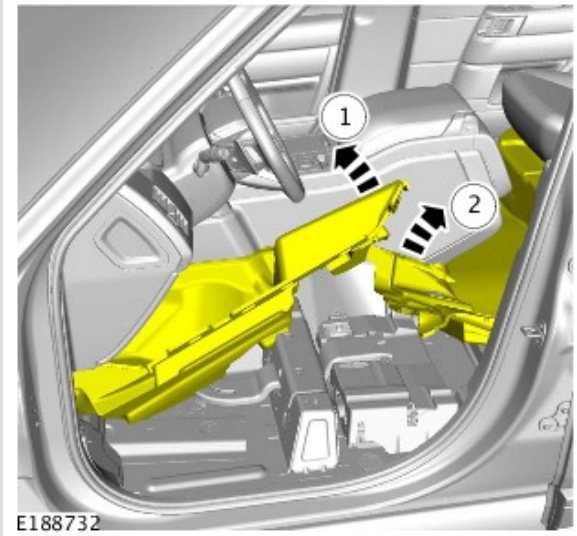


Connect the electrical connectors.

8.

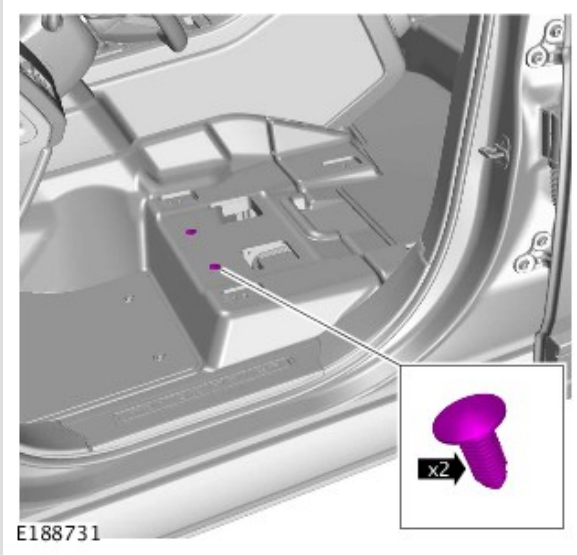
CAUTION:

Take extra care not to damage the component. Position the carpets to one side.



Install the carpets.

9.



Install the carpet clips.

10. Install the front treadplate trim panel.
Refer to: Front Treadplate (501-05, Removal and Installation).

11. Install the left side front seat.
Refer to: Front Row Seat - Vehicles With: Power Seats (501-10, Removal and Installation).
Refer to: Front Row Seat - Vehicles Without: Power Seats (501-10, Removal and Installation).

12. Connect the battery ground cable.
Refer to: Specifications (414-00, Specifications).

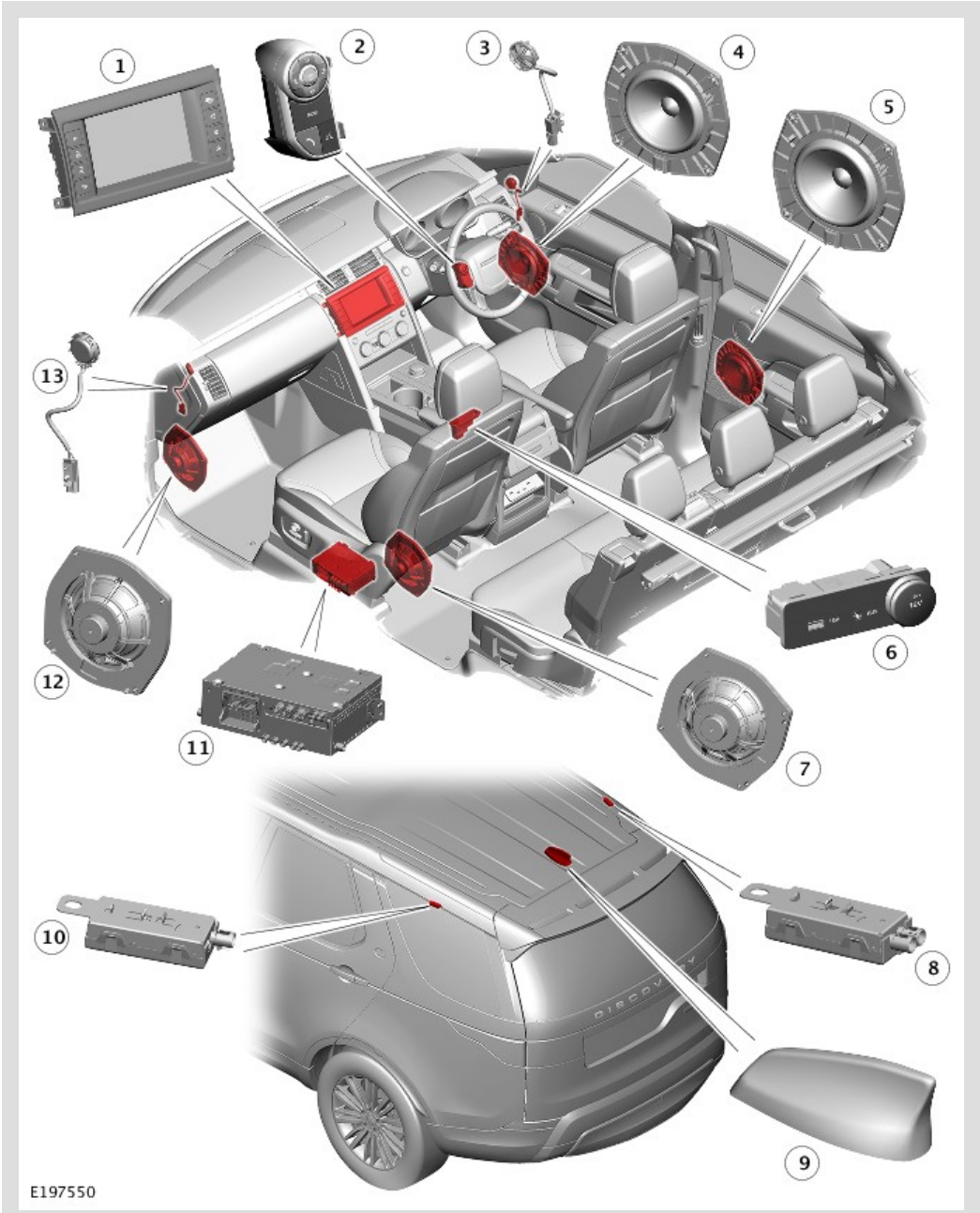
PUBLISHED: 23-NOV-2016
2017.0 DISCOVERY (LR), 415-01

INFORMATION AND ENTERTAINMENT SYSTEM - VEHICLES WITH: INCONTROL TOUCH

DESCRIPTION AND OPERATION

INCONTROL TOUCH SYSTEMS

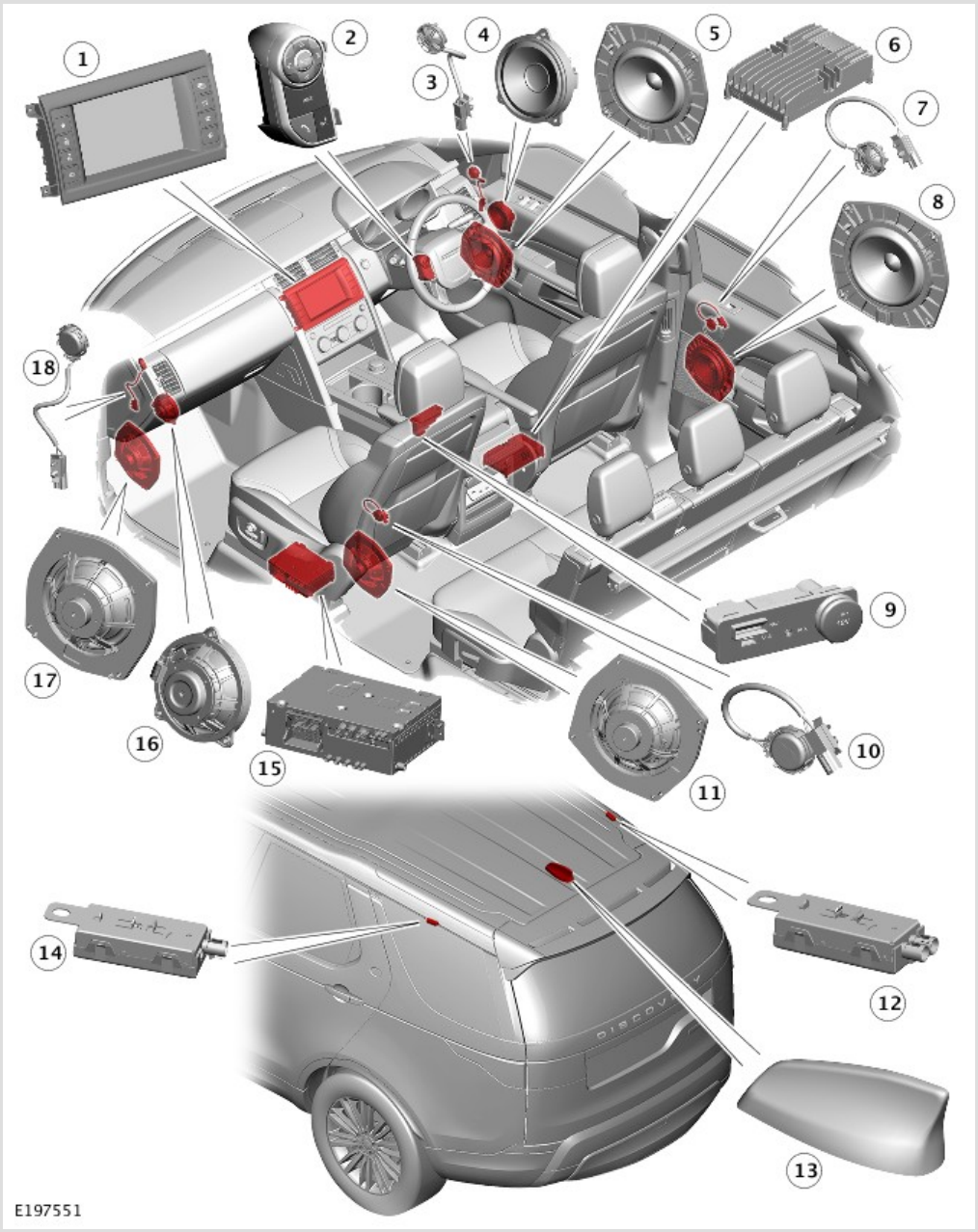
COMPONENT LOCATION - INCONTROL TOUCH LAND ROVER AUDIO SYSTEM



ITEM	DESCRIPTION
1	Touch Screen (TS)
2	Left steering wheel switchpack
3	Front right tweeter speaker
4	Front right bass speaker
5	Rear right bass speaker
6	Portable audio interface panel
7	Rear left bass speaker

8	Frequency Modulation 2 (FM2)/Digital Audio Broadcast 3 (DAB3) antenna amplifier
9	Roof pod (Global Navigation Satellite System (GNSS)/Digital Audio Broadcast L(DAB-L) antennas)
10	Amplitude Modulation (AM)/Frequency Modulation (FM) antenna amplifier
11	Audio Head Unit (AHU)
12	Front left bass speaker
13	Front left tweeter speaker

COMPONENT LOCATION - INCONTROL TOUCH LAND ROVER ENHANCED AUDIO SYSTEM



ITEM	DESCRIPTION
1	Touch Screen (TS)
2	Left steering wheel switchpack
3	Front right tweeter speaker
4	Front right mid-range speaker
5	Front right bass speaker
6	Audio Amplifier Module (AAM)
7	Rear right tweeter speaker
8	Rear right bass speaker
9	Portable audio interface panel
10	Rear left tweeter speaker
11	Rear left bass speaker
12	Frequency Modulation 2 (FM2)/Digital Audio Broadcast 3 (DAB3) antenna amplifier
13	Roof pod (Global Navigation Satellite System (GNSS)/Digital Audio Broadcast L (DAB-L) antennas)
14	Amplitude Modulation (AM)/Frequency Modulation (FM) antenna amplifier
15	Audio Head Unit (AHU)
16	Front left mid-range speaker
17	Front left bass speaker
18	Front left tweeter speaker

OVERVIEW - INCONTROL TOUCH

INCONTROL TOUCH AUDIO SYSTEMS

There are two levels of InControl Touch audio system, both systems use an Audio Head Unit (AHU):

- InControl Touch Land Rover Audio System - Six speaker 80 Watts audio system with integrated four channel audio amplifier.
- InControl Touch Land Rover Enhanced Audio System - Ten speaker 250 Watts audio system with external eight channel Audio Amplifier Module (AAM).

The InControl Touch Land Rover Audio System has the following features:

- Audio Head Unit (AHU) with integral four channel amplifier
- Amplitude Modulation (AM)/Frequency Modulation (FM)

- Digital Audio Broadcast (DAB) radio
- External media player inputs
- Short Message Service (SMS) text display
- Bluetooth® connectivity.

The InControl Touch Land Rover Enhanced Audio System has the following features

- Audio Head Unit (AHU)
- External eight channel Audio Amplifier Module (AAM)
- Amplitude Modulation (AM)/Frequency Modulation (FM)
- Digital Audio Broadcast (DAB) radio
- External media player inputs
- Bluetooth® connectivity
- Voice recognition
- SMS text display
- Navigation system with Secure Digital (SD) memory card updates.

Wired connectivity is made to the vehicle using a portable audio interface panel. The level of connectivity is dependent upon the vehicle infotainment equipment level.

The InControl Touch Land Rover Enhanced Audio System has a portable audio interface panel which contains sockets for:

- A Secure Digital (SD) memory card for navigation and voice control
- A 3.5 mm auxiliary media input socket
- A Universal Serial Bus (USB) 1.0/2.0 socket
- A 12V accessory socket.

The InControl Touch Land Rover Enhanced Audio system features satellite navigation and InControl Connect telematics system. For additional information, refer to: (415-01)

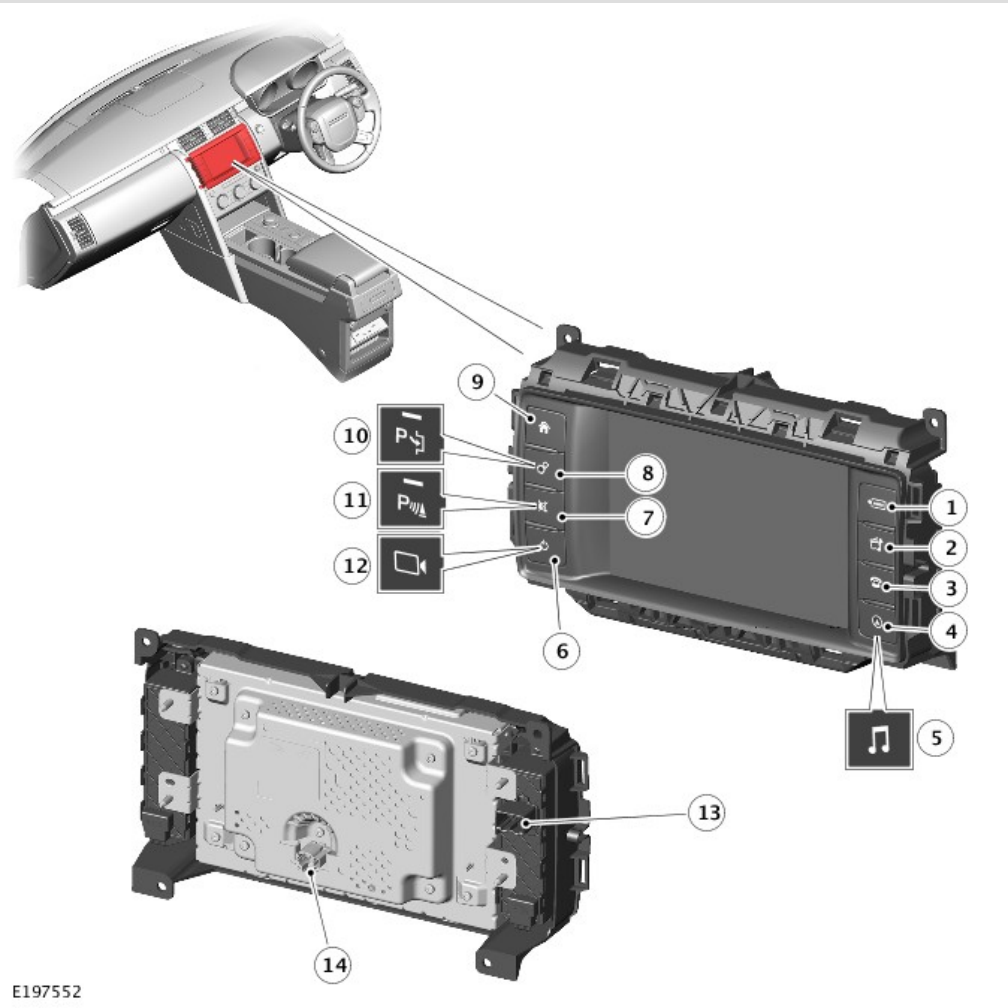
Navigation System (Description and Operation),
Telematics (Description and Operation).
Primary user control of the infotainment system is via the 8 inch Touch Screen (TS) and surrounding TS switchpack which is located in the center of the instrument panel. Additional control is via the left steering wheel switchpack.

DESCRIPTION - INCONTROL TOUCH

TOUCH SCREEN

NOTE:

Switch functions vary depending on vehicle specification



ITEM	DESCRIPTION
1	Mode switch
2	Media system switch
3	Telephone system switch
4	Navigation switch
5	Audio settings switch
6	Infotainment system On/Off switch

7	Audio mute switch
8	General settings switch
9	Home menu switch
10	Park assist switch
11	Front parking aid on/off switch (if fitted)
12	'Camera' switch
13	Connector - Touch Screen (TS) switchpack
14	Connector - Touch Screen (TS)

The 8 inch 800 X 480 resolution, single view Touch Screen (TS) is located in the center of the instrument panel. The TS comprises an 8 inch color, touch sensitive display, with a TS switchpack located on either side.

The TS switchpack differs depending on system specification, for example, if parking aid or navigation are specified on the vehicle, these switches will replace Audio Settings or Mute functions respectively. The functions can still be accessed via the home menu using the TS.

The TS is the primary user interface of the audio system. It communicates with the other components of the audio/infotainment system on the Automotive Pixel Link 2 (APIX2) connection to the Audio Head Unit (AHU). The TS allows control of the audio system and other system functions from a single point. No configuration procedure is required if the TS or TS switchpacks are replaced.

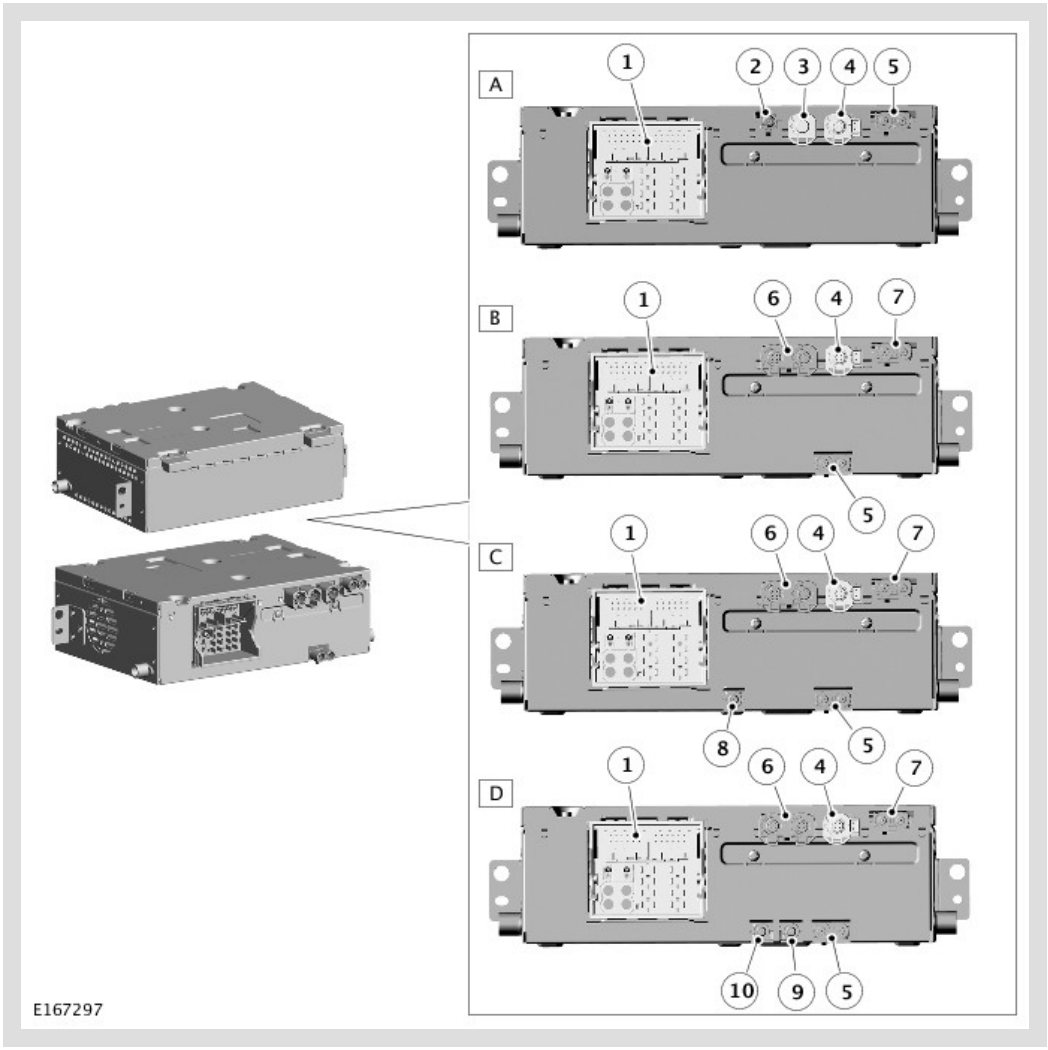
Calibration of the TS using approved diagnostic equipment enables updates to be downloaded as new technology becomes available or any fault concerns require software updates.

The rear of the TS has a single six pin connector for power, ground and APIX2 connections.

The TS switchpack comprises eight switches. The function of the switches can differ dependant on the infotainment system installed in the vehicle.

The TS switchpack has a single 12 pin connector which provides electrical connections to and from the switches to their respective control modules. The connector provides switch power supplies, switch illumination supplies and output from the switches via a resistive ladder. The outputs from the parking aid and park assist switches are passed directly to the Parking Assist Control Module (PACM).

AUDIO HEAD UNIT



ITEM	DESCRIPTION
A	Level 'B' Audio Head Unit (AHU) - All markets
B	Level 'C' Audio Head Unit (AHU) with navigation - All markets
C	Level 'C' - Not used
D	Level 'C' Audio Head Unit (AHU) with navigation and Digital Audio Broadcast (DAB) - European markets only
1	Connector - 40 pin
2	Connector - Camera
3	Connector - Universal Serial Bus (USB)
4	Connector - Touch Screen (TS) APIX2
5	Connector - Amplitude Modulation (AM)/Frequency Modulation (FM) antenna input

6	Connector - Universal Serial Bus (USB)
7	Connector - Global Navigation Satellite System (GNSS) and camera
8	Connector - Not used
9	Connector- Digital Audio Broadcast 3 (DAB3) (European markets only)
10	Connector - Digital Audio Broadcast L (DAB-L) (European markets only)

The Audio Head Unit (AHU) is located below the front left seat. The AHU is the main infotainment controller for the InControl Touch audio system.

Four levels of AHU are available depending on market and vehicle specification:

FEATURE	AUDIO HEAD UNIT LEVEL B - ALL MARKETS	AUDIO HEAD UNIT LEVEL C - ALL OTHER MARKETS	AUDIO HEAD UNIT LEVEL C - EUROPE	AUDIO HEAD UNIT LEVEL C - NORTH AMERICAN SPECIFICATION (NAS)
Amplitude Modulation (AM) /Frequency modulation (FM) radio diversity	Yes	Yes	Yes	Yes
Digital Audio Broadcast (DAB) radio	No	Yes	Yes	Yes
8-channel internal amplifier	Yes	No	No	No
12-channel external amplifier	No	Yes	Yes	Yes
Bluetooth® mobile phone system	Yes	Yes	Yes	Yes
Bluetooth® audio streaming	Yes	Yes	Yes	Yes
Live phonebook access	Yes	Yes	Yes	Yes
Voice recognition	No	Yes	Yes	Yes
SMS text display	Yes	Yes	Yes	Yes
Secure Digital (SD) memory card Global Navigation Satellite System	No	Yes	Yes	Yes
Telematics - E-Call/B-Call mute only	Yes	Yes	Yes	Yes
Telematics - WiFi/internet	No	Yes	Yes	Yes
3.5mm auxiliary input	Yes	Yes	Yes	Yes
Universal Serial Bus (USB) Input - media player/audio /video/iPod audio/USB charging	Yes - 0.5A charging	Yes - 2.1A charging	Yes - 2.1 A charging	Yes - 2.1A charging

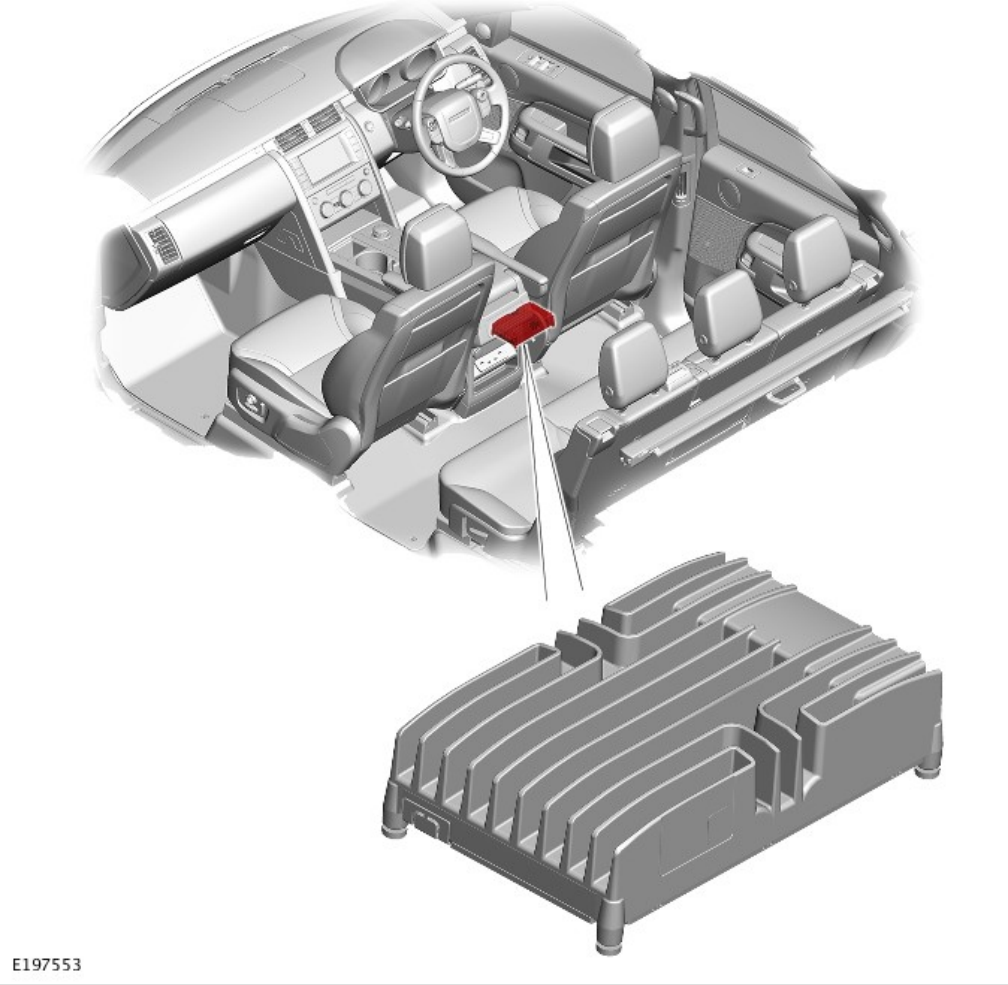
The AHU receives a power supply via a fuse in the Battery Junction Box (BJB) and the quiescent current relay and fuse in the Rear Junction Box (RJB).

The AHU is subject to the power management of the quiescent current relay which is integrated into the RJB and controlled by the Body Control Module/Gateway Module (BCM/GWM).
For additional information, refer to: Battery and Cables (414-01, Description and Operation).

High Speed (HS) Controller Area Network (CAN) comfort system bus connections provide communication with other system control modules via the BCM/GWM.

The AHU uses Automotive Pixel Link 2 (APIX2) protocol for video output to the Touch Screen (TS). APIX2 is a high speed digital serial link capable of communicating up to 3 Gbit/second of digital video data. The serial link can support simultaneous video, audio and data transmission from the AHU and the TS.

AUDIO AMPLIFIER MODULE - LAND ROVER ENHANCED AUDIO SYSTEM



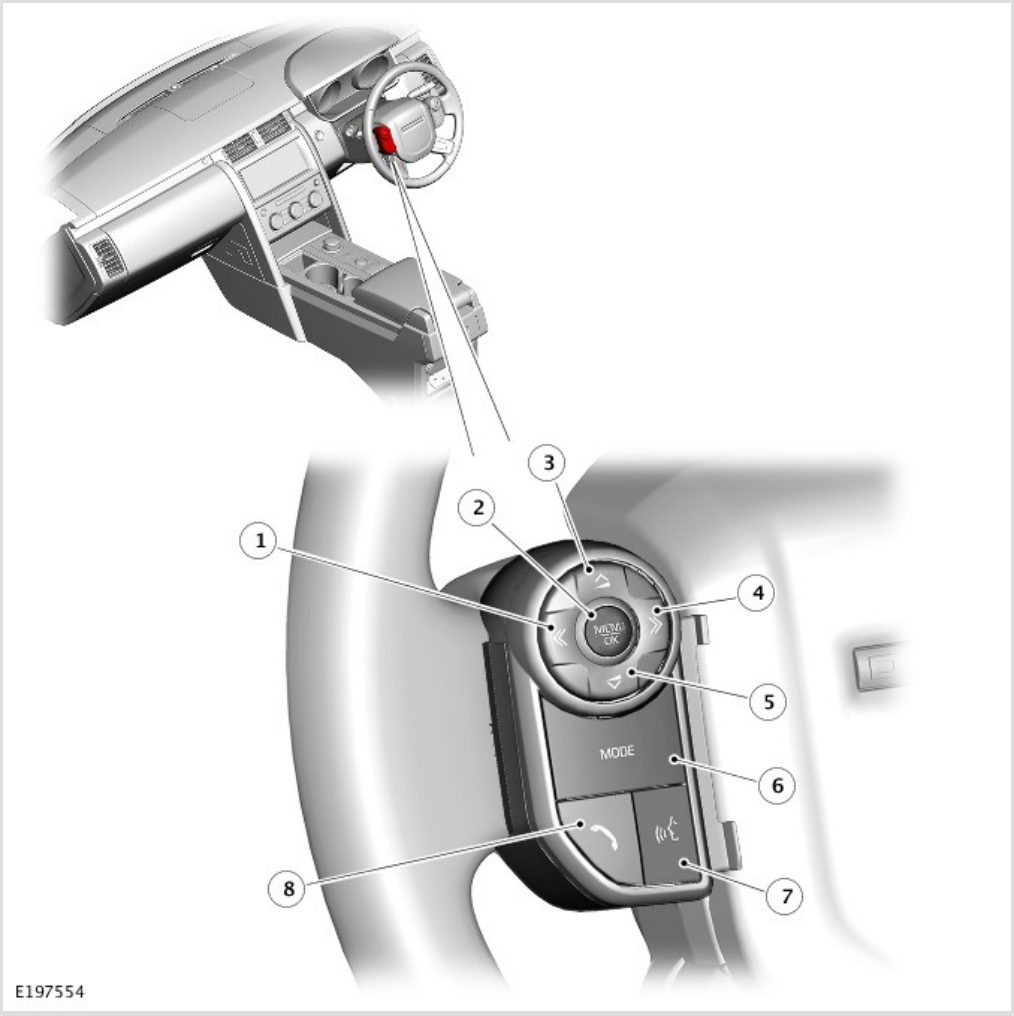
The InControl Touch Land Rover Enhanced Audio System uses an external 250 Watts eight channel Audio Amplifier Module (AAM). The AMM is located below the front right seat.

The AAM has three electrical connectors which provide for:

- The power and ground connections
- A private infotainment High Speed (HS) Controller Area Network (CAN) bus between the Audio Head Unit (AHU) and the AAM
- Hardwired connections to the vehicle speakers.

The AAM receives a power supply via a fuse in the Battery Junction Box (BJB), the Voltage Quality Module (VQM) and a fuse in the Rear Junction Box (RJB).
For additional information, refer to: Battery and Cables (414-01, Description and Operation).

LEFT STEERING WHEEL SWITCHPACK



ITEM	DESCRIPTION

1	Seek, previous radio preset, previous track
2	Menu/OK button (instrument cluster menu control)
3	Volume increase
4	Seek, next radio preset, next track
5	Volume decrease
6	Mode button
7	Voice button
8	Telephone answer/end call button

The left steering wheel switchpack is located on the left side of the steering wheel.

The switches are a resistive ladder type which apply a different voltage to the right steering wheel switchpack in response to different switches being pressed.

The right steering wheel switchpack converts the voltage received from the left steering wheel switchpack into a Local Interconnect Network (LIN) bus message. The LIN bus message is passed to the Body Control Module/Gateway Module (BCM/GWM) via the Steering Wheel Module (SWM). The BCM/GWM communicates the driver request from the left steering wheel switchpack to the Audio Head Unit (AHU). The BCM /GWM communicates via the High Speed (HS) Controller Area Network (CAN) comfort systems bus.

The left steering wheel switchpack controls the following functions:

- MODE - Press repeatedly to scroll through all audio/video sources.
- » Short press up:
  - To select the next radio preset
  - To select the next track on chosen audio source.
- «Short press down:
  - To select the previous radio preset
  - To select the previous track or start of current track on chosen audio source.
- With radio manual seek mode activated, further short presses will change the frequency in single increments. A further long press will scan forwards through the current waveband until the button is released.
- » Long press up:
  - To auto seek up the frequency to the next radio station.
- « Long press down:
  - To auto seek down the frequency to the next radio station.

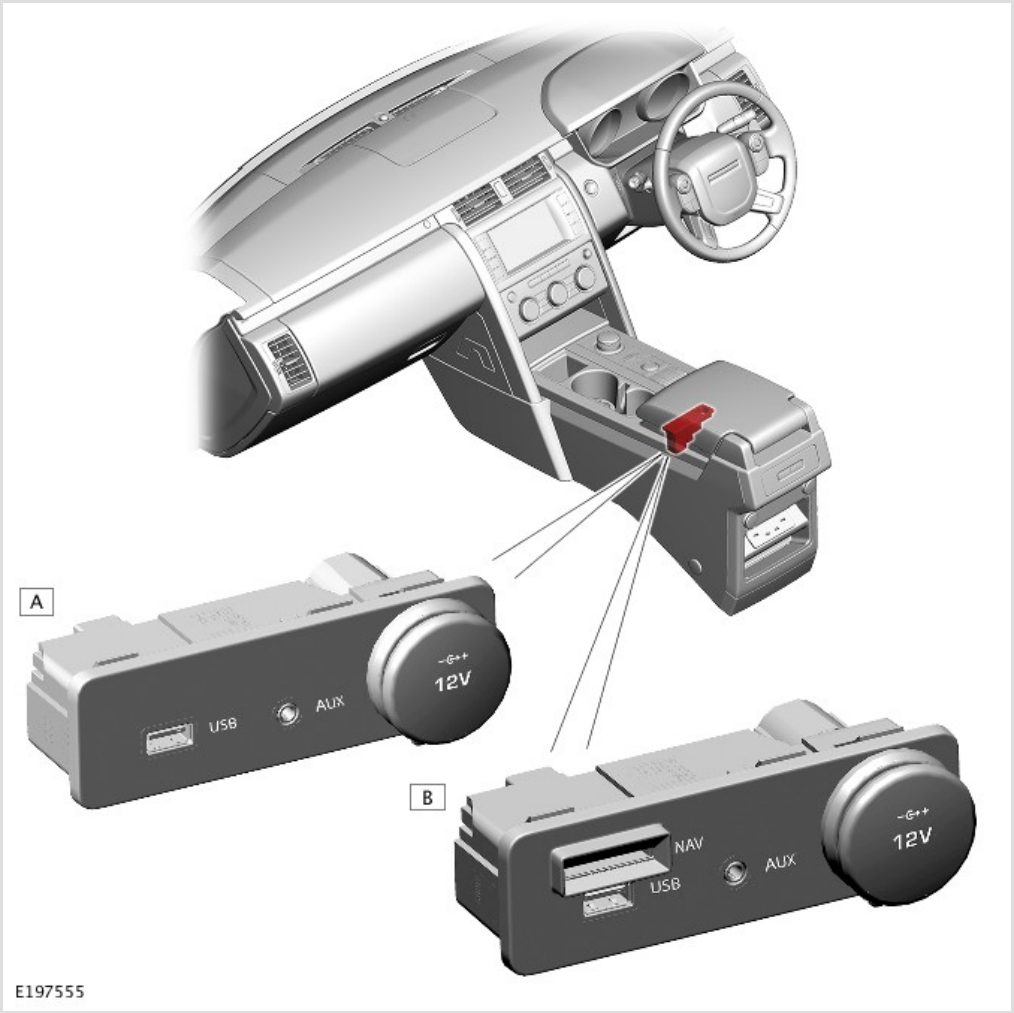
- Volume increase for any audio source
- Volume decrease for any audio source.

The MENU/OK switch is for use with the instrument cluster menu.
For additional information, refer to: Instrument Cluster (413-01, Description and Operation).

For further details on the telephone switch refer to cellular phone.
For additional information, refer to: Cellular Phone (415-01, Description and Operation).

For further details on the voice switch refer to voice control.
For additional information, refer to: Voice Control (415-01, Description and Operation).

PORTABLE AUDIO INTERFACE PANEL



ITEM	DESCRIPTION
A	For InControl Touch systems without navigation and voice control

B	For InControl Touch systems with navigation and voice control

The portable audio interface panel is located in the front floor console stowage compartment.

Two versions of the portable audio interface panel are available dependent on vehicle specification. The versions have combinations of:

- A Secure Digital (SD) memory card slot
- A 3.5 mm auxiliary media input socket
- A Universal Serial Bus (USB) 1.0/2.0 socket
- A 12V accessory socket.

InControl Touch Audio Systems with Secure Digital Memory Card

A version of the portable audio interface panel is for the InControl Touch systems for vehicles with navigation system. On these vehicles the portable audio interface panel includes a Secure Digital (SD) memory card slot for navigation system, voice control and mobile phone software.
For additional information, refer to: Navigation System (415-01, Description and Operation) /
Voice Control (415-01, Description and Operation).

NOTE:

The Secure Digital (SD) memory card must not be removed or the files modified. If the SD memory card is removed, the navigation, voice control and telephone will be inoperable. The SD memory card slot cannot be used for media files. Installation of any external content or modification of the files on the SD card can corrupt the SD memory card. This can cause voice control, mobile phone and navigation systems to be inoperable.

Removal and re-installation of the SD memory card when the ignition is on (power mode 6) will cause voice control, telephone and navigation systems to be inoperable. To re-initialise the SD memory card, switch the ignition to 'off' (power mode 4) and lock and arm the vehicle (power mode 0). Unlock the vehicle (power mode 4) and install the SD memory card in the slot in the portable audio interface panel. Put the ignition to 'on' (power mode 6). The SD card will be detected and voice control and navigation will operate correctly.

Universal Serial Bus

The Universal Serial Bus (USB) socket is connected directly to a USB socket on the Audio Head Unit (AHU). The USB allows data transfer between the socket from an external media device. The socket also provides a 5V charging voltage at a current of 0.5A for level B AHU and 2.1A for level C AHU. The USB power supply originates from a fused supply from the Rear Junction box (RJB) and is controlled by a quiescent current relay. The USB charging supply is available after the ignition is off (power mode 0) for a pre-determined period while the quiescent current relay contacts are open.
For additional information, refer to: Battery and Cables (414-01, Description and Operation).

General Media Information

Devices that can be connected to the portable audio interface panel include:

- Universal Serial Bus (USB) mass storage devices (for example a memory stick). Devices must use FAT or FAT32 file format.
- iPod® (iPod® Classic, iTouch®, iPhone® and iPod® Nano are supported - Full functionality for older devices cannot be guaranteed). iPod Shuffle function cannot be guaranteed.
- Auxiliary device (personal audio, MP3 players).
- Devices with Bluetooth® connectivity. Devices must support A2DP and AVRCP Bluetooth® protocols.

When connecting a portable storage device, select 'AUX' on the Touch Screen (TS) to select that device input. Depending on the device connected, many of the audio controls on the TS and left steering wheel switchpack can be used.

NOTE:

It is recommended to disconnect an iPod when leaving the vehicle. Failure to do so may result in the iPod battery discharging.

To maximise playback quality, it is recommended to use lossless compression for any media files on iPod. Failing this, it is recommended that compressed files utilise a minimum bitrate of 192 kilobits per second (kbps). A higher bitrate is strongly recommended for increased quality playback.

For media files delivered via USB or MP3 players, the highest compression rate supported is 320 kbps. If anything less than 128 kbps is used, Digital Signal Processing (DSP) functionality may be lost.

Some MP3 players may have a file system that is not supported by the Audio Head Unit (AHU). To use an MP3 player, it must be set to USB removable device or mass storage device mode. Only music that has been added to the device in this mode can be played.

ANTENNAS

The following antennas are located in the roof pod and rear quarter windows:

- Amplitude Modulation (AM)
- Frequency Modulation (FM)
- Digital Audio Broadcast (DAB) radio
- Satellite Digital Audio Radio System (SDARS)
- HD Radio™
- Fuel Fired Booster Heater (FFBH).

For additional information, refer to: Antenna (415-01, Description and Operation).

SPEAKERS

The number, location and specification of the speakers in the vehicle differs depending on the level of audio system fitted.

For details of the speaker systems, refer to the 'Speakers' section.
For additional information, refer to: Speakers (415-01, Description and Operation).

VOICE CONTROL SYSTEM

InControl Touch audio systems have voice control software resident on the Secure Digital (SD) memory card.

A voice control microphone is located in the front overhead console and is hardwired to the Audio Head Unit (AHU).

The voice control system provides the driver with the option of voice control for a range of supported functions. The following systems include voice functionality:

- Bluetooth® mobile phone system
- Radio
- Media devices.

For further details of the advanced voice control system refer to the voice control section.
For additional information, refer to: Voice Control (415-01, Description and Operation).

OPERATION - INCONTROL TOUCH

A permanent primary battery supply is provided to the Audio Head Unit (AHU) via a quiescent current relay in the Rear Junction Box (RJB). The quiescent current relay is controlled by the Body Control module/Gateway Module (BCM/GWM).

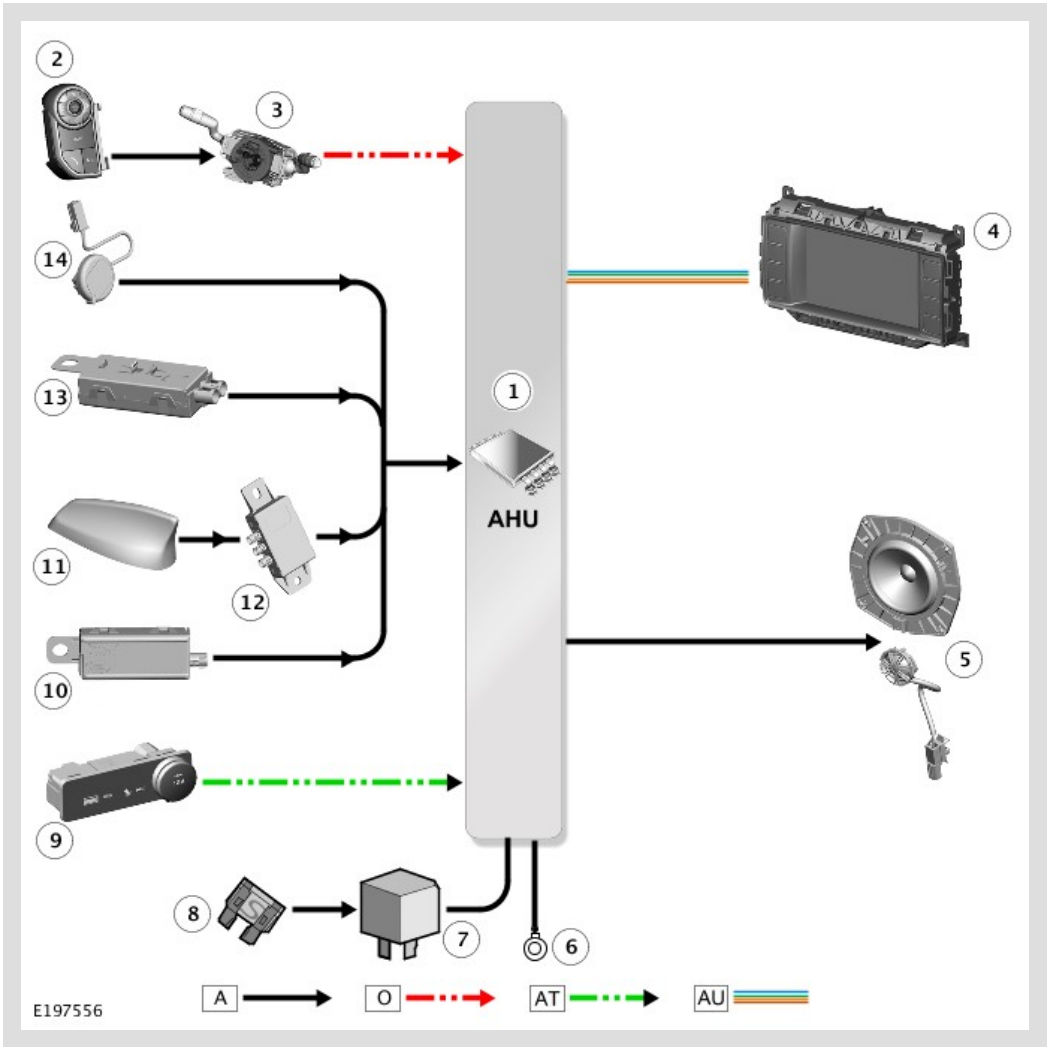
The BCM/GWM receives battery status signals transmitted by the Battery Monitoring System (BMS) control module. The BCM/GWM can disable the power supply to other non-essential control modules to avoid excessive discharge of the primary battery. The systems supplied via the quiescent current relay are the infotainment systems and the climate control systems.
For additional information, refer to: Battery and Cables (414-01, Description and Operation).

The AHU is connected to the Touch Screen (TS) via an Automotive Pixel Link 2 (APIX2) connection. APIX2 is a high speed data transmission over a single twisted pair cable. TS selections by the driver are passed to the AHU on the APIX2 connection for processing.

The portable audio interface panel is connected to the AHU with Universal Serial Bus (USB) data links. The USB socket provides a 5V charging output for the connected device and also provide external connection of a device to the AHU.

CONTROL DIAGRAMS - INCONTROL TOUCH

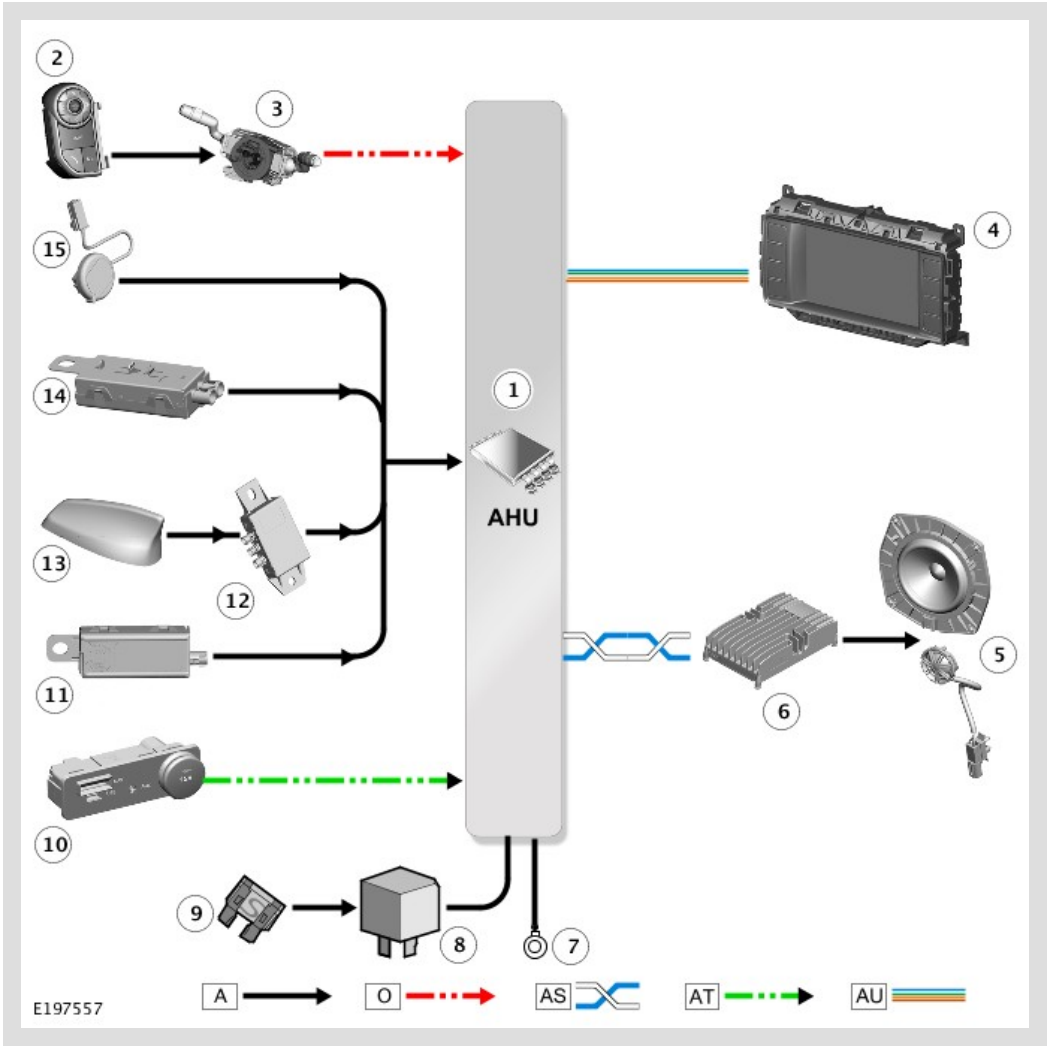
INCONTROL TOUCH LAND ROVER AUDIO SYSTEM


2
3
14
13
11
12
10
9
8
7
6
1
AHU
4
5
A
O
AT
AU
E197556

A = HARDWIRED: O = LOCAL INTERCONNECT NETWORK (LIN): AT = UNIVERSAL SERIAL BUS (USB): AU = APIX2

ITEM	DESCRIPTION
1	Audio Head Unit (AHU)
2	Left steering wheel switchpack
3	Steering Wheel Module (SWM)
4	Touch Screen (TS)
5	Vehicle speakers
6	Ground
7	Quiescent current relay - Located in Rear Junction Box (RJB)
8	Fuse - Located in Rear Junction Box (RJB)
9	Portable audio interface panel
10	Amplitude Modulation (AM)/Frequency Modulation (FM) antenna amplifier
11	Roof pod - Global Navigation Satellite System (GNSS) antenna/ Digital Audio Broadcast-L (DAB-L) antenna
12	Global Positioning System (GPS) signal splitter - If fitted
13	Frequency Modulation 2 (FM2)/Digital Audio Broadcast 3 (DAB3) antenna amplifier
14	Microphone

INCONTROL TOUCH LAND ROVER ENHANCED AUDIO SYSTEM


2
3
15
14
13
12
11
10
9
8
7
1
AHU
4
6
5
E197557
A
O
AS
AT
AU

A = HARDWIRED: O = LOCAL INTERCONNECT NETWORK (LIN): AS = PRIVATE INFOTAINMENT HIGH SPEED (HS) CONTROLLER AREA NETWORK (CAN) BUS: AT = UNIVERSAL SERIAL BUS (USB): AU = APIX2

ITEM	DESCRIPTION
1	Audio Head Unit (AHU)
2	Left steering wheel switchpack
3	Steering Wheel Module (SWM)
4	Touch Screen (TS)
5	Vehicle speakers
6	Audio Amplifier Module (AAM)
7	Ground
8	Quiescent current relay - Located in Rear Junction Box (RJB)
9	Fuse - Located in Rear Junction Box (RJB)
10	Portable audio interface panel
11	Amplitude Modulation (AM)/Frequency Modulation (FM) antenna amplifier
12	Roof pod - Global Positioning System (GPS) antenna / DAB-L antenna
13	Global Positioning System (GPS) signal splitter - if fitted
14	Frequency Modulation (FM) 2/Digital Audio Broadcast (DAB) 3 antenna amplifier
15	Microphone