



AMT LA E-1 - one-channel preliminary guitar amplifier. Designed to be connected directly to power amplifier input or RETURN connector.

SAFETY RULES

CAUTION! The unit contains no user-serviceable parts. Only qualified professionals can carry out repair of the device.
 WARNING! To avoid malfunctions, the device must not be exposed to rain or moisture. The device interior must not be exposed to water or other liquid. Do not place containers filled with liquids, such as vases, etc. on top of the device.

 This symbol indicates important information about the operation of the device and its servicing as reflected in the accompanying documentation.

Please read the instruction manual carefully.

1. Keep the instruction manual at hand.
2. Please pay attention to the warning signs.
3. Do not forget to follow all the instructions contained in the manual.
4. Before cleaning the device unplug it from the power adapter. Use only dry cloth to clean the device.
5. Do not place the device near heat sources; avoid direct sunlight.
6. Lay the mains cord in such a way that it is not stepped upon. Make sure it is not in contact with sharp angles etc. If the mains plug or the socket of the adapter is used to switch the device off, they must be easily accessible.
7. Use only auxiliary devices and accessories recommended by the manufacturer.
8. Disconnect the device from the power adapter (when using power adapter) during thunderstorm.
9. If you don't use the device for a long time, please remove the battery from the device.
10. Any works, related to the device repair must be carried out only by qualified service personnel.
11. WARNING! All service instructions are intended exclusively for qualified personnel. Do not carry out any repairs not described in the instruction manual. The repair works must be carried out only by qualified specialists.

Contents

Important instructions	1
Complete set	1
Introduction	2
Before you start	2
Specifications	2
Power adapter low-voltage connector contacts arrangement	2
Controls	3
Top panel	3
Right panel	3
Only for qualified service personnel	3
Battery installation (replacement)	3
Audio connections and switching	3
Audio connections (1-channel preamp)	3
Audio connections (2-channel preamp)	3
Audio connections (4-channel preamp)	4
Block diagram	4

IMPORTANT INSTRUCTIONS!

THE FAILURE TO OBSERVE THE FOLLOWING INSTRUCTIONS MIGHT RESULT IN YOUR DEVICE DAMAGE. THE GUARANTEE IS VOID IF THESE INSTRUCTIONS ARE NOT FOLLOWED.

- After transportation or storage of the device under low temperatures keep the device inside its original packaging under the room temperature for AT LEAST 2 HOURS before using it!
- To connect the guitar preamp to other devices use exclusively the cables intended for such connections.
- DO NOT use other types of cables e.g. speaker cables and so on.

CONNECTION of the guitar preamp to the power adaptor:

- The connection to the power adaptor is to be made only when all other audio connections have been completed.
- Before connecting the guitar preamp to the power adaptor make sure that the housing, the cable and the mains plug of the power adaptor are intact: no cuts, cracks, dents etc. and are in operative condition.
- In order to connect the preamp to the power adaptor FIRST insert the power adapter low-voltage connector to the corresponding socket on the right panel of the preamp and THEN insert the power adapter's plug into the mains.

DISCONNECTION of the guitar preamp from the power adaptor:

- To disconnect the guitar preamp from the power adaptor FIRST disconnect the power adapter's plug from the mains and THEN disconnect its low-voltage connector from the socket on the right panel of the guitar preamp.

COMPLETE SET

The complete set includes:

1. The guitar preliminary amplifier	1
2. Instruction Manual	1
3. Packaging box	1
4. Warranty card	1

INTRODUCTION

Legend Amps E-1 guitar preliminary amplifier is intended for both studio work and live performances.

“AMT Legend Amps” is the new revolutionary series of 1-channel JFET-based preamps from AMT Electronics, designed as a result of totally different approach to the guitar sound formation.

In the basis of the new series of guitar preliminary amplifiers lies the technology of analog modeling of the physical processes occurring within the real triode tube during guitar sound clipping.

It became possible thanks to the application of authentic circuitry design solutions. The overamplification channels structure complies with the processes occurring in real tube-based devices. Due to that we managed to build the structure of sound clipping, dynamics and scope very close to those in popular tube-based amplifiers. Having minimum sizes and power consumption characteristic to semi-conductors, the effects of AMT Legend amps series possess a number of unique features inherent in full-scale tube-based preamps and amplifiers:

- ✓ The preamps of the AMT Legend Amps series provide excellent playing dynamics characteristic for full-scale tube-based amplifiers and are in no way inferior to them.
- ✓ With the clipping scope similar to the tube-produced one, the effects of the series give you terrific density and power of sound. Using AMT Legend Amps you won't feel like cutting out the most informative middle frequencies, which in turn will provide great readability of your guitar in any mix.
- ✓ The preamps of AMT Legend Amps series, like tube preamps, provide players with gradual increase of the number of clipping stages as sensitivity grows.
- ✓ The preamps of the series use passive circuits of tone shaping completely corresponding to the controls used in original tube-based overdrive.
- ✓ The high level of the output signal in AMT Legend Amps (+10dB at max position of Level) corresponds to the output signal levels of real tube-based preamps. Thus, you have adjustable signal level allowing you to connect your preamp to any input (RETURN, DIRECT, LINE and so on), including INPUT POWER AMP.

The architecture and features of the guitar preamps of “AMT Legend Amps” series:

- ✓ The preliminary amplifiers of the series are one-channel devices with passive bypass.
- ✓ The devices of Legend amps series are equipped with 2 outputs: direct preamp OUT and CAB.SIM - a separate output for connection to “line in”.

The sound character of E-1 guitar preamp (AMT Legend Amps Series):

Legend Amps E-1 is the preliminary amplifier for the fans of “juicy” sound with resilient mids. It emulates the Lead channel of such legend as ENGL Fireball. AMT Legend Amps E-1 is the resilient, aggressive distortion, which ENGL amps are famous for. The wide range of sensitivity adjustment allows you to receive classic biting rock sound with minimum efforts. At bigger distortion the sound acquires “metallic” colors with great sustain, bright flageolets and readability of even complex chords at any distortion level characteristic for Engl amps.

 **CAUTION!** The AMT Legend Amps series preamps, as any other top class devices, are very demanding when it comes to the power source quality. We insist that you use either a 9V battery 6F22 or the power adapter corresponding to the necessary quality requirements (recommended: AC/DC Adapter SA09DC-9V 1.11A or AC/DC Adapter SA12DC-12V 1.25A).

Before you start

To ensure safe transportation the unit was carefully packed at the manufacturing facility. However, if the packaging box is damaged, you should immediately inspect the unit visually for the lack of external damage.

- If you detect any damages, please DO NOT send the device to the manufacturer's address, but notify the seller or transportation company, otherwise you'll lose your right to compensation.
- In order to avoid damages during storage or transportation please use the original packaging at all times.
- Do not allow children to play with the device or the packaging.
- Please recycle all packaging materials to avoid any harm to environment.
- To avoid the device overheating provide sufficient air circulation around it. Do not cover it and don't place it close to heat-emitting sources.

- Using the device near powerful radio transmitters and high frequency sources might result in significant worsening of sound quality. If this is the case, increase the distance between the device and transmitter and use shielded cables for all connections.



WARNING!

Please mind that high sound volume can damage your ears and/or speakers. Before switching the device on turn VOLUME control to the extreme left position (counter clockwise). Try to stick to a moderate sound volume at all times.

Specifications

IN Input	
Impedance	1,0 MOhm
Nominal sensitivity	-20dB
OUT Output	
Output impedance	10kOhm
Output signal level	+10dB
CAB.SIM. Output	
Output impedance	10kOhm
Output signal level	-10dB
Power supply	Battery 6F22
Voltage	DC 9V
Current consumption	Approx. 6mA
Power adapter (optional)	Recommended: AC/DC Adapter SA09DC-9V 1.11A; AC/DC Adapter SA12DC-12V 1.25A DC 9V or DC 12V
Voltage	
Dimensions / Weight	
NET dimensions (WxHxD).	111x58x73 mm
NET weight (w/o battery)	0.23 kg
GROSS dimensions (WxHxD).	Approx. 125x83x103 mm
GROSS weight (w/o battery)	Approx. 0.3 kg

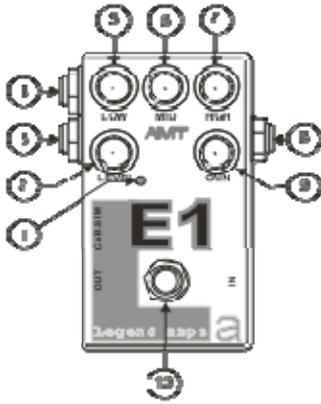
Use only auxiliary devices and accessories recommended by the manufacturer.

Arrangement of contacts
in a low-voltage socket
of the adapter.

Расположение контактов
на низковольтном разъёме
сетевого адаптера.

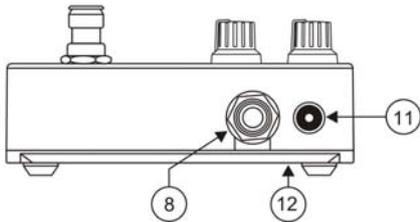


CONTROLS
FRONT PANEL



1. Guitar preamp operation indicator.
2. LEVEL – controls the output volume level of the preamp.
3. OUT – for connection to the power amplifier's input.
4. CAB.SIM. – for connection to Line Input of a mixer
5. LOW – sets the low frequencies level.
6. MID – sets the middle frequencies level.
7. HIGH – sets the high frequencies level.
8. IN – for guitar connection.
9. GAIN – sets the guitar preamp sensitivity level.
10. FOOTSWITCH – switches between PREAMP / BYPASS.

Right Panel



11. Power adapter connector.
12. Bottom cover of the guitar preamp.

WARNING! All connections must be made only when the guitar preamp has been SWITCHED OFF (BYPASS mode)!



Only for qualified personnel

There are no user-serviceable parts inside the device. The device must be repaired only by qualified specialists. If the device has not been used for a long time, it is necessary to remove the battery from the device.

To avoid any possible damages or injuries related to inflammation or electric shock, do not let any foreign objects get inside the device.

Battery installation (replacement)

Only use replacement batteries recommended by the manufacturer.

To install (replace) a battery:

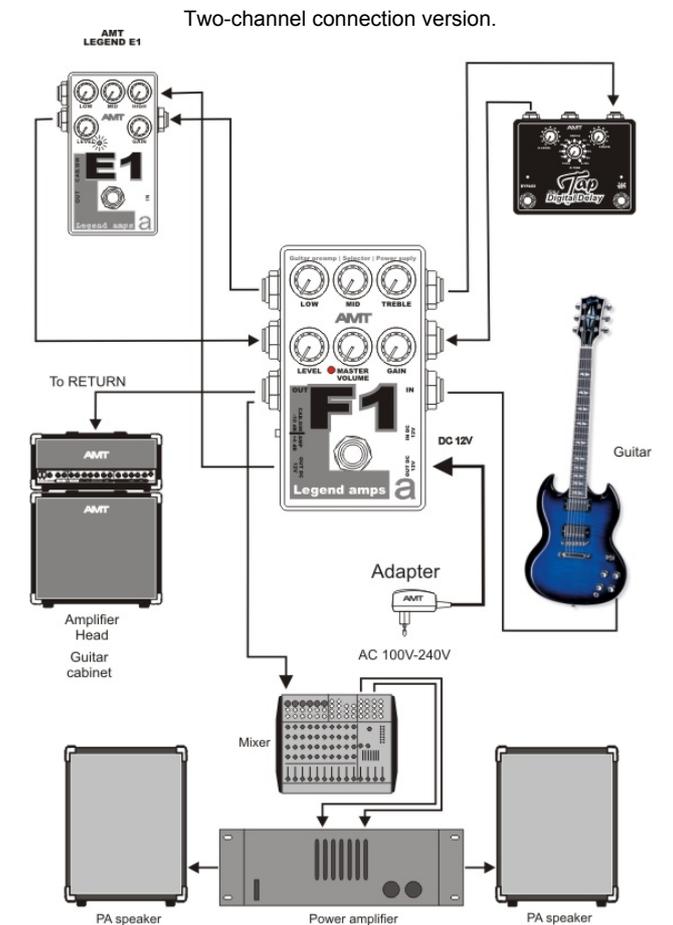
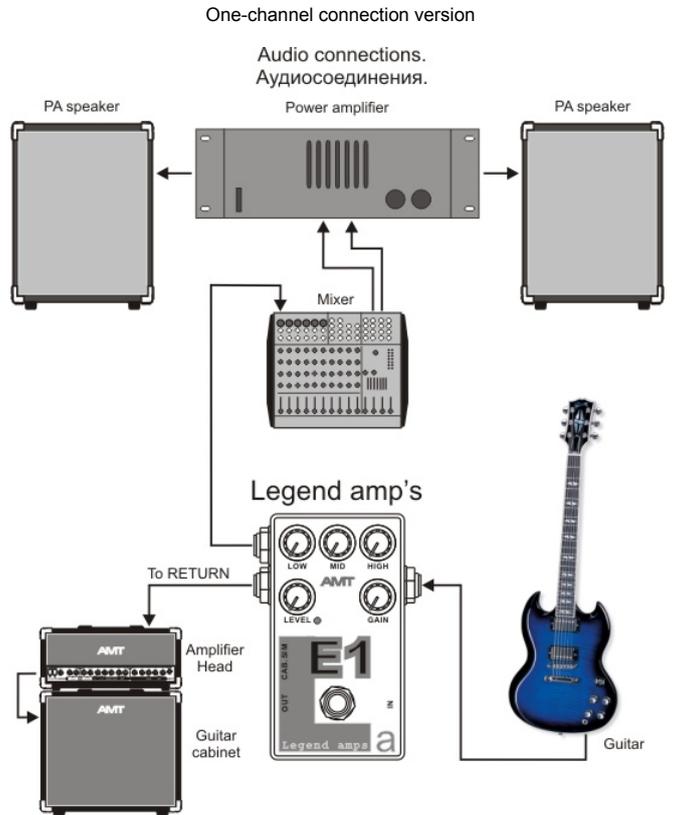
1. Remove the bottom cover of the guitar preamp (12) by means of unscrewing 4 (four) screws.
2. Remove the old battery and disconnect it from the device.
3. Connect the new battery to the device and replace it.
4. Replace the preamp bottom cover and fasten it by means of the 4 (four) screws.

AUDIO CONNECTIONS AND SWITCHING

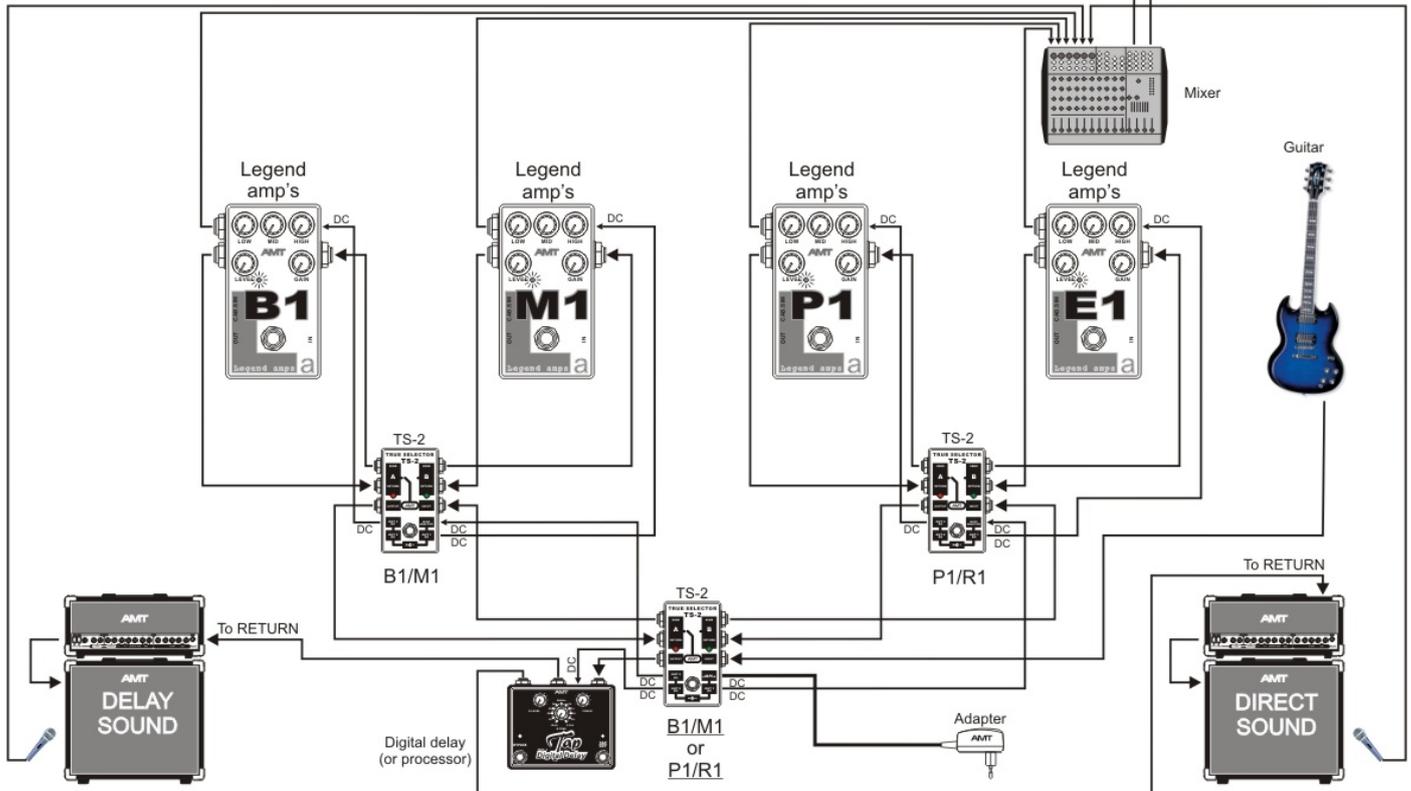
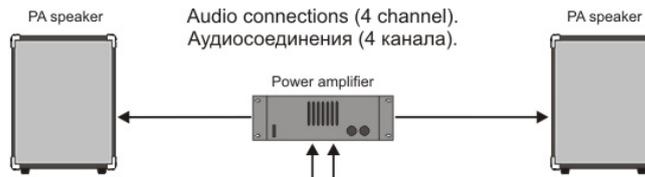
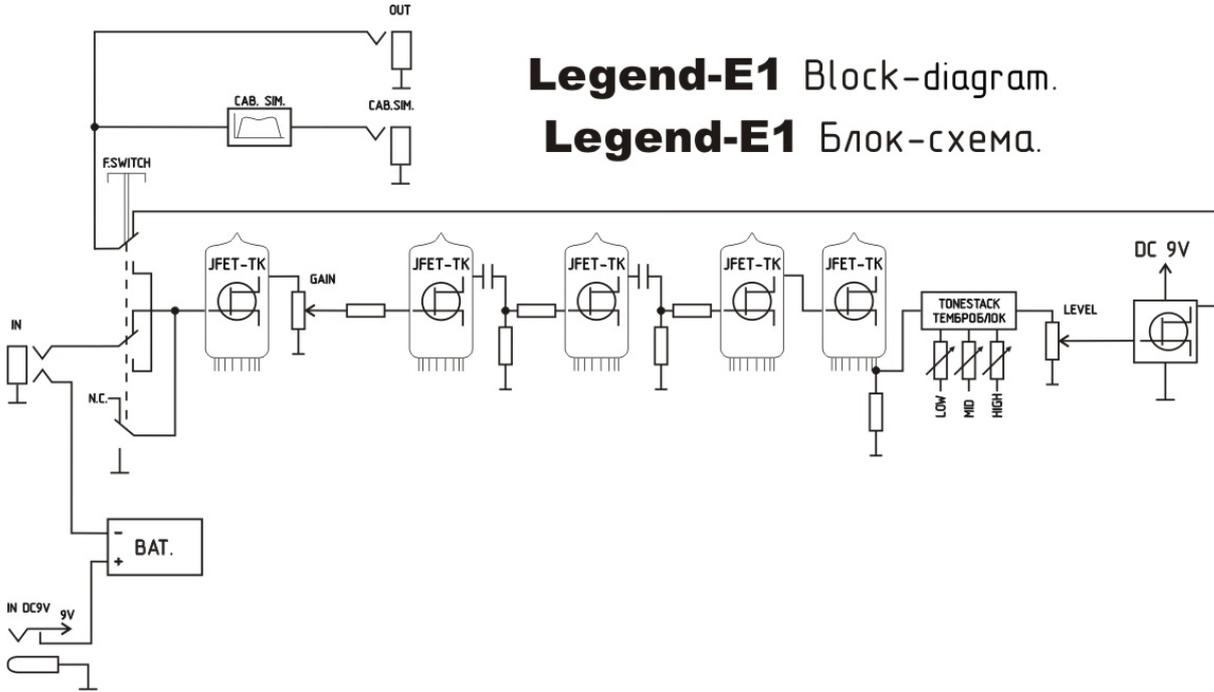


CAUTION! All connections are to be carried out only when the preamp has been disconnected from the mains. (BYPASS mode)!!

The diagrams of possible audio connections of the E-1 guitar preamp with external devices:



Legend-E1 Block-diagram. Legend-E1 Блок-схема.



All the used names, titles and trademarks are the property of their owners.

AMT Electronics reserves the right to introduce changes into the design and appearance of the device, which in no way will decrease its consumer qualities, without preliminary notification. In this connection, the actual specifications and the appearance of the device may differ from the ones shown in the present document.