



SS-30

Guitar Preamp

User's manual

www.amtelectronics.com

Safety precautions

CAUTION! There are no user serviceable parts inside. Repair of the device can be carried out only by qualified experts. If the device is not used it must be disconnected from mains.

WARNING! In order to avoid fire or electric shock the device must not be exposed to rain or moisture. Do not let water or other liquid get inside the device. Do not place vessels such as vases filled with liquid on top of the device.



This symbol indicates important information related to the device maintenance and servicing contained in the accompanying documentation.

Please read the instruction manual very carefully.

1. Keep the user's guide at hand.
2. Pay attention to warnings.
3. Follow all instructions related to device operation.
4. To clean the device, use only a dry cloth having disconnected the device from mains prior to that.
5. Do not place the device near heat sources, keep it from direct sunlight.
6. Lay the mains cable so that it is not stepped on and avoid its contact with sharp corners, etc. If you use the plug or outlet for switching the device off they should be easily accessible.
7. Use only additional devices and accessories recommended by the manufacturer.
8. Disconnect the device from mains in case of thunder-storm or when the device is not in use for prolonged time.
9. Remove the battery, if you don't use the device for a prolonged period of time.
10. All works related to the device repair must be done only by qualified service personnel.
11. **WARNING!** All service instructions are intended only for qualified personnel in order to avoid electric shock; do not carry out any repair works which are not described in the instruction manual. Repair works must be carried out only by qualified experts.

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IMPORTANT INSTRUCTIONS!

NON-OBSERVANCE OF THE FOLOWING INSTRUCTIONS MIGHT RESULT IN YOUR DEVICE 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 guitar preamp to other devices use exclusively cables intended for such connections.**
- **Under no circumstances use other types of cables such as for speakers etc.**

CONNECTION of the guitar preamp to power adapter:

- **Connect the adapter only AFTER all audio connections have been accomplished!**
- **Before connecting the preamp to power adapter make sure that the casing, cables, low-voltage connector and power plug are free from damages: no cuts, cracks, dents and so on and are in operable condition.**
- **To connect the preamp to the power adapter first insert the low-voltage connector of power adapter into corresponding socket on the rear panel of the preamp and then plug the adapter into the wall outlet.**

DISCONNECTION of the guitar preamp from power adapter:

- **To disconnect the preamp from the power adapter first disconnect the adapter from mains and then disconnect its low-voltage connector from the socket on the rear panel of the preamp.**

COMPLETE SET

| | | |
|----|--------------------|---|
| 1. | AMT SS-30 | 1 |
| 2. | Instruction manual | 1 |
| 3. | Packaging box | 1 |
| 4. | Warranty card | 1 |

INTRODUCTION

The SS-30 guitar preamp is intended for use in studio and live performances.

AMT SS-30 is a 3-channel JFET-based tube overdrive modeling device with full parameters visualization. The device allows for simultaneous and separate use of two outputs to a mixer's line input and an amp's RETURN. The serial FX loop can be used for external effect pedals connection. With external MIDI converter (e.g. AMT FS-2MIDI) linked to the special connector the device can be combined with external MIDI devices.

AMT SS-30 features low energy consumption from 18V DC power adapter or two 9V batteries.

SS-30 Features

- powered by two 9V 6F22 batteries or 18V DC power adapter ;
- fast and hassle-free batteries replacement without using a screwdriver;
- less than 10 mA current consumption (without external MIDI converter);
- 3 channels: Clean, Crunch, Lead
- serial FX Loop
- separate cabinet emulator output
- 3.5 mm jack to control external MIDI devices by means of AMT FS-2MIDI

SS-30 Channels Description

AMT SS-30 preamp features 3-channel design.

CLEAN Channel has classic clean sound similar to old-time amps and provides both velvety transparent sound and a slight overdrive depending on CLEAN GAIN position. CLEAN Channel has separate 3-band tone, drive and level controls as well as CLEAN BOOST switch providing more energy and presence.

CRUNCH Channel has much higher overall sensitivity. Its wide control range along with ample output tone control possibilities allows to obtain sounds from light airy crunch to hard&heavy approaching LEAD Channel's density and brightness.

LEAD Channel is distinguished by high sensitivity and provides aggressive modern guitar sound for both standard and lower tunings. The well-saturated channel sound is oriented to obtaining modern resilient chord punch as well as speedy licks readability. In this way the channel can be used not only for aggressive rhythm parts but also bright expressive solos.

To enhance tone control possibilities of the common tone control unit of **DRIVE** channels (Crunch/Lead) we incorporated DR.TONE SHIFT switch providing better tone coordination between the preamp and your power amp and cabinet.

CAUTION! AMT preamps like any other high-class devices



are very sensitive to power adaptor quality. We insist on your using either two 9V 6F22 batteries or an adapter meeting the quality specifications to power your device.

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 airflow 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). At all times try to adhere to moderate volume level.

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

INPUT

| | |
|------------------|---------------|
| Input resistance | 1,0 MOhm |
| Response | -10dB (250mV) |

OUTPUT

| | |
|-----------------------|-------------|
| Output resistance | 600 Ohm |
| Output signal level | 0dB (775mV) |
| Recommended load, min | 10 kOhm |

CAB.SIM. output

| | |
|-----------------------|---------------|
| Output resistance | 600 Ohm |
| Output signal level | -10dB (250mV) |
| Recommended load, min | 10 kOhm |

RETURN

| | |
|------------------|---------------|
| Input resistance | 1,0 MOhm |
| Response | -10dB (250mV) |

SEND

| | |
|-----------------------|---------------|
| Output resistance | 600 Ohm |
| Output signal level | -10dB (250mV) |
| Recommended load, min | 10 kOhm |

Power

| | |
|------------------|---|
| Voltage | Two 6F22 batteries DC 18V |
| Consumed current | 10 mA max (13.5 mA max with external MIDI converter) |

Power adapter (optional)

| | |
|--------------|------------|
| Voltage | DC 18V |
| Load current | 0,15 A min |

Dimensions / Weight

| | |
|--|---------------------|
| NET dimensions (WxHxD). (Without power adaptor) | 125x62x106 mm |
| NET weight (without batteries and power adaptor) | 0,54 kg |
| GROSS dimensions (WxHxD). | About 206x83x140 mm |
| GROSS weight | About 0,7 kg |



Use only auxiliary devices and accessories recommended by the manufacturer.

Power adapter
low-voltage connector
contacts arrangement

Расположение контактов
на низковольтном разъёме
сетевого адаптера



Powering the device from battery and power adapter

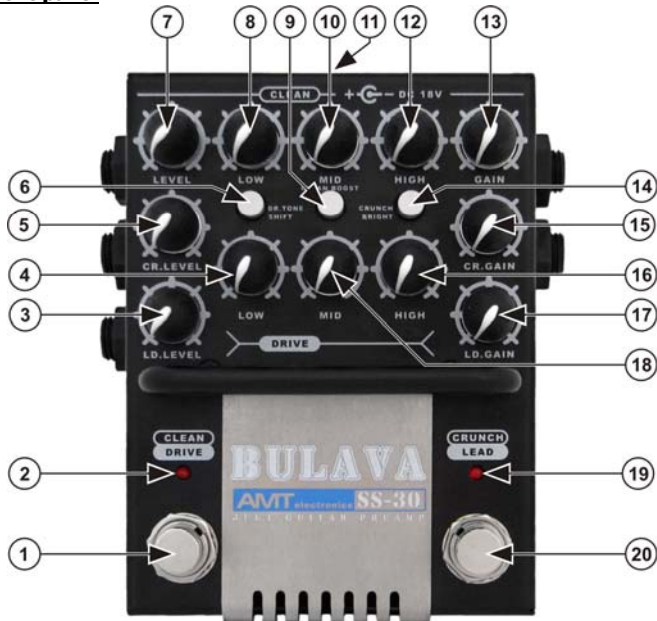
AMT BC-1 is powered either by two 9V 6F22 internal batteries or external DC 18V power adaptor (the required adaptor quality specifications are shown in Specifications section)

When using batteries the device enters ON mode only after insertion of **mono** jack into the device's INPUT.

When using DC 18V adaptor, the device is switched on after insertion of the adaptor's connector into the device - insertion of mono jack is not necessary.

CONTROLS

Front panel



1. **CLEAN / DRIVE** footswitch selects between CLEAN and DRIVE (Crunch/Lead);
2. **DRIVE** (Crunch/Lead) channel operation indicator;
3. **LD.LEVEL** – adjusts the LEAD channel output signal level;
4. **LOW** – adjusts DRIVE (Crunch/Lead) low frequency response;
5. **CR.LEVEL** – adjusts CRUNCH channel output signal level;
6. **DR.TONE SHIFT** switch adjusts high frequency response of DRIVE (Crunch/Lead);
7. **LEVEL** – adjusts CLEAN channel output signal level;
8. **LOW** – adjusts CLEAN channel low frequency response;
9. **CLEAN BOOST** – adds mid frequencies to CLEAN channel;
10. **MID** – adjusts CLEAN channel mid frequency response;
11. **DC-18V** (on the rear panel of the device) for connection of power adapter;
12. **HIGH** – adjusts CLEAN channel high frequency response;
13. **GAIN** – CLEAN channel gain adjustment;
14. **CRUNCH BRIGHT** switch – adds more high-mid frequencies in CRUNCH channel;
15. **CR.GAIN** – adjusts CRUNCH channel gain amount;
16. **HIGH** – adjusts DRIVE (Crunch/Lead) high frequency response;
17. **LD.GAIN** – adjusts LEAD channel gain amount;
18. **MID** – adjusts DRIVE (Crunch/Lead) mid frequency response;
19. **DRIVE** mode operation indicator in **LEAD** mode;
20. **CRUNCH / LEAD** footswitch selects between CRUNCH and LEAD in DRIVE channel;

Left panel



21. **OUTPUT TO MIX** – direct output to mixer's line input;
22. **OUTPUT TO AMP** – direct output to power amp bypassing the built-in preamp;
23. **FX LOOP RETURN** – connects to external effects unit output(-10dB);

Right panel



24. **OUTPUT CONTROL** – control signal output for MIDI converter (such as AMT FS-2MIDI);
25. **INPUT** – for electric guitar connection;
26. **FX LOOP SEND** – connects to external effects unit input (-10dB).

Battery compartment



27. Battery compartment cover;
28. Battery compartment cover screw.



WARNING! All cable connections must be made ONLY WITH PREAMP SWITCHED OFF!

BATTERY REPLACEMENT



WARNING! AMT BC-1 requires two 9V 6F22 batteries. Never use old and new batteries simultaneously. Replace both batteries if necessary. Do NOT mix batteries of different manufacturers and types.

To use (replace) the batteries:

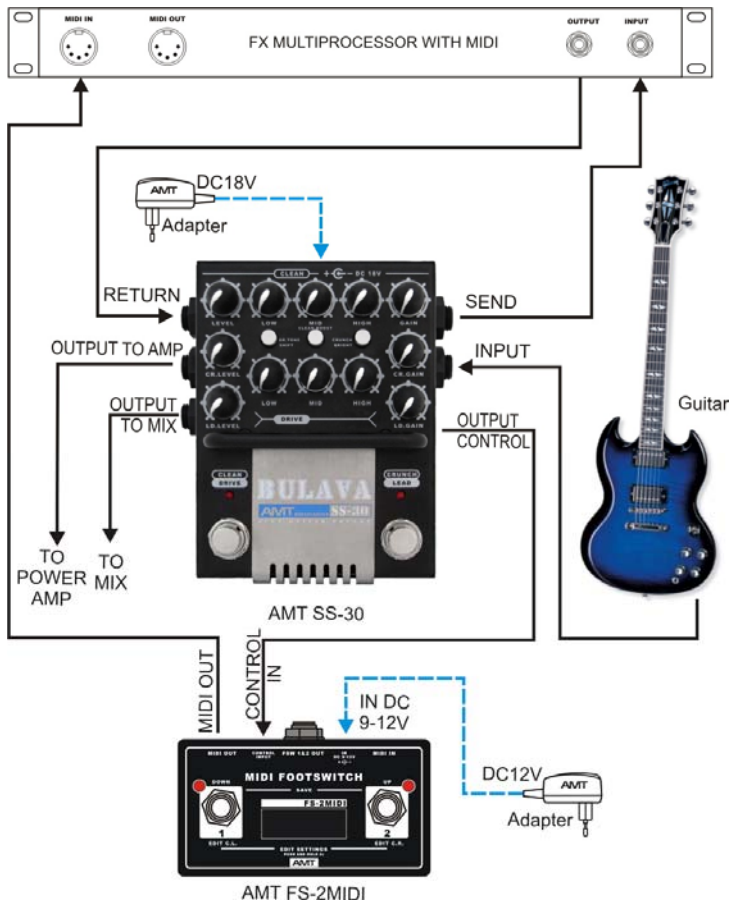
1. Loosen the screw (28), lift the battery compartment cover (27) to access the batteries;
2. Carefully picking one battery with your finger lift it from the compartment and pull it toward yourself;
3. Repeat 2 for the second battery;
4. Insert new batteries using the reverse sequence with correct polarity (battery «+» upwards);
5. Tightly close the battery compartment cover (27). Tighten the screw (28) slightly pressing the cover..

Note in order not to lose the screw (28) do not remove it from the cover (27), just use it to loosen the cover.

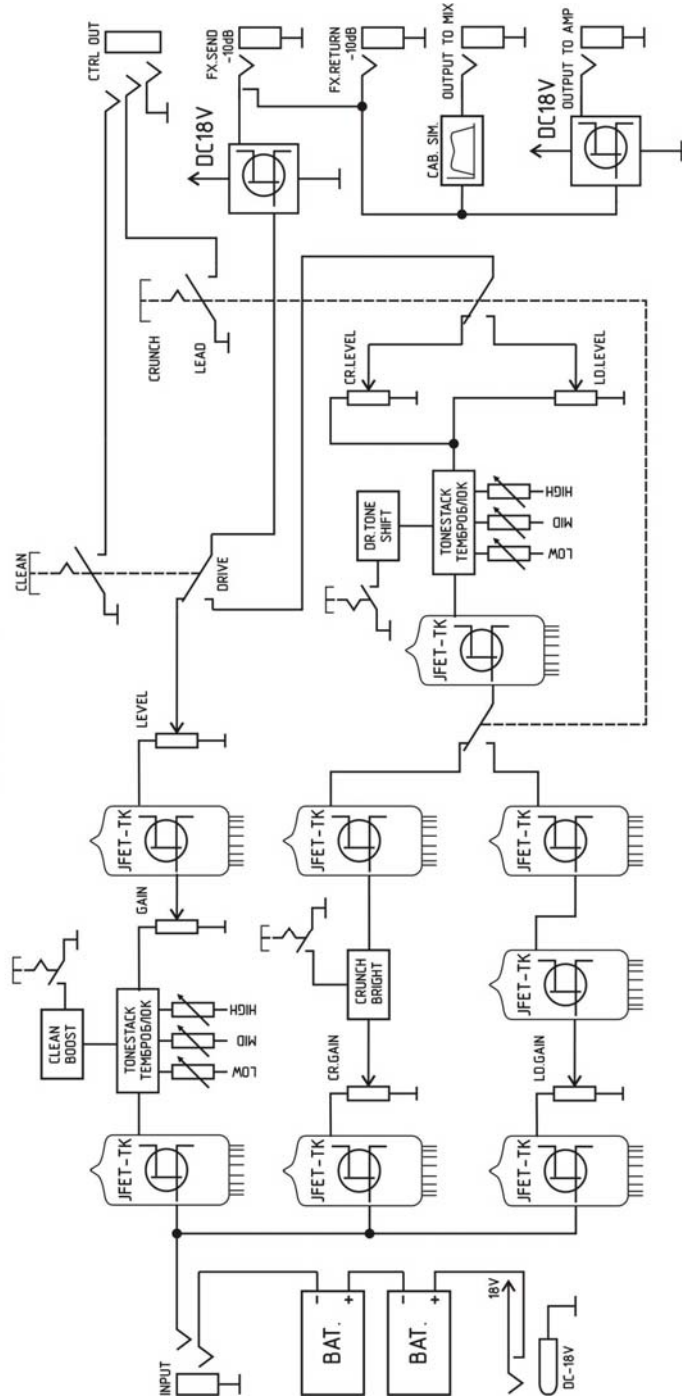
AUDIO CONNECTIONS AND SWITCHING

WARNING! All cable connections must be made **ONLY WITH** **PREAMP SWITCHED OFF!**

Possible audio connections of the preamp with external devices:



AMT SS-30 Block diagram
AMT SS-30 Блок-схема



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