

RUSSIA - SIBERIA - OMSK - 2009



**10. IMPORTANT!** All servicing instructions are intended exclusively for qualified personnel. Do not carry out any repair works not specified in the instruction manual. All repair works are to be carried out by qualified personnel only.

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### IMPORTANT INSTRUCTIONS!

NON-OBSERVANCE OF THE FOLOWING INSTRUCTIONS MIGHT RESULT IN YOUR AMPLIFIER OR SPAEAKERS DAMAGE. GUARANTEE IS VOID IF THE DAMAGES ARE CAUSED BY NON-OBSERVANCE OF THESE INSTRUCTIONS.

- **After transportation or storage of the device under negative temperatures make sure to leave the device under room temperature in its original packaging for AT LEAST 2 HOURS!**
- **To connect the passive switch to other devices use exclusively cables intended for such connections.**
- **Under no circumstances use other types of cables such as for speakers etc.**

#### TURNING the guitar preamp ON:

- **Turn the device on only after all audio connections HAVE BEEN COMPLETED!**
- **Before turning the guitar amp on make sure that: POWER switch is in OFF position; the housing, connecting cable, low-voltage connector and power unit plug are intact (no cuts, cracks, dents etc.) and are in working condition.**
- **To turn the guitar preamp on first connect the low-voltage connector of the power unit to the corresponding jack on the rear panel of the device and then plug the power unit into the wall mains outlet. After that put the POWER switch to ON position (the power indicator must be on) – the preamp is ready for operation.**

#### TURNING the guitar preamp OFF

- **In order to switch the preamp off first put POWER switch to OFF (the power indicator must be off), unplug the power nit from mains and then unhook its low-voltage connector from the device's rear panel jack.**

### COMPLETE SET:

1. Guitar preamp	1
2. Power unit	1
3. Instruction manual	1
4. Packaging	1

### Safety instructions.

**CAUTION! High voltage! Danger!**



Even after disconnection from mains the internal circuitry can be up to 500 V DC live. In order to avoid electric shock you must not disassemble the device. There are no user-serviceable components inside the device. The device repair must be done only by

qualified specialists.

If the device has not been used, it is necessary to disconnect it from mains.

**WARNING!** To avoid possible malfunctions the device must not be exposed to rain or moisture. Prevent water or other liquids from getting inside the device. Do not place vessels filled with liquids (such as vases etc.) on top of the device.



**This sign means the presence of bare and dangerous voltage inside the device resulting in electric shock**



**This sign means important information related to the device operation and maintenance information, contained in the attached documentation.**

**Please read the instruction manual carefully.**

- 1. Keep the manual at hand.**
- 2. Pay close attention to the warning instructions.**
- 3. Adhere to all maintenance instructions.**
- 4. Use only dry cloth to clean the device which must be disconnected from the power adapter.**
- 5. Do not block or cover the ventilation slots. While mounting the device follow the directions of the manufacturer.**
- 6. Do not place the device next to heat sources, avoid direct sunlight.**
- 7. Lay the power cable in such a way that it is impossible to be stepped on. Besides, avoid its contacts with sharp angles etc. If the plug of the power adapter is used for the device disconnection from mains, it must be easily accessible.**
- 8. Use only auxiliary devices and accessories recommended by the manufacturer. Turn the device off during thunderstorms.**
- 9. All works related the device repair must u carried out only by qualified servicing personnel.**

## INTRODUCTION:

SS-10 GUITAR PREAMP is intended for use both in studio and live performances. SS-10 uses completely tube-based 4-stage pre-amplification (2 x12AX7) and the concept of pre-amplification stages operative switching number which in combination with the capability of controlling inter-stage correction and output signal tonal correction enable to obtain a wide range of resulting sounds: from aggressive modern one to classic 1980s sounds.



### Design and features of SS-10 guitar pedal:

- ✓ Fully tube-based circuitry.
- ✓ The preliminary stages have three channels: CLEAN/ CRUNCH/ LEAD.
- ✓ CLEAN channel has separate tone controls as well as gain and volume adjustments.
- ✓ CRUNCH and LEAD channels are equipped with individual output volume and gain controls. Despite the shared 3-band tone controls a user can effectively use TREBLE SHIFT 3-position switch and PRESENCE knob, which are individual for CRUNCH and LEAD channels.
- ✓ Parallel-sequentially controlled LOOP.
- ✓ Direct connection to mixer or linear amplifier (OUT CAB.S.).
- ✓ Headset connection.

**LEAD** channel is intended for modern no-nonsense aggressive sound both when playing in standard or lowered tuning. Carefully calculated spectral and tone channel balance is ideal for modern style punch and bright flageolets as well as distinct quick licks. The channel is great for aggressive rhythm parts and vivid solos.

**CRUNCH** channel differs due to its lower sensitivity but is rather versatile. Using PRE-EQ switch the user can choose one of the three variants of the signal preliminary correction which have various tonal balance between lows and highs so that to be used both for playing rhythm and solos. The wide range of sensitivity adjustment in combination with expanded possibilities of output tone control enables to obtain sounds ranging from airy crunch to heavy.

**CLEAN** channel is intended for classical clean sound with graceful limitation in the maximum gain mode and crystal clean and bright within the range of moderate gain levels. It has individual controls for gain and output level, the Bright switch, and 3-band tone control.

### Before you start:

For safe transportation the device was carefully packaged by the manufacturer. However, if the cardboard packaging is damaged you should immediately inspect the device for the absence of external damages.

- **In case of damages do NOT SEND the device to manufacturer, but inform the seller or transport agency, since otherwise you will lose the right to damage compensation.**
- **In order to avoid damages during storage and transportation always use original packing.**
- **Do not allow children to play with the device and packaging materials.**
- **Please, recycle all packing materials in the way harmless to the environment.**
- **In order to avoid the device overheating provide a sufficient air flow around it; do not cover it and do not place near other heat emitting devices.**
- **Device operation near powerful radio transmitters and sources of high-frequency signals can result in appreciable deterioration of sound. In this case increase the distance between the device and the transmitter and use screened cables for all interconnections.**

### CAUTION!

**Please be aware that high volume can harm your hearing and / or damage the dynamic heads of your acoustic system. Before turning the device on rotate Volume controls to extreme left position (counter-clockwise). Always try to adhere to moderate volume level.**

## Specifications:

### Tubes

12AX7 (ECC-83) 2 pcs

### INPUT(rear panel)

Impedance 1.0 MOhm

Sensitivity -10dB

### INPUT(front panel)

Impedance 1.0 MOhm

Sensitivity -20dB

### RETURN input

Impedance 1.0 MOhm

Sensitivity -10dB

### OUTPUT

Output impedance 10KOhm

Output signal level 0dB (0.775V)

### OUT CAB.S.

Output impedance 10KOhm

Output signal level -10dB

### SEND output

Output impedance 10KOhm

Output signal level -10dB

### PHONE output

Load resistance Min./Nom. 8 Ohm

Power Nom. (8ohm) 0.125 W

### Power

Voltage DC 12V

Current 0.6A

### Power unit

Voltage DC 12V

Current 1.25A

### Dimensions / Weight

Dimensions NET (WxHxD). Without power unit. 482mm/46mm/90mm

Net weight. Without power unit. 1,25 kg.

Overall dimensions (WxHxD). Appr. 630mm/70mm/100mm

Gross weight Appr. 1,6 kg.

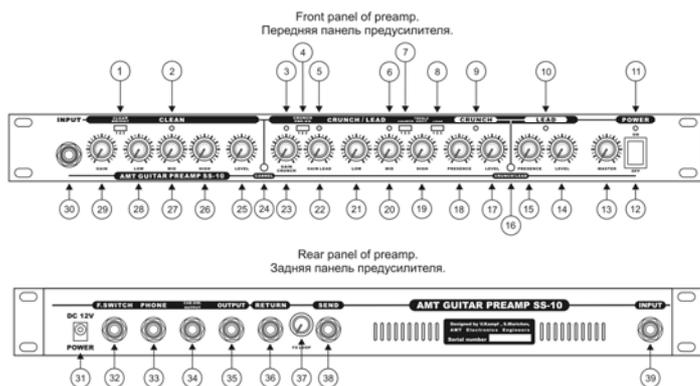
**Use only external devices and accessories recommended by the manufacturer.**

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

Расположение контактов на низковольтном разъёме сетевого адаптера.



## CONTROLS.



1. Signal correction switch for **CLEAN** channel.
2. **CLEAN** channel indicator.
3. **CRUNCH** channel indicator.
4. **CRUNCH PRE-EQ** switch. The position of the switch determines the degree of signal preliminary equalization (processing) in CRUNCH channel.
5. **LEAD** channel indicator.
6. **CRUNCH/ LEAD** channels indicator.
7. **TREBLE SHIFT** switch of CRUNCH channel.
8. **TREBLE SHIFT** switch of LEAD channel.
9. **CRUNCH** channel indicator.
10. **LEAD** channel indicator.
11. **POWER ON** indicator (lit when preamp is on).
12. **POWER** switch for turning the preamp on and off.
13. **MASTER** determines the general output signal volume.
14. **LEVEL LEAD** for LEAD channel volume control.
15. **PRESENCE LEAD** determines the PRESENCE correction level of LEAD channel.
16. **CRUNCH/LEAD** for switching between CRUNCH/LEAD channels.
17. **LEVEL CRUNCH** determines signal level of CRUNCH channel.
18. **PRESENCE CRUNCH** determines PRESENCE correction level of CRUNCH channel.
19. **HIGH** for **CRUNCH/LEAD** channel sets the high frequency range for CRUNCH/LEAD channels.
20. **MID** for **CRUNCH/LEAD** sets the mid-frequency range of CRUNCH/LEAD channels.
21. **LOW** for **CRUNCH/LEAD** sets low-frequency range of CRUNCH/LEAD channels.
22. **GAIN LEAD** for **CRUNCH/LEAD** sets the gain level to the input signal of LEAD channel.
23. **GAIN CRUNCH** for **CRUNCH/LEAD** sets the gain level to the input signal of CRUNCH channel.
24. **CHANNEL** switches between CLEAN/(CRUNCH/LEAD) channels.
25. **LEVEL CLEAN** sets the signal level of CLEAN channel.
26. **HIGH** for **CLEAN** sets the high-frequency range of CLEAN channel.
27. **MID** for **CLEAN** sets the mid-frequency range of CLEAN channel.
28. **LOW** for **CLEAN** sets low-frequency range of CLEAN channel.
29. **GAIN CLEAN** sets the gain level to the input signal of CLEAN channel.
30. **INPUT** is intended for connecting your guitar to the preamp.
31. **IN DC ADAPTER** for connection of the power unit.
  32. **F.SWITCH** for connection of external CLEAN/(CRUNCH/LEAD) switch.
  33. **PHONE** for headset connection.
34. **OUT CAB.S.** for connecting to Line input of a mixer.
35. **OUTPUT** the preamp output (0 dB).
36. **RETURN** for connecting to the external effects unit's output (-10 dB).
37. **FX LOOP** for controlling Return input signal.
38. **SEND** for sending signal to the external effects unit (-10 dB).
39. **INPUT** for connection of your electric guitar to the preamp.

## INPUTs priority.

**INPUT** located on the front panel has the priority in relation to **INPUT**, located on the rear panel of the preamp. I.e. in case of simultaneous connection to the inputs located on the front panel and the rear panel the preamp will operate with the signal coming to the front panel input. When you disconnect the cable jack from the front panel **INPUT** the preamp will start operate using the signal coming to the **INPUT** located on the rear panel of the device.

## CAUTION!

**All connections are to be carried out only when the power of the preamp has been SWITCHED OFF!**

For qualified personnel only.

**DANGER! High voltage!**



**Even after disconnection from mains the internal circuitry can be up to 500 V DC live. In order to avoid electric shock you MUST NOT disassemble the device. There are no user-serviceable components inside the device. The device repair must be done only by qualified specialists.**

**If the device has not been used, it is necessary to disconnect it from mains.**



**WARNING! High voltage inside the preamp. To avoid possible malfunctions the device must not be exposed to rain or moisture. Prevent water or other liquids from getting inside the device**

## Tubes replacement.

To replace the tubes:

1. Unscrew 7(seven) nuts of the jacks located on the rear panel ( 32-36, 38,39);
2. Remove **FX LOOP** knob (п37);
3. Unscrew the nut of **FX LOOP** resistor ( 37, under the knob);
4. Remove the rear panel of the device by unscrewing 12 (twelve) screws: 7 on the top part and 5 on the rear;
5. Carefully remove the old tubes;
6. Put the new tubes instead of the old ones;
7. Fix the rear panel of the guitar preamp in place by means of 12 (twelve) screws: 7 on the top part and 5 on the rear;
8. Screw on the nut of **FX LOOP** resistor ( 37);
9. Put **FX LOOP** knob in place (37);
10. Screw on 7 (seven) nuts of the jacks located on the rear panel (32-36, 38,39);

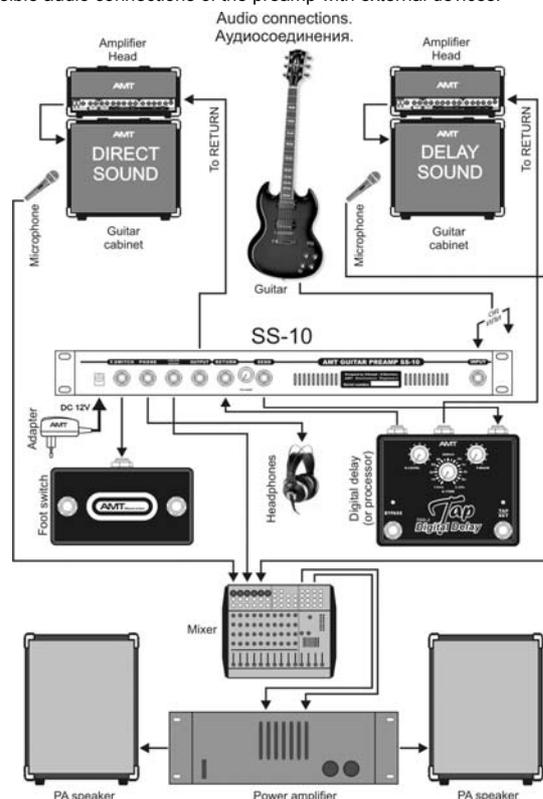
**For replacement use only the tubes recommended by the manufacturer.**

## AUDIO CONNECTIONS AND WITCHING.



**CAUTION! All connections are to be carried out only when the power of the guitar preamp has been SWITCHED OFF!**

Possible audio connections of the preamp with external devices:



AMT Electronics reserves the right to change the internal and external design of the device which won't decrease its consumer properties without preliminary notification. In this connection the specifications and appearance of the device might differ from the ones shown in this document.

**SS-10** Block diagram.  
**SS-10** Структурная схема.

