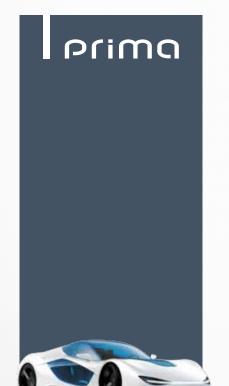
# audison



# **APSP G6**















# Table of Contents

1.	. PRODUCT DESCRIPTION				
2.	CONTENTS OF THE PACKAGE	6			
3.	TECHNICAL SPECIFICATIONS	7			
	3.1 Pre-set description				
	CONNECTIONS LAYOUT				
5.	REMOVING THE ORIGINAL CAR RADIO				
	<b>5.1</b> Removing the finishing frame				
	<ul><li>5.2 Removing the 4 fastening screws</li><li>5.3 Extraction of the original car audio</li></ul>				
6	DISASSEMBLING THE CAR DOOR SILL AND COVERINGS FROM THE RIGHT SIDES				
0.	<b>6.1</b> Removing the rear seat				
	<b>6.2</b> Removing the right rear wheelhouse cover (5-door version)	11			
	6.3 Removing the right door sill completely				
	<b>6.4</b> Removing the lower cover of the right pillar	13			
_	<b>6.5</b> Removing the right side covering of the dashboard				
7.	DISASSEMBLING THE FRONT DOOR COVERING				
	7.1 Removing the front door panel				
Q	PASSING APSP G6 HARNESS CABLES				
Ο.	<b>8.1</b> Passing the cable in the car radio's casing to the right of the dashboard				
	<b>8.2</b> Passing the subwoofer power cable up to the left rear side of the boot				
9.	INSTALLATION OF SUBWOOFER APBX G6	18			
	9.1 Installing the mounting kit				
	9.2 Installing APBX G6 in the car				
	9.3 APBX G6 installation completed				
10.	I. INSTALLATION OF WOOFERS AP 6.5 G6  10.1 Removing original Woofers				
	10.1 Removing original woorers  10.2 APSP G6 SPEAKER CABLE connection to woofer AP 6.5 G6				
	10.3 Assembling the woofer into the casing				
11.	. INSTALLATION OF TWEETER AP 1 SP				
	11.1 Removing the original Tweeters from the casing				
	11.2 Installing the AP 1 SP MOUNTING KIT				
	11.3 Installing AP 1 SP in the casing				
12	. INSTALLATION OF AP 8.9 BIT G6				
	12.1 Install ASP (Automatic Speaker Presence)				
	12.3 Positioning AP 8.9 bit G6.				
13	. CONNECTION OF THE APSP G6 HARNESS CABLE TO THE ORIGINAL CAR RADIO				
	13.1 Connect the APSP G6 HARNESS cable				
14	. REASSEMBLING ALL PARTS				
	<b>14.1</b> Reassemble all parts of the vehicle by following the operations described in				
	the disassembly section in reverse order	26			
15.	OPTIONAL ACCESSORIES				
	15.1 DRC (Digital Remote Control)				
	15.2 DRC-MP (Digital Remote Control)				
	<b>15.3</b> BIL Play HD				
	<b>15.5</b> OP 4.5 TOSLINK OPTICAL CABLE 4.5 M / 177.16 IN				
	15.6 STA - F/F SOCKET TOSLINK ADAPTER	28			
	15.7 ECK DRC				
16	. TROUBLESHOOTING	29			



## Introduction

Congratulations for having purchased one of our products. Your satisfaction is the sine qua non that our products must meet: the same satisfaction of anyone who wants to feel the thrill of a car radio. This manual was drawn up to provide important information required to install and use the system.

Before installing the devices, carefully read all the instructions in this manual, and the manuals regarding individual parts included in the relative packages. Failure to comply with these instructions can cause involuntary injury or damage to system's parts or the vehicle.

# Warranty

For the warranty conditions, please visit **www.audison.eu** or contact your specialised Audison centre.

## Safe sound

USE COMMON SENSE WHEN LISTENING TO THE RADIO. REMEMBER THAT PROLONGED EXPOSURE TO EXCESSIVE LEVELS OF SOUND PRESSURE CAN DAMAGE YOUR HEARING. SAFETY WHEN DRIVING MUST ALWAYS BE FIRST.



#### 1. PRODUCT DESCRIPTION

APSP G6 was specifically designed for VW Golf 6(\*) and comprises:

- 1. An AP8.9 bit G6 amplifier equipped with bit Drive technology and integrated with 7 drive pre-set dedicated to VW Golf 6(\*) designed by the Audison R&D team for "Plug&Sound" performance. The 7 "Drive preset" pre-loaded in the AP8.9 bit G6 memory enables you to use to product without PC connection. Pre-set is chosen based on the user's preferences. AP8.9 bit G6 is equipped with DCC-Direct Cockpit Current technology and is powered directly from the rear connector of the OEM source.
- **2.** An APBX G6 passive closed-box subwoofer, which contains a compact speaker APS 250. The box is specifically designed to be placed on the left side of the boot, and is very compact in size and is fixed to the car without drilling the chassis. The mounting kit and installation manual are in the package.
- **3.** A front two-way system that includes the AP 6.5 G6 woofers, AP 1 SP tweeters and specific crossovers, adapters to set up OEM for the speakers, connectors, and gaskets for perfect integration with the pillars.
- **4.** A complete set of special cables for the car and kit, designed with Plug&Sound technology to be connected to original car manufacturer connectors, without needing to change the original car cables.
- 5. A special APSP G6 Harness that draws power of AP8.9 bit G6 directly from the rear connector of the OEM source.

The kit is designed to be installed on a VW Golf 6(\*) in less than 2 hours; this time can vary according to the conditions and equipment of the vehicle.

**WARNING:** Before proceeding with installing, make sure the APSP G6 kit is compatible with the version of your VW Golf.

All the information and images contained in this manual are referred to the left-hand drive 5-door car.

Note: • All kit components have been designed to be attached to the manufacturer's original attachment points on the vehicle.

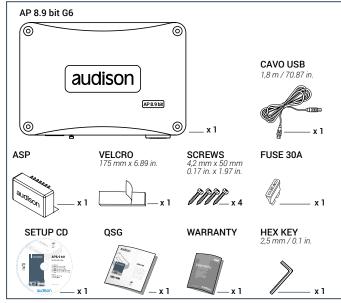
- Pay special care during the removal and insertion of the speakers' fixing rivets.
- Make sure all the gaskets supplied with the speakers are positioned correctly and are working perfectly.
- The connectors are fragile components and must be handled with care.
- After installation and before restarting the system, make sure the equalization of the vehicle's radio is flat.
- Install the kit components by following the instructions to ensure they do not prevent airbags or other safety devices of the car from working correctly.
- Use suitable quality equipment to simplify, accelerate and achieve optimal installation.

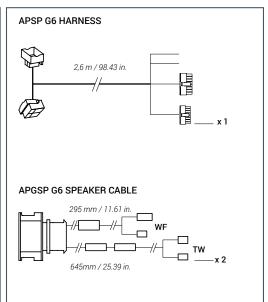
These installation instructions are updated to revision 01. Additional documents can be downloaded from **www.audison.eu**. If there is a malfunction during installation of the kit, check the section regarding **"TROUBLESHOOTING"** at the end of this manual. If you have consulted the aforesaid section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

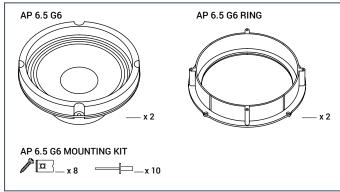
<sup>\*</sup>Golf is a registered brand that is property of Volkswagen.

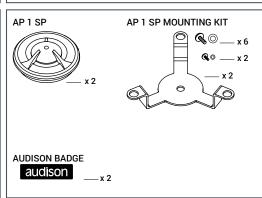


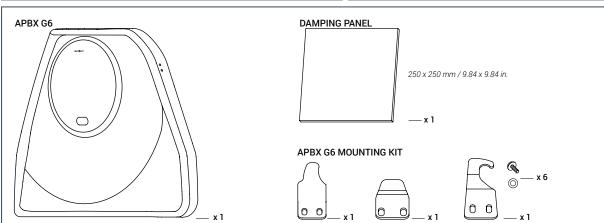
#### 2. CONTENTS OF THE PACKAGE







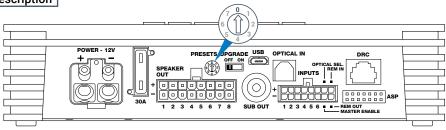






#### 3. TECHNICAL SPECIFICATIONS

#### 3.1 Preset description



PRESET	LISTENING POSITION	YOUR SOUND	DETAILS	
	Overall	FLAT	This preset only contains standard filters; no equalizations and no time alignments have been applied.	
WARNING: Preset "0" contains the input/output configurations dedicated to this speakers system.  The "factory default" function loses the pre-loaded preset in "0". For this reason you must restore correct input setting via AP Prima PC software. It is recommended to backup the preset in your PC.				
	Failure to comply with these recommendations can cause irreparable damage to AP8.9 bit G6 as well as products connected to D0 NOT CHANGE PRESET WHEN THE PRODUCT IS ON.			
(7 0 1 2) (6 4 3)	Left Hand Drive	Acoustic	Detailed mid-high frequencies with perfectly balanced bass. Time alignment have been calibrated to ensure the best listening sensation for the driver (Left-hand drive cars).	
6 2 2	Left Hand Drive	Live	Crisp mid-high frequencies and really dynamic bass. Time alignments have been calibrated to ensure the best listening sensation for the driver (Left-hand drive cars).	
6 2 3 2 2 5 4 3	Left Hand Drive	Rhythm	Detailed mid-high frequencies with punchy bass. Time alignments have been calibrated to ensure the best listening sensation for the driver (Left-hand drive cars).	
6 1 2 5 4 3	Right Hand Drive	Acoustic	Detailed mid-high frequencies with perfectly balanced bass. Time alignment have been calibrated to ensure the best listening sensation for the driver (Right-hand drive cars).	
(7 0 1 2 5 4 3	Right Hand Drive	Live	Crisp mid-high frequencies and really dynamic bass. Time alignments have been calibrated to ensure the best listening sensation for the driver (Right-hand drive cars).	
6 1 5 4 3	Right Hand Drive	Rhythm	Detailed mid-high frequencies with punchy bass. Time alignments have been calibrated to ensure the best listening sensation for the driver (Right-hand drive cars).	
(default)	Overall	Acoustic	Detailed mid-high frequencies with perfectly balanced bass. Time alignments have been set-up to guarantee the better listening feeling for everybody in the car.	

#### **TECHNICAL SPECIFICATIONS**

Component		APSP G6 - Front 2 WAY SYSTEM	APBX G6 SUBWOOFER
Size	mm (in.)	Woofer 165 (6.5) Tweeter 26 (1)	250 (10)
Power Handling	W (peak)	300	900
	W (continuos)	100	300
Impedance	Ω	4	4
Frequency Response	Hz	60 ÷ 20k	38-350
Crossover type		2-Way passive	Digital

#### AP8.9 bit OUTPUT CHANNEL MAP

Channel Mode		Speaker	Power	
1-2 3-4	Bridge	APSP G6 - Front	2 x 130W RMS @ 4Ω	
5-6	Stereo	OEM Rear Speakers	2 x 35W RMS @ 4Ω	
7-8	Bridge	APBX G6 - Subwoofer	1 x 130W RMS @ 4Ω	

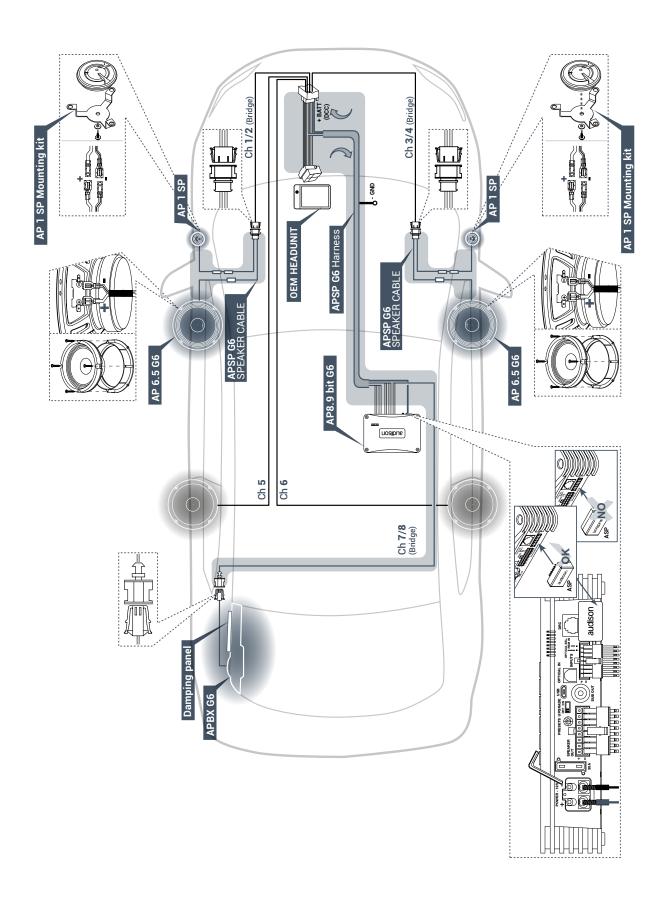
#### Notes

- The AP 8.9 bit G6\* is delivered with the selector set on pre-set "7" (Overall Acoustic).
- You can install the "AP Prima PC Software" program in "Prima Amplifier Setup CD".

<sup>\*</sup> Refer to the operating manual regarding AP8.9 bit for detailed information relating to installation and use of the "AP Prima PC Software". All materials are available from **www.audison.eu**.



#### **4. CONNECTIONS LAYOUT**

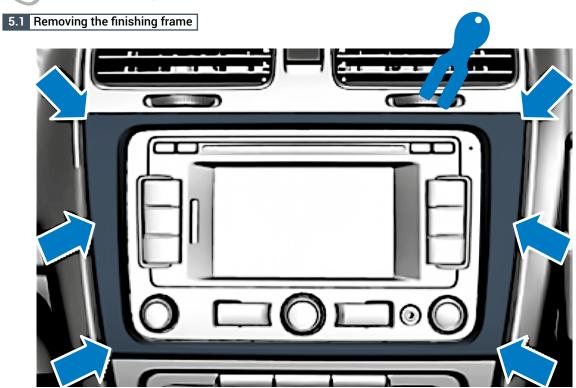




#### 5. REMOVING THE ORIGINAL CAR RADIO

**WARNING:** 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 car's battery.



#### 5.2 Removing the 4 fastening screws

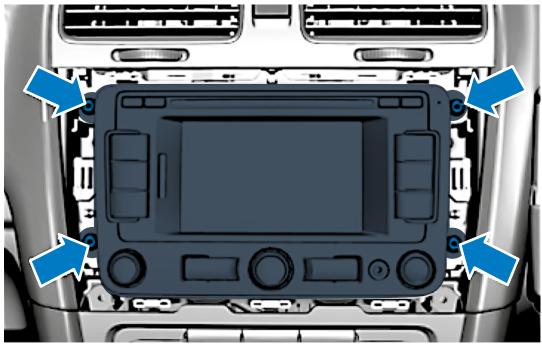


Fig. 2

#### 5.3 Extraction of the original car radio

**5.3.1** disconnecting all connectors from the rear.

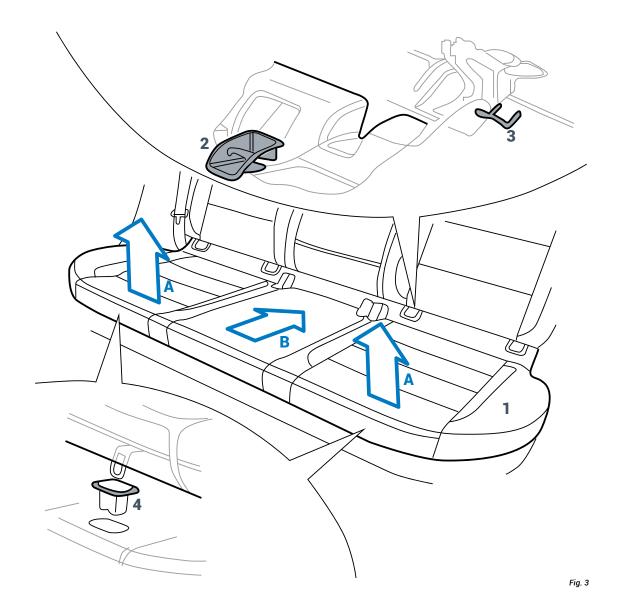


#### 6. REMOVING THE DOOR SILL AND COVERINGS FROM THE RIGHT SIDE

**WARNING:** The procedure shown below describes the right side of the vehicle. Proceed in a similar manner for the left side.

#### 6.1 Removing the rear seat (Fig. 3 point 1)

- **6.1.1** Remove the four plastic covers from the Isofix anchoring device of the rear seat (Fig. 3 point 2/3).
- **6.1.2** Lift the front part of the seat (Fig. 3 arrow A) to release the 2 stops (Fig. 3 point 4).
- **6.1.3** Push the bench seat back (arrow B) and lift it from the rear, then remove it from the vehicle.

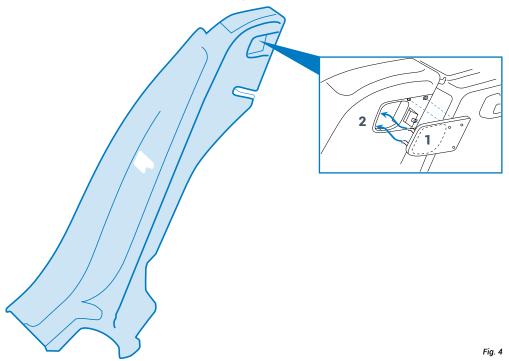


10

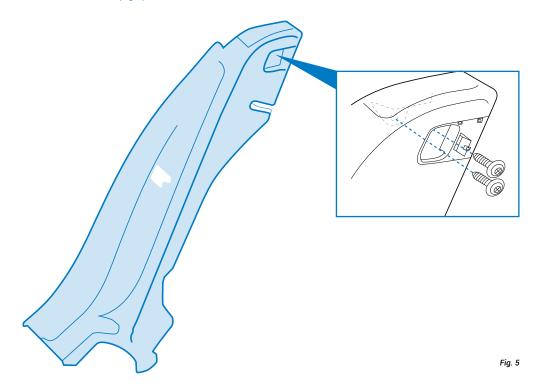


#### 6.2 Removing the right rear wheelhouse cover (5-door version)

- **6.2.1** Tip the right backrest forward to access the wheelhouse cover.
- **6.2.2** Remove the cap from the upper part of the covering (figure 4) with a plastic lever.

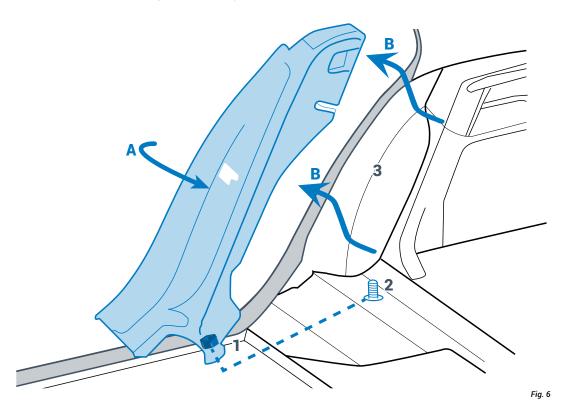


**6.2.3** Remove the two screws (Fig. 5).



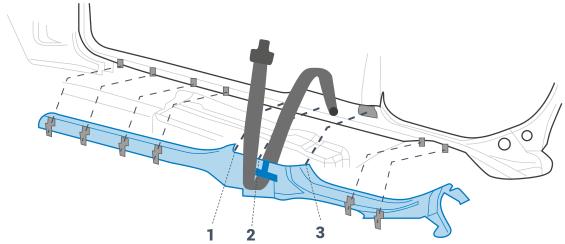


- **6.2.4** Partially remove the gasket from the right door until the wheelhouse covering is free.
- **6.2.5** Remove nut **1** from bolt **2** (Fig. 6).
- **6.2.6** Remove the covering from the body (Fig. 6 point 3).



#### 6.3 Remove the right wheelhouse completely (Fig. 7)

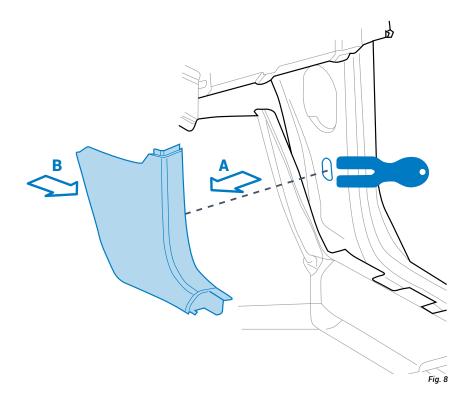
- **6.3.1** Lift the front part of the door sill and release the fastening clip.
- **6.3.2** Release the guide from the lower part of the covering of the central pillar (Fig. 7 point 1).
- **6.3.3** Lift the rear part of the door sill and release the fastening clip.
- **6.3.4** Release the guide from the lower part of the covering (Fig. 7 point 3).
- **6.3.5** Release the tab and extract the safety belt (Fig. 7 point 2).





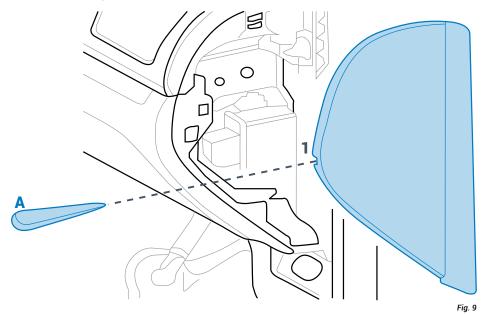
#### 6.4 Removing the lower cover from the right pillar (Fig. 8).

- **6.4.1** Remove the covering with a lever and extract it, as shown by arrows **A** and **B**.
- **6.2.4** Partially remove the gasket from the right door until the wheelhouse covering is free.



#### 6.5 Removing the right side covering of the dashboard (Fig. 9).

**6.5.1** Insert a plastic lever **(A)** into reference catch **1** and gently force it to the right to release the fastening clip.





#### 7. REMOVING THE FRONT DOOR COVERING

**WARNING:** The procedure shown below describes the right side of the vehicle. Proceed in a similar manner for the left side.

#### 7.1 Removing the front door panel

7.1.1 Remove the door covering grille using a plastic lever, then loosen screws 1, 2, 3 and 4 (Fig. 10)

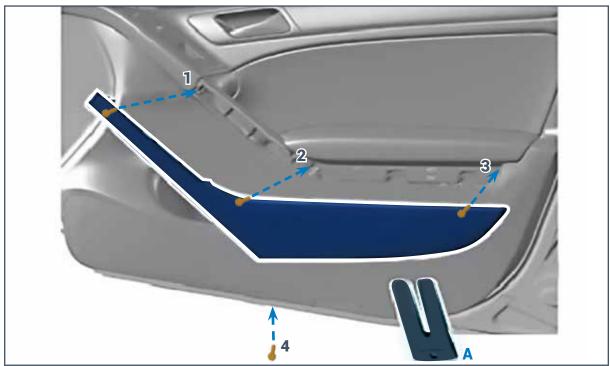


Fig. 10

- 7.1.2 Using a plastic lever, release all the covering clips according to the sequence shown (Fig. 11).
- 7.1.3 Lift the covering by firmly pulling upwards, as shown by arrow C in order to release it (Fig. 11).

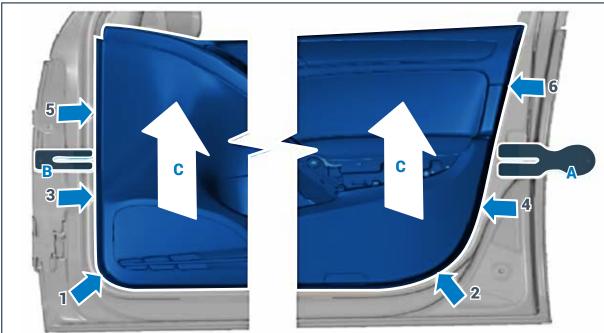


Fig. 11



- 7.1.4 Release the door opening control cable (Fig. 12 point 1).7.1.5 Disconnect all cables from the door's covering.

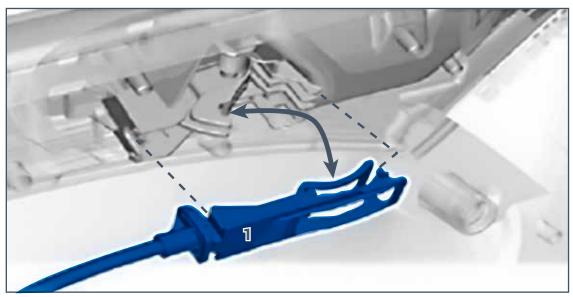


Fig. 12

#### 7.2 Removing the tweeter casing

- **7.2.1** Release the tweeter support from the three fastening caps using a plastic lever (Fig. 13 points 1, 2 and 3).
- **7.2.2** Disconnect the connector (Fig. 13 points 4).



Fig. 13



#### 8. PASSING THE APSP G6 HARNESS CABLE

**WARNING:** The procedure shown below describes the right side of the vehicle. Proceed in a similar manner for the left side.

#### 8.1 Passing the cable from the car radio's casing to the right of the dashboard

**8.1.1** Pass sections **B**, **C**, and **D** of cable **APSP G6 HARNESS** (Fig. 14) from the car radio (Fig. 15) compartment above the glove compartment using a probe (Fig. 16 A).

#### **APSP G6 HARNESS**

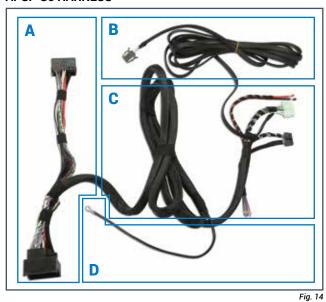




Fig. 15

**8.1.2** Insert the cable towards the door sill and connect earth cable **D** into bolt **E** (Fig. 16 B).

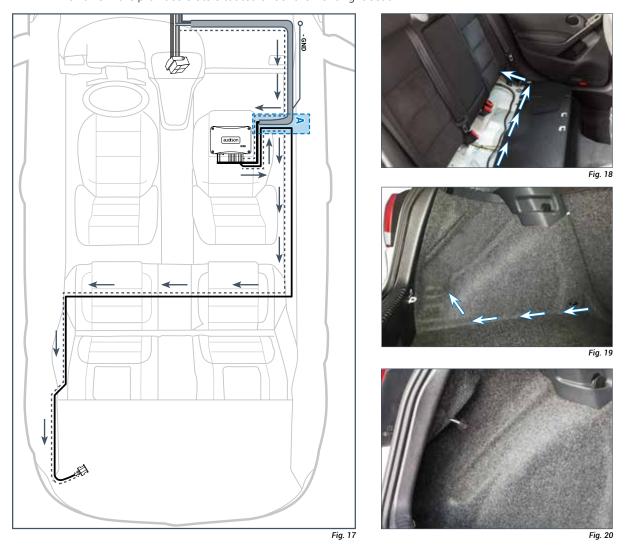




Fig. 16 E



**8.1.3** Lift the carpet from the floor in point **A** (Fig. 17) and insert cables **C** (Fig. 14) under the covering along the slits provided in the carpet. Make sure that both the connectors and power supply cables exit from the provided slots situated under the front right seat.



#### 8.2 Passing the subwoofer power cable up to the left rear side of the boot

**8.2.1** Insert the subwoofer's power cable **B** (Fig. 14) through passage **A** (Fig. 17), and run it along the door sill and through the rear bench seat and proceed until the left wall of the boot (fig. 18-19); the cable must exit from the provided slot (fig. 20).



#### 9. APBX G6 SUBWOOFER INSTALLATION

#### 9.1 Installing the mounting kit

**9.1.1** Assemble the three brackets of the APBX G6 MOUNTING KIT onto the points provided on the box, strictly following the instructions reported in the figure (Fig. 21).

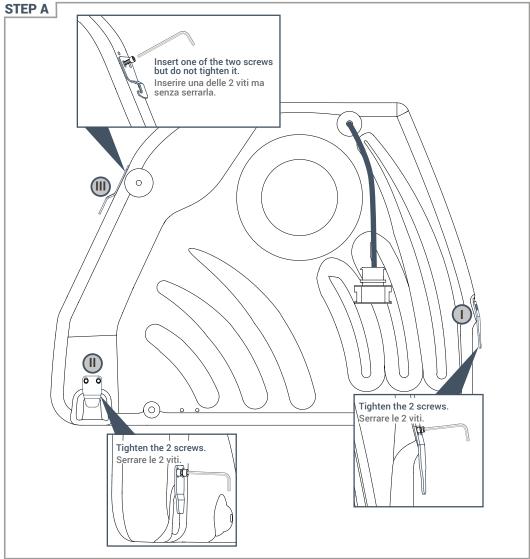


Fig. 21



#### 9.2 Installing APBX G6 in the car

- 9.2.1 After positioning the DAMPING PANEL (Fig. 22 point 1), connect connector (Fig. 22 point 2) and insert brackets (1) and (11) of the box into the anchoring hooks of the boot (Fig. 22 points 3 and 4).
- 9.2.2 Place the box vertically (Fig. 22 point 5), rotate bracket (III) and insert it into the anchoring hook of the backrest. Then also assemble the second screw and lastly tighten both in order to secure APBX G6 (Fig. 22 point 6 A/B).

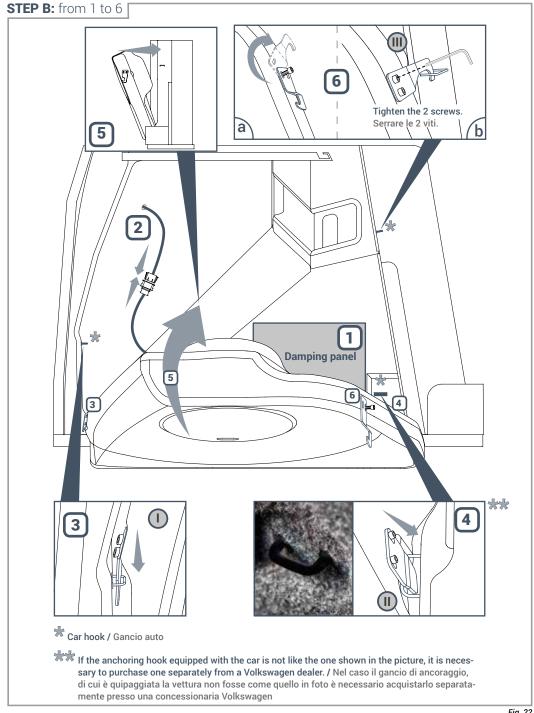


Fig. 22



### 9.3 APBX G6 installation completed



Fig. 23



#### 10. AP 6.5 G6 WOOFER INSTALLATION

#### 10.1 Removing original woofers

- **10.1.1** Disconnect the connector from the original woofer (*Fig. 24 point 1*). **10.1.2** Remove the 4 rivets that secure the woofer (*Fig. 24 point 2*).



10.1.3 Place the AP6.5 RING in the points provided, making sure to position the cable gland slot upwards (Fig. 25 point A) and fasten it using the new rivets supplied in the KIT.



Fig. 25



#### 10.2 APSP G6 SPEAKER CABLE connection to woofer AP6.5 G6

**10.2.1** Insert the terminals, complying with the polarity (Fig. 26 point A).

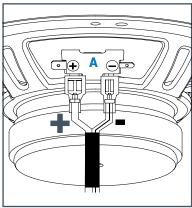


Fig. 26

#### 10.3 Assembling the woofer into the casing

**10.3.1** Pass the power supply cable through slot **A** (Fig. 27) and fasten the speaker using the screws supplied with the KIT.

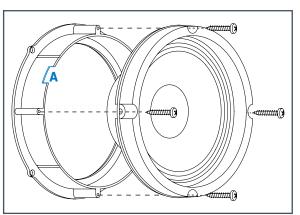
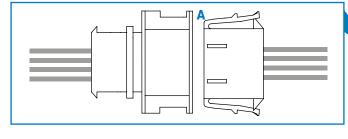


Fig. 27

**10.3.2** Connect the SPEAKER CABLE to the vehicle's default connector (Fig. 28 point A) positioning the crossover as shown in the photo (Fig. 28 point B).



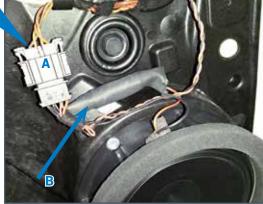


Fig. 28



#### 11. AP 1 SP TWEETER INSTALLATION

#### 11.1 Removing the original tweeters from the casing

- 11.1.1 Removing the three plastic seals to release the tweeter (Fig. 29 points A).
- 11.1.2 Remove the three plastic pins from the point shown in the figure. (Fig. 29 point B).

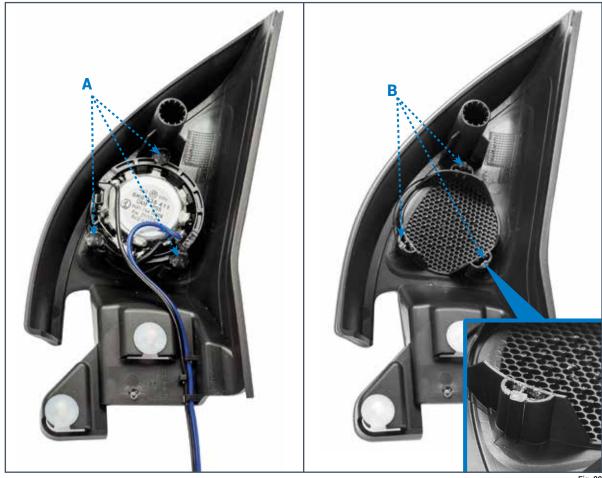


Fig. 29

#### 11.2 Installing the AP 1 SP MOUNTING KIT

11.2.1 Fasten the M3x5 mm screw as shown in the drawing (Fig. 30).

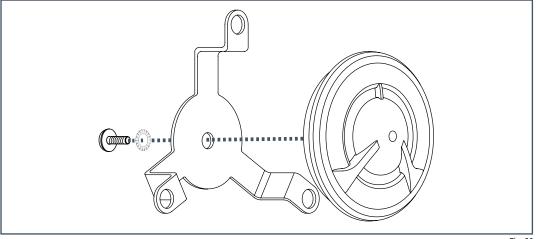


Fig. 30



#### 11.3 Installing AP 1 SP in the casing

**11.3.1** Fasten the tweeter with the 3 self-tapping screws 3.5x10 mm supplied with the AP 1 SP MOUNTING KIT (Fig. 31).



- 11.3.2 Reassemble the tweeter casing onto the door and connect the AP 1 SP cable to the SPEAKER CABLE.
- 11.3.3 Comply with the cable's polarity (Fig. 32 point A).
- 11.3.4 Position the crossover as shown in the photo (Fig. 32 point B).

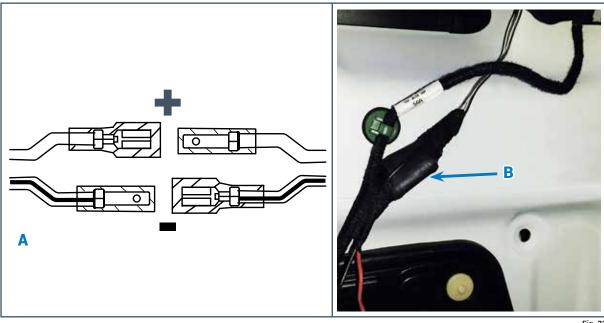


Fig. 32



#### 12. AP8.9 BIT G6 INSTALLATION

#### 12.1 Install ASP (Automatic Speaker Presence)

12.1.1 Install the ASP module in the provided place (Fig. 33).

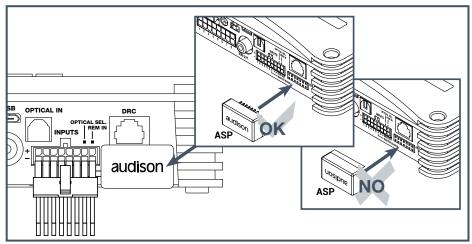
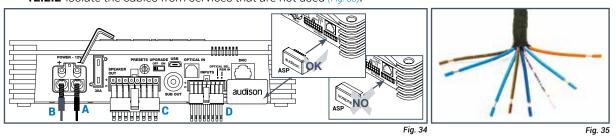


Fig. 33

#### 12.2 APSP G6 HARNESS cable connection to AP8.9 bit G6

- **12.2.1** In sequence, connect:
  - A. Earth cable (black).
  - B. Power supply cable (red).
  - **C.** Outputs connector.
  - **D.** Inputs connector.
- **12.2.2** Isolate the cables from services that are not used (Fig. 35).



#### 12.3 Positioning AP8.9 bit G6

12.3.1 Position AP8.9 bit under the right seat, fastening it with the VELCRO tape supplied (Fig. 36).



Fig. 36



# 13. CONNECTION OF THE APSP G6 HARNESS CABLE TO THE ORIGINAL CAR RADIO

13.1 Connect the APSP G6 HARNESS cable, as shown in the figure (Fig. 37)



Fig. 37

#### **14. REASSEMBLING ALL PARTS**

14.1 Reassemble all parts of the vehicle by following the operations described in the disassembling sections.

WARNING: Be careful of the overall dimensions and fastening of new cables installed.





#### 15. OPTIONAL ACCESSORIES

#### 15.1 DRC DIGITAL REMOTE CONTROL

DRC is a digital interface between the bit processors and the user. A DRC assembled on the dashboard of the vehicle with AP bit processor, provides:

- The option to select between the main and aux inputs
- Control the general volume, subwoofer volume, balance and fader
- The option to select between 2 memory prsets defined by the user for equalizer and crossover alignment settings.



#### 15.2 DRC-MP DIGITAL REMOTE CONTROL

The new Audison DRC MP (Digital Remote Control Multimedia Play) is compatible with all Audison electronics equipped with an AC Link bus. Its slim profile combined with the supplied holder makes it easier to install it in the best position of your car. The new Joystick, "Rubber Touch" finish for maximum movement control in the four direction axis enables "DRC Settings" menu adjustment and "Navi Command" navigation if equipped with an Audison bit Play HD with video output connected to a monitor. The matt black finish and the option to select amongst forty-two different colours of the keyboard enables easy integration of DRC MP with the car's dashboard. The new display with white characters is equipped with a sensor that automatically adjusts the brightness of the characters according to the light in the driver and passenger compartment, and is legible from any angle of vision.



#### 15.3 Bit Play HD

HD bit play and Play HD SSD bit are high-resolution multimedia servers specifically developed for car audio systems. Connecting the optical output of Play HD bit to an Audison processor or amplifier with digital input creates a Full DA system able to obtain new quality reference that goes beyond CD standards as a result of the possibility of reproducing FLAC audio files that are coded up to 24 bit/96 kHz.

To enable users who do not want to manage external hard drives, Play HD SSD bit is equipped with an internal SSD 2.5" unit



of 240 GB, which is insensitive to vibrations and jolts that occur whilst driving, thanks to solid state technology and a mechanical casing with specifically designed damping. SSD is also much faster than a traditional hard disk and offers maximum speed to access multimedia content. If provided with video input, it is possible to connect the Play HD bit and Play HD SSD bit to the source or an external monitor via HDMI or compound video output and view the native interface of the multimedia server to control navigation functions and multimedia files directly through the remote control and access the device's configuration. Audison R&D department has designed an App for Apple and Android devices that enables you to connect the smartphone to Play HD bit and Play HD SSD bit via Wi-Fi and use it as a remote control manager of the multimedia catalogue without having to connect the reader to an external monitor.



#### 15.4 OP 1.5 TOSLINK OPTICAL CABLE 1.5 m / 59.05 in.

TOSLINK optical cable with terminations for S/PDIF digital audio signals.

Cable length: 1.5 m / 59.05 in.



TOSLINK optical cable with terminations for S/PDIF digital audio signals.

Cable length: 4.5 m / 177.16 in.



Optical adapter for TOSLINK optical cable extensions with terminations.



#### 15.7 ECK DRC

DRC cable extension kit for installation on especially long vehicles. The total length of the cable supplied by default together with the extension is  $6.5 \, \text{m}$ .

For all models





#### **16. TROUBLESHOOTING**

FREQUENTLY ASKED QUESTIONS				
	The AP8.9 bit G6 logo is off.	Check the power supply fuse. If necessary, replace it with a new one of the same type and value. Check for the presence of 12V on the power supply terminals. Make sure connector <b>C</b> chap. 12 has been inserted correctly (Fig. 34)		
The car radio starts by no sound is heard	The AP8.9 bit G6 logo flashes blue, blue/red, red.	The "Logo Status" indicates the operation status of the product and any malfunctions. Refer to the operating manual of AP8.9 bit, sec. 4.12 or sec. 4.13. The user manual is loaded into the CD-ROM included in the box. It's also available form www.audison.eu web site.		
	The AP8.9 bit G6 logo is on correctly.	The volume is too low.		
The sound is not natural and does	Incorrect setting of volume/balancer/ fader controls.	Adjust the default source controls.		
not come from all speakers	The connections are correct but are not secured.	Check the connections and secure them.		



www.audison.eu

