

**Universal Audio Interface (I-no. UF1)**

Concerns: **Retrofitting**

Model Year: **As of 2009**

Restriction: **Only** for vehicles with PCM3.0.

Note: Following installation, there are three connections available in the centre console storage bin to which an iPod®, a USB stick or any audio source can be connected via AUX interface (standard connection socket for 3.5-mm jack plugs). The iPod® or USB stick is operated via PCM. The iPod® and USB stick can also be operated using voice control and/or the multi-function steering wheel. The USB connection can also be used for downloading the electronic logbook data.  
For more information on operation and the various functions available, refer to the “PCM” operating instructions.

After ordering, i.e. entering the part number and Vehicle Identification Number (VIN) in SAP, the enabling code should be displayed within one day once the VIN is entered in the Vehicle code information column in the PIWIS information system.

For the connection of your new generation iPod/iPhone 3G, Apple has modified the assignment of the Dock Connector. Due to the modification by Apple of the Dock Connector for the new generation iPod/iPhone as of the middle of 2008, the previous charging function of the standard audio interface via the Dock Connector is no longer available for the new devices. In this case, a charging function for new Apple devices is available via the USB/Dock Connector cable included with the devices.  
(An additional Dock Connector charging adapter should be available on the market as of the end of 2008.)



Parts Info: **955.044.902.26**

⇒ Universal audio interface, set

Parts List:

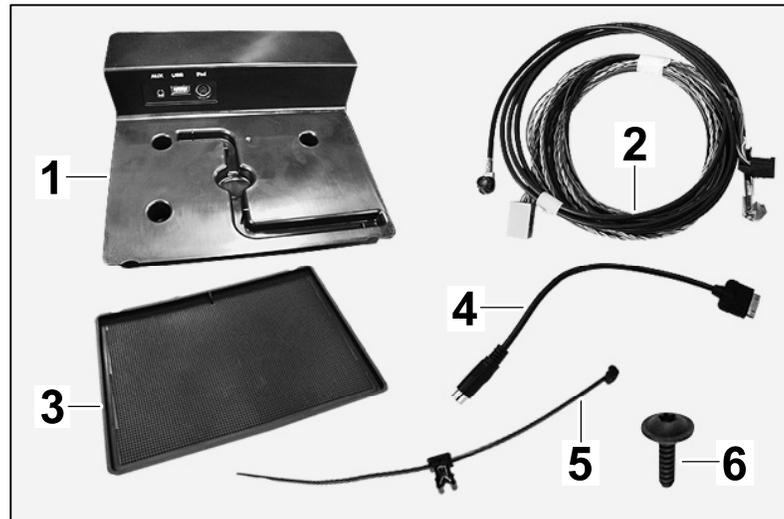
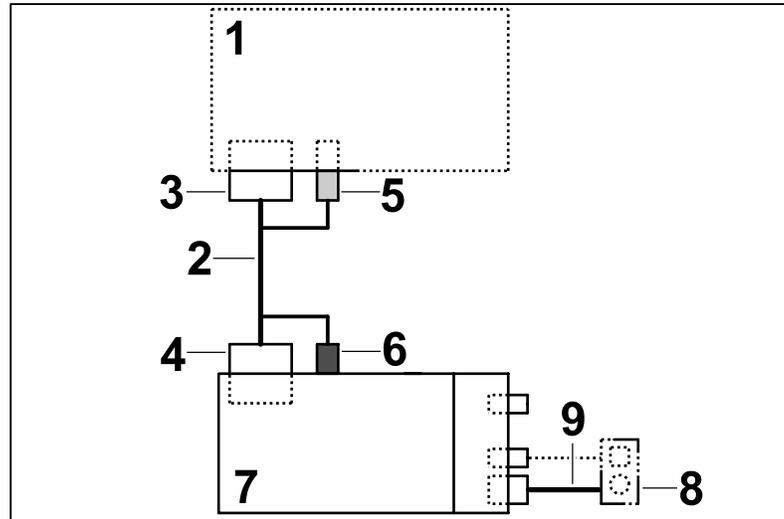


Figure 1

955.642.351.10	1 x	Console ⇒ Figure 1 -1-
997.044.902.43	1 x	Wire harness ⇒ Figure 1 -2-
955.553.329.00	1 x	Rubber insert ⇒ Figure 1 -3-
997.612.471.01	1 x	Connecting cable for iPod® ⇒ Figure 1 -4-
955.612.931.00	2 x	Cable clamp ⇒ Figure 1 -5-
N 906 986 01	3 x	Screw, T4.2 x 16 ⇒ Figure 1 -6-
N 020 904 4	10 x	Tie-wrap (not shown)

Tools: PIWIS Tester 9718

Block diagram:



Block Diagram

- 1 – PCM3.0
- 2 – Wire harness
- 3 – Connector module D (coding: green)
- 4 – 10-pin connector
- 5 – 4-pin USB connector on PCM3.0
- 6 – 4-pin USB connector on iPod® console
- 7 – Console
- 8 – iPod®
- 9 – Connecting cable

Work Procedure: 1 Preparatory work

- 1.1 Connect a battery charger. ⇒ *Workshop Manual '2X00IN01 Battery trickle charging'*
  - 1.2 Remove PCM3.0. ⇒ *Workshop Manual '911019 Removing and installing PCM 3.0 display and operator control unit'*
  - 1.3 Remove center console cover. ⇒ *Workshop Manual '681919 Removing and installing cover for centre console'*
  - 1.4 Remove front air-conditioning system regulator. ⇒ *Workshop Manual '870219 Removing and installing front air-conditioning system regulator'*
  - 1.5 Remove front ashtray. ⇒ *Workshop Manual '682019 Removing and installing front ashtray'*
- 2 Cut the section where the cable is routed through the center console.
- 2.1 Remove rubber insert and tool for manual sunroof locking mechanism from the storage bin.

- 2.2 Cut the cut-out (along the perforation) ⇒ *Figure 2-1-* in the storage bin ⇒ *Figure 2-2-* using a suitable tool. Remove the cut-out and smooth off the edges of the storage bin.
- 3 Install wire harness.

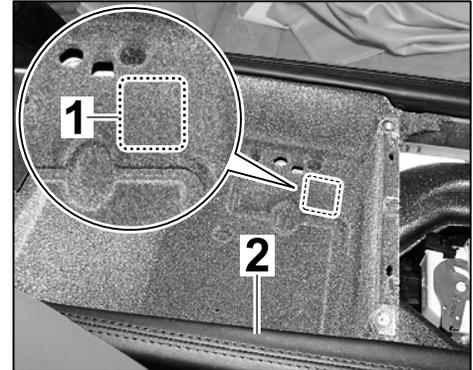


Figure 2

**Information**

The illustration shows the routing of the auxiliary line on a vehicle with an air-conditioning line with mechanical control (I-no. 9AB) or Climatonic (I-no. 9AD). There is no air duct ⇒ *Figure 3-2-* on vehicles with 4-zone air conditioning. The auxiliary line is routed in the same way as the air-conditioning line with mechanical control or Climatonic.

- 3.1 Route the auxiliary line ⇒ *Figure 3-1-* (e.g. Tekalan line) in direction of arrow ⇒ *Figure 3-arrow-* at the right past the selector lever support towards the front.
- 3.2 Secure wire harness to the auxiliary line.

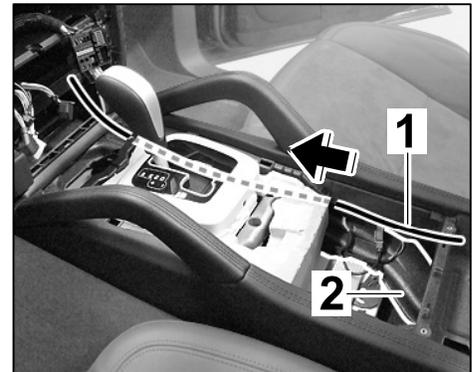


Figure 3

- 3.3 Use the auxiliary line ⇒ *Figure 4 -1-* to route the wire harness ⇒ *Figure 4 -2-* in direction of arrow through the center console.
- 3.4 Disconnect auxiliary line from wire harness.



Figure 4

- 3.5 Route wire harness ⇒ *Figure 5 -1-* under the transverse bar ⇒ *Figure 5 -2-* to the PCM3.0 installation slot.

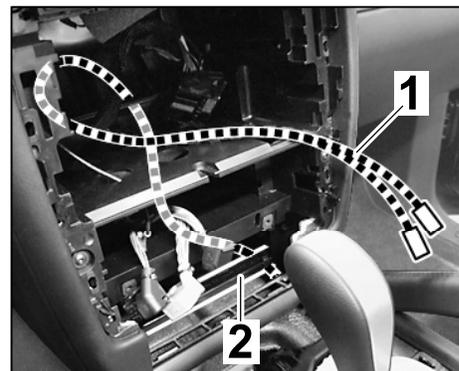


Figure 5

Insert connector module D (coding: green) ⇒ *Figure 6 -1-* into the PCM3.0 central connector ⇒ *Figure 6 -2-*.

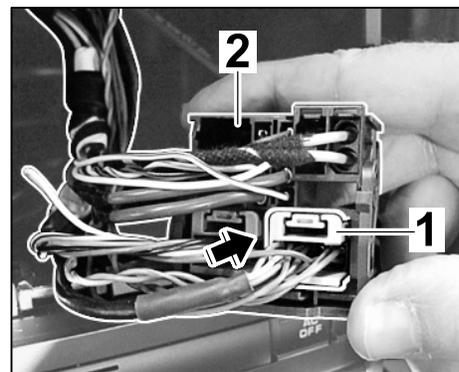


Figure 6

Secure wire harness ⇒ *Figure 7-1-* to the transverse bar with a tie-wrap ⇒ *Figure 7-2-*.

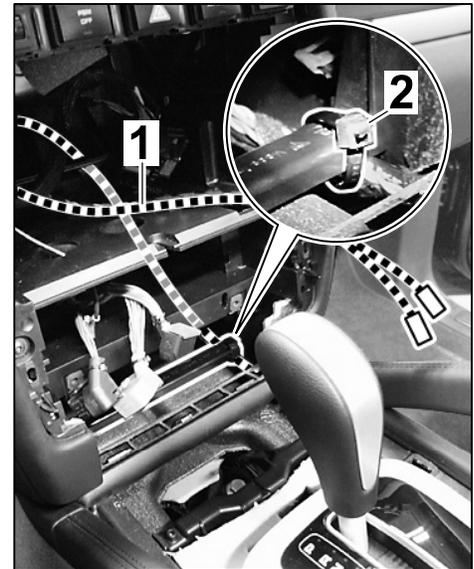


Figure 7

Guide wire harness ⇒ *Figure 8-1-* through the cut-out ⇒ *Figure 8-arrow-* in the storage bin and secure with the cable clamp ⇒ *Figure 8-2-*.

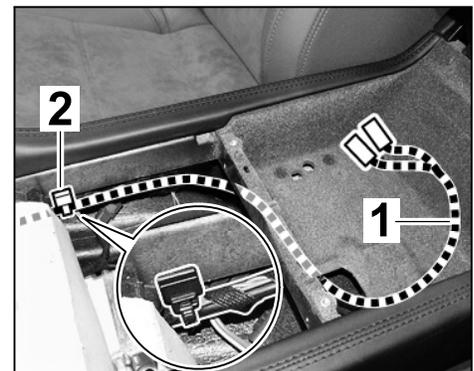


Figure 8

- 3.6 Connect 4-pin USB connector ⇒ *Figure 9-1-* and 10-pin connector ⇒ *Figure 9-2-* to the console.

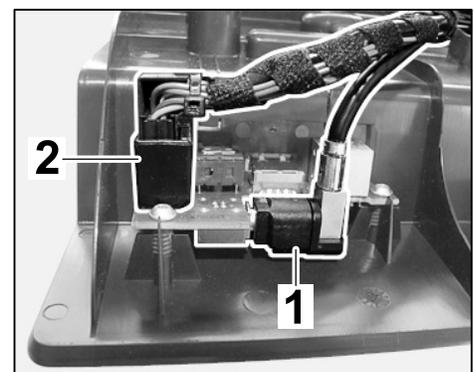


Figure 9

- 3.7 Fit console ⇒ *Figure 10-A*- and secure with three screws (4.2 x 16) ⇒ *Figure 10-B*-.

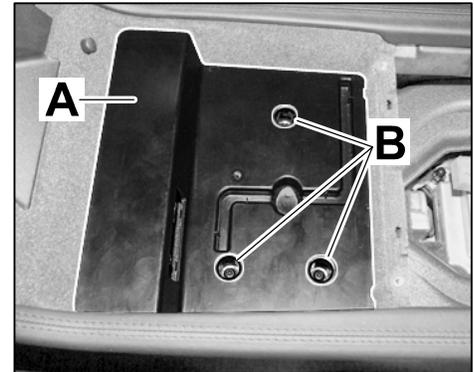


Figure 10

- 3.8 Lay the remaining wire harness ⇒ *Figure 11-1* under the center console storage bin.
- 3.9 Place tool for manual sunroof locking mechanism in the console.

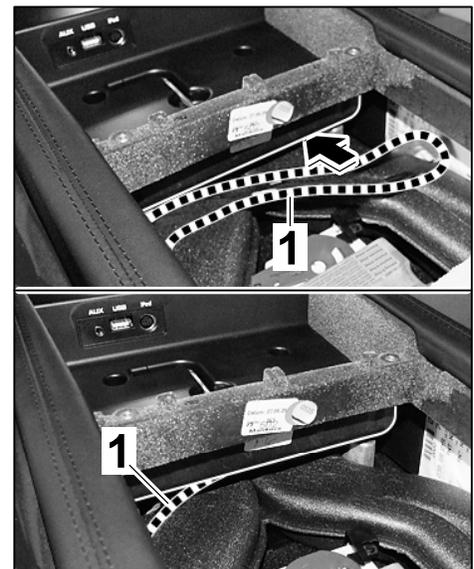


Figure 11

- 3.10 Place rubber insert ⇒ *Figure 12 -1-* in center console storage bin.
- 4 Concluding work
- 4.1 Install front ashtray. ⇒ *Workshop Manual '682019 Removing and installing front ashtray'*
- 4.2 Install front air-conditioning system regulator. ⇒ *Workshop Manual '870219 Removing and installing front air-conditioning system regulator'*
- 4.3 Install center console cover. ⇒ *Workshop Manual '681919 Removing and installing cover for centre console'*
- 4.4 Install PCM3.0. ⇒ *Workshop Manual '911019 Removing and installing PCM 3.0 display and operator control unit'*

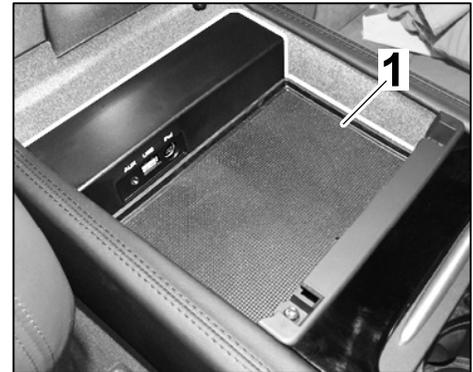


Figure 12

**NOTICE****Voltage drop**

- **Risk of irreparable damage to control unit**
  - **Risk of damage to control unit**
  - **Fault entries in the control unit**
  - **Coding in the control unit is aborted**
  - **Malfunctions in control unit, even during programming**
- ⇒ **Switch off the ignition and remove the ignition key before disconnecting the control unit.**
- ⇒ **Ensure that the power supply is not interrupted during programming.**
- ⇒ **Connect a battery charger with a current rating of at least Nominal value 40 A to the vehicle battery.**

**Information**

The PIWIS Tester 9718 instructions take precedence and in the event of a discrepancy these are the instructions that must be followed. Deviations may occur with later software versions.

The procedure described here has been structured in general terms; different text or additions may appear in the PIWIS Tester 9718.

- 4.5 Enable Universal audio interface.
- 4.5.1 PIWIS Tester 9718 must be connected and ignition switched on.

- 4.5.2 Select vehicle type and run control unit search.
- 4.5.3 Select **PCM3** control unit. Press **(F12)** to continue.
- 4.5.4 Select **PCM3** in the PCM3 function selection. Press **(F12)** to continue.
- 4.5.5 Select **Coding** in the PCM3 function selection. Press **(F12)** to continue.
- 4.5.6 Select **Enabling code** under PCM3 Coding. Press **(F12)** to continue.
- 4.5.7 Select **Enabling code for USB connection installed/not enabled/not functional** in the PCM3 Enabling code menu. Press **(F12)** to continue.
- 4.5.8 Enter the enabling code. Press **(F8)** to start coding. Wait until the message "Coding has been changed" appears. PIWIS Tester 9718 then displays the enabling code for the USB connection as **installed/enabled/functional**.
- 4.5.9 Press **(F11)** to exit the PCM3 menu. The system is initialised.
- 4.5.10 Once coding is complete, read out the fault memories of all systems, correct any existing faults and erase the fault memories.
- 4.5.11 Switch off ignition and disconnect the PIWIS Tester 9718.
- 4.6 Activate the Universal audio interface in PCM3.0.
  - 4.6.1 Switch on PCM 3.0.
  - 4.6.2 Press **SOURCE** key.
  - 4.6.3 **Touch AUX** on the touchscreen.
  - 4.6.4 Press **OPTION** key.
  - 4.6.5 Touch **SET DISC/AUX** on the touchscreen.
  - 4.6.6 **Activate iPod/USB/AUX** by touching the touchscreen ⇒ *Figure 13*.
  - 4.6.7 Press **SOURCE** key.
  - 4.6.8 Switch off PCM3.0.
- 4.7 Disconnect the battery charger. ⇒ *Workshop Manual '2X00IN01 Battery trickle charging'*



Figure 13

Working Time: 91222340: Universal audio interface installed

Labor time: **120 TU**

Includes: Removing and installing PCM3.0, air-conditioning system regulator and center console cover, installing console and wire harness

Without: Performing function test

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