Home » audison » audison APBX, APS Subwoofer Owner's Manual

## audison APBX, APS Subwoofer Owner's Manual

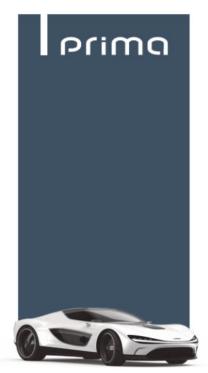
# audison

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APBX / APS

**OWNER'S MANUAL SUBWOOFER** 



audison.com





Congratulations on purchasing our product. Your satisfaction is the first requirement that our products must meet: the same satisfaction as the one gained by those who long for experiencing the car audio emotion. This manual has been drawn to provide the main instructions required to install and use the system properly. However, the range of possible applications is wide; for further information, please feel free to contact your trusted dealer or our technical support at the email <a href="mailto:support@elettromedia.it">support@elettromedia.it</a> Before installing the components, please carefully read all of the instructions contained in this manual. Failure to respect these instructions may cause unintentional harm or damage to the product.

- 1. All components must be firmly secured to the vehicle structure. Do the same when installing any custom structures you may have built. Confirm your installation is solid and safe. A component coming loose while driving may cause serious damage to the passengers, as well as to other vehicles.
- 2. Always wear protective eyewear when using tools, as splints or product residue may become airborne.
- **3.** In order to avoid incidental damage, keep the product in the original packaging until you are ready for the final installation.
- **4.** Do not carry out any installation inside the engine compartment.
- **5.** Before starting with the installation turn the head unit and all other audio system devices off, avoiding any possible damage.
- **6.** Make sure that the location you choose to install the components does not interfere with the normal operation of any mechanical or electrical devices of the vehicle.
- 7. Do not install loudspeakers where they may be exposed to water, excessive humidity, dust or dirt.
- 8. Do not install the components or make cable run close to electronic or mechanical devices of the vehicle.
- **9.** Be very cautious when drilling or cutting into the vehicle chassis, making sure there are no cables or structural elements essential to the vehicle underneath or in the selected area.

- **10.** When routing cables, make sure that the cable does not come in contact with sharp edges or near moving mechanical devices. Make sure that it is firmly attached and protected along its entire length and its insulation is self-extinguishing.
- 11. Only use cables with the proper section (AWG) indicated herein.
- **12.** When running the cable through a hole in the vehicles chassis, protect the cable with a rubber ring (grommet). Be sure to provide proper protection for cables running close to heat-generating devices.
- 13. Do not run the wires outside of the vehicle.
- 14. Use top quality cables, connectors and accessories such as found in the Connection catalogue.
- 15. Make sure your car has 12 VDC voltage negative ground electric system.
- **16.** Check your alternator and battery condition to ensure they can handle the increased consumption.
- **17.** The amplifier can reach temperatures of around 80°C (176°F). Make sure it is not dangerously hot before touching it.
- **18.** Periodically clean the amplifier without using aggressive solvents that might damage it. Don't use compressed air, since it would push solid parts in the amplifiers. Dampen a piece of cloth with water and soap, wring it and clean the amplifier.

Then use a piece of cloth dampened with water only; eventually clean the amplifier with a dry piece of cloth.

- **19.** Pre-plan the configuration of your new amplifier and the best wiring routes to ease installation.
- **20.** Using a cable with adequate AWG (see chart: Power Supply Cable), run the power wire from the battery location to the amplifier mounting location.
- **21.** Connect the power supply with the correct polarity. connect (+) terminal to the cable coming from the battery and (-) terminal to the car chassis.
- **22.** Put an insulated fuse holder 40 cm max far from the battery positive terminal; connect one end of the power cable to it after connecting the other end to the amplifier.
- **23.** To ground the device (-) in the right way, use a screw in the vehicle chassis; scrape all paint or grease from the metal if necessary, checking with a tester that there is continuity between the battery negative terminal (-) and the fixing point. If possible, connect all components to the same ground point; this solution rejects most noise which can be generated during the audio reproduction.
- 24. Route all signal cables close together and away from power cables.
- 25. Connect the RCA input cables, the applied signal must be between 0.1 V RMS and 4 V RMS.
- **26.** Connect the high level inputs using the proper plug. Applied signal must be between 1 V RMS and 22 V RMS. Don't use it if you are already using Pre In preamplified connection.
- 27. Connect the speaker output using 10 AWG max speaker cable.
- **28.** The amplifier starts by connecting the remote turn on terminal to the source specific output. It starts automatically, without remote signal, also if using high level inputs (Speaker IN) by setting the switch that can be found on the "Hi-IN AUTO TURN ON" front panel to position ON.
- 29. When installation is over, check the system's wiring and make sure all connections were done in the right way.
- **30.** Put the fuse into the fuse holder. The fuse value will have to be 30% higher than the amplifier built-in one. In case the cable supplies several amplifiers, the fuse value will have to be 30% higher than the sum of the values of all other fuses in the amplifiers.
- **31.** Listening level calibration is made by adjusting the source volume up to <sup>3</sup>/<sub>4</sub> of its maximum level; then, adjust the amplifier levels until you hear distortion.
- **32.** Warranty certificate: For more information visit the Audison website.

#### 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.

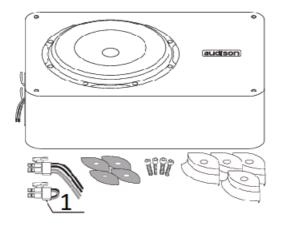


Information on electrical and electronic equipment waste (for those European countries which organize the separate collection of waste)

Products which are marked with a wheeled bin with an X through it can not be disposed of together with ordinary domestic waste. These electrical and electronic products must be recycled in proper facilities, capable of managing the disposal of these products and components. In order to know where and how to deliver these products to the nearest recycling/disposal site please contact your

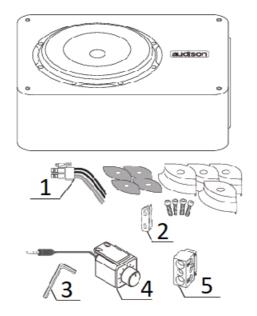
local municipal office. Recycling and disposing of waste in a proper way contributes to the protection of the environment and to prevent harmful effects on health.

#### **APBX 8 R / APBX 8 DS / APBX 10 DS / APBX 10 S4S**



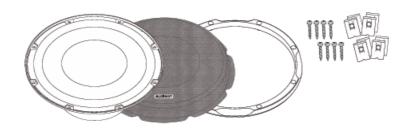
## 1. APBX 10 DS / APBX 8 DS only

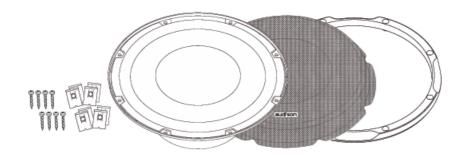
## APBX 8 $AS_2$ / APBX 10 $AS_2$



- 1. Hi Level
- 2. Fuse
- 3. Hex Key
- 4. HRC AP
- 5. Terminal block

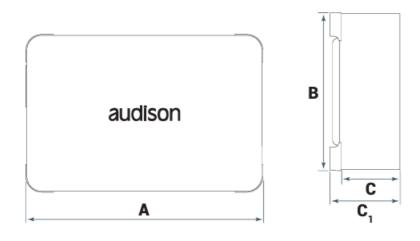
#### **APS 8 R / APS 8 D**





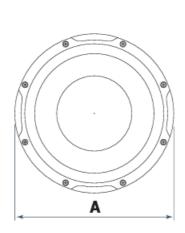
#### • Size

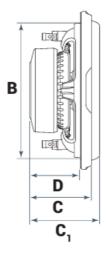
## APBX 8 R / APBX 8 DS / APBX 10 DS / APBX 8 AS $_{\mathbf{2}}$ / APBX 10 AS $_{\mathbf{2}}$ / APBX 10 S4S



	A	В	С	C <sub>1</sub>	
APBX 8 R	470	334	109	131	mm
AFDAOR	18.5	13.15	4.29	5.16	in.
APBX 8 DS	374	334	109	131	mm
AI DA 0 DO	14.72	13.15	4.29	5.16	in
APBX 10 DS	470	334	120	142	mm
APBX 10 S4S	18.5	13.15	4.72	5.59	in.
APBX 8 AS <sub>2</sub>	368	294	135	158	mm
AFBA 0 AG2	14.49	11.57	5.31	6.22	in.
APBX 10 AS <sub>2</sub>	440	334	135	158	mm
AFDA 10 AG2	17.32	13.15	5.31	6.22	in.

APS 8 R / APS 8 D / APS 10 D / APS 10 S4S

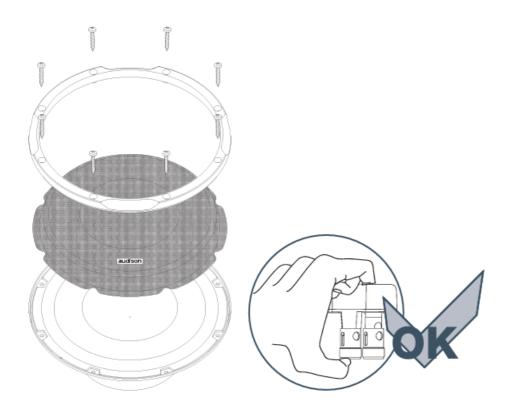




	Α	В	С	C <sub>1</sub>	D	
APS 8 R	222	187	94,6	104	79	mm
APS 8 D	8.74	7.36	3.72	4.09	3.11	in.
APS 10 D	270	233	105	119	88	mm
APS 10 S4S	10.63	9.17	4.13	4.69	3.46	in

## • Mounting

## APS 8 R / APS 8 D / APS 10 D / APS 10 S4S

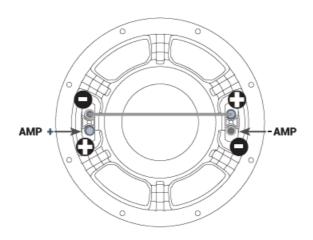


IMPEDANCE	APS 8 R APS 10 S4S	APS 8 D APS 10 D	
1 Speaker	4	4 + 4	Ω
1 Speaker series	_	8	Ω
1 Speaker parallel	-	2	Ω
2 Speakers series	8	_	Ω
2 Speakers parallel	2	-	Ω
2 Speakers parallel – parallel	_	1	Ω
2 Speakers series – parallel	-	4	Ω
3 Speakers series – parallel	-	2,6	Ω

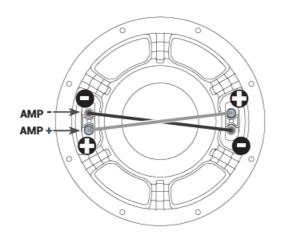
#### • Connections

#### **APS 8 D / APS 10 D**

#### **SERIES**

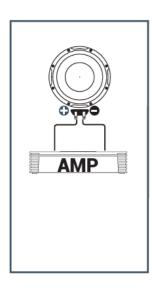


## **PARALLEL**

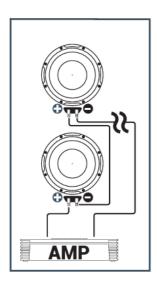


#### **APS 8 R / APS 10 S4S**

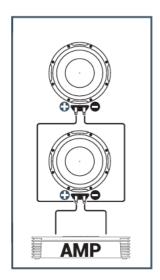
#### 1 SPEAKER



## **SERIES**

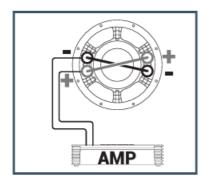


## PARALLEL

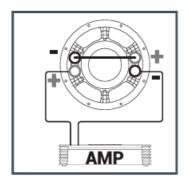


APS 8 D / APS 10 D

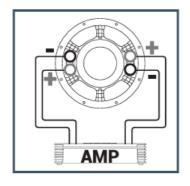
**1 SPEAKER IN PARALLEL** 



#### **1 SPEAKER IN SERIES**

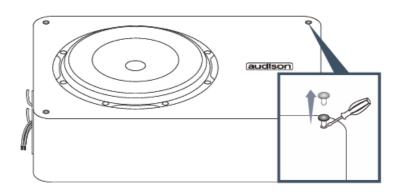


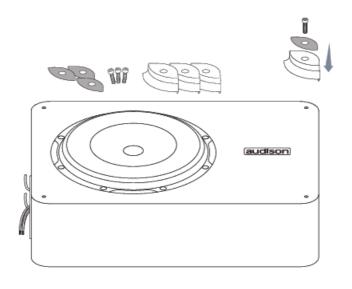
#### **1 SPEAKER SEPARATE**



#### • Mounting

## APBX 8 R / APBX 8 DS / APBX 10 DS / APBX 8 AS $_{\mathbf{2}}$ / APBX 10 AS $_{\mathbf{2}}$ / APBX 10 S4S



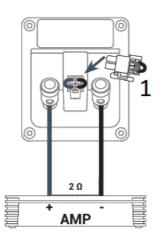


IMPEDANCE	APBX 8 R APBX 10 S4S	APBX 8 DS APBX 10 DS	
1 Speaker	4	4 + 4	Ω
1 Speaker parallel	_	8	Ω
1 Speaker series	_	2	Ω

#### • Connections

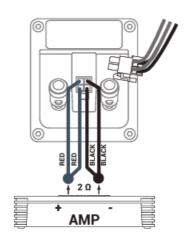
#### APBX 8 DS / APBX 10 DS

#### **PUSH CONNECTION**

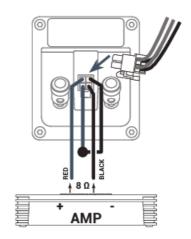


## 1. USE DUMMY PLUG

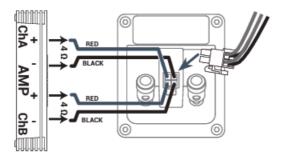
PLUG & PLAY CONNECTION (PARALLEL)



PLUG & PLAY CONNECTION (SERIES)



PLUG & PLAY CONNECTION (SEPARATE COILS)

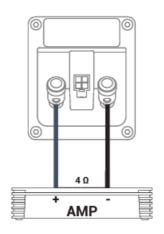


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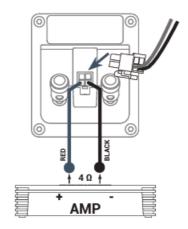
Do not use push and PLUG & PLAY CONNECTION at the same time.

**APBX 8 R / APBX 10 S4S** 

**PUSH CONNECTION** 



**PLUG & PLAY CONNECTION** 





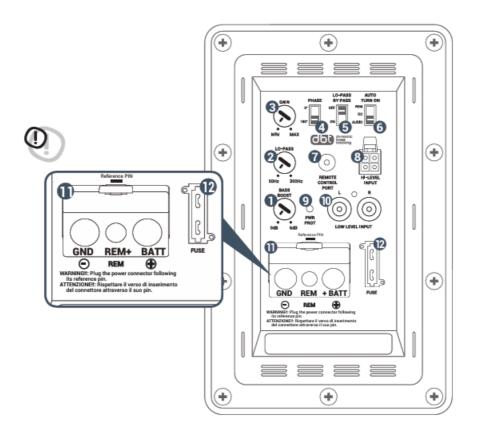
Do not use push and PLUG & PLAY CONNECTION at the same time.

• Control panel Overview

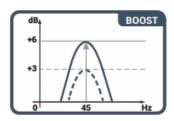
APBX 8 AS<sub>2</sub> / APBX 10 AS<sub>2</sub>

#### DBT

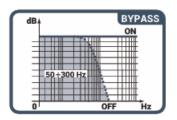
See page 44 for DBT features



(1) BASS BOOST: adjustable Bass Boost control, 0÷6 db @ 45Hz.



- (2) LO-PASS: 12dB/Oct frequency adjustable Butterworth low-pass filter (50÷300 Hz).
- (3) GAIN: gain adjustment: Lo-level input (0.1÷4 VRMS); Hi-Level input (0.2÷8 VRMS)
- (4) PHASE: output phase switch  $(0 180^{\circ})$ .
- **(5) LO-PASS BYPASS:** switch to disable the lo-pass filter (**OFF**= Filter enabled; **ON**= Filter disabled). When it is set to ON, it allows the use of an external adjustable SUB signal, coming from a DSP device or an amplifier (eg AP 8.9 / 4.9 bit).



**(6) Auto Turn ON:** three different automatic turn-on modes can be selected using the "Auto Turn ON" switch: REM / DC / AUDIO. Refer to the below Auto turn-on table.

AUTO TURN ON	GND +BATT REM	LOW LEVEL INPUT	HI-LEVEL INPUT	NOTE				
REM DC AUDIO	1	1	<b>√</b>	Use the Remote turn-on signal available from the source.	Function available for both HI and LO I evel input signals.			
REM DC AUDIO	X	X	<b>/</b>	To be used in case the R	The DC voltage of the source HI-level output needs range between 2÷5 V D C.			
REM DC AUDIO	X	<b>√</b>	X	available.	The audio signal of the source LO-lev el output needs to range between 4÷1 0 mV AC.			

Auto turn on table

- (7) REMOTE CONTROL PORT: Input for REMOTE SUB VOLUME CONTROL. Connect the sub volume control HRC AP supplied.
- (8) HI-LEVEL INPUT: HI-level inputs for speaker signals, Left and Right channels. If the source does not feature pre-amplified outputs, connect to the HI-level speaker outputs (0.2÷8 VRMS). Left & Right signals are summed into the amplifier to obtain a mono signal for the subwoofer.
- **(9) PWR-PROT:** Status led. Power on (blue colour) Protection mode (red colour): the amplifier will automatically shut down when overheating over/under power supply voltage occur.
- (10) LOW-LEVEL INPUT: Left and Right pre-amplified input channels. Connect to pre-amplified audio source unit output. Gain adjustment: 0.1÷4 VRMS. Left & Right signals are summed into the amplifier to obtain a mono signal for the subwoofer.
- (11) POWER CONNECTOR (GND; REM; + BATT): power supply connections.

**GND:** terminal block for the amplifier power supply negative pole connection. Connect the battery negative pole or a wire connected to the vehicle chassis. The terminal accepts cables up to 4 AWG.

**REM:** REMOTE IN terminal block for the remote cable coming from the device which manages the amplifier auto turn-on. The terminal accepts cables up to 8 AWG.

- + BATT: terminal block for the amplifier power supply positive pole connection (10÷16V DC). Connect the battery positive pole. The terminal accepts cables up to 4 AWG.
- (12) FUSE: 20 A blade type protection fuse for APBX 8 AS 2 (30 A for APBX 10 AS 2).

#### APBX 8 AS<sub>2</sub> / APBX 10 AS<sub>2</sub> Dynamic Bass Tracking



APBX 10 AS<sub>2</sub> / APBX 8 AS<sub>2</sub> to enjoy a tense and dynamic bass even at very high listening volumes.

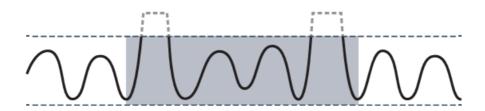
DBT monitors the input signal in real time by detecting in advance the peaks which, if not processed, will bring the amplifier / subwoofer system into uncontrolled distortion, when it is pushed to maximum power.

DBT prevents this critical condition by processing the attack and release of the peak in advance according to parameters optimized based on the perception of sound by the auditory system.

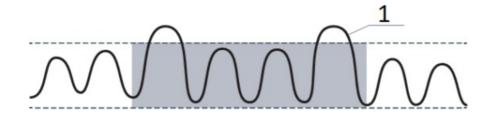
The result is amazing, the perception of pressure and acoustic quality are greatly emphasized thanks to the intervention of the (DBT), which "favors" the extremely dynamic and defined reproduction of low frequencies, even at maximum power.

#### **SIGNAL WITHOUT DBT**

Threshold Distortion

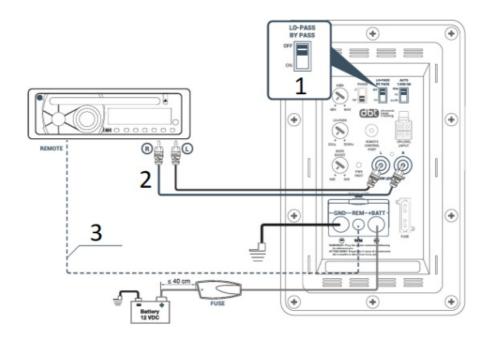


## SIGNAL PROCESSED BY DBT (DINAMIC BASS TRACKING)



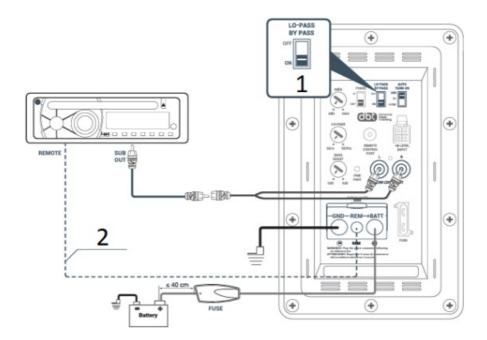
- 1. Improved perception
- Connections

#### Low-Level IN (Stereo out)



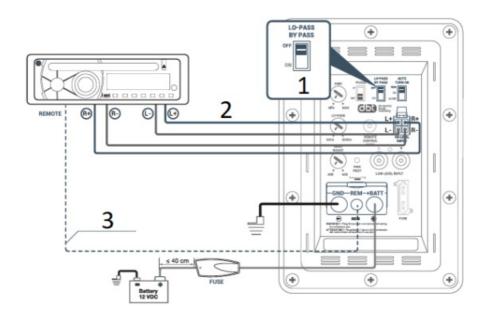
- 1. When the Head-unit does not feature a Low-Pass filter
- 2. Stereo Low Level Output
- 3. Refer to auto turn-on table, pag. 43

#### Low-Level IN (Sub out)



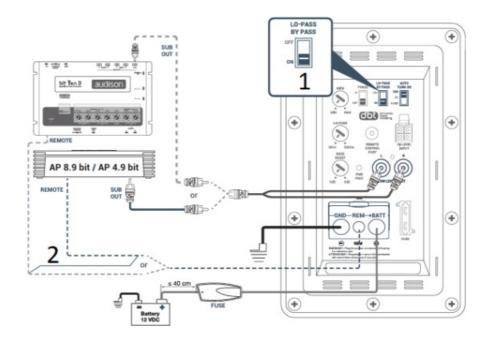
- 1. When the Head-unit features a Low-Pass filter
- 2. Refer to auto turn-on table, pag. 43

#### **Hi-Level IN**



- 1. When the Head-unit does not feature a Low-Pass filter
- 2. Speaker Outputs
- 3. Refer to auto turn-on table, pag. 43

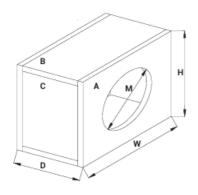
#### **AP Bit Connection or bit DSP**



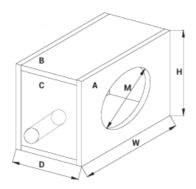
- 1. When the Head-unit features a Low-Pass filter
- 2. Refer to auto turn-on table, pag. 43

#### **ENCLOSURE DESIGN**

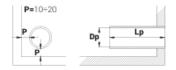
#### SEALED BOX ASSEMBLY



**REFLEX BOX ASSEMBLY** 



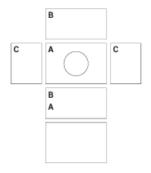
SUGGESTED PORT POSITION/DIMENSION



#### BOX TECH DATA

	Vb	F					Mounting Hole – M	Wood Thi	Dp-Tube inner diameter	Lp-Tube		
			Q	W	Н	D	TIOIE – IVI	CKIIESS	diameter	lenght	Damping Ma	
	l (cu. ft.)	H	tc	mm (in.	mm (in.	m m (in	mm (in.)	mm (in.)	mm (in.)	mm (in.)	terial	
APS 8	10, 6 (0. 37)	3 5	_	567 (22 .32 )	300 (11 .81	10 6 (4. 17	187 (7.36)	16 (0.63)	60 (2.36)	500 (19.68)	1 foil on botto m panel	
APS 8 D	8,5 (0. 30)	6 2	0, 8 5	462 (18 .19 )	300 (11 .81	10 6 (4. 17	187 (7.36)	16 (0.63)	-	-	1 foil on botto m panel	
APS 1 0 D APS 1 0 S4S	12 (0. 42)	5	0. 9 7	482 (18 .98 )	350 (13 .78 )	11 6 (4. 57 )	233 (9.17)	16 (0.63)	-	_	1 foil on botto m panel	

## PANELS LAYOUT



PANELS CUT LIST

	Α	Qty	В	Qty	С	Qty
	mm (in.)	Pcs	mm (in.)	Pcs	mm (in.)	Pcs
APS 8 R	567 x 300 (22.32 x 11.81)	2	567 x 74 (22.32 x 2.91)	2	268 x 74 (10.55 x 2.91)	2
APS 8 D	462 x 300 (18.19 x 11.81)	2	462 x 74 (18.19 x 2.91)	2	268 x 74 (10.55 x 2.91)	2
APS 10 D APS 10 S4S	482 x 350 (18.98 x 13.78)	2	482 x 84 (18.98 x 3.31)	2	318 x 84 (12.52 x 3.31)	2

### • Technical specifications

				wer ndling	Impe		Voice			
	Com	S iz e	P e a k	Conti nuou s	danc e	Magnet S ize	Coil Ø	Magnet	Dome/Cone	Weight of one component
	nt	m m (i n.	w	w	Ω	mm (in.)	mm (in.)			Kg (lb.)
APS 8 R	Subw oofer	2 0 0 (8 )	5 0 0	250	4	120 x 50 x 28 (4.72 x 1. 97 x 1.1)	40 (1.57)	High density flux ferrite	Water repellent pressed paper	3,04 (6.7)
APS 8 D	Subw oofer	2 0 0 (8 )	5 0 0	250	4 + 4	120 x 50 x 28 (4.72 x 1. 97 x 1.1)	40 (1.57)	High density flux ferrite	Water repellent pressed paper	3,1 (6.83)
APS 10 D	Subw oofer	2 5 0 (1 0)	8 0 0	400	4 + 4	140 x 70 x 30 (5.51 x 2. 76 x 1.18)	60 (2.36)	High density flux ferrite	Water repellent pressed paper	5,24 (11.56)
APS 10 S4 S	Subw oofer	2 5 0 (1 0)	8 0 0	400	4	140 x 70 x 30 (5.51 x 2. 76 x 1.18)	60 (2.36)	High density flux ferrite	Water repellent pressed paper	5,24 (11.56)

			1	wer ndlin	Imp	Dimens ions	Voic			Weight of
	Component	iz e	P e a k	Co ntin uou s	eda nce	W x H x	e Co il Ø	Magnet	Dome/Cone	one comp onent
		m m (i n.	w	w	Ω	mm (in.)	mm (in.)			Kg (lb.)
APB X 8 R	Passive Subwoofer Refle x box	2 0 0 (8 )	5 0 0	250	4	470 x 131 x 334 (18.5 x 5.16 x 1 3.15)	40 (1.5 7)	High den sity flux f errite	Water repell ent pressed paper	6,64 (14.64)
APB X 8 DS	Passive Subwoofer Seal ed box	2 0 0 (8 )	5 0 0	250	4 + 4	374 x 131 x 334 (14.72 x 5.16 x 1 3.15)	40 (1.5 7)	High den sity flux f errite	Water repell ent pressed paper	6,22 (13.71)
APB X 10 DS	Passive Subwoofer Seal ed box	2 5 0 (1 0)	8 0 0	400	4 +	470 x 142 x 334 (18.5 x 5.59 x 1 3.15)	60 (2.3 6)	High den sity flux f errite	Water repell ent pressed paper	8,63 (19.03)
PBX 8 AS 2	Active Subwoofer Sealed box with dynamic bass tr acking	2 0 0 (8 )	5 0 0	250	0,4	368 x 158 x 294 (14.49 x 6.22 x 1 1.57)	40 (1.5 7)	High den sity flux f errite	Water repell ent pressed paper	6,3 (13.89)
APB X 10 AS <sub>2</sub>	Active Subwoofer Sealed box with dynamic bass tr acking	2 5 0 (1 0)	8 0 0	400	0,1	440 x 158 x 334 (17.32 x 6.22 x 1 3.15)	60 (2.3 6)	High den sity flux f errite	Water repell ent pressed paper	9,4 (29.72)
APB X 10 S4S	Passive Subwoofer Seal ed box	2 5 0 (1 0)	8 0 0	400	4	470 x 142 x 334 (18.5 x 5.59 x 1 3.15)	60 (2.3 6)	High den sity flux f errite	Water repell ent pressed paper	8,63 (19.03)

			APBX 8 AS2	APBX 10 AS2	
	Power supply voltage	VDC	10 ÷ 16V	10 ÷ 16V	
	Idling current	А	0.4	0.4	
	Idling current when off	mA	4	4	
POWER SUPPLY	Consumption @ 14,4 V DC Max musical power	А	18	30	
	Remote IN		5 – 16 V DC 2 mA max	5 – 16 V DC 2 mA max	
	Fuse	А	20	30	
	Distortion – THD	%	0.5	0.5	
	Bandwidth	Hz	20 ÷ 300	20 ÷ 300	
	S/N ratio (A weighted)	dB	100	100	
	Input sensitivity (Pre IN)	VRM S	0.1 ÷ 4	0.1 ÷ 4	
AMPLIFIER STAGE	Input sensitivity (Hight IN)	VRM S	0.2 ÷ 8	0.2 ÷ 8	
	Input impedance (Pre IN)	Ω	17k	17k	
	Input impedance (Hight IN)	Ω	220	220	
	Output power (RMS) @ 14,4 VDC, 1% THD	W	250 @ 0.4Ω	400 @ 0.16Ω	
	Inputs		RCA / Hi-Level	RCA / Hi-Level	
	Filters (Lo-Pass) continu adjustable	ous	50 ÷ 300 Hz 12dB/Oct-b ypass	50 ÷ 300 Hz 12dB/Oct-b ypass	
SIGNALS INPUTS / F	Subsonic (Hi-Pass) fixed		16 Hz @ 24 dB Oct	16 Hz @ 24 dB Oct	
ILIER	Phase switch		0 – 180°	0 – 180°	
	Sub remote volume cont	rol	HRC AP included	HRC AP included	
	Bass boost		0 ÷ 6 dB @ 45 Hz	0 ÷ 6 dB @ 45 Hz	

<sup>•</sup> Electro-Acoustic parameters

	APS 8 R	APS 8 D *	APS 10 D *	APS 10 S4S	
<b>D</b> mm	173	173	220	220	
Xmax mm	± 8.8	± 8.8	± 12,6	± 12,6	
Re Ω	3.7	2.1	2.2	3,7	
Fs Hz	32	30	27	28,5	
<b>Le</b> mH	1.45	1.1	1.5	1,9	
Vas I	26.5	25.5	41	39,62	
<b>Mms</b> g	80	85	170	160	
Cms mm/N	0.33	0.3	0.2	0,2	
BL T•m	11.5	8.8	10.4	11,9	
Qts	0.41	0.44	0.52	0,68	
Qes	0.43	0.46	0.58	0,75	
Qms	5.1	5.1	4.7	6,9	
<b>Spl</b> dB	84	83.5	84	83,5	

<sup>\*</sup>The Thiele and Small parameters are measured with coils in parallel. For series coils specification multiply Re and Le by 4 and BL by 2, all other specifications remain the same.

The Thiele and Small parameters are measured after the speaker has been conditioned by a specific signal and represent the expected long term parameters after a short period of use.

Note





JBL009\_Rev.N

#### Audison Warranty

The Audison products are warranted, under normal functioning conditions, for the period of time as set by the laws in force, against defects concerning materials or their manufacturing. The warranty is valid from the date of purchase, certified by receipt.

The warranty is not valid if:

- the product is damaged by incidents, installations and/or improper use, or by any other causes not depending on materials or manufacturing defects;
- the product is modified or tampered with by unauthorised people;
- its serial number has been altered or cancelled.

While the product is under warranty, defective parts will be repaired or replaced at the manufacturer's discretion. The defective product, along with notification about it, must be returned to the dealer from which it was purchased together with the warranty certificate duly filled in. If the product is no longer under warranty, it will be repaired at the current costs.

Elettromedia s.r.l. does not undertake any liability for damages due to transportation.

Elettromedia s.r.l. does not take any responsibility for: costs or loss of profit due to the impossibility to use the product, other accidental or consequential costs, expenses or damages suffered by the customer. Warranty according to laws in force.

For more information visit the Audison website.

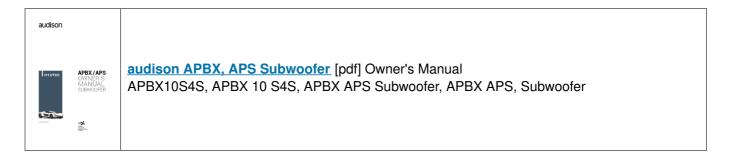
All specifications subject to change without notice



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#### **Documents / Resources**



#### References

- Elettromedia
- User Manual

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