

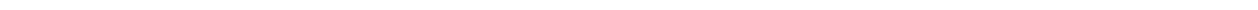
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Bentley Rear Seat Entertainment System Installation Manual

621

BY62PDS-182



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REVISION HISTORY

Version	Issue date	Reason for change
VI		Initial Version

ABBREVIATIONS AND DEFINITIONS USED IN THIS DOCUMENT

The following table lists the terms used in this document.

Term	Definition
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The following table lists the abbreviations used in this document.

Abbreviation	Meaning
RSE	Rear Seat Entertainment
DVD	Digital Video Disc

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1.1 FEATURE DESCRIPTION

1.1.1 GENERAL OVERVIEW

The components described in this document shall be the components to make up a brand new rear seat entertainment system for the Bentley 621 project.

The **systems** will provide the user the following high level features:

RSE High

1. Access to the internet via a 3G UMTS module (Package protection to be included for LTE module as part of design). User accessible SIM slot.
2. Use of the system as an in-car Wi-Fi hotspot for up to 5 devices.
3. The ability to listen to music in the vehicle using the vehicle speakers and/or headphones.
4. The ability to connect 3rd party devices to use the internet
5. The ability to listen to internet radio
6. The ability to bring their media to the car and be able to watch & listen to it (SD Cards and USB devices including apple devices).
7. The ability to have any customer accessible USB connections.
8. Controlling the system via the supplied Touch screen remote control, or a 3rd Party application on a compatible device (device application development not part of this specification) via a Bluetooth or Wi-Fi (third party) link
9. Provide Diagnostics on CAN for the Dealers to diagnose faults.
10. The ability to watch videos using the provided screens in the car.
11. The ability to display location based map data to the customer via Bing maps.
12. The ability to watch DVD's
13. The system shall allow the user to watch TV. There is a group TV tuner fitted to the vehicle with a component output.
14. The system shall enable the user to use wireless headphones.

1.1.2 COMPONENT DESCRIPTION(S)

1.1.2.1 General

The system shall be made up of four fundamental units. The system shall have one primary diagnostics address on CAN to report diagnostic information to the vehicle and also to integrate with the vehicle power management system.

1.1.2.2 RSE Control Unit 4W0.907.157.X

This 1 DIN unit shall go in the glove box. This unit should deal with connectivity and vehicle integration.

1.1.2.3 DVD Loader unit 4W0.035.123.X (2 off)

DVD Loader, USB, SD and a HDMI in interface. Located in the Front seatbacks

1.1.2.4 LCD Monitor 4W0.919.607 (2 off)

10" Screens Mounted on the Seatbacks

2 INSTALLATION REQUIREMENTS

2.1 RSE CONTROL UNIT

In order to meet the legislation for the FCC & IC requirements the system needs to have some minimum separation distances from the surface that the user could touch for the SAR regulations.

CAUTION: FCC REGULATORY REQUIREMENTS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 - This device may not cause harmful interference, and
- 2 - This device must accept any interference received, including interference that may cause undesired operation.

Any change or modification to the product not expressly approved by the manufacturer could void the user's authority to operate the device.

FCC RF Radiation Exposure Statement:

This equipment contains a radio transmitter. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency energy set by the Federal Communication Commission (FCC) of the US Government in accordance with part 2.1091 of the FCC Rules for an uncontrolled environment.

The equipment is installed to ensure a minimum 20 cm distance between the two antennas and, with a minimum safe operating distance of 20 cm between the respective antennas and the car occupants

CAUTION: IC REGULATORY REQUIREMENTS

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- 1 - This device may not cause interference.
- 2 - This device must accept any interference, including interference that may cause undesired operation of the device.

Any change or modification to the product not expressly approved by the manufacturer could void the user's authority to operate the device.

IC RF Radiation Exposure Statement:

This equipment contains a radio transmitter. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency energy as stated within the Industry Canada RSS standard(s).

This radio transmitter (IC: 11196A-D189070) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Antenna Models:

For GSM / UMTS: Smarteq Antenna AB; part No: 3W7.035.524.A

For Bluetooth / WLAN: WISI Automotive GmbH & Co. KG; part: Wisi AG9I WLAN Bentley 4W0.962.131

The equipment is installed to ensure a minimum 20 cm distance between the two antennas and, with a minimum safe operating distance of 20 cm between the respective antennas and the car occupants.

ATTENTION: IC EXIGENCES RÉGLEMENTAIRES

Cet appareil est conforme avec Industrie Canada RSS exemptes de licence standard (s). Son fonctionnement est soumis aux deux conditions suivantes:

- 1 - Ce dispositif ne peut causer des interférences.
- 2 - Ce dispositif ne peut causer des interférences.

Tout changement ou modification au produit non expressément approuvés par le fabricant peuvent annuler le droit de l'utilisateur à utiliser l'appareil.

IC Rayonnement RF de Déclaration d'exposition:

Cet appareil contient un émetteur radio. Il est conçu et fabriqué pour ne pas dépasser les limites d'émission pour l'exposition à l'énergie de radiofréquence comme indiqué dans la norme (s) d'Industrie Canada RSS

Le présent émetteur radio (IC: 11196A-D189070) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Modèles d'antenne:

Pour GSM / UMTS: Smarteq Antenna AB; part No: 3W7.035.524.A

Pour Bluetooth / WLAN: WISI Automotive GmbH & Co. KG; part: Wisi AG9I WLAN Bentley 4W0.962.131

L'équipement est installé pour assurer une distance minimale de 20 cm entre les deux antennes et, avec une distance de fonctionnement minimale de sécurité de 20 cm entre les antennes respectives et les occupants de la voiture.

2.1.1 GENERAL INFORMATION

The Control unit 2 for information electronics -J829- -arrowed- is located inside the glove box on the outboard side.

**Note**

Image shows a right hand drive vehicle. Left hand drive vehicle is a mirror image.

Replacement control units require additional programming via the Vehicle tester. Refer to Installation instructions.

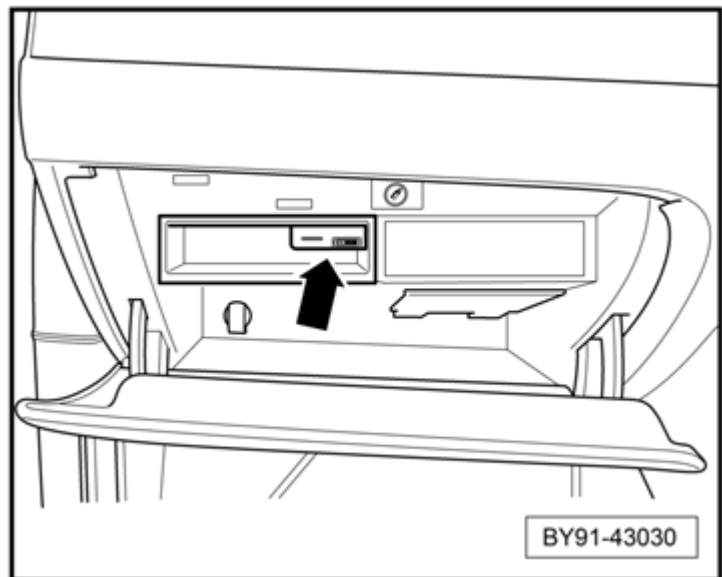


Figure 1 Location of RSE Control Unit in the front glove box

Special tools and workshop equipment required

1. Removal tool -WT 10221-

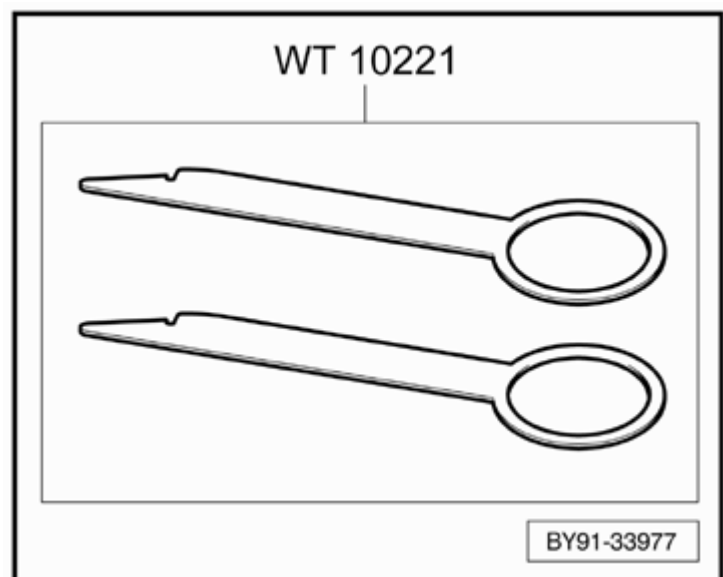


Figure 2 Removal tool WT 10221

2. Vehicle tester

Torque tightening values

Unless otherwise shown,
standard torque values apply.

→ *Rep.-Gr.00*

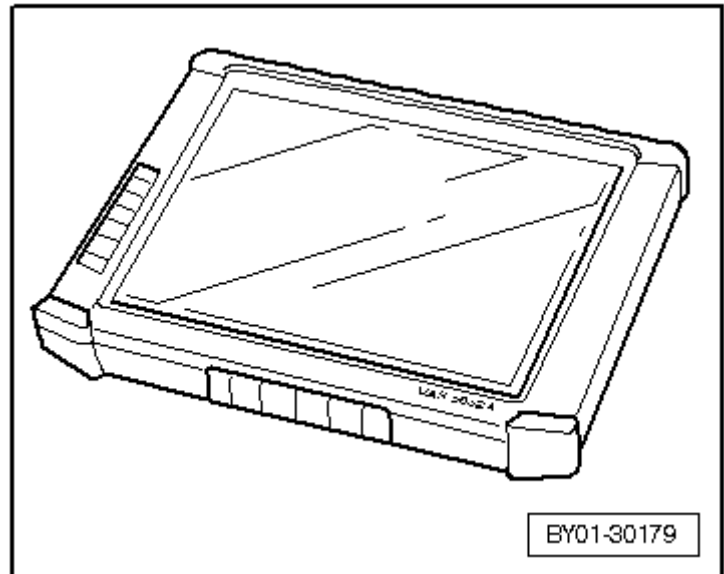


Figure 3 Vehicle tester

2.1.2 INSTALLATION

1. Ensure all electrical connectors are connected correctly.
2. Insert the unit into the slot in the Glove box.
3. After installation ensure the catches secure the control unit on both sides. This can be confirmed by an audible click being heard and then attempting to withdraw the control unit without using the removal tools.
4. A new control unit will require coding. Connect the Vehicle tester to the vehicle and run Software Version Management (SVM). Refer to "Diagnostic system - Guided functions/Component replacement".

→ *Rep.-Gr.97*

Removal

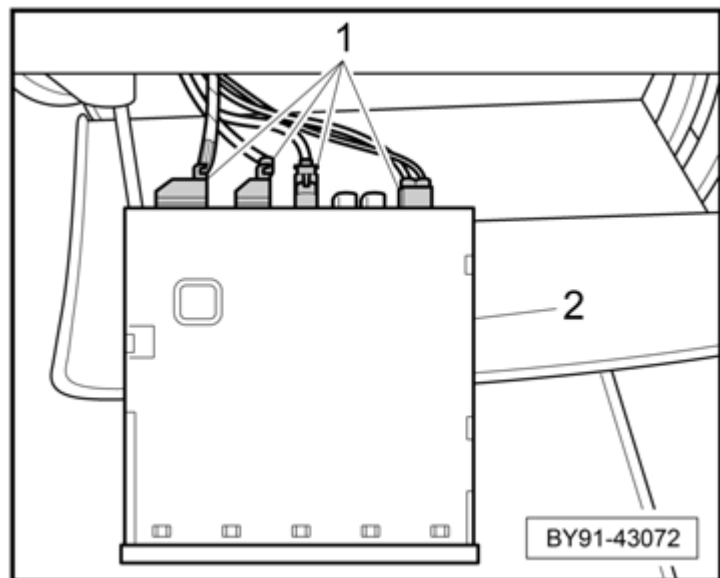


Figure 4 RSE Control Unit - Electrical Connections behind Control Unit

2.1.3 REMOVAL

The following procedure is based on a right hand drive vehicle. The procedure is the same for both left hand and right hand drive.

1. Switch off the ignition
2. Insert the removal tools - WT
3. 10221- into the slots in the control unit until they locate



Note

Ensure that both tools click into position before attempting to remove the control unit.

Push and hold the tools outwards in the direction of the -arrows- to release the retaining clips, then pull rearwards evenly to slide out the control unit.

Press the retaining clips - arrowed- inwards on both sides to release the removal tools -1-.

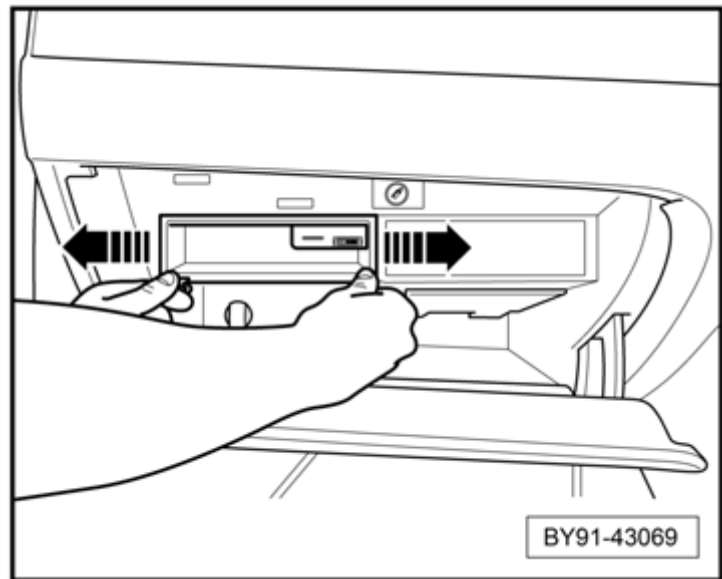


Figure 5 RSE Control Unit - Removal of RSE Control Unit

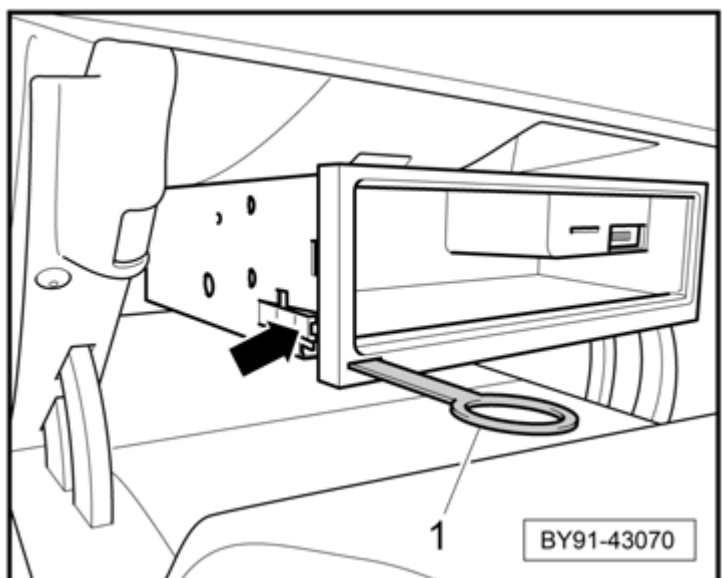


Figure 6 RSE Control Unit – Extracting removal tool

Disconnect the harness connectors -1- and remove the control unit -2- from the vehicle.

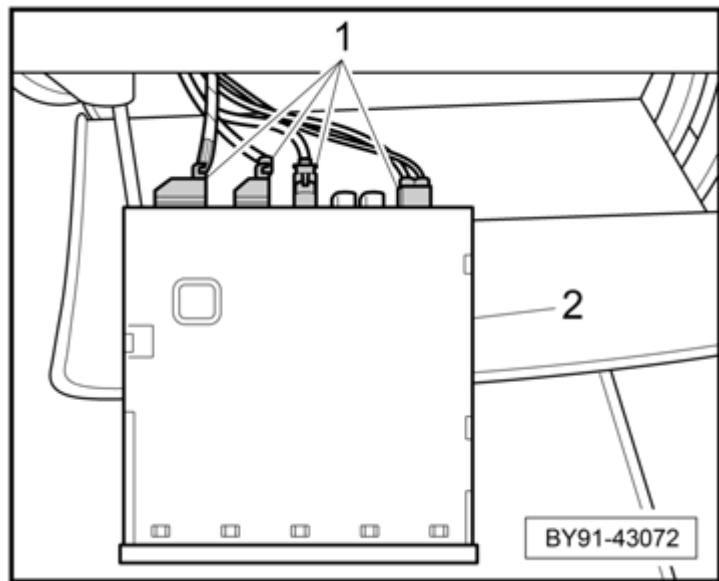


Figure 7 RSE Control Unit - Removal of Electrical Connectors

2.2 DVD LOADER UNIT

In order to meet legislation for the FCC & IC requirements the system needs to have some minimum separation distances from the surfaces that the user could touch for the SAR regulations.

CAUTION: FCC REGULATORY REQUIREMENTS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 - This device may not cause harmful interference, and
- 2 - This device must accept any interference received, including interference that may cause undesired operation.

Any change or modification to the product not expressly approved by the manufacturer could void the user's authority to operate the device.

FCC RF Radiation Exposure

Statement:

This equipment contains a radio transmitter. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency energy set by the Federal Communications Commission (FCC) of the US Government. This equipment complies with the FCC radiation exposure limits set forth for an uncontrolled environment in accordance with Part 2.1093 of the FCC Rules and KDB 447498.

CAUTION: IC REGULATORY REQUIREMENTS

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- 1 - This device may not cause interference.

2 - This device must accept any interference, including interference that may cause undesired operation of the device.

Any change or modification to the product not expressly approved by the manufacturer could void the user's authority to operate the device.

IC RF Radiation Exposure Statement:

This equipment contains a radio transmitter. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency energy as stated within the Industry Canada RSS standard(s).

This equipment is compliant with RSS-102, exemption from routine evaluation limits for uncontrolled environments.

ATTENTION: IC EXIGENCES RÉGLEMENTAIRES

Cet appareil est conforme avec Industrie Canada RSS exemptes de licence standard (s). Son fonctionnement est soumis aux deux conditions suivantes:

- 1 - Ce dispositif ne peut causer des interférences.
- 2 - Ce dispositif ne peut causer des interférences.

Tout changement ou modification au produit non expressément approuvés par le fabricant peuvent annuler le droit de l'utilisateur à utiliser l'appareil IC Rayonnement RF de Déclaration d'exposition:

Cet appareil contient un émetteur radio. Il est conçu et fabriqué pour ne pas dépasser les limites d'émission pour l'exposition à l'énergie de radiofréquence comme indiqué dans la norme (s) d'Industrie Canada RSS.

Cet équipement est conforme à la norme RSS-102, l'exonération des limites d'évaluation de routine pour les environnements non contrôlés.

For the IC certification the minimum distance is not maintained without the surrounding components such that any modification to the system must meet the requirements as follows:

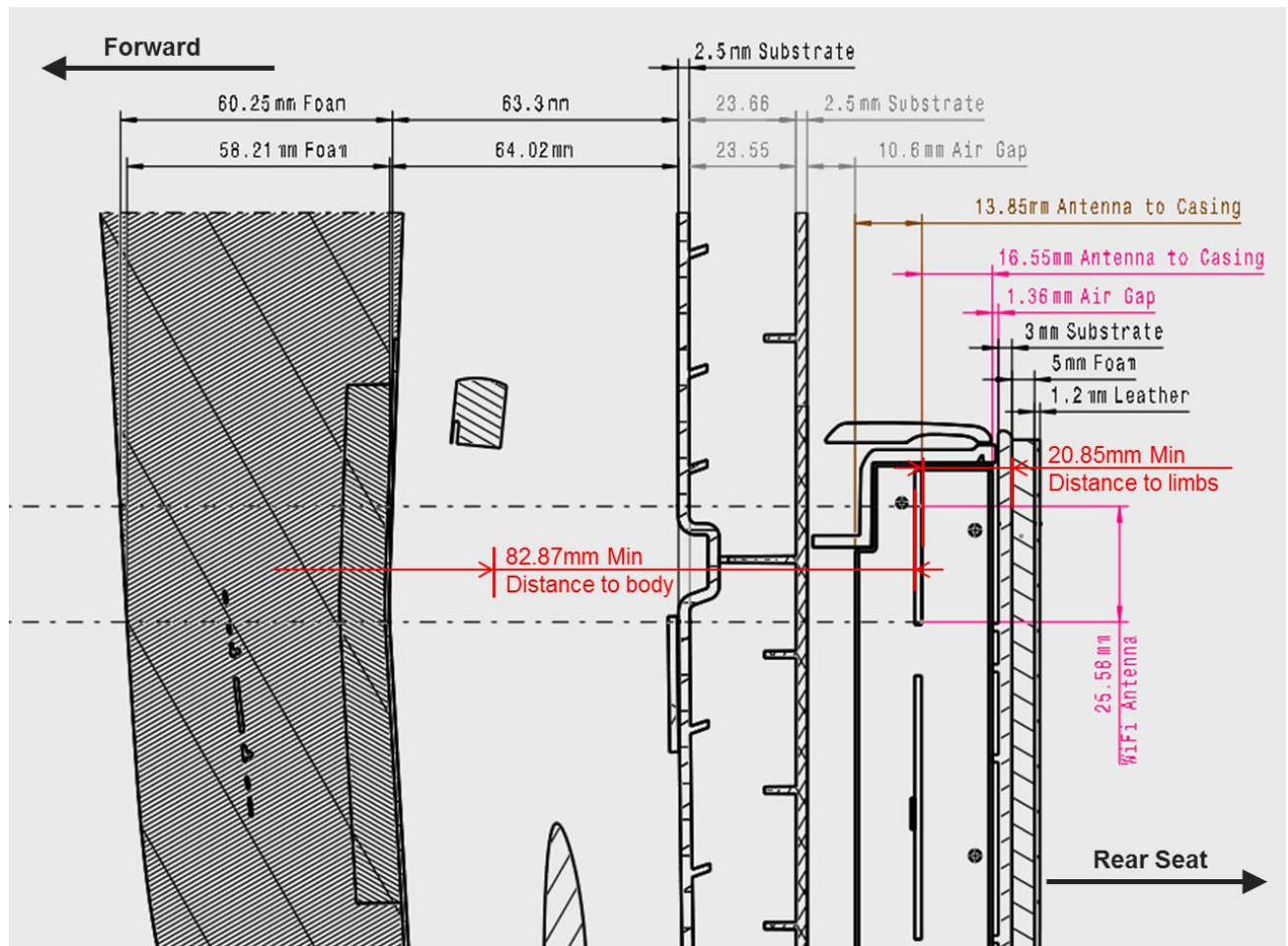


Figure 8 Minimum required separation distances required to be maintained between Antenna and Body or Limbs

2.2.1 INSTALLATION GUIDE

Installing the DVD loader as per this guide will ensure that the minimum distances as mentioned in Figure 8 are met.

Connect the harness connections prior to refitting the DVD loader to the front seat squab. Torque tighten all fixings.

Slide the DVD Loader unit Figure 9-2- down over the catches on the front. And insert the fixings Figure 9-1- (1.8Nm).

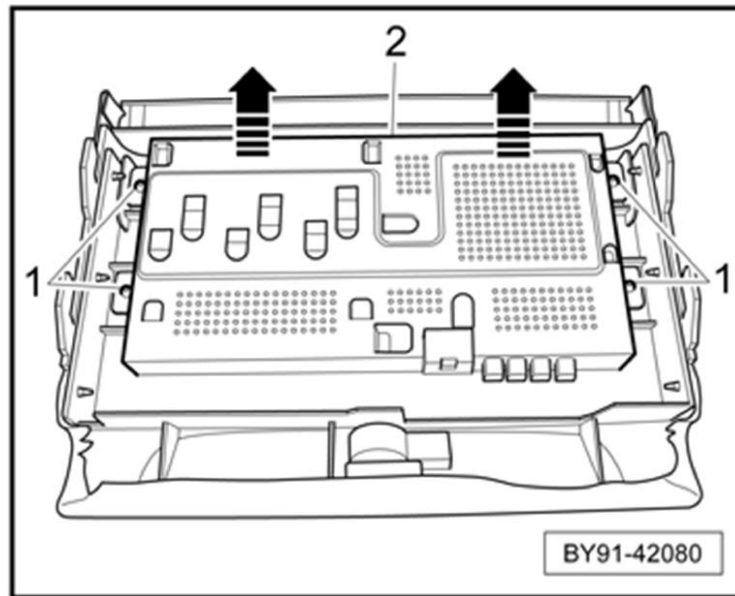


Figure 9 DVD Loader Unit Installation – Mounting to map pocket

Connect the DVD loader unit harness connections to the leads coming off the seat as shown in Figure 10.

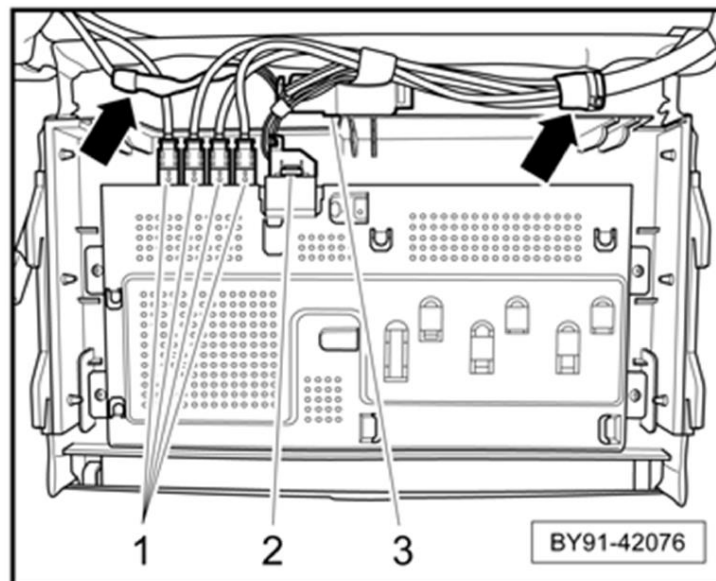


Figure 10 DVD Loader Unit Installation - Harness Connection

Offer the DVD Loader Unit and map pocket to the seat and slide upwards to engage the catches at the side inserting the 3 fixings as shown in Figure 11.

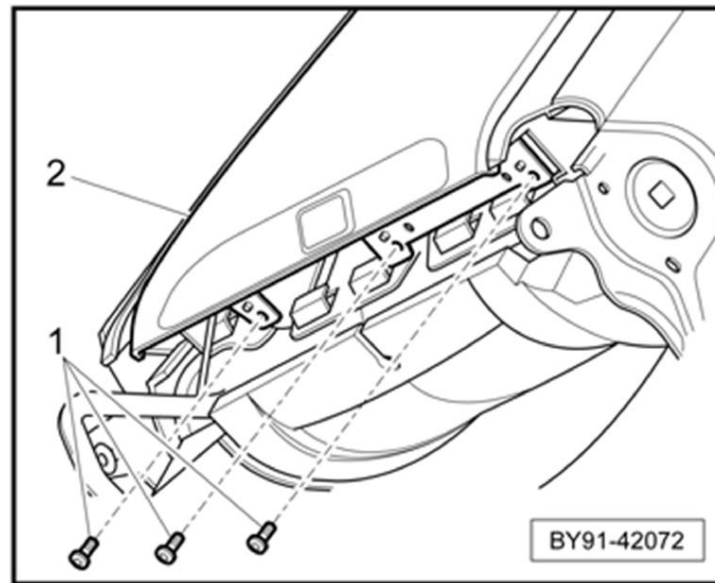


Figure 11 DVD Loader Unit Installation - mounting to seat