

audison

APSP G7

INSTALLATION MANUAL

rev. 1



ideato,
progettato,
costruito
in Italia

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Introduction

Congratulations for purchasing an Audison product. Your satisfaction is the first requirement that our products must meet: the same satisfaction felt by those who long for experiencing the car audio emotion. This manual was drawn up to provide the main instructions required to install and use the system properly.

Before the installation, carefully read all the instructions in this manual and in the manuals included in the packaging of the individual components. Failure to comply with these instructions may cause unintentional harm or damage to the system components or to the vehicle.

Warranty

For the warranty conditions please visit our website www.audison.eu or contact your Audison specialized centre.

Safe sound

USE COMMON SENSE AND PRACTICE SAFE SOUND. PLEASE REMEMBER THAT LONG EXPOSURE TO EXCESSIVELY HIGH SOUND PRESSURE LEVELS MAY DAMAGE YOUR HEARING. SAFETY MUST BE AT THE FOREFRONT WHILE DRIVING.

1. PRODUCT DESCRIPTION

The APSP G7 was specifically designed for VW Golf 7(*) and comprises:

1. An AP8.9 bit G7 amplifier equipped with bit Drive technology, featuring 7 integrated presets dedicated to the VW Golf 7(*) designed by the Audison R&D team for "Plug&Sound" performance. The 7 DSP "Drive presets" preloaded in the AP8.9 bit G7 memory enable the use of the product without PC connection. The user can select the preset according to his preferences. The AP8.9 bit G7 is equipped with DCC - Direct Cockpit Current technology and is powered directly by the OEM source rear connector.
2. A passive reflex sub-box (optional) APBX G7 including the compact speaker APS 250. The box is specifically designed to be placed in the spare wheel compartment, taking up very limited space and is fixed to the car without drilling the chassis. The mounting kit and installation manual are included in the packaging.
3. A pair of AP 6.5 Ω2 SP woofers for the front section, adaptors for the speakers OEM set up, connectors and gaskets for a perfect integration.
4. A complete set of specific cables for the car and the kit, designed according to the Plug&Sound philosophy to be connected to the original connectors supplied with the car, without needing to change the original wiring.
5. A specific APSP G7 Harness drawing power for the AP8.9 bit G7 directly from the OEM source rear connector.

The kit is designed to be installed on a VW Golf 7(*) in less than 2 hours; this time can vary according to the conditions and equipment of the vehicle.

WARNING: before starting the installation make sure the kit APSP G7 is compatible with your VW Golf version.



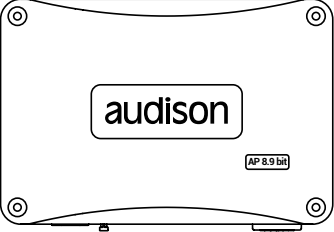








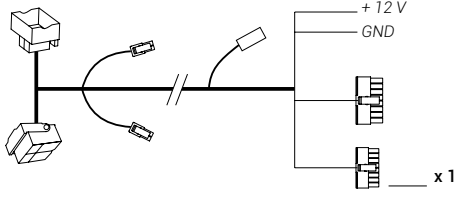
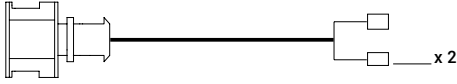



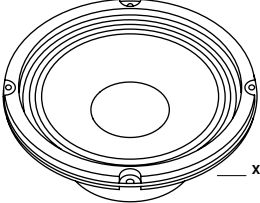
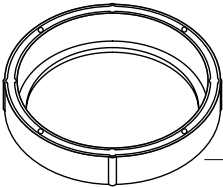
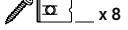
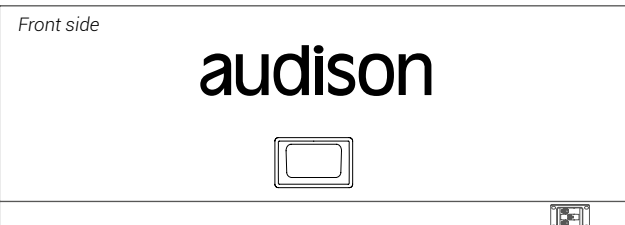

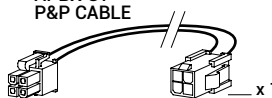
All the information contained in this manual refer to the left-hand drive 5-door version

- Remark:**
- All the kit components have been designed to be secured to the original fixing points of the vehicle.
 - The removal of the car upholstery may cause damage to the metal clips, making it necessary to replace them
 - Pay special care while removing and inserting the speakers' fixing rivets.
 - Make sure all the gaskets supplied with the speakers are correctly positioned and working perfectly.
 - Connectors are fragile components and must be handled with care.
 - After installation and before restarting the system, make sure the equalization of the vehicle's radio is flat.
 - Install the kit components by following the instructions provided to ensure they do not prevent airbags or other safety devices of the vehicle from working correctly.
 - Use suitable quality equipment to simplify, speed up and achieve optimal installation

These installation instructions are updated to revision 01. Additional documents can be downloaded from the website www.audison.eu. Should a malfunction occur during the kit installation, check the **"TROUBLESHOOTING"** section at the end of this manual. If you have consulted the aforesaid section and are still unable to solve the problem, please visit the www.audison.eu website or contact your Audison authorized specialized centre or the official assistance via email: support@elettrimedia.it.

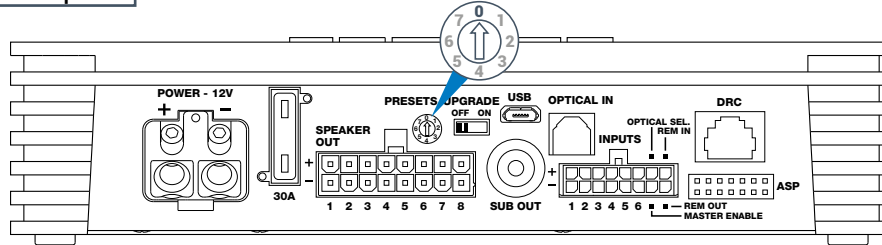
*Golf is a registered Volkswagen trademark.

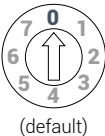
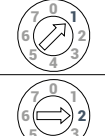
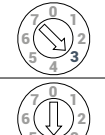


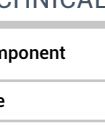
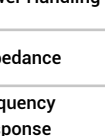
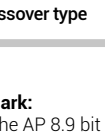
2. PACKAGING CONTENTS

<p>AP 8.9 bit G7</p>  <p style="text-align: right;">x 1</p> <p>USB CABLE 1,8 m / 70.87 in.</p>  <p style="text-align: right;">x 1</p> <p>ASP</p>  <p style="text-align: right;">x 1</p> <p>VELCRO TAPE 175 mm x 40 mm 6.89 in. x 1.57 in.</p>  <p style="text-align: right;">x 1</p> <p>SCREWS 4,2 mm x 50 mm 0.17 in. x 1.97 in.</p>  <p style="text-align: right;">x 4</p> <p>FUSE 30A</p>  <p style="text-align: right;">x 1</p> <p>SETUP CD</p>  <p style="text-align: right;">x 1</p> <p>QSG</p>  <p style="text-align: right;">x 1</p> <p>HEX KEY 2,5 mm / 0.1 in.</p>  <p style="text-align: right;">x 1</p>	<p>APSP G7 HARNESS 2600 mm (102.36 in.)</p>  <p style="text-align: right;">x 1</p> <p>APSP G7 SPEAKER CABLE 300 mm (11.81 in.)</p>  <p style="text-align: right;">x 2</p> <p>WARRANTY</p>  <p style="text-align: right;">x 1</p> <p>AUDISON BADGE</p>  <p style="text-align: right;">x 2</p> <p>QSG APSP G7</p>  <p style="text-align: right;">x 1</p>
<p>AP 6.5 Ω2 SP</p>  <p style="text-align: right;">x 2</p> <p>AP 6.5 G7 RING</p>  <p style="text-align: right;">x 2</p> <p>AP 6.5 G7 MOUNTING KIT</p>  <p style="text-align: right;">x 8</p>	
<p>APBX G7 (optional)</p> <p>Front side</p>  <p style="text-align: right;">x 1</p>	<p>APBX G7 MOUNTING KIT</p>  <p style="text-align: right;">x 1</p> <p>APBX G7 P&P CABLE</p>  <p style="text-align: right;">x 1</p> <p>VELCRO TAPE 25 mm x 310 mm (0.98 in. x 12.2 in.)</p>

3. TECHNICAL SPECIFICATION

3.1 Presets description



PRESET	LISTENING POSITION	YOUR SOUND	DESCRIPTION
 (default)	Overall Left-hand drive	Acoustic	Detailed mid-high frequencies with perfectly balanced bass. Time alignments have been calibrated to ensure the best listening sensation for everybody in the car (left-hand drive cars). WARNING: preset "0" contains the input/output configuration dedicated to this loudspeakers system. The "factory default" function, when selected, causes the loss of the pre-loaded setup in preset "0". For this reason restoring the correct input/output configuration via AP Prima PC software will be necessary*. It is recommended to backup the presets in your PC. Failure to comply with these recommendations can cause irreparable damage to the AP8.9 bit G7 as well as products connected to it. DO NOT CHANGE PRESET WHEN THE PRODUCT IS ON.
	Left-hand drive	Acoustic	Detailed mid-high frequencies with perfectly balanced bass. Time alignments have been calibrated to ensure the best listening sensation for the driver (left-hand drive cars).
	Left-hand drive	Live	Mid-high frequencies more detailed compared to the "Acoustic" preset. Time alignments have been calibrated to ensure the best listening sensation for the driver (left-hand drive cars).
	Left-hand drive	Rhythm	Punchier low frequencies compared to the "Acoustic" and "Live" presets. Time alignments have been calibrated to ensure the best listening sensation for the driver (left-hand drive cars).
	Right-hand drive	Acoustic	Detailed mid-high frequencies with perfectly balanced bass. Time alignments have been calibrated to ensure the best listening sensation for the driver (right-hand drive cars).
	Right-hand drive	Live	Mid-high frequencies more detailed compared to the "Acoustic" preset. Time alignments have been calibrated to ensure the best listening sensation for the driver (right-hand drive cars).
	Right-hand drive	Rhythm	Punchier low frequencies compared to the "Acoustic" and "Live" presets. Time alignments have been calibrated to ensure the best listening sensation for the driver (right-hand drive cars).
	Overall Right-hand drive	Acoustic	Detailed mid-high frequencies with perfectly balanced bass. Time alignments have been calibrated to ensure the best listening sensation for everybody in the car (right-hand drive cars).

TECHNICAL SPECIFICATIONS

Component	AP 6.5 Ω2 SP Front Woofer	APBX G7 (optional) SUBWOOFER
Size	mm (in.)	
	Woofer 165 (6.5)	250 (10)
Power Handling	W (peak)	900
	W (continuos)	300
Impedance	Ω	4
Frequency Response	Hz	60 ÷ 5k
Crossover type	Digital	Digital

AP8.9 bit OUTPUT CHANNEL MAP

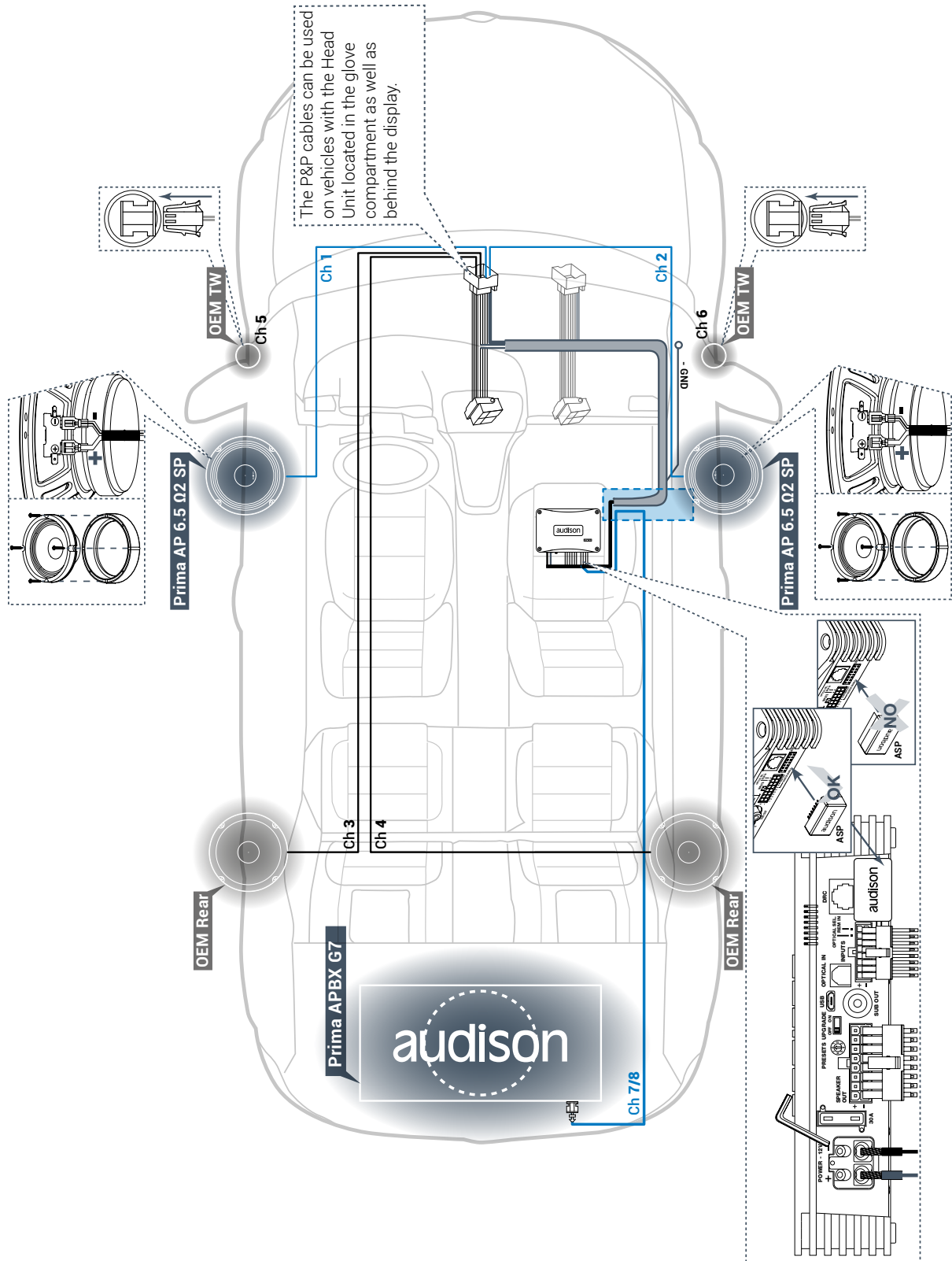
Channel	Mode	Speaker	Power
1-2	Stereo	AP 6.5 Ω2 SP	2 x 65W RMS @ 2Ω
3-4	Stereo	OEM Rear Speakers	2 x 35W RMS @ 4Ω
5-6	Stereo	OEM Front Tweeter	2 x 35W RMS @ 4Ω
7-8	Bridge	APBX G7 - Subwoofer	1 x 130W RMS @ 4Ω

Remark:

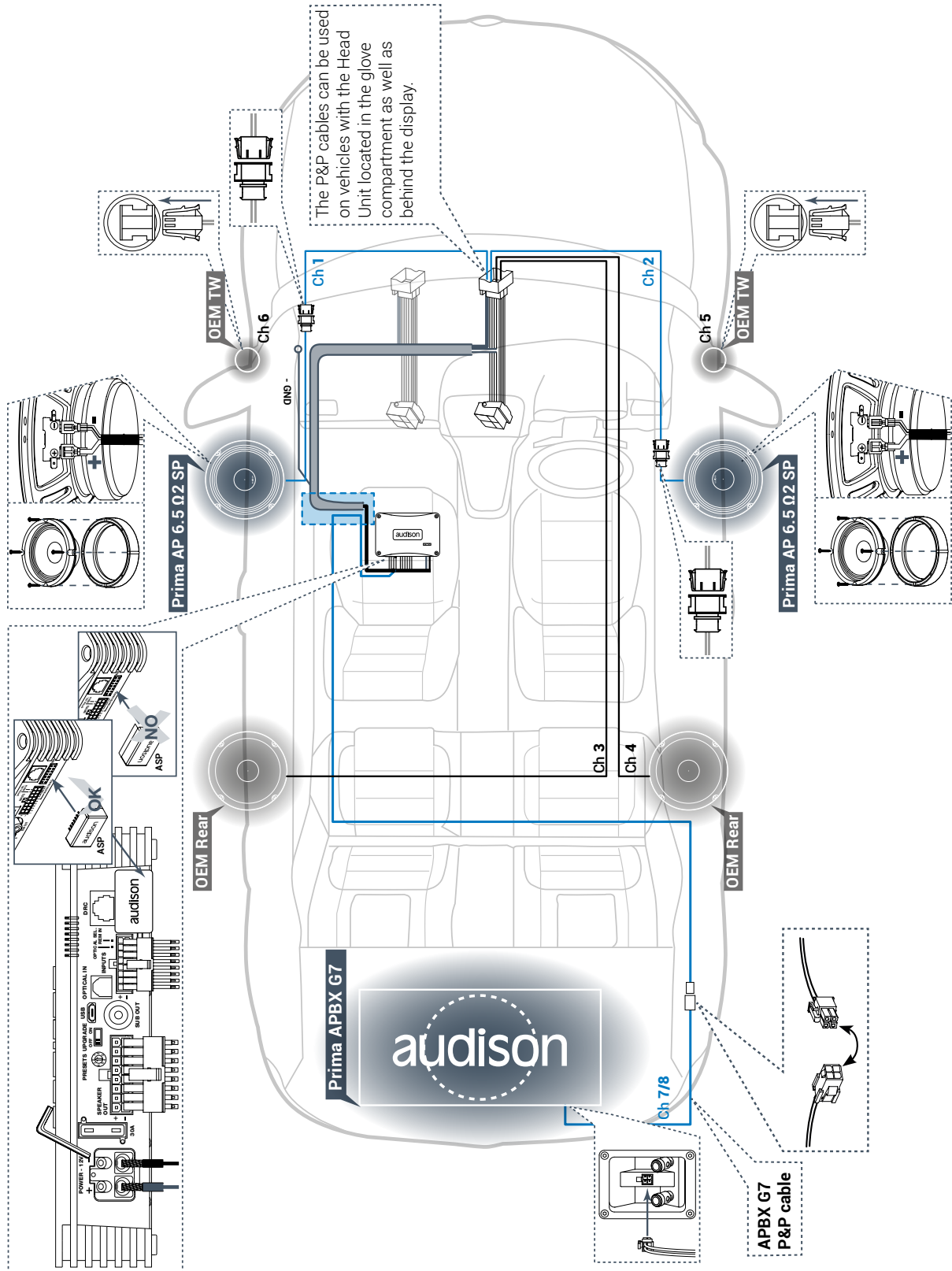
- the AP 8.9 bit G7 is provided with the selector set to preset "0" (Overall - Acoustic).

* Please refer to the users's manual of the AP8.9 bit for detailed information about the product, its installation and for the use of the "AP Prima PC Software". All information is available on the website www.audison.eu.

4. CONNECTIONS LAYOUT FOR LEFT-HAND DRIVE VEHICLES



5. CONNECTIONS LAYOUT FOR RIGHT-HAND DRIVE VEHICLES



6. REMOVAL OF OEM HEAD UNIT FROM THE GLOVE COMPARTMENT

WARNING: the information below refers to the left-hand drive 5-door version. Remove the key from the car's ignition and pull the lever to release the bonnet. Close the doors and wait for 5 minutes, then open the bonnet and disconnect the negative pole from the vehicle's battery.

6.1 Removal of the OEM Head unit from the glove compartment

6.1.1 Remove the Head Unit using the dedicated release keys (not included in the kit, to be purchased separately) to remove it (fig.1).



Fig. 1

6.1.2 Remove the Head Unit by disconnecting all the connectors at the back (fig.2).



Fig. 2

7. DISASSEMBLY OF THE GLOVE COMPARTMENT

7.1 Removing the fastening screws

7.1.1 Remove the screws as indicated below (Fig.3a 3b).



Fig. 3a



Fig. 3b

7.1.2 Remove the dashboard right side cover with the help of a plastic (fig. 4a).

7.1.3 Disconnect the passenger Airbag connector (fig. 4b).



Fig. 4a



Fig. 4b

7.1.4 Remove the screw indicated below (Fig. 5).



Fig. 5

7.1.5 Remove the cover of the climate control by pulling it towards you (Fig. 6).



Fig. 6

7.1.6 Remove the screw indicated below (Fig. 7).



Fig. 7

7.1.7 Remove the screws from the right and left panels as indicated in [figure 8 and 9](#).



Fig. 8



Fig. 9

7.1.8 Remove the panels by pulling them downwards.

7.1.9 Remove the highlighted cover by using a plastic lever ([fig.10 and 11](#)).



Fig. 10



Fig. 11

7.1.10 The glove compartment can now be removed, by pulling it towards you ([fig.12](#)).



Fig. 12

8. REMOVAL OF DOOR SILL AND REAR SEATS

8.1 Removal of the rear seats

8.1.1 Follow the steps shown below (fig.13).

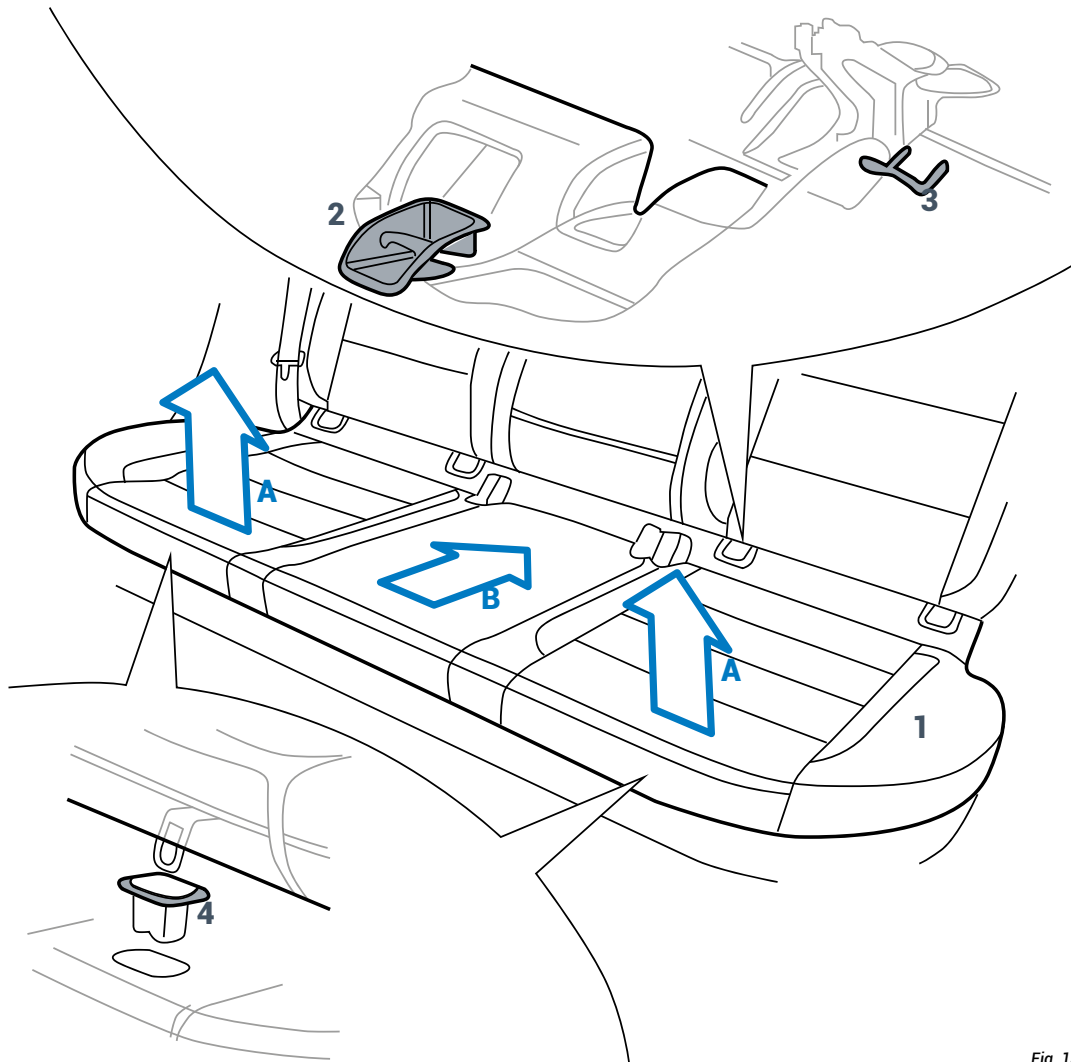


Fig. 13

8.2 Complete removal of the right door sill

8.2.1 Remove the door sill by using a plastic lever (fig.14).

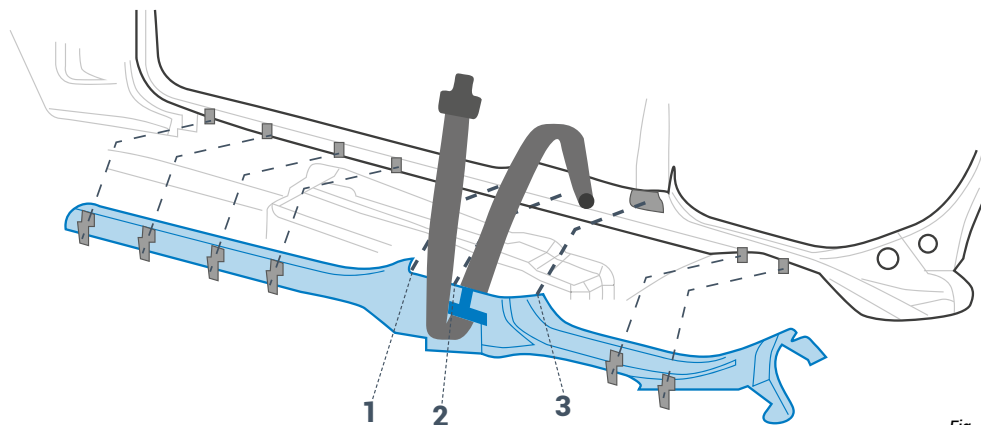


Fig. 14

8.3 Removal of the lower A-pillar cover

8.3.1 Lift the cover with a lever and pull it out (fig.15).



Fig. 15

8.3.2 Lift the cover with a lever and pull it out (fig.16).

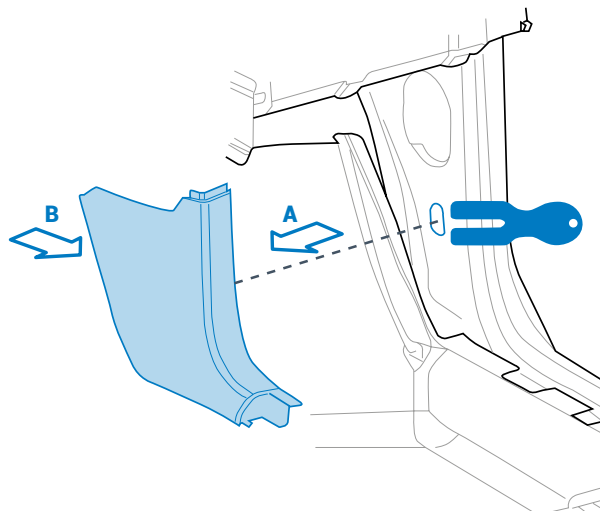


Fig. 16

8.4 Removal of the glovebox on driver's side (fig.17).

8.4.1 Remove the glovebox by releasing the lower side and pulling towards you (fig.17).



Fig. 17

8.5 Removal of the dashboard left side cover

8.5.1 Remove the dashboard left side cover with the help of a plastic lever (*fig.18*).



Fig. 18

8.6 Removal of the left side lower A-pillar cover (*fig.19*).



Fig. 19

9. DISASSEMBLY OF FRONT A-PILLARS

9.1 Removal of front left and right A-Pillars

9.1.1 Remove the two A-Pillars with the help of a plastic lever (Fig. 20).



Fig. 20

WARNING: do not cause damage to the airbag and fixing clips.

10. DISASSEMBLY OF FRONT DOOR TRIM PANEL

WARNING: the procedure below is valid for the right side of the vehicle. For the left side proceed likewise.



10.1 Removal of the door trim panel

10.1.1 Remove the door handle cover using a plastic lever (fig.21), then loosen screws 1, 2 and rotate screw 3 by 90 degrees (Fig. 22).



Fig. 21



Fig. 22

10.1.2 Release all the clips of the door trim panel by using a plastic lever (Fig. 23).

10.1.3 Lift the door trim panel by firmly pulling upwards to release it (Fig. 24).



Fig. 23



Fig. 24

10.1.4 Release the door opening control cable (*Fig.25*).



Fig. 25

10.1.5 Disconnect all cables from the door door trim panel.

11. APSP G7 HARNESS CABLES ROUTING

11.1 Instructions for cables routing from the Head Unit to the right side of the dashboard

11.1.1 Direct sections **B, C, D, E** and **F** of the APSP G7 HARNESS cable (Fig. 26) from the car radio housing to the right door sill (fig.27).

APSP G7 HARNESS

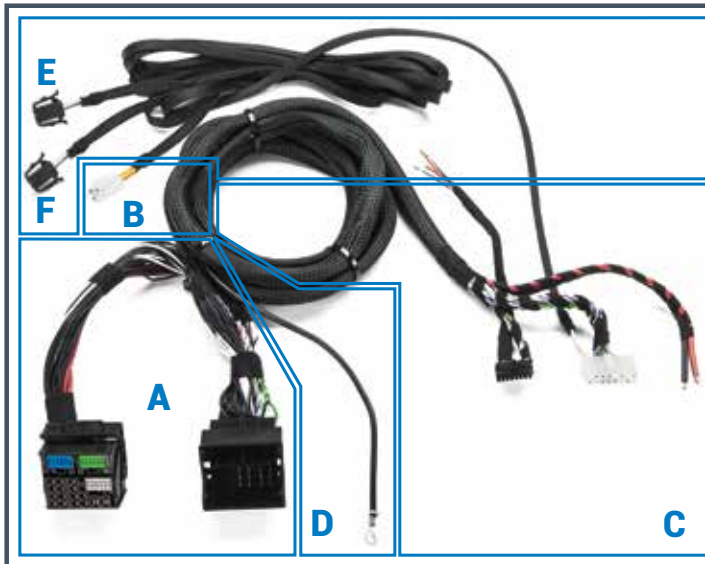


Fig. 26

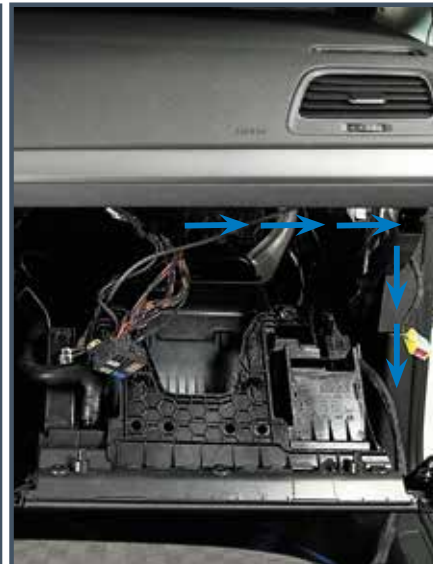


Fig. 27

Remark: the length of the APSP G7 HARNESS wiring enables the installation of the APSP G7 kit on vehicles with the Head Unit located behind the display as well as in the glove compartment (in this case gather the exceeding cable beside the glove compartment).

11.1.2 Slide the cable towards the door sill and connect earth cable **D** into bolt **G** (fig. 28 and 29).



Fig. 28

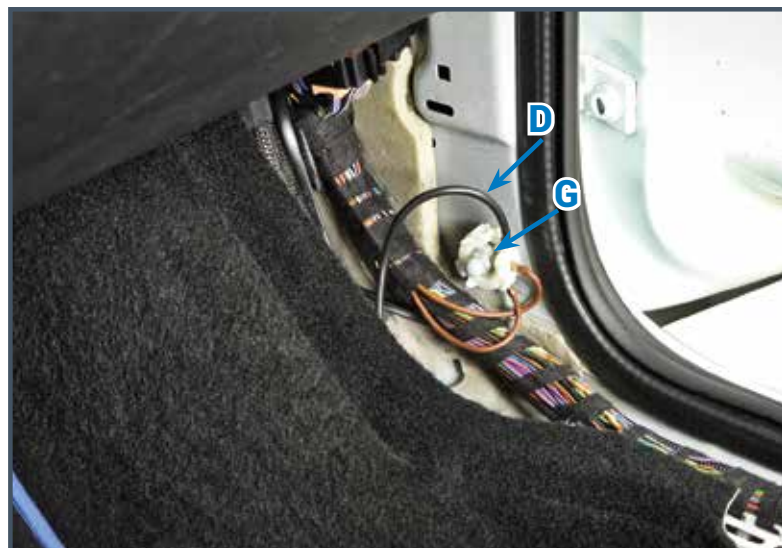


Fig. 29

11.1.3 Lift the carpet from the floor as indicated by **H** (fig. 30) and insert cables **C** (fig. 26) under the cover along the slits available in the carpet. Make sure that both the connectors and power supply cables come out from the slits located underneath the right front seat.



Fig. 30

11.1.4 Route the SUBWOOFER power cable **B** (fig.26) along the door sill, run it along the back seat and continue till the trunk (fig.31).

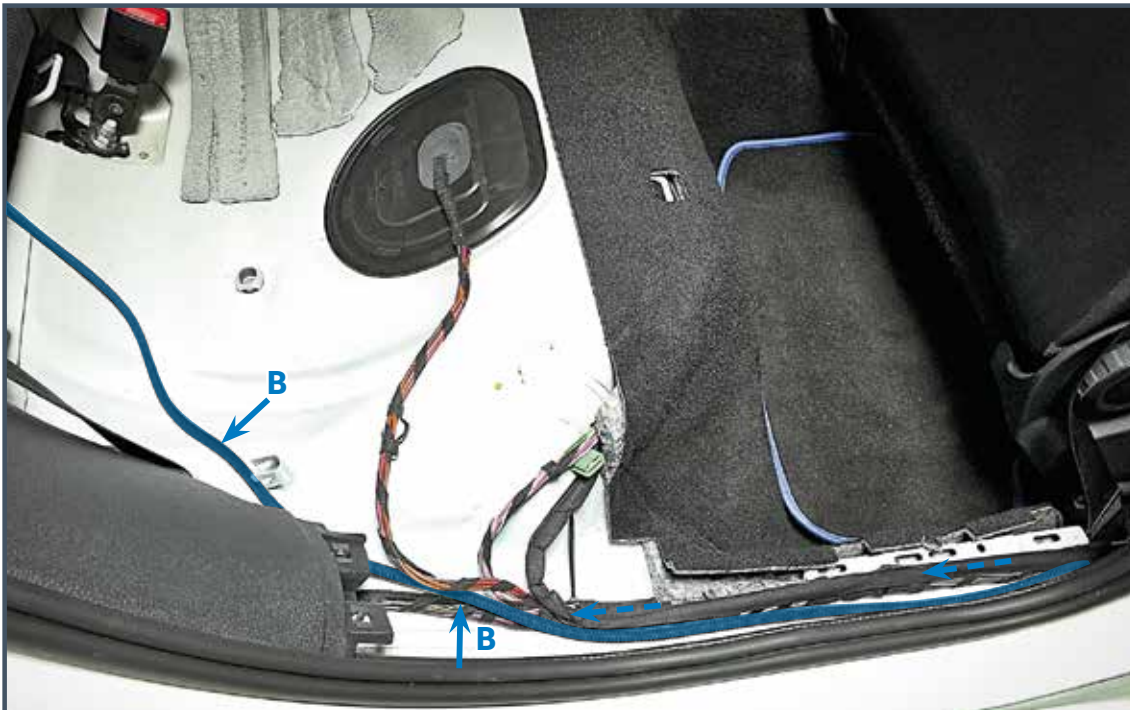


Fig. 31

12. CABLES ROUTING FOR OEM TWEETERS

12.1 Cables routing for the right OEM Tweeter

12.1.1 Run cable **F** (labelled "TW RIGHT") (fig.26) in the right side of the dashboard as shown below (fig.32-33).

WARNING: for right-hand side vehicles, run cable **E** (labelled "TW LEFT") (fig.26) in the left side of the dashboard (fig.32-33).

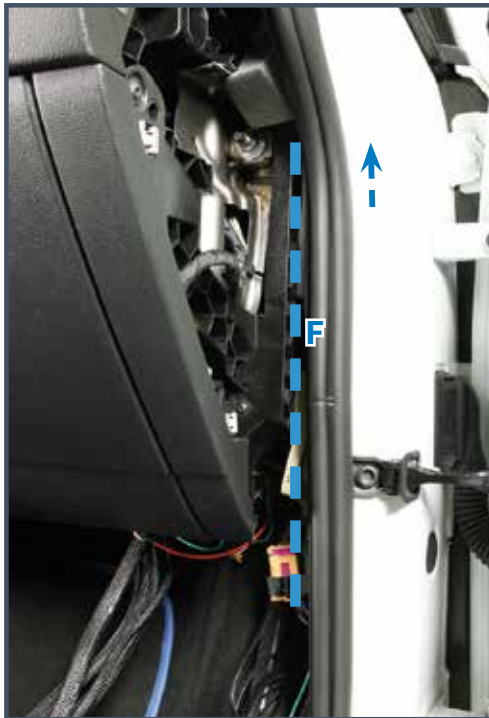


Fig. 32



Fig. 33

12.2 Cables routing for the right OEM Tweeter

12.2.1 Run cable **E** (labelled "TW LEFT") (fig.26) in the lower side of the dashboard and secure it with cable ties (fig.34).

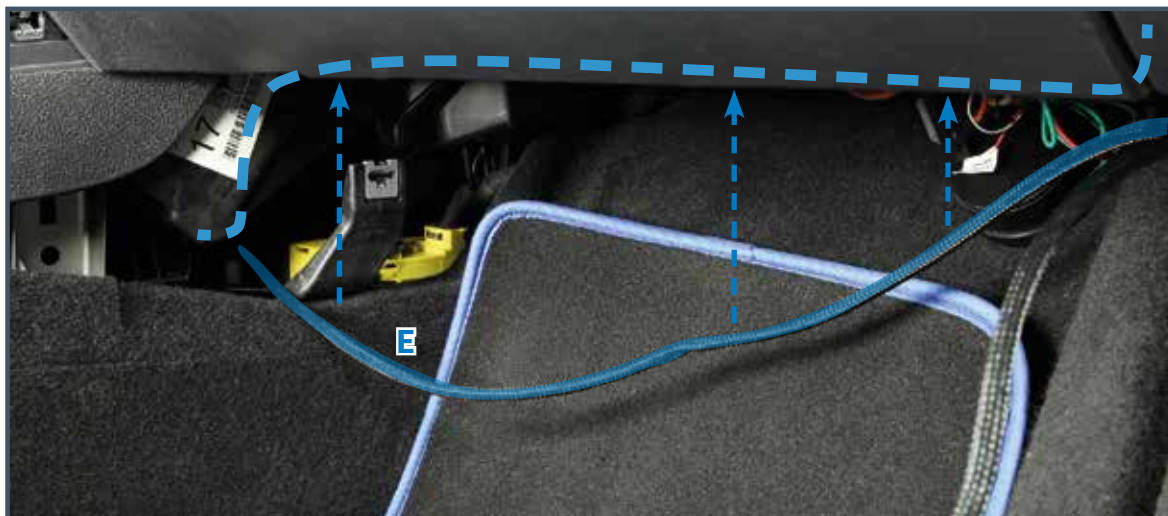


Fig. 34

WARNING: for right-hand side vehicles, run cable **F** (labelled "TW RIGHT") (fig.26) in the lower side of the dashboard and secure it with cable ties (fig.34).



12.2.2 Run the cable through the central tunnel (Fig. 35).



Fig. 35

12.2.3 Run the cable underneath the dashboard and secure it with cable ties (Fig. 36).



Fig. 36

12.2.4 Run the cable up the dashboard till the base of the A-Pillar (Fig. 37).



Fig. 37

13. INSTALLATION OF THE APBX G7 SUBWOOFER

13.1 Securing the MOUNTING KIT to the APBX G7

13.1.1 Secure the APBX G7 MOUNTING KIT as shown below (Fig. 38).



Fig. 38

13.1.2 Position the APBX G7 as shown below (Fig. 39).



Fig. 39

WARNING: Remove the highlighted cover on the anchor bolt of the spare wheel applying pressure on "A" (fig.40-41).



Fig. 40



Fig. 41

14. INSTALLATION OF THE AP 6.5 Ω2 SP WOOFERS

14.1 Removal of the OEM Woofers

14.1.1 Disconnect the connector from the OEM Woofer (fig. 42).

14.1.2 Remove the 4 rivets securing the Woofer (fig. 43).



Fig. 42



Fig. 43

14.1.3 Place the APSP G7 SPEAKER RING in the allocated slots making sure the APSP G7 SPEAKER CABLE wiring is set down as shown below (fig.44) and fasten it using the AP6.5 Ω2 SP MOUNTING KIT (fig.45).

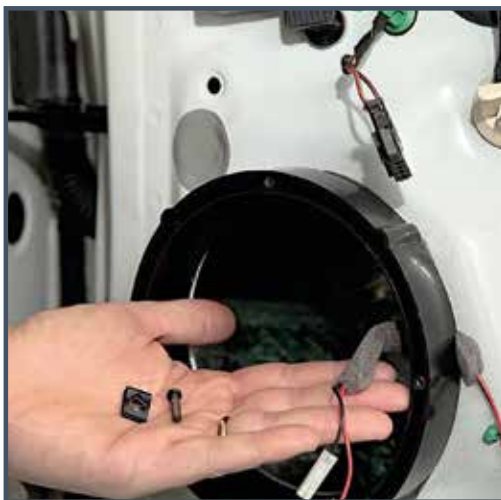


Fig. 44



Fig. 45

14.2 Connecting the APSP G7 SPEAKER CABLE to the AP6.5 Ω2 SP Woofer

14.2.1 Connect the terminals according to the correct polarity (Fig. 46).

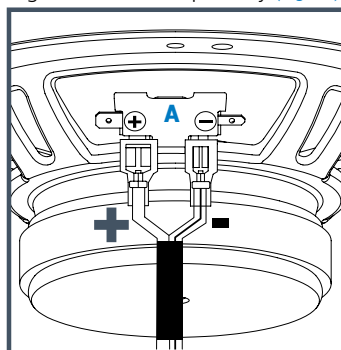


Fig. 46

14.3 Mounting the Woofer in its housing

14.3.1 Secure the speaker using the fastening screws provided with the KIT (Fig. 47).

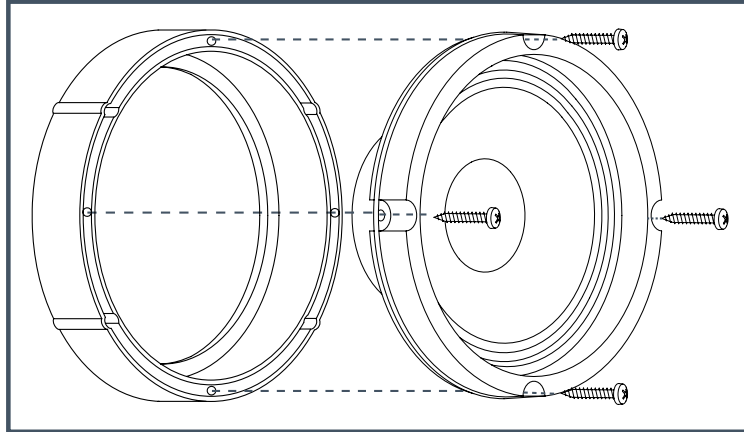


Fig. 47

14.3.2 Connect the APSP G7 SPEAKER CABLE to the vehicle's default connector (Fig. 48).



Fig. 48

14.3.3 Final result (Fig. 49).



Fig. 49

15. INSTALLATION OF THE AP 8.9 BIT G7 AMPLIFIER

15.1 Securing the ASP module (Automatic Speaker Presence)

15.1.1 Install the ASP module in the allocated section (Fig. 50).

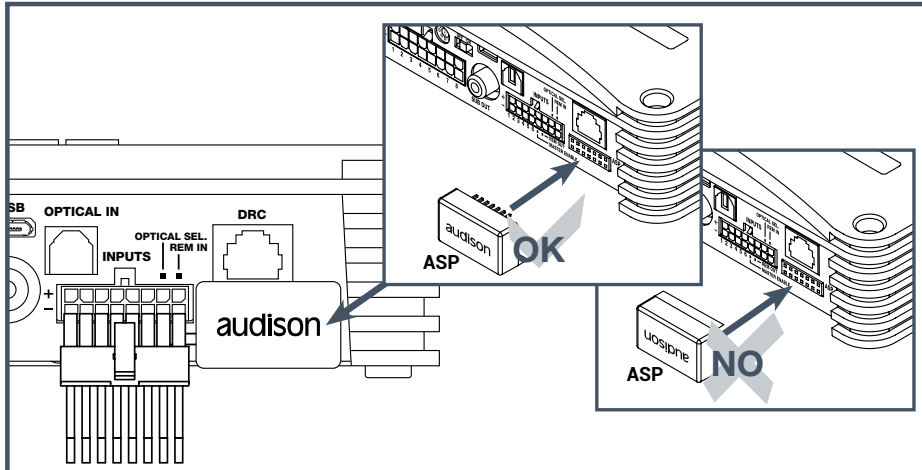


Fig. 50

15.2 Connecting the APSP G7 HARNESS wiring to the AP 8.9 bit G7

15.2.1 Connect in sequence (Fig. 51):

- A. Earth cable (black).
- B. Power supply cable (red).
- C. Output connector.
- D. Input connector

15.2.2 Isolate the cables of unused services (Fig. 52).

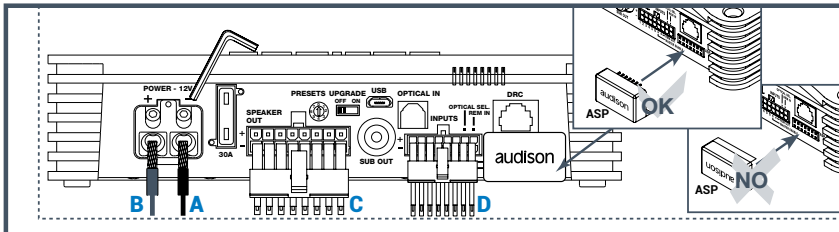


Fig. 51



Fig. 52

15.3 Positioning the AP 8.9 bit G7

15.3.1 Position AP8.9 bit under the right seat, fastening it with the VELCRO tape supplied (Fig. 53a -53b).

Remark: the govebox underneath the seat may need to be removed.



Fig. 53a



Fig. 53b

16. CONNECTION OF OEM TWEETERS

16.1 Connecting cables E and F (fig.26) to the OEM Tweeters (fig.54a - 54b)

16.1.1 Connect cable **E** labelled "TW LEFT" with the left Tweeter.

16.1.2 Connect cable **F** labelled "TW RIGHT" with the right Tweeter.

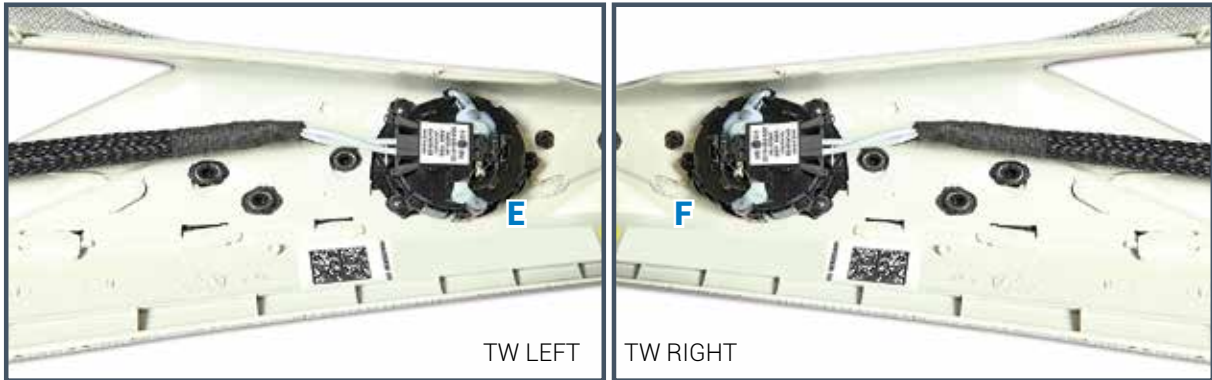


Fig. 54a

Fig. 54b

Remark: invert the connections for right-hand drive vehicles.
The available presets for this configuration are 4, 5, 6, e 7

17. CONNECTION OF THE APSP G7 HARNESS WIRING TO THE OEM HEAD UNIT

17.1 Connecting the APSP G7 HARNESS wiring

17.1.1 Connect back all cables to the OEM Head Unit.

17.1.2 Connect the APSP G7 HARNESS wiring to the OEM Head Unit (fig.55).



Fig. 55

18. CONNECTION OF THE APBX G7

18.1 Connecting cables B to the APBX G7

18.1.1 Connect cables B as shown below (fig.56).



Fig. 56

19. RE-ASSEMBLY OF UNINSTALLED COMPONENTS

19.1 Re-assembly of the vehicle's components performing inverse operations compared to the ones described in the disassembly sections.

20. ACCESSORIES

20.1 APBX G7 SUBWOOFER

The Plug&Sound reflex passive subwoofer system integrates perfectly into the car's interior. The Subwoofer is installed in the spare wheel compartment leaving the loading dock completely free. The subwoofer itself has been engineered to mate perfectly with the available enclosure volume, exploiting all the power the AP8.9 bit G7 delivers. The APBX G7 subwoofer is available as separate component to pair with the APSP G7 kit.



20.2 DRC DIGITAL REMOTE CONTROL

The DRC is a digital interface between the bit processors and the user. A DRC installed on the dashboard of a vehicle featuring an **AP bit** processor, ensures:

- option to select between the main and AUX inputs.
- control of general volume, subwoofer volume, balance and fader.
- The option to select between 2 memory presets set up by the user for equalizer and crossover alignment settings.



20.3 DRC-MP DIGITAL REMOTE CONTROL

The new Audison DRC MP (Digital Remote Control Multimedia Play) is compatible with all the Audison electronics featuring AC Link bus. Its slim profile along with the holder supplied with it eases the installation in the best position inside the car. Thanks to the new Joystick, "Rubber Touch" finished for best control of the movements along the four direction axes, the "DRC Settings" menu can be adjusted and navigation is also possible through the "Navi Command" function if the system features an Audison bit Play HD with video output connected to a monitor. The matte black finish and the possibility of choosing among forty-two different colours for the keyboard make it easier for the DRC MP to integrate with the car dashboard. The new display with white characters features a built-in sensor, for brightness automatic adjustment of the characters according to the light conditions inside the car, and remains readable from any viewing angle.



20.4 Bit Play HD.

bit Play HD and bit Play HD SSD are high resolution media players specifically developed for car audio systems. By connecting the bit Play HD optical output to an Audison processor or amplifier with digital input, a Full DA system is created, able to reach a new standard of quality going well beyond CDs inasmuch as being capable of playing encoded FLAC audio files up to 24 bit/96 kHz.

To help users who do not wish to have external hard-drives, the bit Play HD SSD features an internal 240GB SSD 2.5" unit which is insensitive to the vibration and shaking that occur while driving thanks to solid state technology and a specially designed damped mechanical housing. In addition, the SSD is much faster than a traditional hard disk and provides maximum access speed to multimedia content. If you have a video input, you can connect the bit Play HD and bit Play HD SSD to the head unit or to an external monitor via the HDMI output or composite video and view the native interface of the media server in order to directly control the multimedia file navigation functions via remote and access every setting of the device. Audison R&D department developed an app for Apple and Android devices providing the ability to connect the smartphone to your bit Play HD and bit Play HD SSD via Wi-Fi network and use it as a remote control manager of the multimedia library without the need to connect the player to an external monitor.



20.5 OP 1.5 TOSLINK OPTICAL CABLE 1,5 m / 59.05 in.

Optical cable ending with Toslink connectors for S/PDIF digital audio signals.

Cable length 1,5 m/59,05"



20.6 OP 4.5 TOSLINK OPTICAL CABLE 4,5 m / 177.16 in.

Optical cable ending with Toslink connectors for S/PDIF digital audio signals.

Cable length 4,5 m / 177.16 in.



20.7 STA - F/F SOCKET TOSLINK ADAPTER

Optical adapter to extend optical cables featuring TOSLINK connectors.



20.8 ECK DRC

Additional extension for the cable supplied with the DRC required for installations on especially long vehicles. Total length of the supplied cable with the extension is equal to 6,5 m.



21. TROUBLESHOOTING

FREQUENTLY ASKED QUESTIONS		
<p>The car radio is turned on but no sound can be heard</p>	<p>The AP8.9 bit G7 logo is off.</p>	<p>Check the power supply fuse. If necessary, replace it with a new one of the same type and value. Check that the power supply terminals have a of 12V. Make sure connector C chap. 15 has been installed correctly (Fig. 51).</p>
	<p>The AP8.9 bit G7 logo flashes blue,blue/red, red.</p>	<p>The "Status Logo" indicates the operating status of the product and any malfunctions. Refer to the user's manual of the AP8.9 bit, sec. 4.12 or sec. 4.13. The user's manual is loaded in the CD-ROM provided or available for download from the website www.audison.eu.</p>
	<p>The AP8.9 bit G7 logo is correctly on.</p>	<p>The Head Unit volume is too low.</p>
<p>The sound is not natural and does not come from all the speakers</p>	<p>Incorrect setting of volume / balance / fader controls.</p>	<p>Adjust the OEM source controls.</p>
	<p>Connections are not correct or not well secured.</p>	<p>Check the connections and secure them firmly.</p>



All the specifications herein are subject to change without prior notice

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