



SS-11

Guitar preamplifier

User's manual

www.amtelectronics.com

Safety precautions.

CAUTION! High voltage! Danger! Even after the device has been switched off the internal circuits might be alive with up to 500V voltage. To avoid the electric shock **DO NOT REMOVE** the bottom or top covers. The device does not contain any user-serviceable parts. The preamp can be repaired only by qualified personnel. Please disconnect the device from mains if not in use.



WARNING! To avoid fire or electric shock do not let rain or water inside the device. Do not place any liquid containing vessels on top of the device.

The icon means the presence of live and dangerous voltage inside the device and the danger of electric shock.



This icon points out important information related to the device operation and maintenance contained in enclosed documentation.



Please read the instruction manual carefully.

1. Keep the manual at hand.
2. Pay attention to warnings.
3. Follow all operational instructions.
4. Use only dry cloth for device cleaning. Do not forget to switch the device off.
5. Please do not block ventilation slots. When connecting the device follow the instructions provided by the manufacturer.
6. Please do not place the device nearby heat sources, avoid direct sunlight.
7. Do not step on the mains cable, avoid sharp angles etc. If the mains plug or plug adapter of the device are used for disconnection from mains, they are to be easily accessible.
8. Use only auxiliary devices and accessories recommended by the manufacturer. Disconnect the device during thunderstorms or when the device is not used for a long time.
9. Any work related to the device repair must be done by qualified service personnel.
10. **WARNING!** All instructions related to the device servicing are intended exclusively for qualified personnel. To avoid the electric shock **DO NOT** fulfill repair works not described in the instruction manual. All repairs must be done by qualified personnel.

Contents

Important	1
Complete set	1
Introduction	2
Before you start	2
Specifications	2
Controls	3
Front panel	3
Only for qualified personnel	3
Tubes replacement	3
Connections	3
Block diagram	4

IMPORTANT!

If the device was transported or stored in cold environment it is necessary to leave the device in its original packaging for at LEAST 2 hours before switching it on!

Use only the cables specified for corresponding connections of the guitar preamp to other devices.

Please, do not use other types of cables: e.g. speaker cables etc.

SWITCHING THE PREAMP ON:

Please switch the device on only after you have completed all audio connections!

Before switching the preamp on make sure that the housing, the connection cables and the power adapter mains plug are free from damages: cuts, cracks, dents etc. and are intact.

To switch SS-11 first insert the power adapter low voltage jack into the corresponding socket on the rear panel of the guitar preamp and then plug the adapter into the wall outlet.

SWITCHING THE PREAMP OFF:

To switch the guitar preamp off first turn off the guitar amplifier used with SS-11. Then disconnect the power adapter of the guitar preamp SS-11.

COMPLETE SET

The complete set includes:

1. Guitar preamp	1
2. Power adapter	1
3. Instruction manual	1
4. Packaging	1
5. Warranty card	1

INTRODUCTION

SS11A and SS-11B floor preamps are intended for use both in studio and live on stage, for standard tuning playing as well as lower one.

Before starting the serial production of AMT SS-11 guitar preamp we conducted a number of audio tests and experiments. As a result we arrived to the conclusion that in order to satisfy various tastes of the guitarists army SS-11 would be produced in at least two versions based on the same platform.

While developing SS-11 we were guided by the following concept – the quality sound at minimum size and maximum functionality with full-bodied tube-based pre amplification on the basis of quality electronic components.

Architecture of SS-11:

- ✓ tube-based 4-stage overdrive channel (2x12AX7) with high anode supply voltage (+300V).
- ✓ three separate CLEAN/CRUNCH/LEAD channels. CRUNCH and LEAD have common tone controls but separate sensitivity and output level controls plus separate Tone-SHIFT switches.
- ✓ serial insert (FX LOOP);
- ✓ OUTPUT channel connection to specialized guitar amps with standard level of +10dB (TO AMP mode) as well as directly to mixing console with standard level of -10dB with guitar cabinet simulation feature (TO MIX mode)
- ✓ the preamp outputs are equipped with the improved semi-conductor buffers providing not only the signal enrichment with low harmonics, but also smooth transition to additional slight limitation inherent in devices using vacuum triode-based insert.
- ✓ SS-11 uses the new guitar cabinet emulator based on filed-effect transistors possessing better natural sounding when connected to line-in.
- ✓ the special attention was paid to the quality of triodes anode supply: the preamp uses specially developed high-voltage transducer eliminating penetration of amplified signal pulse interferences.

SS-11 Channels Description

LEAD offers an ample supply of overdrive and dense stringy sound great for aggressive rhythm parts as well as melodious solos with excellent readability.

CRUNCH differs in lesser overall sensitivity and more open sound structure. The wide range of sensitivity adjustment allows to obtain the sound starting from slight crunch to nearly LEAD channel's heavy sound.

CLEAN offers classic clean sound with slight limitation in maximum sensitivity mode and crystal clear and bright one within the range of moderate sensitivity. CLEAN channel has a separate 3-way tone control, sensitivity and output level adjustment and BRIGHT switch.

Before You Start

To provide safe transportation the device was carefully packed by the manufacturer. However, if the the packaging is damaged it is necessary to visually inspect the device.

- If you detect any damages DO NOT ship the device to our address but inform the vendor and transportation company, otherwise you'll lose your compensation right.
- In order to avoid damages during transportation or/and storage use the original packaging at all times.
- Do not allow children to play with the device and the packaging.
- Please recycle all packaging to avoid environmental contamination.
- To avoid the device overheating provide enough air circulation around it, do not cover it and do not place it next to heat generating equipment.
- Using the device nearby powerful radio transmitters and high-frequency signals sources might result in significant decrease in sound quality. If this is the case increase the distance between the device and transmitter and use shielded cables for all connections.

WARNING!

Please pay attention to the fact that loud sounds might impair your hearing or/and damage your speakers. Before switching the device on please turn the VOLUME control knobs to extreme left position (counterclockwise). Try to use moderate volume levels at all times.

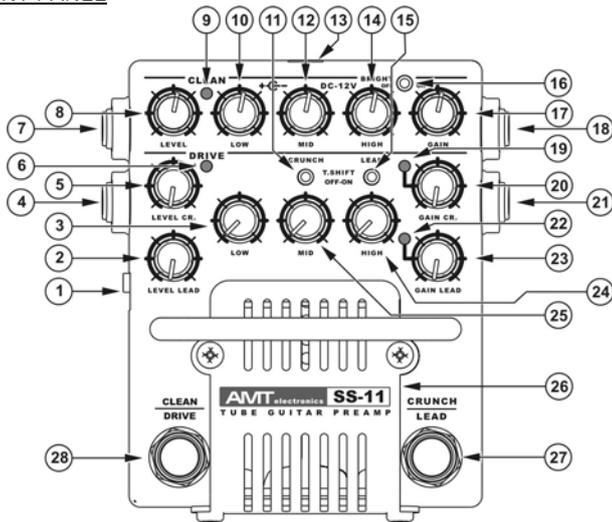
Specifications



Use only manufacturer-recommended devices and accessories while operating the device.

Tubes	
12AX7 (ECC-83)	2
INPUT	
Impedance	1.0 MOhm
Sensitivity	-20dB
RETURN	
Impedance	1.0 MOhm
Sensitivity	-10dB
OUTPUT	
Output impedance	10kOhm
Output signal level (TO AMP mode)	+10dB
Output signal level (TO MIX mode)	-10dB
SEND	
Output impedance	10kOhm
Output signal level	-10dB
Power supply	
Voltage	DC 12V
Current	0.56A
Power adapter	
Voltage	DC 12V
Current	1.25A
Dimensions / Weight	
Net dimensions (WxHxD). (without power adapter)	119x57x103 mm.
Net weight (without power adapter)	0.52 kg
Overall dimensions (WxHxD)	Appr. 206x83x140 mm
GROSS weight	Appr. 0.8 kg

**CONTROLS
FRONT PANEL**



1. TO AMP / TO MIX output signal level switch
2. LEVEL LEAD channel volume level
3. LOW - DRIVE channel low frequency adjustment
4. OUTPUT – to amplifier/linear input of mixer (in accordance with switch 1 position)
5. LEVEL CR. volume level adjustment for CRUNCH channel
6. DRIVE channel operation indicator
7. RETURN – connection to external effects unit output (-10dB)
8. LEVEL - volume level adjustment for CLEAN channel
9. CLEAN channel operation indicator
10. LOW - CLEAN channel low frequency adjustment
11. T.SHIFT of CRUNCH channel highlights middle and high frequencies
12. MID - CLEAN channel middle frequencies adjustment
13. DC-12V (rear panel) for power adapter connection
14. HIGH - CLEAN channel high frequency adjustment
15. T.SHIFT of LEAD channel highlights middle and high frequencies
16. BRIGHT – tone correction of CLEAN channel
17. GAIN of CLEAN adjusts sensitivity level
18. SEND – signal output to external effects unit (-10dB)
19. Operation indicator of DRIVE in CRUNCH mode
20. GAIN CR. adjusts sensitivity level of CRUNCH channel
21. INPUT – for guitar connection
22. Operation indicator of DRIVE channel in LEAD mode
23. GAIN LEAD adjusts sensitivity level of LEAD channel
24. HIGH - DRIVE channel high frequency adjustment
25. MID - DRIVE channel middle frequency adjustment
26. Tubes protection cover
27. CRUNCH / LEAD foot switch to switch between CRUNCH and LEAD
28. CLEAN / DRIVE foot switch to switch between CLEAN and DRIVE

WARNING! All connections are to be made **ONLY** when the power supply of the guitar preamp has been **SWITCHED OFF!**

ONLY FOR QUALIFIED PERSONNEL

DANGER! High voltage!
Even after the device has been switched off the internal circuits might be alive with up to 500V voltage. To avoid the electric shock **DO NOT REMOVE** the bottom or top covers. The device does not contain any user-serviceable parts. The preamp can be repaired only by qualified personnel. Please disconnect the device from mains if not in use.

The circuits of the preamp are alive with the high-voltage current. To avoid possible damage or injuries related to fire or electric shock do not let any foreign objects or liquids inside the device.

Tubes replacement

To replace the tubes:

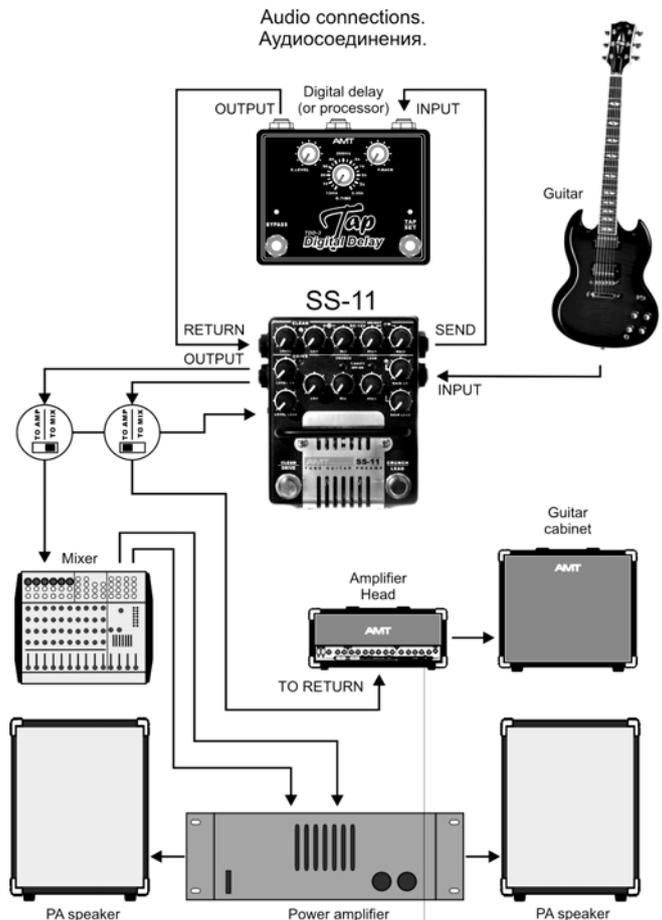
1. Remove the upper protection cover (26) by unscrewing 4 (four) screws.
2. Remove bottom cover of the preamp by unscrewing 4 (four) screws.
3. Remove old tubes.
4. Install new tubes.
5. Screw the bottom and upper protection covers on their places.

Use only the tubes recommended by the manufacturer for replacement..

AUDIO CONNECTIONS AND SWITCHING

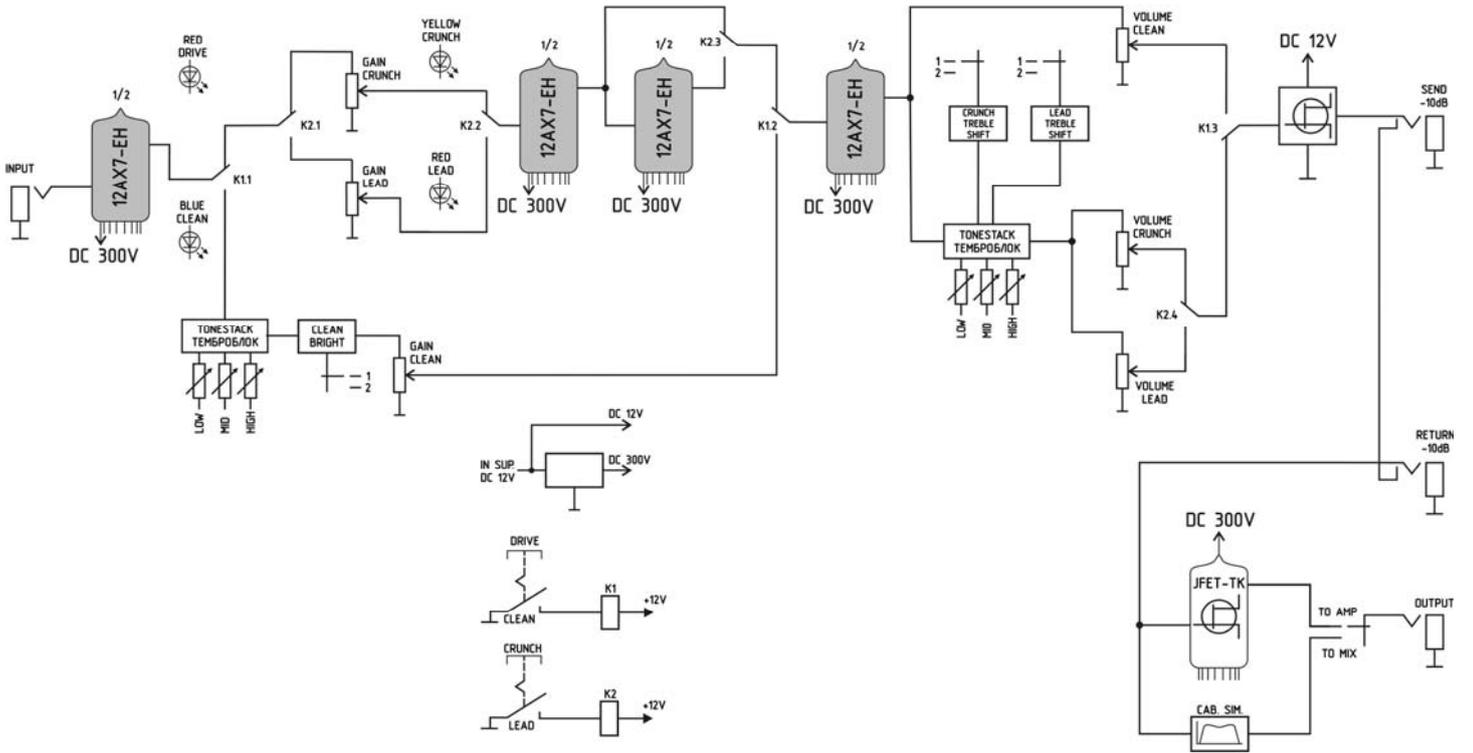
WARNING! All connections are to be made **ONLY** after the preamp power supply has been **DISCONNECTED!**

Possible audio connections with external devices:



SS-11 Block-diagram.

SS-11 Блок-схема.



AMT Electronics reserves the right to alter design and exterior of the device without preliminary notice, which in no way will affect its consumer value. The device specifications and exterior might differ from the ones shown in this document.