# AXTON A894DSP Mono Power Amplifier Instruction Manual



**8.1 CHANNEL CLASS-D**
**CAR AMPLIFIER**
**Installation & Operation Manual**
**A894DSP**
**SMART DSP**

Contents



## SAFETY INSTRUCTIONS

- Keep the product away from children before installation. The inner packaging of the product could pose a hazard. E.g. due to small parts of the accessories that can be swallowed.
- Depending on their size, polybags inside the packaging must be kept away from small children due to the possible risk of suffocation.
- This product is designed exclusively for operation with an on-board voltage of 12 V direct current (DC).

If the product is operated with other on-board voltages, this may result in damage to the product or the vehicle electrical system.

- Follow the manufacturer's instructions in the installation manual. Specific knowledge and tools are required for installation. Improper installation can lead to damage to the vehicle and the infotainment system.
- Incorrectly installed car audio amplifiers pose a danger to the occupants, as they can come loose in the event of an accident and injure people.
- Electrically incorrectly connected car audio components pose a short-circuit hazard with possible fire consequences. Follow the wiring instructions in the installation manual carefully or have the product installed by a specialist dealer.
- Proper functioning can only be guaranteed if you use the original accessories included in the scope of delivery.
- The product and the original accessories must not be modified or altered in any way. Improper modifications can lead to damage to the vehicle and the product.
- Please note that this car audio amplifier generates heat or waste heat during operation and look for alocation for installation and mounting that ensures good ventilation of the product.
- Prolonged listening sessions at high to very high levels at short intervals can lead to permanent hearing loss.
- Road users must be able to hear traffic at all times while driving, e.g. to be able to recognize acoustic warning signals such as horns or sirens from the police, ambulance, fire department and other emergency services.
- The amplifier must not be opened and/or modified by unauthorized persons. The voltages and currents inside the device can be life-threatening.
- Do not use the device in places where wireless devices are not permitted.
- AXTON cannot guarantee that accidents or damage will not occur due to improper use of the device.
  Use this product with care and at your own risk.

**Operating frequency / maximum transmission power**
This is a product with an integrated Bluetooth module, class 2.
Bluetooth
Bluetooth standard: 5.0
Transmission frequency band: 2402 MHz ~ 2480 MHz
Bluetooth class: Class 2
Transmission power: 4 dBm / 2.5 mW

**Information on radio frequency exposure**
This device complies with EU requirements (2014/53/EU Article 3.1a) on the limitation of exposure of the general public to electromagnetic fields for the purposes of health protection.
Thank you for purchasing this innovative AXTON amplifier!
To maximize the performance of this amplifier and your complete car audio system installation, we recommend you acquaint yourself thoroughly with all technical features and controlling options of this AXTON amplifier. Please read this manual carefully, before attempting the installation. If, after reading this manual, you still have questions regarding functions or the installation of the amplifier, we recommend you consult your dealer.

**MOUNTING INSTRUCTIONS**

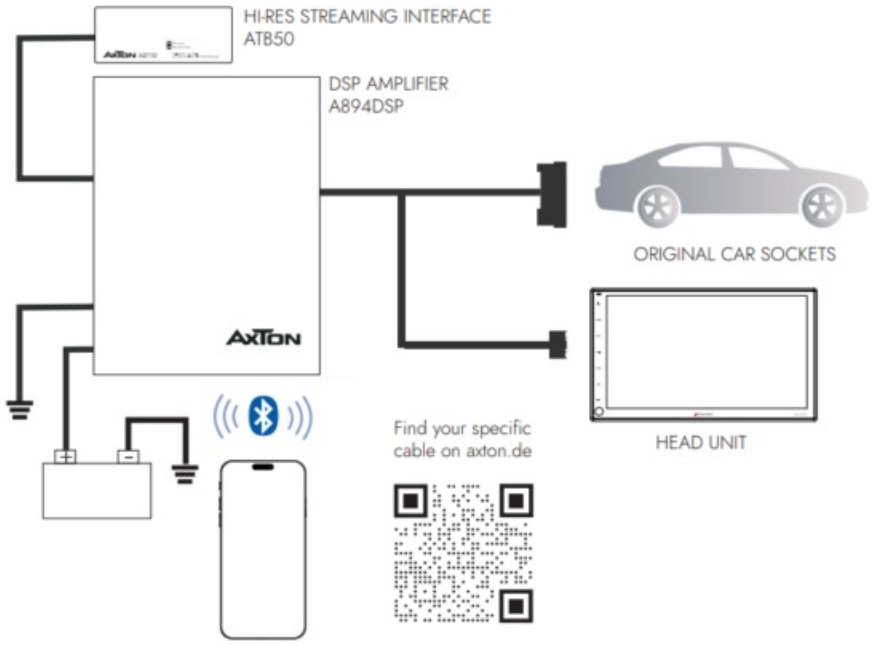
1. Before you start with the installation, make sure you know the security code of your headunit (if applicable).
2. Remove the headunit from the dashboard and disconnect the main wire harness.
3. Find a place for the A894DSP and connect the optionally available car-specific wire harness to the amp.
   4. Run a 16 mm² power wire from the (+) pole of the battery to the (B+) terminal of the amplifier. Use a fuse with a value of min. 30A and max. 50 A. The distance between the B+ pole and the fuse holder must be 30 cm or less. Run the minus cable with the same cross section from the (GND) terminal of the amp to the vehicle

chassis ground, but NOT to the B-pole of the battery. Make sure that the chassis ground contact surface is clean in order to get best conductance.

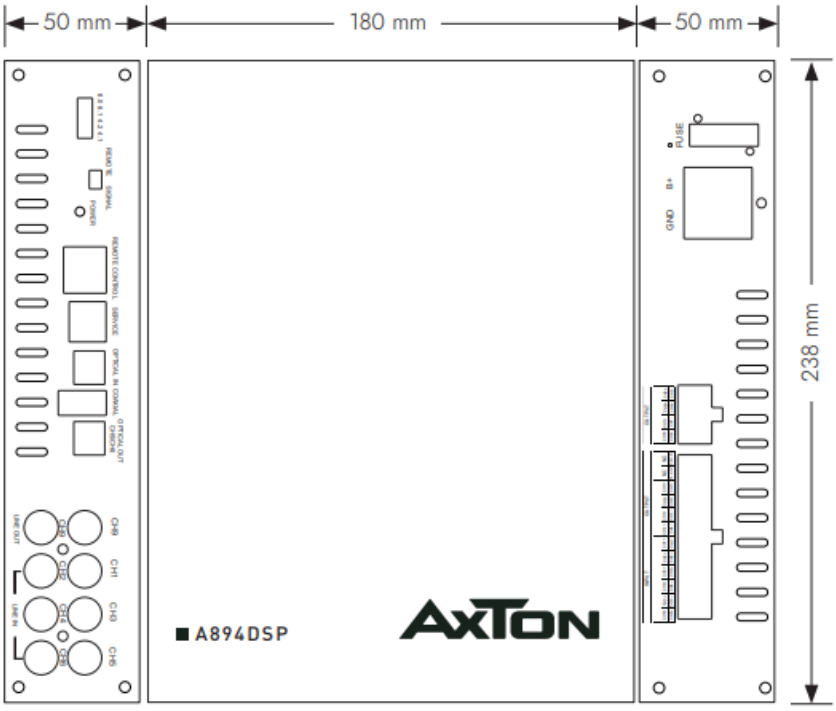
4. Optionally: For Hi-Res Sound from your smartphone: Connect the optical and coaxial cables to the inputs of A894DSP and outputs of the AXTON ABT50. Connect your smartphone via Bluetooth to the ABT50 for using APTX-HD standard or use the AXTON OTG cable for absolutely lossless audio transmission: the signal is sent from your smartphone directly to the amplifier without passing any D/A converter.
5. Optionally: Connect the remote control for convenient operation of the Master Volume, Bass Extender and Mute function. Recommended when using A894DSP without any headunit.
6. Connect the wire to the headunit.
7. Install the headunit back in the dashboard.

**Stand-alone installation**
When you intend to use the A894DSP without any headunit, please connect the provided cable and connect the wires according to the wiring diagram * . Switch (6) * is to be set to “Remote turn on”.

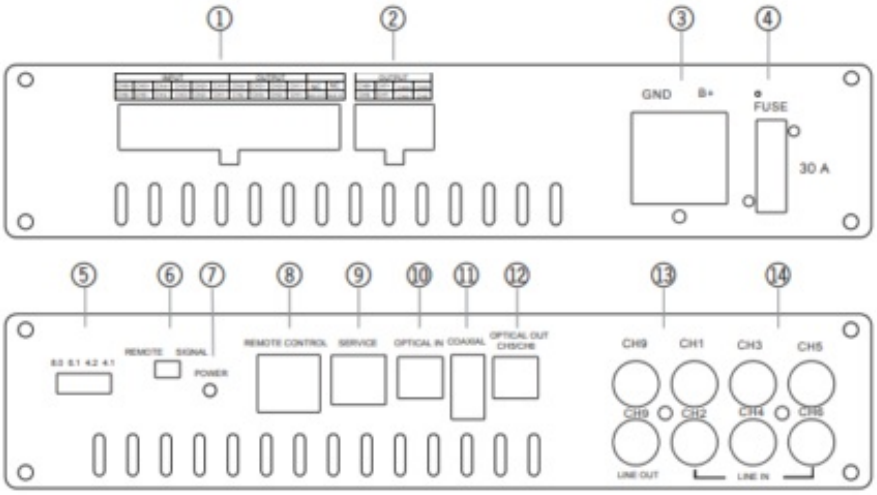
## INSTALLATION DIAGRAM




**DIMENSIONS**




**WIRING**




CH1+ – CH6+ INPUT CH1- – CH4- OUTPUT

| | | | |
|---|---|---|---|
| 1 | CH6+ IN | 13 | CH6- IN |
| 2 | CH5+ IN | 14 | CH5- IN |
| 3 | CH4+ IN | 15 | CH4- IN |
| 4 | CH3+ IN | 16 | CH3- IN |
| 5 | CH2+ IN | 17 | CH2- IN |
| 6 | CH1+ IN | 18 | CH1- IN |
| 7 | CH4+ OUT | 19 | CH4- OUT |
| 8 | CH3+ OUT | 20 | CH3- OUT |
| 9 | CH2+ OUT | 21 | CH2- OUT |
| 10 | CH1+ OUT | 22 | CH1- OUT |
| 11 | NC | 23* | REM Out |
| 12 | NC | 24* | REM In |

| | |
|---|---|
| A | CH8+ OUT |
| B | CH7+ OUT |
| C | CH6+ OUT |
| D | CH5+ OUT |
| E | CH8- OUT |
| F | CH7- OUT |
| G | CH6- OUT |
| H | CH5- OUT |

23 * REM-Out: Connect this wire to the remote input of a separate amplifier, for example a mono amp for a subwoofer. It provides max 0.3 A.

24 * In some cases with old headunits the Auto-Turn-On function cannot work. If you meet this problem, please connect the “ACC-IN” to the ACC/Amp Remote of the car stereo or another cable which will provide +12 V only

when the car stereo is turned on. Secondly select “REMOTE TURN ON” on the remote switch (12).

1. **SPEAKER LEVEL INPUT/OUTPUT**
   This is the main connector with 6 channel input, 4 channel output, ACC-In and REM Out
2. **SPEAKER LEVEL BTL OUTPUT CH5 – CH8**
   This is the connector with 4 channel output. In the content of delivery there are cables for BTL8.0, BTL6.1, BTL4.2 and BTL4.1 mode.
3. **POWER TERMINAL**
   Connect Ground and Battery cables of a OD of min. 16 mm² @ 5m copper cable length.
4. **FUSE**
   If the fuse is broken, replace it with a new fuse of same value (30A).
5. **BTL MODE SELECTION**
   BTL8.0 is for 8-channel stereo mode
   BTL6.1 is for 6-channels stereo mode and 2 channels bridged for Subwoofer
   BTL4.2 is for 4-channels stereo mode and 2x 2 channels bridged for two Subwoofer
   BTL4.1 is for 4-channels stereo mode and 4 channels bridged for one Subwoofer
   The label on the enclosed cables shows the BTL mode and the corresponding channels that are set in the app.
6. **REMOTE / SIGNAL TURN ON**
   Choose if the amp shall turn on by separate ACC+/Remote wire or by DC Offset signal.
7. **POWER**
   Two color LED: Green light shows normal operation. Blue light blinking shows a current data transfer, i.e. receiving data from the app. Red light shows protection mode, i.e. too low impedance.
8. **REMOTE CONTROL**
   Connect the optional RC for convenient operating of Master Volume, Bass Volume and Mute function.
   When you are using the ABT50 with OTG for iPhone for lossless audio transmission, the signal is sent directly avoiding any converter. That’s awesome. But it also means that you are not able to adjust the volume with your iPhone. Therefore you need to connect the separate available RC.
9. **SERVICE**
   For internal use only.
10. **OPTICAL INPUT**
    a) Connect to ABT50 for lossless Hi-Res audio transmission from your smartphone.
    b) Connect another Axton DSP amplifier with optical output.
11. **COAXIAL INPUT**
    This input provides power for the ABT50 and also receives audio data from this device. It’s impossible to connect usual USB sticks.
12. **OPTICAL OUTPUT CH5/CH6**
    To send the signals of CH5 and CH6 to another Axton DSP amplifier with optical input.
13. **LINE OUT CH9**
    If you want to use the A894DSP with a separate high performance mono-amplifier, connect the dual-mono line out of the A894DSP with the RCA input of your amplifier.
14. **LINE IN CH1-CH6**
    Connect the RCA outputs of the headunit to the RCA inputs CH1, CH2, CH3, CH4, CH5 and CH6.

## TECHNICAL SPECIFICATIONS

DSP
DSP type: ……..AKM7735 Dual DSP
ADC: ……2x 24-bit
DAC: ……2x 32-bit
DSP MHz: ……..2x 150 MHz
Audio sampling frequency:……192 kHz
BLUETOOTH
Bluetooth power class: ……..2
Bluetooth power: ……2.5 mW / 4 dBm
Bluetooth range: ……..10 m
Bluetooth Frequency: ……2.4 – 2.48 GHz
AMPLIFIER
RMS / Music Power Output @ 4 ohms: ……..60 W / 120 W x 8
RMS / Music Power Output @ 2 ohms: ……..75 W / 150 W x 8
RMS Power Output BTL4.2-Mode CH5+6 / CH7+8 @ 4 ohms: 230 W x 2
RMS Power Output BTL4.1-Mode CH5+6+CH7+8 @ 4 ohms: .230 W x 1
RMS Power Output BTL4.1-Mode CH5+6+CH7+8 @ 2 ohms: . 400 W x 1
Frequency response: ……20 Hz ~ 20 KHz
High-Level Sensitivity: ……4.2 Vrms
High-Level Impedance: ……39 Ohms
RCA max voltage: ……5 Vrms
Supply voltage range: ……7.5 V – 16.5 V
Signal to noise ratio digital input: ……..> 112 dB
Signal to noise ratio analogue input: ……> 106 dB
THD: ……1 KHz < 0.0133%
Damping factor: ……..>= 200
Standby current: ……..0.23 A
Maximum operating current: ……30 A
Maximum Remote output power: ……0.3 A
Dimensions (WxHxD): ……238 x 50 x 180 mm

## MAIN FEATURES

- 8.1-channel Smart Class-D Amplifier with iOS or Android App controlled audio DSP functions
- 6-channel High-Level Input for the easy connection to an amplified OE sound system
- Dual-Mono DSP-controlled preout (5 Volt) including REM out to control additional amplifiers
- 6-channel RCA pre-input
- Optical and coaxial Input to connect the High-Res Audio interface ABT50 or another Axton DSP
- Optical Output to link the audio signal to another Axton DSP amplifier
- Bluetooth Audio Streaming with automatic source switching
- Plug’N’Play quick installation system by optional vehicle brand and model specific wire harness
- Auto-Turn-On function on high-level input

## FUNCTIONALITY & ADJUSTABILITY

- Freely configurable active crossover: High-/Low-/Band-/Bypass with 6/12/18/24dB/Oct. slope for each channel (Butterworth, Bessel or Linkwitz-Riley)
- Freely configurable 31-band parametric Equalizer for each channel
- Freely configurable 9-band parametric Input-Equalizer for each source
- Gain, Phase switch and Mute function for each channel
- Time Alignment for each channel (0 – 550 cm / 0 – 15.8 ms)
- Can save 5 memories in the amp and unlimited sound settings on the smartphone

- Dynamic Bass setting for powerful performance without subwoofer
- Noise Gate function to reduce car stereo background noise

## APP INSTALLATION

For Android smartphones:

1. Download the A894DSP app from the Google Play Store using the QR code and install the A894DSP app on your Android smartphone.
2. Turn on Bluetooth but do not pair the A894DSP in the Bluetooth settings.
3. Ensure that location access is enabled.
4. Open the A894DSP app and tap the “Connect” button to connect the amplifier with the app.

**For iOS smartphones:**
Scan the QR code or go to the Apple App Store and search for “A894DSP”. Download the app to your smartphone. Turn on Bluetooth but do not pair the A894DSP in the Bluetooth settings. Open the A894DSP app and tap the “Connect” button to connect the amplifier with the app.

Scan to download and install the app from the Apple AppStore

https://apps.apple.com/ch/app/a894dsp/id6479791591

Scan to download and install the app from the Google Play Store

**BLUETOOTH AUDIO**
Open the Bluetooth settings on your smartphone and search for the device “BT Audio”. Press “Connect” and enter the code 1234 to pair your smartphone with the amplifier’s Bluetooth audio module. When you start music playback, the radio signal will automatically mute. Please note that you will not hear any warnings or navigation announcements from the radio during BT audio playback.

## APP FUNCTIONS


**Connect**
Start the app and tap the “Connect” button at the top center of the screen. After a successful connection, the “Connect” button will turn green and the app will load the current settings from the amplifier into the app’s memory.
**Audio Source**
In this menu, you can select the input signal. “Analog” means the speaker signal from the car radio, Bluetooth is for the internal Bluetooth audio module, and Coaxial/Optical are for the corresponding input ports on the side of the amplifier.
If you select the automatic setting, the amplifier switches from the analog input to the other source as soon as music playback from that source starts. When playback is stopped or pausedthe amplifier switches back to the analog input.
**Save to AMP**
After making your settings, tap the “Save to AMP” button and choose a preset to transfer the settings to the amplifier. Do not turn off the amplifier during the saving process as this can cause malfunctions and/or damage.
**Save to Phone**
You can also save the settings on your smartphone. Press the “Save on Phone” button, enter the desired file name, and confirm with “OK”.
**Load File**
Displays the list of files saved on the smartphone. Tap the file name to load the desired setting. If you want to permanently save the loaded file on the amplifier, press the “Save to AMP” button and choose a preset to transfer the settings to the amplifier.
**Load Favorites**
Select one of the favorites 1 – 5. This favorite will remain in the amplifier’s memory and will be used again when the device is restarted.
**Dynamic Bass**

The “Bass” knob is located on the left edge of the main screen and is a very effective way to increase bass performance without overloading the speakers. Level at “0” = no Dynamic Bass function active.
Level from “1” to “20” = the higher the value, the stronger the bass boost.
**Dynamic Treble**

TheThe “Treble” knob is located on the left edge of the main screen and is a very effective way to increase treble performance without overloading the tweeters. Level at “0” = no Dynamic Treble function active.
Level from “1” to “20” = the higher the value, the stronger the treble boost.

**CHANNEL ROUTING**


In this menu, you can assign an input signal to each output channel, including the desired gain level. It is also possible to combine two or more input signals into one output channel. For better clarity, you can also name each channel.

**By default, the channels are configured as follows:**

CH1 – Front Left (FL) – Full Frequency (Full Frc) | Input “INCH1” Gain 0 dB
CH2 – Front Right (FR) – Full Frequency (Full Frc) | Input “INCH2” Gain 0 dB
CH3 – Rear Left (RL) – Full Frequency (Full Frc) | Input “INCH3” Gain 0 dB
CH4 – Rear Right (RR) – Full Frequency (Full Frc) | Input “INCH3” Gain 0 dB
CH5 – SUB-L – Left Sub | Input “INCH1” and “INCH3” Gain 0 dB
CH6 – SUB-R – Right Sub | Input “INCH2” and “INCH4” Gain 0 dB
Channels 7 to 9 are not assigned.
You can restore this preset at any time by selecting “Restore”.
If you want to enter your own configuration, select “Reset” to reset all settings. Each channel will then show “None”, which means that no channel assignment is present.

**Configuration of Multi-Way Front Systems**


**Note:** Please note that each channel name with Full Frc can only be used once: e.g., FL Full Frc or FR Full Frc. So, if you want to actively control a multi-way front system, select the appropriate designations:

**3-Way Front System**

CH1 FL – High Frc (Tweeter) | Input “INCH1” Gain 0 dB
CH3 FL – Mid Frc (Midrange) | Input “INCH1” Gain 0 dB
CH5 FL – Low Frc (Woofer) | Input “INCH1” Gain 0 dB
CH2 FR – High Frc (Tweeter) | Input “INCH2” Gain 0 dB
CH4 FR – Mid Frc (Midrange) | Input “INCH2” Gain 0 dB
CH6 FR – Low Frc (Woofer) | Input “INCH2” Gain 0 dB
For each channel, set all input channels “INCHx” not mentioned above to OFF by sliding the switch to the left.

**2-Way Front System**

CH1 FL – Mid-High Frc (Tweeter) | Input “INCH1” Gain 0 dB
CH3 FL – Mid-Low Frc (Tweeter) | Input “INCH1” Gain 0 dB
CH2 FR – Mid-High Frc (Woofer/Midrange) | Input “INCH2” Gain 0 dB
CH4 FR – Mid-Low Frc (Woofer/Midrange) | Input “INCH2” Gain 0 dB
For each channel, set all input channels “INCHx” not mentioned above to OFF by sliding the switch to the left.

**Center Speaker**

CH7 Front Center (FC) – Full Frequency (Full Frc) | Input “INCH1” and “INCH2” Gain 0 dB For each channel, set all

input channels “INCHx” not mentioned above to OFF by sliding the switch to the left.
This preset also sets the corresponding crossover settings in the Crossover menu. The values are standard to protect the connected speakers during configuration and can be adjusted individually by you.

**Optical Output of CH5 + CH6**

Every setup you are doing for the CH5 and CH6 will also affect the optical output. So especially if you are adjusting the DSP for a 3-way front system, you should route the woofer signal to CH7 and CH8 instead of the suggested CH5 and CH6 above.

**Subwoofer Configuration in BTL Mode**

Output channels 5 to 8 can be bridged in pairs to provide more power for a subwoofer or woofer. In this case, select the appropriate connection cable and set the switch on the side of the device to the correct position.
BTL 8.0 – no bridging of output channels
BTL 6.1 – CH7+CH8 are bridged to a mono channel
BTL 4.2 – CH5+CH6 and CH7+CH8 are each bridged to a mono channel
BTL 4.1 – CH5+CH6+CH7+CH8 are bridged to a mono channel

**Please note that in BTL mode only the main channel is configured in the Channel Routing menu:**

BTL 6.1 CH7 (CH8 is not available for configuration)
BTL 4.2 CH5 and CH7 (CH6 and CH8 are not available for configuration)
BTL 4.1 CH7 (CH5, CH6, and CH8 are not available for configuration)



In this menu, you can apply a delay to the speaker signal to simulate an ideal listening position.
Here’s how to do it: Note the distance between your listening position and the individual speakers. Select the farthest speaker as the reference for the other speakers. Use the following example to calculate the values for your speakers:

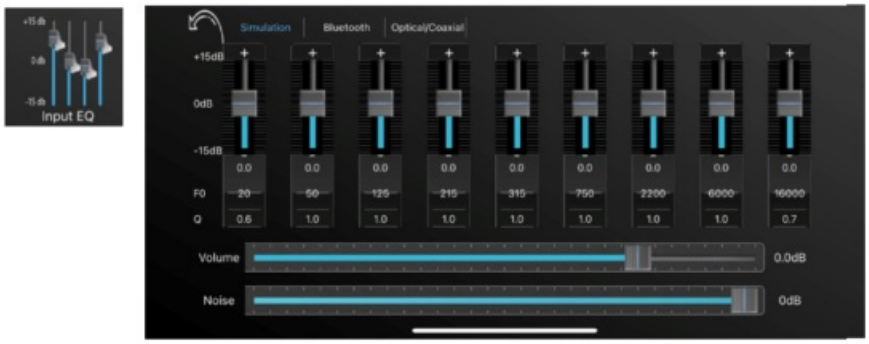
| | | |
|---|---|---|
| (FL) | front left is | 0.80 m from the listening position |
| (FR) | front right is | 1.40 m from the listening position |
| (RL) | rear left is | 0.50 m from the listening position |
| (RR) | rear right is | 1.30 m from the listening position |
| (SubW) | subwoofer is | 2.00 m from the listening position |

| | |
|---|---|
| Value for FL = SubW – FL | FL = 2.00 – 0.80 m |
| Value for FR = SubW – FR | FL = 2.00 – 1.40 m |
| Value for RL = SubW – RL | RL = 2.00 – 0.50 m |
| Value for RR = SubW – RR | RR = 2.00 – 1.30 m |
| SubW remains at the value “0” | |

Due to reflections in the vehicle interior and possibly inaccurate distance measurements, the correct values for the listening position may differ from the calculated values. Feel free to adjust the values by +/- 5 cm until you perceive

a stable and accurate soundstage. If you want an absolutely precise setting, contact your Axton dealer for a professional calibration.

**INPUT EQ**




Depending on the source, it may be necessary to smooth the input signal to achieve a better input signal. This may be necessary for vehicles with a simple OE speaker system without separate tweeters. Some of the OE head units in these vehicles, for example, have an extremely high treble level to get more treble from the full-range speaker. You can set the input EQ for each source separately. You can adjust the input EQ for each source separately.

**F0 – The Center Frequency**

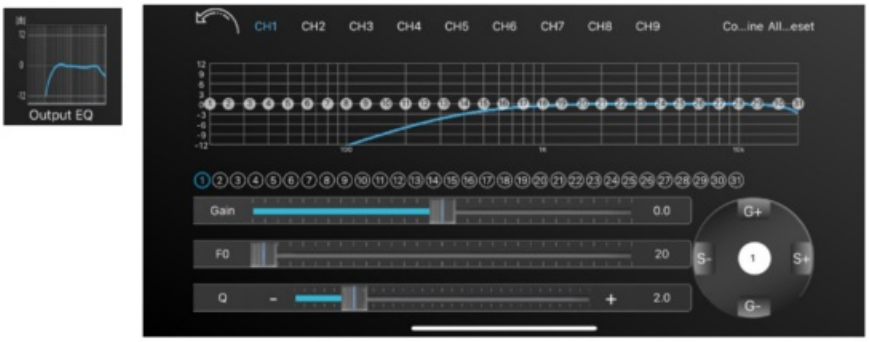
F0 stands for the frequency you want to adjust. You can select a frequency between 20 and 20,000 Hz for each band.

**Q factor**

Q determines the effect of the EQ filter (bandwidth) on the frequency band around the chosen center frequency F0.

Example 1: F0 = 1000 Hz
desired bandwidth of EQ filter = 1000 Hz (i.e. 500 Hz – 1500 Hz)
Q = 1
Example 2: F0 = 1000 Hz
desired bandwidth of EQ filter = 200 Hz (i.e. 900 Hz – 1100 Hz)
Q = 5
Q factors from 0.3 to 9.9 are possible.

**OUTPUT EQ**



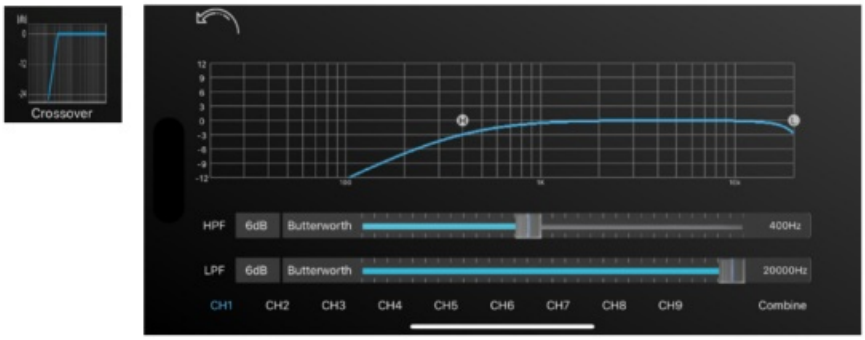

You can create your sound according to your settings in the EQ menu. Depending on the grade of required accuracy, you can adjust up to 31 bands of the parametric equalizer.

**Gain**

With this slider, you determine the level for the selected frequency. Values from -12 dB to +12 dB can be set. Pro tip: Generally, it is advisable to remove energy rather than add it. Frequency dips often have so-called phase cancellations as the cause. Sound waves from different speakers meet at the same frequency but different phases, reducing the overall level at that frequency. If you don't notice any or only minimal effects when increasing the level, keep the value at 0 to avoid unnecessary stress or overload of the speakers.

**F0 – The Center Frequency**
F0 stands for the frequency you want to adjust. You can select a frequency between 20 and 20,000 Hz for each band. Use the slider for this or press the value on the right edge of the slider. A pop-up window will appear where you can enter the exact value of the desired center frequency. Confirm with “Ok” or cancel with “Cancel”.
**Q-factor**
In the “Q” row, set the Q-factor or the bandwidth of the intervention. Use the slider for this or tap “-” or “+” to set the Q-factor in 0.1 steps. The Q-factor (Q) determines the effect of the EQ filter (bandwidth) on the frequency band around the chosen center frequency F0.
**Example** 1: F0 = 1000 Hz
desired bandwidth of EQ filter = 1000 Hz (i.e. 500 Hz – 1500 Hz)
Q = 1
**Example** 2: F0 = 1000 Hz
desired bandwidth of EQ filter = 200 Hz (i.e. 900 Hz – 1100 Hz)
Q = 5
Q factors from 0.3 to 9.9 are possible.
If necessary, you can choose independent equalizer settings for each channel individually or for all left and right channels together. Simply use the “Combine” button at the top right and choose whether you want to copy the values from the left channels to the right or from right to left. To reset all settings to “0”, tap the “Restore All” button at the top right corner. If you only want to try the default settings and then return to your personal settings, exit the app without saving and restart it. The app will then reload your saved settings from the amplifier. The EQ settings also apply to the corresponding preamp outputs.

**CROSSOVER**




InIn this menu, you can assign a frequency band to the connected speakers that corresponds to their recommended frequency range. You can choose independent crossover settings for each channel individually or for all left and right channels together. Simply use the “Combine” button at the bottom right and choose whether you want to copy the values from the left channels to the right or from right to left.
In the “HPF” row below the diagram, you can set the slope of the high-pass filter (OFF, 6 dB, 12 dB, 18 dB, and 24 dB) as well as the filter characteristic (Butterworth, Bessel, Linkwitz) and the cutoff frequency.
In the “LPF” row below the diagram, you can set the slope of the low-pass filter (OFF, 6 dB, 12 dB, 18 dB, and 24 dB) as well as the filter characteristic (Butterworth, Bessel, Linkwitz) and the cutoff frequency.
The blue line in the diagram shows the set slope of the filter. Setting the slope to “OFF” means that the signal is unfiltered and contains all frequencies.
The filter settings also apply to the corresponding preamp outputs.

**GAIN PHASE MUTE**



In this menu, you can make the following settings for each individual channel: volume, mute, and phase. Adjust the gain using the slider or the +/- buttons.
Tap on 0 degrees in the second-to-last column to switch between 0 degrees phase or 180 degrees phase (reversed electrical phase).
Tap on Mute to mute or unmute the channel.
The settings for Gain/Phase/Mute also apply to the corresponding preamp outputs.

## WARRANTY SLIP

Model name: A894DSP
Date of purchase:
Your name :
Your address :
City:
ZIP or Postal Code :
Country:

Your Dealer:

**EU Declaration of Conformity**
ACR Braendli + Voegeli AG hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU and 2011/65/EU. The EU declaration of conformity may be found at:
**https://www.acr.eu/en/eu-product-conformity/**
Recyling: This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This meansthat this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.
User has the choice to give his product to a competent recycling organization or to the retailer when a new electrical or electronic equipment item is purchased.

**WARRANTY CONDITIONS + LIMITATIONS**

**What products are covered by AXTON's limited Warranty?**
The limited Warranty (the "Warranty") applies to AXTON products purchased from an authorized dealer by end customers in the European Economic Area or Switzerland ("Territorial Scope").
**What is the validity period of AXTON's Warranty?**
Under this Warranty, AXTON warrants, for a period of 2 years, that the product is free from defects in material and/or workmanship at the time of the original purchase. This 2-year period commences on the date of the original purchase as per the original invoice or until receipt. If you have purchased the product as a consumer, and the defect is identified within the first six months after the original purchase (see above), we will assume that the defect already existed at the time of purchase.
**Who can claim under the Warranty?**
AXTON grants the limited Warranty to natural persons only, who purchased the relevant product primarily for personal use.
**What is covered by the Warranty?**

AXTON warrants that the product is free from defects in material and/or workmanship at the time of the original purchase. AXTON does not, however, provide a warranty covering every defect and damage that may occur. It only covers the hardware components of the device, and in no event the software used with the device, regardless if this was provided by AXTON or the third-party vendor. The Warranty therefore does not cover the following cases, in particular:

• normal wear and tear (such as to surfaces and protective coverings);
• superficial damage, such as scratches, dents, and damaged plastic, worn or mechanically defective connections;
• misuse, including any treatment resulting in physical or superficial damage, such as a cosmetic defect, to the product;
• damage caused by connecting or using the product for a purpose other than those specified, or a failure to observe the operating and/or installation instructions for the particular model;
• installation or use of the product contrary to the applicable technical standards, or the safety regulations in the country in which the product is installed or used;
• damage caused through an unauthorized attempted repair, or an attempted repair by someone other than a AXTON authorized service partner;
• damage caused by modifications to the product not expressly authorized by the manufacturer;
• damage caused by malicious code (“Software Viruses”) or by using software not supplied with the product or which was incorrectly installed;
• use of third party vendor software programs for editing, modifying, adapting, or extending AXTON’s authorized software components as are run on the product;
• use of third-party vendor firmware/operating system software
• damage caused by liquids or chemicals of whatever type, and/or excessive temperatures, moisture, or damp;
• accidents, drops or other such effects of extreme accelerating forces;
• damage caused by lightning strikes, electrostatic charge, incorrect operating voltage, water, fire, force majeure, inadequate ventilation for other reasons for which AXTON is not responsible;
• damage caused by using the device outside of the defined specifications;
• damage caused by using the product with other systems or devices, which are not designed to be used with this product;
• adjustments or modifications without AXTON‘s prior written approval, including product upgrades extending beyond the specifications or characteristics described in the operating manual;
• modifications of the product for the purpose of adapting it to national or local technical norms or safety standards of countries for which the product was not expressly designed or manufactured;
• using service or spare parts not produced or distributed by AXTON;
• using the product in connection with accessories not approved for use with this product;

AXTON, moreover, does not warrant (expressly, implicitly, statutorily, or otherwise) the quality, performance, reliability or suitability of the product for a particular purpose except as described, nor the software/firmware installed on the device ex works.

No warranty service will be provided, moreover, if the model number /serial number/UUID/product number on the product is changed, erased, made illegible or removed. The same applies if the receipt or invoice is incomplete and/or illegible when presented.

**Is AXTON liable for other defects or damage?**

AXTON will repair or replace products, only if they are covered by the terms of this Warranty. AXTON is not liable for any material or intangible loss or damage such as the price paid for the product, loss of profits, revenue, data, or relating to the enjoyment of the product or components associated with it, arising directly or indirectly under this Warranty or otherwise in relation to products or services. This likewise applies to loss or damage relating to the impairment or operational failure of the product, or devices associated with it, caused by defects or the non-availability of the product during the time it is with AXTON or AXTON’s service partner, as well as to periods of downtime and business interruptions. In addition, AXTON does not accept any liability for shipment-related risks – such as the loss or destruction of the product – in connection with the fulfilment of the Warranty.

This disclaimer applies to losses of damage irrespective of the legal basis, especially on the grounds of negligence, other wrongful conduct (torts), breach of contract, express or implied guarantees, and strict liability (even if AXTON or its service partner has been advised of the possibility of such damage occurring).

If these disclaimers are prohibited or limited under the applicable law, AXTON will limit its Warranty and liability to the extent permissible under the applicable regulations. For example, some national laws prohibit the exclusion or limiting of damages payable in connection with negligence, gross negligence, willful wrongdoing, deceitful conduct, and other such acts. For the duration of this Warranty, all liability that cannot be excluded completely will be limited to the extent permissible under the applicable law. Liability under this Warranty is limited to the price paid for the product. If the applicable law only permits higher limits on any liability, this higher limitation will apply.

**How do I exercise my Warranty rights?**

If you want to exercise your entitlements under this Warranty, please contact the authorized dealer where the product was purchased, and present it with the original copy of the till receipt or invoice. Do not return any products to AXTON directly, otherwise our Warranty obligations cannot be fulfilled. You will find the name of the relevant dealer or reseller on your proof of purchase.
Defective devices sent by the authorized dealer to the service center, must also be accompanied by any accessories with a logical connection to the observed fault. This means, for example, the navigation package on an SD or microSD card supplied or purchased with the device, if problems or functional errors were observed in connection with the navigation function.

**How will AXTON fulfil its Warranty?**

AXTON or its service partner will choose to either repair or replace the product or its defective parts covered by the Warranty, and assume the costs of material and labor in doing so.
Repairs under the Warranty must be carried out by AXTON or its authorized service partner. Products that are repaired or replaced may contain new and/or refurbished components and devices. Components that are swapped out will become the property of AXTON.

**Will I incur any costs in connection with the Warranty service?**

AXTON assumes the costs of material and labor in connection with its Warranty service. The Warranty holder is responsible for the costs of shipment and bears the risks connected with the shipment (see above). If the product is found to be operating faultlessly, or there is no warranty entitlement because the warrant period has expired or for any other reason, AXTON or its authorized service partner will be entitled to charge a flat-rate investigation fee of €30.00.

**Do this Warranty affect my statutory or contractual rights?**

This Warranty is made voluntarily by AXTON, and it will, in any case, extend your statutory rights. As a consumer, you remain fully entitled to your statutory rights, such as the statutory guarantee. This Warranty also has no effect whatsoever on your contractual rights against the reseller. You may continue to exercise these rights in full.

EU Legal Representative: ACR S & V GmbH, Industriestraße 35, D-79787 Lauchringen, Germany Manufacturer: ACR, Brändli + Vögeli AG, Bohrturmweg 1, CH-5330 Bad Zurzach, Switzerland Designed and Engineered in Switzerland, Made in China

Rev. A

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## Documents / Resources

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|---|---|
|   | AXTON A894DSP Mono Power Amplifier [pdf] Instruction Manual<br>A894DSP Mono Power Amplifier, A894DSP, Mono Power Amplifier, Power Amplifier, Amplifier |

## References

- User Manual