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AUDIOTEC FISCHER UP 8DSP 8-Channel Upgrade Amplifier

AUDIOTEC FISCHER UP 8DSP 8-Channel Upgrade Amplifier Instruction Manual

Contents

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AUDIOTEC FISCHER UP 8DSP 8-Channel Upgrade Amplifier

Specifications:

- **Product Name:** UP 8DSP UPGRADE
- **Channels:** an 8-channel amplifier with integrated 9-channel 64-bit DSP
- Universal applications

Congratulations!

Dear Customer,

Congratulations on your purchase of this innovative and high-quality MATCH product. Thanks to more than 30 years of experience in research and development of audio products this amplifier sets new standards in the range of digital amplifiers. We wish you many hours of enjoyment with your new MATCH UP 8DSP.

Yours,
AUDIOTEC FISCHER

General instructions

General installation instructions for MATCH components

To prevent damage to the unit and possible injury, read this manual carefully and follow all installation instructions. This product has been checked for proper function prior to shipping and is guaranteed against manufacturing defects. Before starting your installation, disconnect the battery's negative terminal to prevent damage to the unit, fire and / or risk of injury. For a proper performance and to ensure full warranty coverage, we strongly recommend to get this product installed by an authorized MATCH dealer. Install your UP 8DSP in a dry location with sufficient air circulation for proper cooling of the equipment. For safety reasons, the UP 8DSP must be professionally installed. Therefore, use the two mounting plates that are included in the delivery. These are attached to the bottom of the amplifier with two short screws which are included in delivery, too. When screwing the amplifier to the vehicle chassis, carefully examine the area around and behind the proposed installation location to ensure that there are no electrical cables or components, hydraulic brake lines or any part of the fuel tank located behind the mounting surface. Failure to do so may result in unpredictable damage to these components and possibly costly repairs to the vehicle.

**General instruction for connecting the UP 8DSP amplifier**

The UP 8DSP amplifier may only be installed in motor vehicles that have a 12 Volts negative terminal connected to the chassis ground. Any other system could cause damage to the amplifier and the electrical system of the vehicle. The positive cable from the battery for the entire sound system should be provided with a main fuse at a distance of max. 30 cm from the battery. The value of the fuse is calculated from the maximum total current draw of the car audio system. Use only the included MATCH cable or an optionally available MATCH cable harness for connection of the UP 8DSP. The use of other cables can result in damage of the amplifier, the head unit / car radio or the connected loudspeakers! The fuses of the amplifier may only be replaced by identically rated fuses (2 x 25 A) to avoid damage of the amplifier. Prior to installation, plan the wire routing to avoid any possible damage to the wire harness. All cabling should be protected against possible crushing or pinching hazards. Also avoid routing cables close to potential noise sources such as electric motors, high-power accessories and other vehicle harnesses.

Connectors and control units
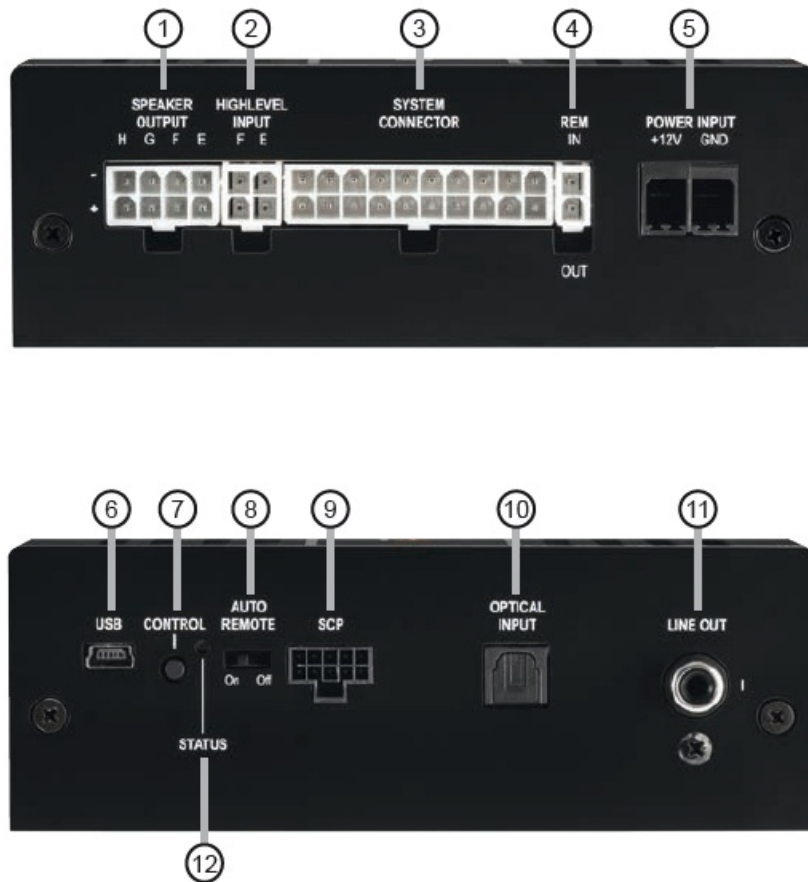
1. Speaker Output E – H
2. High-level Input E & F
3. System Connector input
4. Remote connectors
5. Power connector
6. input
7. Control pushbutton
8. Auto Remote switch
9. SCP (Smart Control Port)
10. Optical Input
11. Line Output
12. Status LED

Hardware configuration
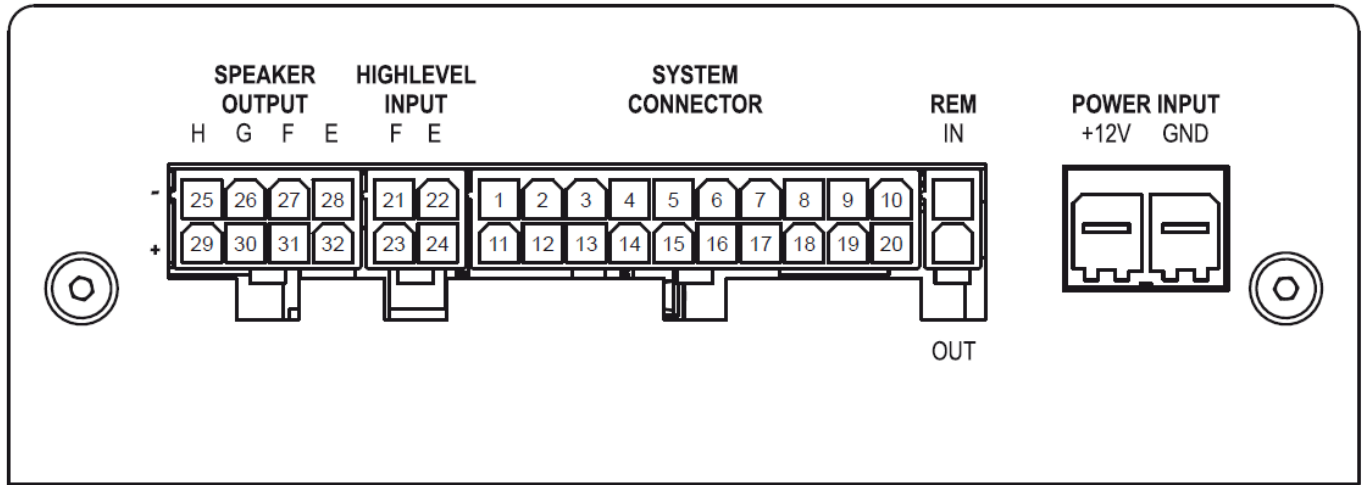
1. System Connector
2. High-level loudspeaker input rear left (-) / C
3. High level loudspeaker input front left (-) / A
4. High-level loudspeaker input front right (-) / B
5. High-level loudspeaker input rear right (-) / D
6. Loudspeaker output rear right (-) / D
7. Loudspeaker output rear left (-) / C
8. Loudspeaker output front right (-) / B
9. Loudspeaker output front left (-) / A
10. **Ground* / Warning:** Do not use this pin!
11. **Ground* / Warning:** Do not use this pin!
12. High-level loudspeaker input rear left (+) / C
13. High-level loudspeaker input front left (+) / A
14. High-level loudspeaker input front right (+) / B
15. High-level loudspeaker input rear right (+) / D
16. Loudspeaker output rear right (+) / D
17. Loudspeaker output rear left (+) / C
18. Loudspeaker output front right (+) / B
19. Loudspeaker output front left (+) / A
20. **+12 Volts* / Warning:** Do not use this pin!
21. **+12 Volts* / Warning:** Do not use this pin!

High-level Input E – F

1. High-level loudspeaker input channel F (-)
2. High-level loudspeaker input channel E (-)
3. High-level loudspeaker input channel F (+)
4. High-level loudspeaker input channel E (+)

Speaker Output E – H

1. Subwoofer output 2 (-) / H

2. Subwoofer output 1 (-) / G

3. Loudspeaker output F (-)

4. Loudspeaker output E (-)

5. Subwoofer output 2 (+) / H

6. Subwoofer output 1 (+) / G

7. Loudspeaker output F (+)

8. Loudspeaker output E (+)

Overview connection cables

1. System Connector connection cable

2. Speaker Output E – H connection cable

3. Highlevel Input E – F connection cable

4. Remote (REM IN / OUT) connection cable

Pin assignment Power Input plug

- +12 V – for connecting the UP 8DSP to the positive terminal of the car´s battery.
- B GND – for connecting the ground cable.

Configure the MATCH UP 8DSP as follows
Caution: Carrying out the following steps will require special tools and technical knowledge. In order to avoid connection mistakes and/or damage, ask your dealer for assistance if you have any questions and follow all instructions in this manual (see page 19). It is recommended that this unit will be installed by an authorized MATCH dealer.

1. **Connecting the System Connector**

    1. **Connecting the high-level speaker inputs A – D:**

        The high-level loudspeaker inputs can be connected directly to the loudspeaker outputs of an OEM radio

or aftermarket radio by using the enclosed MATCH connection cable. It is not mandatory to use all high-level speaker inputs. It is sufficient if two of four high level loudspeaker inputs are connected. With the DSP PC-Tool software, it is possible to route the input signals to the 9 output channels individually. Make sure that the polarity is correct. If one or more connections have reversed polarity it may affect the performance of the amplifier. If this input is used the remote input (REM IN) does not need to be connected as the amplifier will automatically turn on once a loudspeaker signal is received.

2. **Connecting the loudspeaker outputs A – D:**

   The loudspeaker outputs can be connected directly to the wires of the loudspeakers by using the enclosed MATCH connection cable. Never connect any of the loudspeaker cables to the chassis ground as this will damage your amplifier and your speakers. Ensure that the loudspeakers are correctly connected (phase), i.e. plus to plus and minus to minus. Exchanging plus and minus causes a total loss of bass reproduction. The plus pole is indicated on most speakers. The impedance per channel must not be lower than 4 Ohms, otherwise the amplifier protection will be activated.

   Attention: Solely use the System Connector connection cable which is included in delivery or an appropriate cable harness from the MATCH accessories program for connection!

2. **Connecting the high-level speaker inputs E & F (optionally)**

   The high-level loudspeaker inputs E & F can be connected directly to the loudspeaker outputs of an OEM radio or aftermarket radio using the enclosed MATCH connection cable. Make sure that the polarity is correct. If one or more connections have reversed polarity it may affect the performance of the amplifier. If this input is used the remote input does not need to be connected as the amplifier will automatically turn on once a loudspeaker signal is received.

   Attention: Solely use the connection cable with the 4-pole connector and flying leads which is included in delivery or an appropriate cable harness from the MATCH accessories program!

3. **Optional: Connecting the speaker outputs E – H**

   The loudspeaker outputs allow to connect speaker systems using the included connection cable as well as subwoofers to the two power channels G & H Never connect any of the loudspeaker cableswith the chassis ground as this will damage your amplifier and your speakers. Ensure that the loudspeakers are correctly connected (in phase), i.e. plus to plus and minus to minus. Exchanging plus and minus causes a total loss of bass reproduction. The plus pole is indicated on most speakers. The impedance of the speakers must not be lower than 4 Ohms for channels E – F and 2 Ohms for channels G and H, otherwise the amplifier protection will be activated. Attention: Solely use the connection cable with the 8-pole connector and flying leads which is included in delivery for connecting further loudspeakers or an appropriate cable harness from the MATCH accessories program!

4. **Connecting a digital signal source**

   If you have a signal source with an optical digital output you can connect it to the amplifier using the appropriate input. The sampling rate must be between 12 and 96 kHz. The input signal is automatically adapted to the internal sample rate. In standard configuration the manual activation via an optional remote control is configured. Alternatively you can activate the automatic turn-on feature in the DCM menu of the DSP PC-Tool software. The automatic turn-on circuit does not work when the digital input is used. Therefore it is mandatory to connect the remote input (REM IN / page 20, point 4).

   Important: The signal of a digital audio source normally does not contain any information about the volume level. Keep in mind that this will lead to full level on the outputs of the UP 8DSP and your connected amplifiers. This may cause severe damage to your speakers. We strongly recommend to use an optional remote control for adjusting the volume level of the digital signal inputs!

Note: The MATCH UP 8DSP can only handle uncompressed digital stereo signals in PCM format with a sample rate between 12 kHz and 96 kHz and no MP3- or Dolby-coded digital audio stream!

5. **Configuration of the remote input**

   The UP 8DSP will be turned on automatically if the high level inputs of the System Connector and / or the High level Inputs E & F are used or if a signal is applied to the remote input terminal. The Auto Remote switch (page 20, point 8) allows to deactivate of the automatic turn-on feature of the high level inputs. The feature should be deactivated if there are e.g. noises while switching on/off the amplifier.

   On: Activation via high-level speaker input is enabled (by default).

   Off: Activation via high-level speaker input is disabled.

   Note: If the automatic turn-on function is deactivated it is mandatory to use the remote input terminal to power up the amplifier!

6. **Connecting the remote connectors**

   Only connect the remote wires using the 2-pole connection cable with the flying leads which is included in delivery (page 22, fig. 2) or an appropriate cable harness from the MATCH accessories program.

   REMIN: The remote input has to be used to turn on / off the amplifier if the signal source which is connected to the System Connector or Highlevel Input E & F is not activating the "automatic turnon" function (Auto Remote) or if the amplifier shall only be activated/deactivated by a remote signal applied to the remote input. The remote wire should be connected to the remote output / automatic antenna (aerial positive) output of the head unit / car radio. This is only activated if the head unit is switched on. Thus the amplifier is switched on and off together with the head unit. We do not recommend controlling the remote input via the ignition switch to avoid pop noise during turn on / off.

   Note: This input does not need to be assigned if one of the high-level inputs A – F is used. To deactivate the "automatic turn-on" function read the description in point 5 "Configuration of the remote input".

   REM OUT: The remote output is used for turning on / off an amplifier that is connected to the pre-amplifier output (Line Out) of the MATCH UP 8DSP. Therefore connect the remote output of the UP 8DSP to the remote input of your amplifier to switch it on and off via the internal DSP without interfering signals. The remote output is activated automatically as soon as the booting process of the DSP is completed. Additionally this output will be turned off during the "Power Save Mode" or a software update process. Important: Never use a different signal than the remote output of the UP 8DSP to activate a connected amplifier!

7. **Connection to power supply**

   Make sure to disconnect the battery before installing the MATCH UP 8DSP! Solely use the Power Input plug which is included in delivery for connection. Make sure of correct polarity.

   +12 V: Connect the +12 V power cable to the positive terminal of the battery. The positive wire from the battery to the amplifier power terminals needs to have an inline fuse (50 A) at a distance of less than 12 inches (30 cm) from the battery. If your power wires are short (less than 1 m / 40") then a wire gauge of 6 mm² / AWG 10 will be sufficient. In all other cases we strongly recommend gauges of 10 – 16 mm² / AWG 8 – 6!

   GND: Connector for the ground cable. The ground wire must be connected to the vehicle chassis at a non-insulated point. The cable should have the same gauge as the +12 V wire. Inadequate grounding causes audible interference and malfunctions.

8. **Connecting the PC & first start-up**

   The USB input enables the connection of the UP 8DSP to a personal computer and its free configuration with our DSP PC- Tool software using the provided USB cable.

   Please note: It is not possible to connect any USB storage devices. Prior to connecting the amplifier to your

PC visit our website and download the latest version of the DSP PC-Tool software. We strongly recommend to carefully read the DSP PC-Tool knowledge base before using the software for the first time in order to avoid any complications and failures. Important: Make sure that the amplifier is not connected to your computer before the software and USB driver are installed!

In the following the most important steps how to connect and the first start-up are described:

1. Download the latest version of the DSP PC-Tool software (available on our website www.audiotec-fischer.com) and install it on your computer.
2. Connect the amplifier to your computer using the USB cable that is included in delivery. If you have to bridge longer distances please use an active USB extension cable with integrated repeater.
3. First turn on the amplifier and then start the software. The operating software will be updated automatically to the latest version if it is not up-to-date.

9. Adjustment of the input sensitivity of the analog inputs

ATTENTION: It is mandatory to properly adapt the input sensitivity of the UP 8DSP to the signal source in order to avoid damage to the amplifier.

The input sensitivity can be optimally adapted to the signal source using the DSP PC-Tool software. Input sensitivity is factory set to 11 Volts. This is definitely the best setting in most applications. Only if the head unit / car radio doesnt deliver enough output level, the input sensitivity should be increased.

**Note:** Mute all signal outputs of the UP 8DSP during this setup.

For adjustment of the input sensitivity please proceed as follows:

1. Turn on the amplifier.
2. Start the DSP PC-Tool software.
3. The adjustment of the input sensitivity can be found in the "Signal Management" tab of the DCM menu under the item "Main Input → Input Gain".
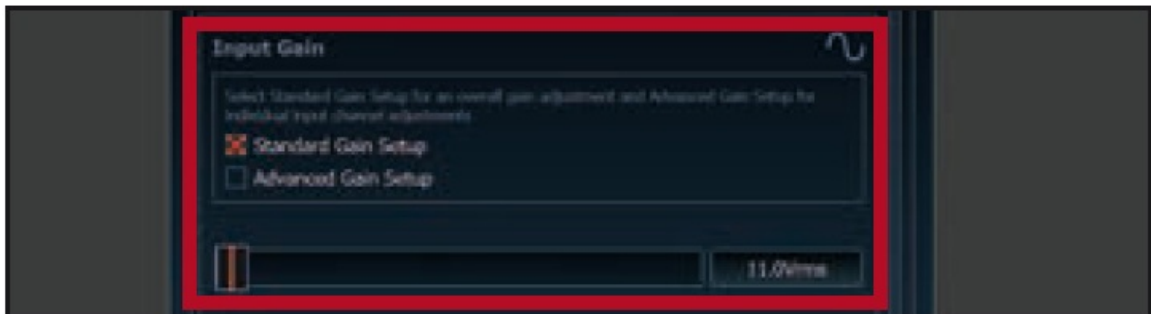
4. Select the setup method to adjust the input sensitivity.

   **Standard Gain Setup:** This method allows to globally set the input sensitivity for all input channels.
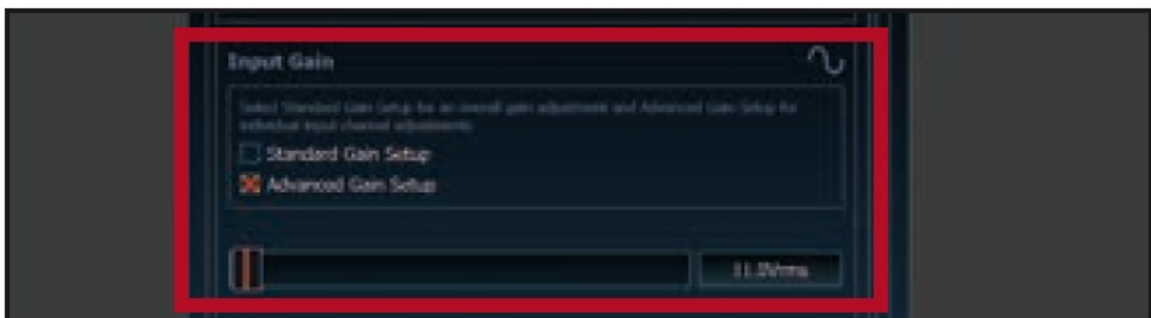
   Advanced Gain Setup: This method allows an individual setting for each channel pair.

Input	Gain	Sensitivity	Solo	Voltage Range
Input A & B Front L Full & Front R Full		11.0 Vrms	☐	11 Vrms
Input C & D Rear L Full & Rear R Full		11.0 Vrms	☐	11 Vrms
Input E & F Subwoofer 1 & Subwoofer 2		11.0 Vrms	☐	11 Vrms

5. Adjust the volume of your radio to approx. 90 % of the max. volume and playback an appropriate test tone, e.g. pink noise (0 dB).

6. If the clipping indicator in the DSP PC-Tool already lights up (see picture below), you have to reduce the input sensitivity using the scroll bar until the indicator turns off.

7. Increase the input sensitivity until the clipping indicator lights up. Now turn the control back until the indicator turns off again.
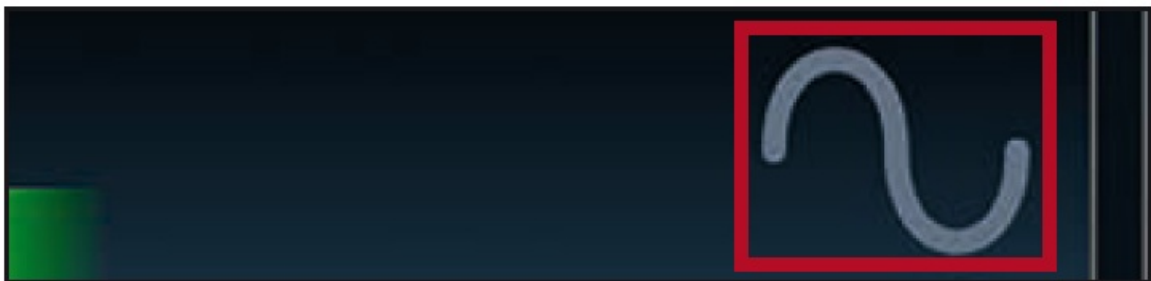
10. **Configuration of the internal DSP**

The general amplifier settings should be conducted with the DSP PC-Tool software before using the amplifier for the first time. Now you are able to configure your UP 8DSP with our intuitive DSP PC-Tool software. Useful hints for the correct setting can be found in our knowledge base at **www.audiotec-fischer.com**.

Caution: We highly recommended to set the volume of your car radio to minimum position and to mute all signal outputs. Especially if the UP 8DSP will be used in fully active applications, a wrong setup can destroy your speakers right away.

11. **Analyzing the input signal**

Check the input signal for factory-set equalizing and all-pass filters using the Input Signal Analyzer (ISA) of the DSP PC-Tool software. Information about the ISA can be found in the extensive Knowledge Base on our website **www.audiotec-fischer.com**.

Caution: We highly recommend to set the volume of your car radio to minimum position during first start-up. Additionally no device should be connected to the amplifier until general settings in the DSP PC-Tool software have been made. Especially if the UP 8DSP will be used in fully active applications, a wrong setup can destroy your speakers right away.

12. **Optional: Connecting the pre-amplifier output**

The Line Out is a mono floating-ground low-level output for connecting an additional power amplifier. This output can now be connected to the pre-amplifier / lowlevel / RCA input of the external amplifier using an appropriate cable (RCA / Cinch cables). The output provides a maximum output voltage of 3 Volts RMS. Please make sure that you always turn on / off the external amplifier using the remote output (REM OUT) of the UP 8DSP in order to avoid interfering noises.

13. **Sound tuning**

Now you can create your sound setup. Information about sound tuning can be found in our extensive knowledge base at audiotec-fischer.com or contact your local MATCH dealer

Product Usage Instructions:

Anschluss- und Bedienelemente

The amplifier comes with various connectors and controls for easy installation and operation:

- System Connector for high-level speaker inputs and speaker outputs
- Power supply connection
- USB input for connectivity
- Control button for adjustments
- Auto Remote switch for remote control
- SCP (Smart Control Port) for additional control
- Optical Digital Input for digital audio signals
- Status LED for visual indication

Hardware Configuration

The hardware setup involves connecting the amplifier to various components as per the pin configuration provided in the manual. Ensure correct connections for proper functionality.

Configuring the MATCH UP 8DSP

1. Adjust input sensitivity cautiously if the source signal is too low.
2. If the clipping indicator in the DSP PC-Tool is active, reduce input sensitivity until clipping indicator turns off.

Additional functions

1. **Status LED**

The Status LED indicates the operating mode of the amplifier and of the DSP memory.
- **Green:** Amplifier is ready for operation.
- **Orange:** Power Save Mode is activated.
- **Red:** Protection Mode is active. This may have different root causes. The amplifier is equipped with protection circuits against over- and undervoltage as well as overheating. Please check for connecting failures such as short-circuits or other wrong connections. If the amplifier is overheated the internal temperature protection switches off the remote and signal output until it reaches a safe temperature level again.

- **Red / green slow flashing:** No operating software installed. Connect the amplifier to the DSP PC-Tool software and confirm the automatic update of the operating system. You will find the latest version of the DSP PC-Tool software at **www.audiotec-fischer.com**.

  Red / green fast flashing: The currently selected sound setup memory is empty. A new setup has to be loaded via the DSP PC-Tool software or switch to a memory position with existing sound setup.

2. **Control pushbutton**

   The UP 8DSP provides 10 internal memory locations for sound setups. The Control pushbutton allows the user to switch between two memory positions. These can be defined in the DSP PC-Tool. In addition a device reset can be made by pressing the button for a longer period.

   1. **Setup switch:** Press Control pushbutton for 1 second. The memory locations one and two are defined by default. Switching is indicated by a single red flash of the Status LED. Alternatively, the optional URC.3 remote control can be used for switching. To switch between all internal memory locations, optional accessories like the DIRECTOR display remote control or CONDUCTOR are required.

   2. **Device reset:** Press pushbutton for five seconds. This completely erases the internal memory and is indicated by a continuous red glowing and constant green flashing of the Status LED.

      Attention: After erasing the setups from memory the UP 8DSP will not reproduce any audio output until the device is updated via the DSP PC-Tool software.

3. **SCP (Smart Control Port)**

   This multi-functional input is designed for MATCH UP 8DSP accessory products like a remote control which allows to adjust several features of the amplifier. Depending on the type of remote control, at first its functionality has to be defined in the "Device Configuration Menu" of the DSP PC-Tool software.

   Attention: If the accessory product does not have a NanoFit connector solely use the NanoFit adaptor which is included in delivery for connection.



NanoFit adaptor

Configuration examples

Example 1: Channel routing with Virtual Channel Processing
4-channel head unit > Front: 2-way fully active; Rear: 2-way passive + 2-way passive center + Line Out for external subwoofer
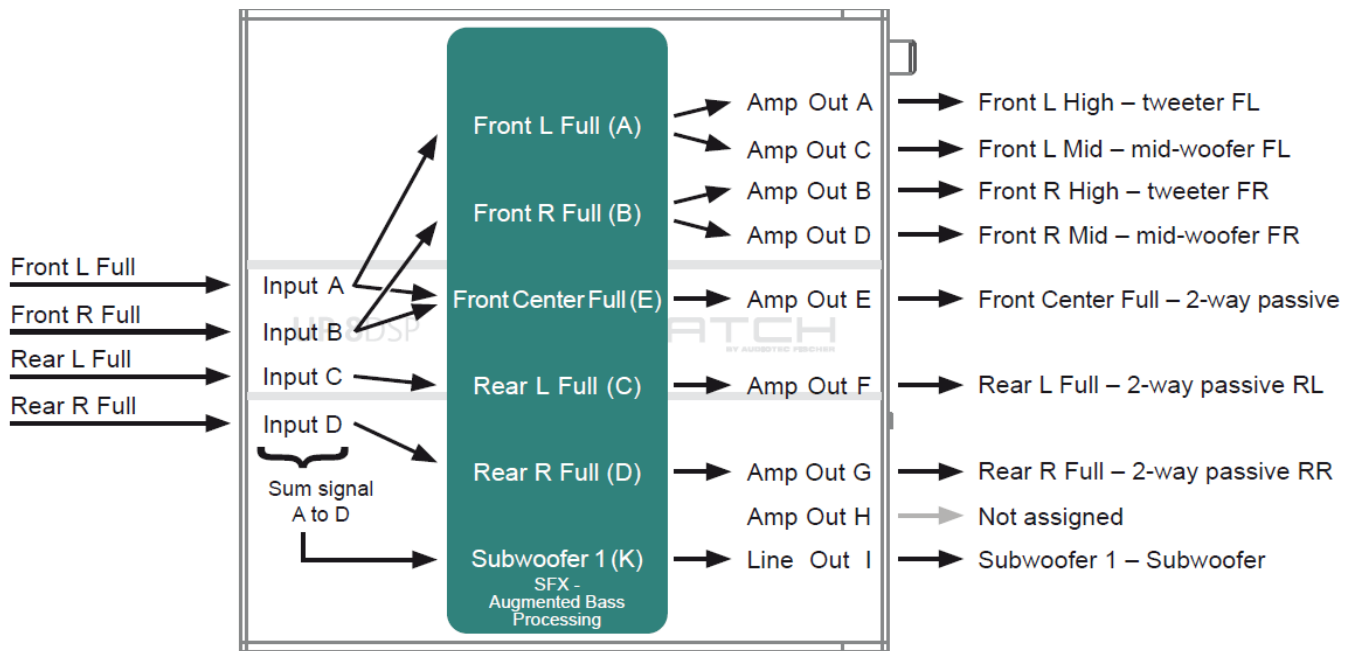
- From car radio
- Inputs
- Virtual channels
- Outputs
- To speakers

Example 2: 8-channel 1 to 1 channel routing (IOR) e.g.: Front 2-way fully active / Rear 2-way passive / two subwoofer with single voice coil (1 x 2 Ohms) – only in combination with the optional MEC ANALOG IN module
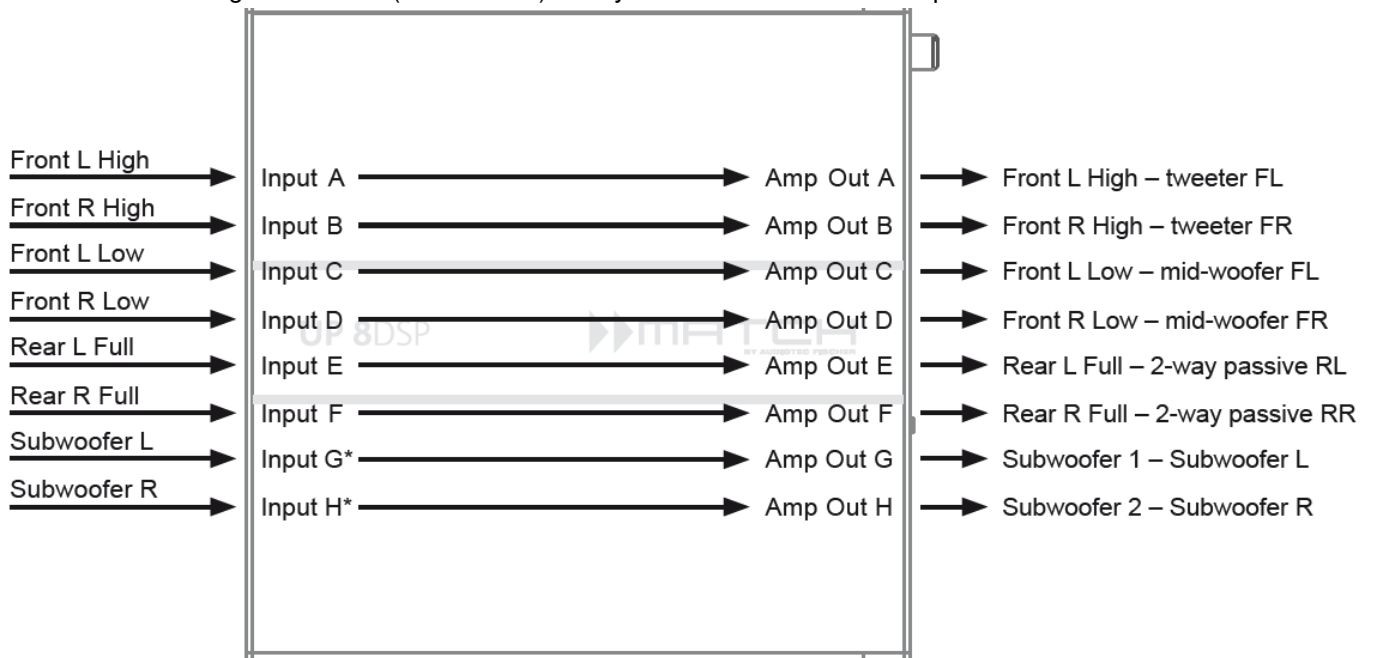
* The high power signal inputs G & H of the MEC ANALOG IN module
 are routed to the high power subwoofer channels G & H..
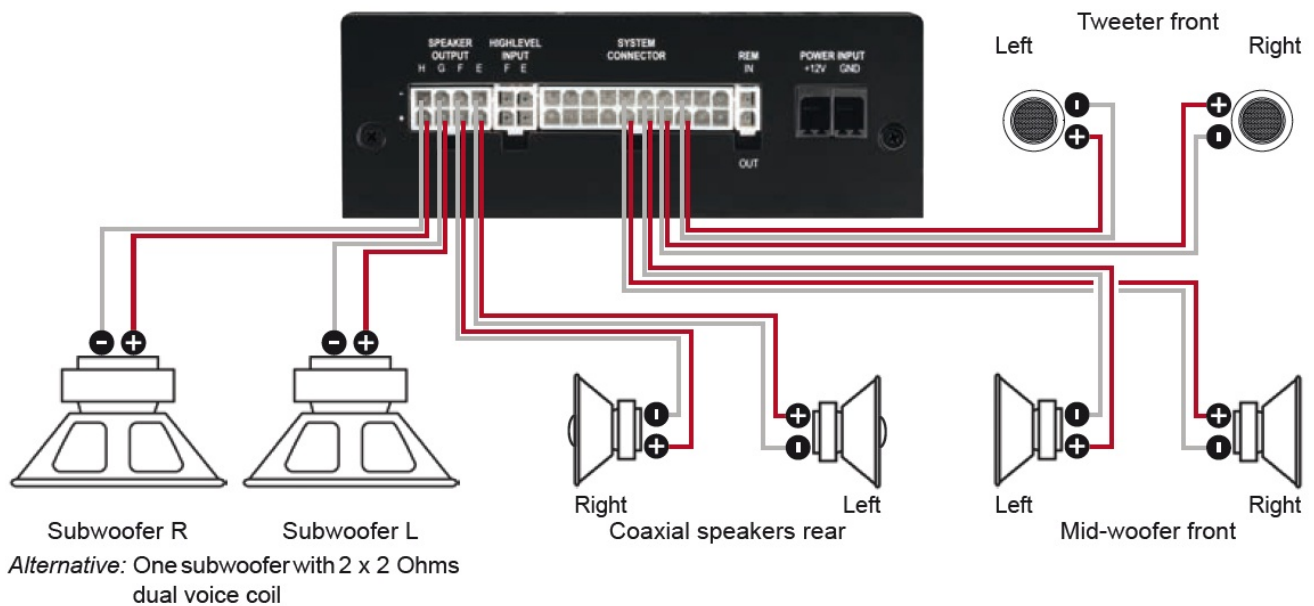
- From factory amplifier
- Inputs
- Outputs
- To speakers

The high power signal inputs G & H of the MEC ANALOG IN module are routed to the high power subwoofer channels G & H.

A basic DSP setup can be found at **www.audiotec-fischer.de** under Tools → Sound Setups. For further applications please contact your MATCH specialist dealer.

Virtual Channel Processing (VCP)
In addition to standard routing, the MATCH UP 8DSP offers Virtual Channel Processing (VCP), a multistage signal processing concept that enables the perfect configuration of complex sound systems, opening up completely new possibilities for sound tuning.
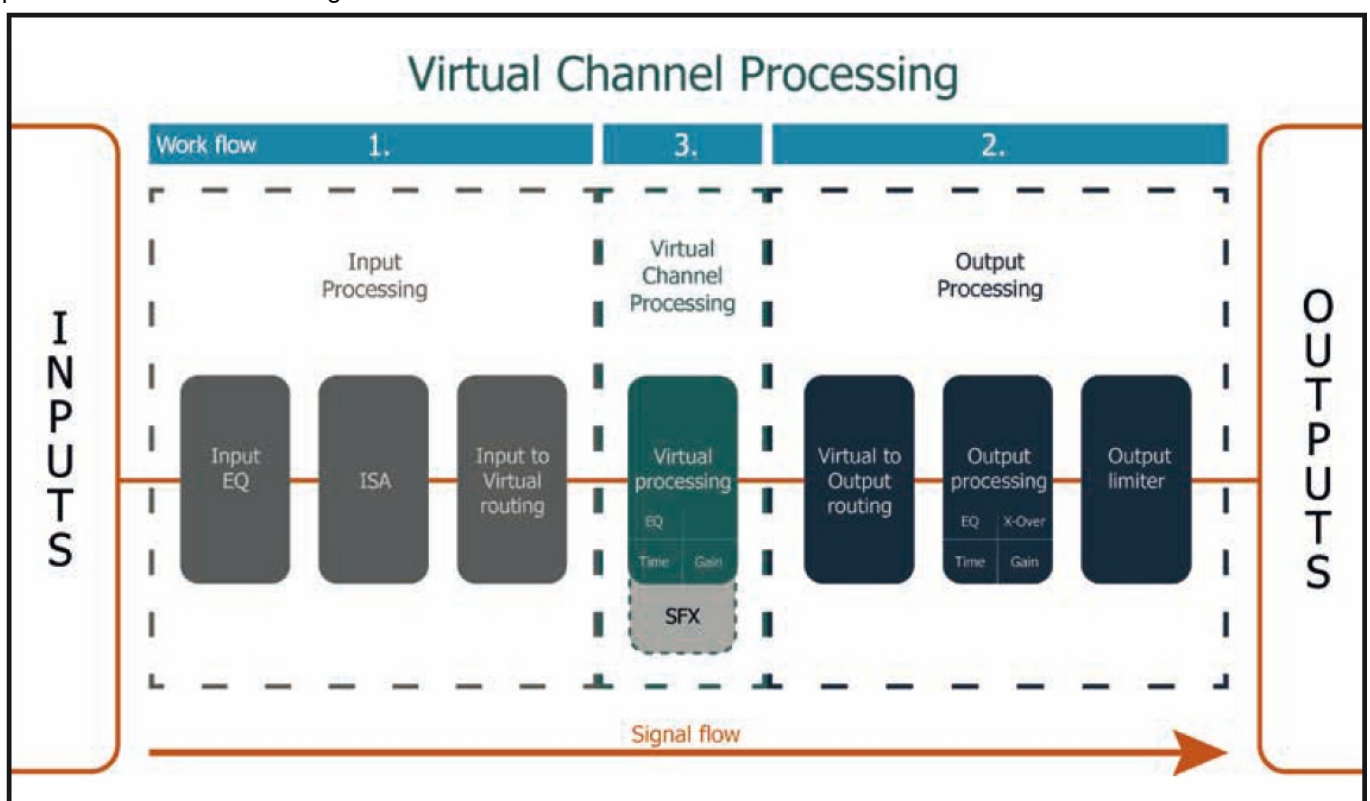
The VCP extends the previous scope of the device by an additional layer of processed channels, which is located between the inputs and outputs. A total of eight additional processed virtual channels and nine processed output channels are available. This virtual channel layer offers several advantages, especially in complex system configurations.

The main advantages of this concept are:

- Cross-channel group equalizers that affect several output channels simultaneously
- Multi-way speaker configuration of DSP sound effects (SFX)
- Additional features such as Rear Attenuation

For further information about the VCP and its configuration, please refer to our Knowledge Base at **www.audiotec-fischer.com**.

Configuration of a subwoofer remote control

In order to configure a subwoofer remote control, specific settings have to be made in the DSP PC-Tool. First, the appropriate remote control must be activated in the "Extended Features" tab in the DCM menu of the DSP PC-Tool software and configured,
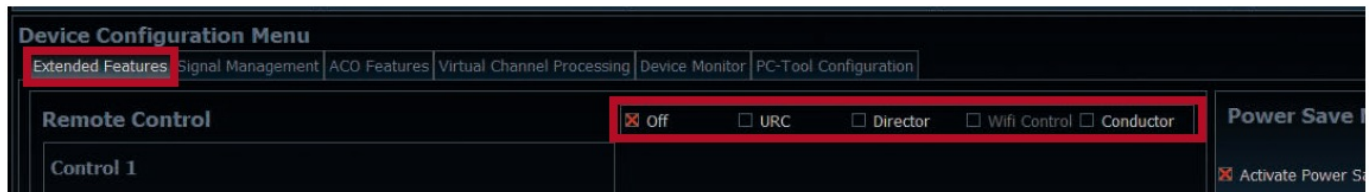

depending on the model.

If the VCP is not activated, the subwoofer remote control of the UP 8DSP is permanently assigned to the output channels G and H. In this case it does not matter which output is named "Subwoofer" in the IO routing matrix.

In the "Outputs" menu you can also see to which outputs the SubRC (subwoofer remote control) is tied:

When VCP is activated, the subwoofer remote control is tied to the output channels that are supplied with one of the two virtual subwoofer signals ("Subwoofer 1" or "Subwoofer 2") in the "Virtual to Output Routing" matrix. This can be any combination of output channels.

In the following example these are the amplifier outputs G and H:
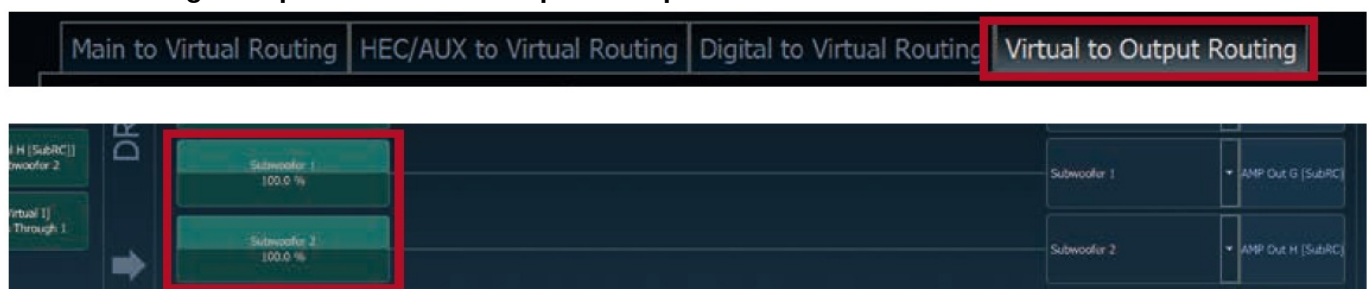
Note: Please note that an input signal must be assigned to the two virtual subwoofer signals "Subwoofer 1" and / or "Subwoofer 2" in the other routing matrices.

Afterwards, the subwoofer control is also displayed in the "Outputs" menu next to the name of the channel [SubRC]:


Additional Features:
The product also includes a NanoFit Adapter for enhanced functionality and offers various configuration examples like channel routing with Virtual Channel Processing.

ACO platform features
Beside the unique DSP sound effects the UP 8DSP provides a bunch of new system features. In the DCM menu of the DSP PC-Tool software individual settings can be made for several of these system features.
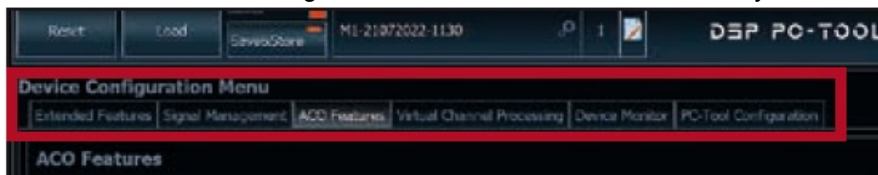
Turn On & Off Delay
This function allows to determine the delay time with which the integrated DSP is switched on and off. The factory setting is 0.2 seconds. The delay time should only be modified if there are e.g. noises while switching on / off the amplifier.

URC Setup Switch Configuration
The ACO provides ten internal memory locations for sound setups instead of the common two. By using an optional URC remote control or the Control pushbutton (see page 20) it is possible to toggle between two of the ten memory locations. These two memory locations can be determined in the "URC Setup Switch Configuration". The memory locations one and two are preassigned by default. To switch between all internal memory locations, the optionally available remote controls DIRECTOR and CONDUCTOR are recommended.

Remote Output Configuration
This function controls if the remote output (which switches on and off the connected amplifiers) will be temporarily deactivated during a sound setup switch. This function is activated (ON) by default.

ADEP.3 Configuration
If the UP 8DSP is connected to an OEM radio via the highlevel inputs it may happen that the ADEP.3 circuit has to be adapted to the diagnostic mode of the radio if the latter is equipped with a so-called "class SB" output stage. In the "ADEP.3 SB compatibility mode & Advanced Noise Suppression" section, an adjustment should be made if there are e.g. distortions occur in the upper volume range. The compatibility mode is enabled by default.

Installation of a MATCH Extension Card
It is possible to extend the functionality of the MATCH UP 8DSP by inserting an optional MATCH Extension Card (MEC) – for example a High Definition Bluetooth ® Audio Streaming module, a High Resolution Audio USB soundcard etc. To install a MATCH Extension Card it is necessary to remove the side panel of the UP 8DSP and replace it by the new side panel that comes with the MEC module.
**Attention:** Install the MEC module only in the designated device and its specific slot. Using the MEC module in other devices or slots can result in damage of the MEC module, the amplifier, the head unit / car radio or other connected devices!

Read in the following the steps how to install a MEC module:

1. First disconnect all cables from the device.

2. Dismantle the side panel where the USB input is located by removing the Phillips screws.

3. Pull out the bottom plate.

4. Prepare the module for installing it into the device. Any further mounting information will be found in the instruction manual of the respective MEC module.

5. Insert the MEC module into the specific slot of the device which is marked in the following picture.
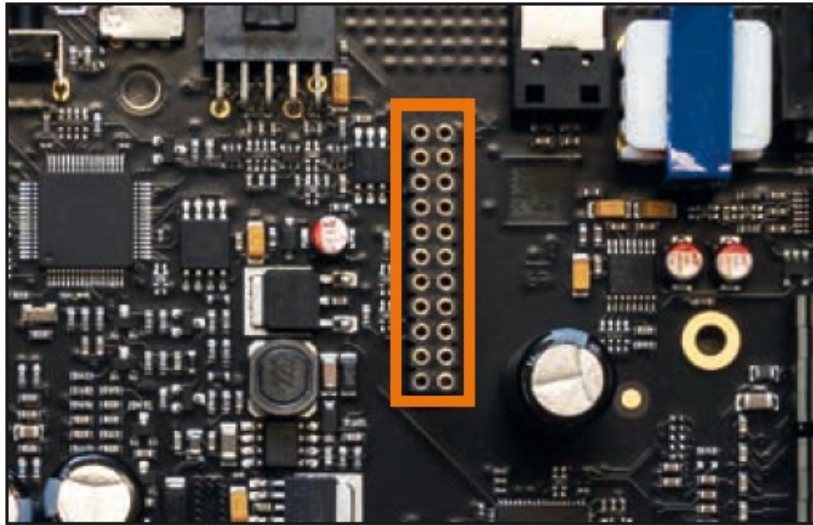
6. Make sure that the MEC module is installed properly and all pins are fully inserted into the socket.
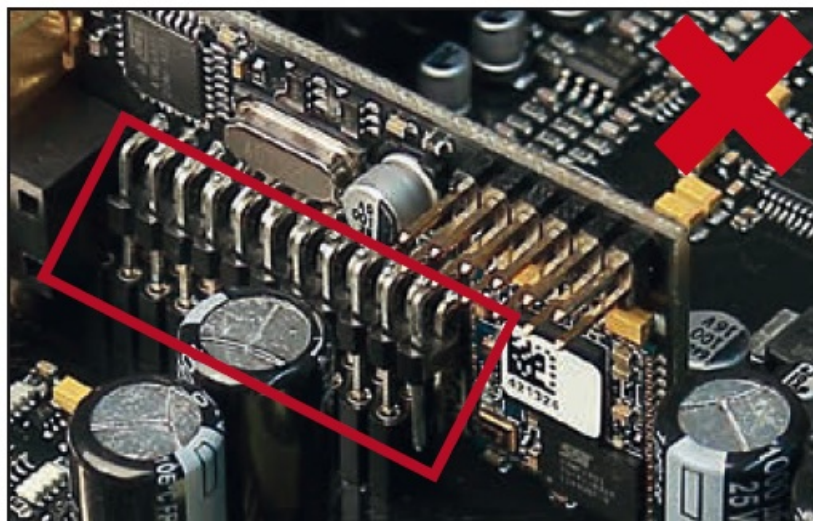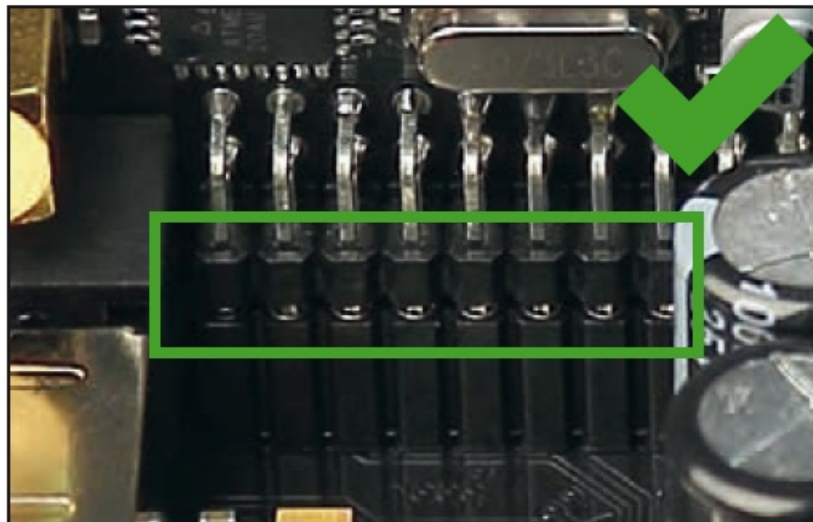
7. Reinsert the bottom plate and fix the new side panel which is delivered with the MEC module with the Phillips screws.

8. Bolt the MEC module to the side panel. Precise mounting information will be found in the instruction manual of the respective MEC module.
9. Reconnect all cables to the device.
10. Turn on the amplifier. The MEC module is automatically detected by the device and the Status LED of the MEC module lights up green.
11. Now you are able to configure the MEC module in the DSP PC-Tool software.

Technical Data

Warranty Disclaimer

The warranty service is based on the statutory regulations. Defects and damage caused by overload or improper handling are excluded from the warranty service. Any return can only take place following prior consultation, in the original packaging together with a detailed description of the error and a valid proof of purchase. Technical modifications, misprints and errors excepted! We accept no liability for damage to the vehicle or device defects caused by the incorrect operation of the device. This product has been issued a CE marking. This means that the device is certified for use in vehicles within the European Union (EU).

Note:
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FAQ:

Q: What should I do if the clipping indicator is active?
A: Reduce the input sensitivity using the slider until the clipping indicator turns off.

Q: Can I connect the amplifier to a remote control system?
A: Yes, the Auto Remote switch allows for integration with remote control systems for added convenience.

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Documents / Resources

AUDIOTEC FISCHER UP 8DSP 8-Channel Upgrade Amplifier [pdf] Instruction Manual
UP 8DSP 8-Channel Upgrade Amplifier, UP 8DSP, 8-Channel Upgrade Amplifier, Upgrade Amplifier, Amplifier

References

- Ⓐ **High-End Car Hifi & Audio - Made in Germany | Audiotec Fischer**
- Ⓐ **High-End Car Hifi & Audio - Made in Germany | Audiotec Fischer**
- Ⓐ **High-End Car Hifi & Audio - Made in Germany | Audiotec Fischer**
- **User Manual**