

BJF 100 HEAD

OWNER'S MANUAL 1.0



WARNING! IMPORTANT SAFETY INSTRUCTIONS

Please read this manual carefully before plugging in. Follow all instructions and heed all warnings. Please keep this instruction manual for future reference and for the duration of owning this Olsson amplifier.



What's the meaning of this?

The lightning flash with an arrow triangular symbol is intended to alert the user to the presence of non-insulated "dangerous voltage" within the products enclosure, and may be of sufficient magnitude to constitute a risk of electric shock.



What's the meaning of this?

The exclamation point triangular symbol is intended to alert the user to the presence of important operating and maintenance instructions in the accompanying literature.

- All the safety and operating instructions should be read before this product is operated.
- Keep these instructions.
- Follow all warnings and instructions marked on the product and in this manual.
- Do not use this product near water. Do not place the product near water, bathtub, wash basins, kitchen sinks, laundry tub, wet areas, swimming pools or damp rooms, and the like.
- Do not place objects containing liquid on the product – vases, glasses, bottles etc.
- This product should be located away from heat sources such as radiators, heat registers, stoves, other amplifiers or other products that produce heat.
- Unplug the power supply cord before cleaning the unit exterior (use a damp cloth only). Wait until the unit is completely dry before reconnecting to power.
- This product should be operated only from the type of power source indicated on the rating label. If you are not sure of the type of power available, consult your product dealer or local power company.
- Only connect the power supply cord to an earth grounded AC receptacle in accordance with the voltage and frequency ratings listed on the rear panel of this product.
- To reduce the risk of electrical shock, the grounding of this product must be maintained. In some countries it may be equipped with a polarized alternation-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. Do not defeat the safety purpose of the polarized or grounding-type plug. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched by items placed upon or against them, paying particular attention to the cord in correspondence of plugs, convenience receptacles, and the point where they exit from the amplifier.
- Never use a damaged power cord.
- Unplug this product when left unused for long periods of time or during lightning storms. This will prevent damage to the product due to lightning and power line surges.
- Care should be taken so that objects do not fall and liquids are not spilled into the

enclosure through openings.

- This apparatus is for moderate climates areas use, not suitable for use in tropical climates countries.
- Do not block any ventilation openings.
- Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as:

- When the power-supply cord or the plug has been damaged.

- If liquid has been spilled or objects have fallen into the product.

- If the amplifier has been dropped, or the enclosure damaged.

- If the amplifier has been exposed to rain.

- If the amplifier does not appear to operate normally.

- If the amplifier exhibits a marked change in performance.

- If the amplifier needs tube replacement or biasing.

- Always allow a cold device to warm up to ambient temperature, when being moved into a room. Condensation can form inside it and damage the product, when being used without warming up.
- Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product.

- Use only accessories recommended by the manufacturer.
- Vacuum tube amplifiers generate heat. Maintain at least 20 cm/8" of unobstructed air space behind the unit and at least 50 cm / 20" immediately above it for proper ventilation and cooling of the unit. Keep away from curtains or any flammable objects.
- This product is capable of producing very high sound pressure levels which may cause temporary or permanent hearing damage. Use care when setting and adjusting volume levels during use.
- Do not place naked flame sources, such as lighted candles on the product.
- Never operate the amplifier without a connected speaker or load since this can cause severe damage to the amplifier.
- The user should not attempt any service to the amplifier beyond that described in the owners manual. All other servicing should be referred to qualified service personnel.
- Make sure to use the correct rating and type of fuse as indicated on the rear panel.

INTRODUCTION

Congratulation on purchasing this new amplifier, designed by the well known amp and pedal designer Björn Juhl (BJF) in cooperation with John Olsson at Olsson Amplification in Sweden. It's an unique collaboration and this amp has it's own sound and possibilities.

The BJF100 is a 100W EL34 powered two channel amp capable of producing many styles of music. Both channels can produce distorted sounds where number one can go from seemingly clean to fairly heavy distorted enough to play heavy music; and number two can go from about clean sounds to break up (crunch). The idea is that most guitarist, when running a clean sound, usually don't want it to be clinically clean but wants some shimmer and some limiting on the transients, so the second channels can set this gradually. Typically this is a function produced in the power amp section but here we have successfully moved that function into the preamp instead. Believe it or not but this 100W amp will sound great also at bedroom volumes. Just turn the volume controls down and the sound will stay the same. Also note that the clean and the overdrive channel has no components in common, resulting in two optimized channels which is not very common in this type of amp. Both channels comes with an effective three band EQ and Presence control.

Due to the unique pre-amp design the BJF100 takes pedals extremely well and the transparent FX-LOOP takes care of your time based pedals exceptionally.

The BJF100 amps are hand built by skilled engineers in Sweden and crafted with the finest material for flawless performance.

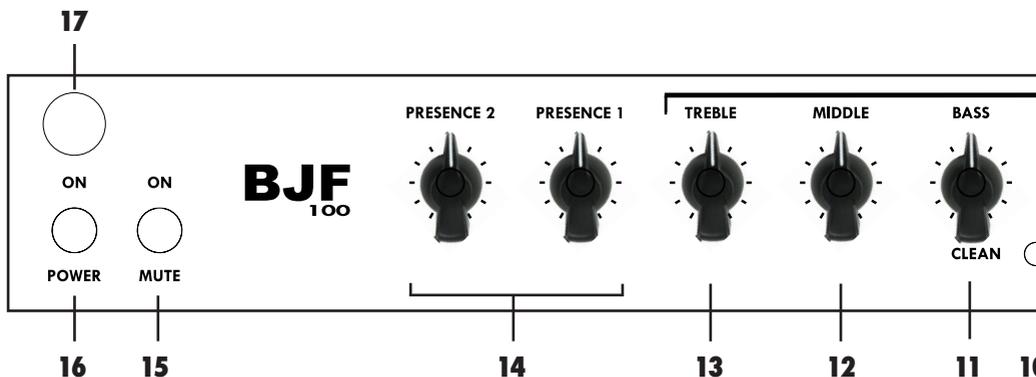
We hope that you will love this amp and if you have any questions don't hesitate to contact us at info@olssonamps.se.

Thank you for choosing an amplifier from Olsson Amplification.

TECHNICAL SPECIFICATIONS

Model:	BJF100
Mains:	Available in 100, 120, 220 or 230/240V versions, 50/60Hz
Mains voltage tolerance:	+/-10%
Max power consumption:	375W
Ambient operating temperature:	0°-35° C
Main fuse 120V:	250V / T4A
Main fuse 220V:	250V / T2A
Main fuse 230/240V:	250V / T2A
HT fuse:	250V / T630mA
Heater fuse power amp:	250V / T8A
Heater fuse pre amp:	250V / T4A
Control voltage fuse:	250V / T500mA
Max output power:	100W in 4, 8 or 16Ω
Input impedance:	1MΩ
FX loop:	Serial with send and return-level adjustments.
Power tubes:	4 - EL34
Power amp:	Fixed biased. Needs BIAS adjustment when changing power tubes.
Pre amplifier tubes:	4 - 12AX7
Dimensions:	640 x 280 x 210 cm,
Weight:	22kg/lbs.

FUNCTIONS - FRONT PANEL



1. INPUT

Input jack for your guitar. Use a good quality screened guitar cable.

2. GAIN

This adds gain/distortion to your sound. At higher settings the compression and the amount of overtones will increase.

3. VOLUME

This is the volume for the overdrive channel.

4. BASS

This controls the amount of bass or bottom end.

5. MIDDLE

This controls the midrange. At lower settings you will have a scooped sound and at higher settings the guitar will be more easily heard in the mix.

6. TREBLE

This controls the higher frequencies.

7. CHANNEL SWITCH

Switches between 1-Overdrive and 2-Clean/Crunch channel when foot-switch is not connected. When using the foot-switch this should be set to 2.

8. GAIN

This adds gain/distortion to your sound. At higher settings the compression and the amount of overtones will increase.

9. VOLUME

This is the volume for the clean/crunch channel. If you like to make it a bit easier to adjust the volume at very low levels, activate the FX-Loop, without anything connected, and decrease the send and return volumes to desired levels.

10. CLEAN/CRUNCH

Switches between clean and crunch sounds. The sound level increases a bit when setting to Crunch.

11. BASS

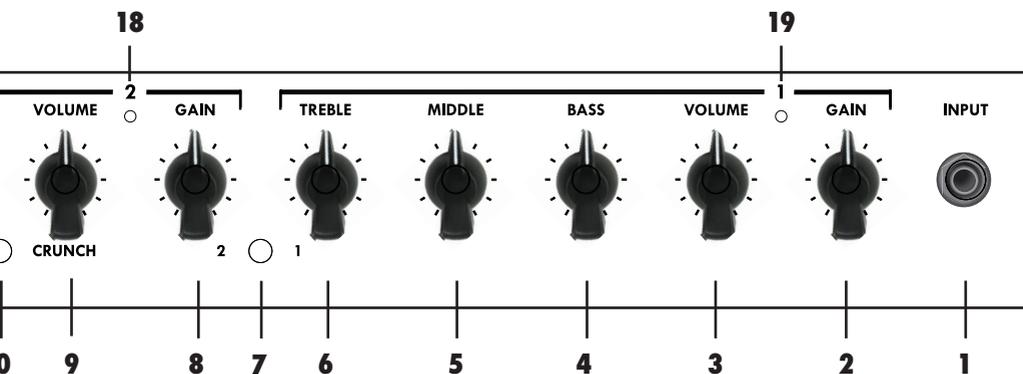
This controls the amount of bass or bottom end.

12. MIDDLE

This controls the midrange. At lower settings you will have a scooped sound and at higher settings the guitar will be more easily heard in the mix.

13. TREBLE

This controls the higher frequencies.



14. PRESENCE 1 AND PRESENCE 2

Adjusts the highs and upper mids in the power amp section. This amp has separate presence controls for each channel.

15. MUTE

When the switch is in mute position the amp will be quiet and you can change the guitar without any disturbing noise or hum.

16. POWER

Mains power on/off switch. Make sure that there is a speaker load connected to the amp before turning on.

17. POWER INDICATOR LAMP

Shows that the amp is turned on.

18. LED INDICATOR CHANNEL 2

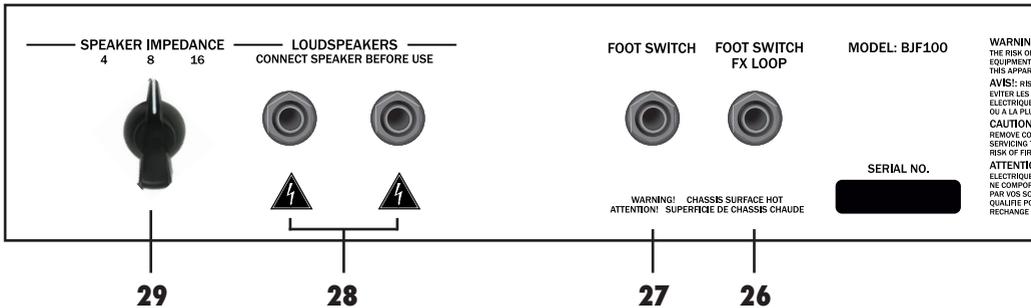
When Channel 2 (clean/crunch) is selected, this LED has two states. GREEN indicates clean mode and ORANGE crunch mode.

19. LED INDICATOR CHANNEL 1

When this LED is RED, channel 1 (overdrive) is selected.

NOTES:

FUNCTIONS - REAR PANEL



20. MAINS INPUT

Connects the amp to the mains electricity supply. Use the supplied IEC power cord.

The MAINS INPUT socket has an integrated fuse compartment. Ensure that the value of a replacement fuse matches the labelling on the amplifier rear panel. You **MUST ALWAYS** switch the amplifier OFF and disconnect it from the mains electricity supply before attempting to access the fuse. If in doubt, contact your dealer.

21-25 SERIAL FX LOOP

BJF100 is equipped with a serial FX loop. If you activate the FX loop without anything connected to SEND and RETURN you can use it to control the overall output volume. This is very useful if you like to play at bedroom volumes and like to use higher settings on the Volume control.

It can also be used as a volume boost. Just activate the loop and adjust the send and return level as you desire. By changing between bypass and active you can now switch between the two levels.

21. SEND LEVEL

Controls the send level to external devices. Start setting it to 3 o'clock. If the connected effect starts to distort more than usual decrease the send level.

22. SEND JACK

Connect your external FX gear input to the SEND jack.

23. FX LOOP SWITCH

Turns the FX loop on or off. When off the loop is completely bypassed. To be able to control the FX loop with the Foot Switch it must be in active position.

24. RETURN JACK

Connect the external FX gear output to the RETURN jack.

25. RETURN LEVEL

When the FX loop is active this controls the overall volume of the amp. Set to 10 o'clock to start with.

26. FOOT SWITCH FX LOOP

Connect a standard foot-switch to this jack if you like to switch the FX loop on and off remotely. To make the foot-switch active you must first activate switch No. 23 on the rear panel.

27. FOOT SWITCH

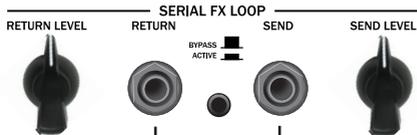
Connect a standard double foot-switch to this jack. One switch will be used for channel switching and the other for switching between crunch and clean. To activate the

CAUTION: SHOCK HAZARD, DO NOT OPEN, TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT EXPOSE THIS TO RAIN OR MOISTURE.
 ATTENTION: RISQUE DE CHOC ELECTRIQUE, NE PAS OUVRIRE, POUR REDUIRE LES RISQUES D'INCENDIE ET DE DECHARGES ELECTRIQUES, NE EXPOSEZ JAMAIS CET APPAREIL A L'HUMIDITE OU A LA PLUIE.
 TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT OPEN, NO USER SERVICEABLE PARTS INSIDE, REFER TO QUALIFIED SERVICE PERSONNEL, TO REPLACE THE FUSE, REPLACE FUSE WITH SAME TYPE AND RATING.
 POUR EVITER LES RISQUES DE DECHARGES ELECTRIQUES, NE PAS OUVRIRE LE COUVERCLE DE CET APPAREIL, NE AUCUNE PIECE SUSCEPTIBLE D'ETRE REPAREE PAR UN UTILISATEUR, FAITES TOUJOURS APPEL A UN TECHNICIEN EN TOUTE REPARATION, UTILISER UN FUSIBLE DE MEME TYPE ET CALIBRE.



OLSSON
 AMPLIFICATION
 DESIGNED AND HAND BUILT BY:
 OLSSON AMPS, HAGERSTEN, SWEDEN

MAINS INPUT
 375 WATTS



LÄITE ON LITETTÄVÄ SUOJAMAADOITUSKOSKETTIMILLA
 VA RUSTETTUUNPISITORASSAAN.
 APPARÄTET MÅ TILKOPPLAS JORDET STIKKONTAKT.
 APPARATEN SKALL ANSLUTAS TILL JORDAT UTTAG.



230/240V ~ 50/60Hz
 MAIN FUSE - T2AE

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foot-switch you must set the Clean/Crunch switch to Crunch and the Channel switch to 2.

NOTES:

28. LOUDSPEAKERS

There are two parallel connected speaker outputs available on the rear panel. Connect the speaker(s) to the jack(s) and set the IMPEDANCE SWITCH as follows:

1x16 ohm

Set the IMPEDANCE SWITCH to 16 ohm

1x8 ohm / 2x16 ohm

Set the IMPEDANCE SWITCH to 8 ohm

1x4 ohm / 2x8 ohm

Set the IMPEDANCE SWITCH to 4 ohm

Warning: Never use the amp without any speaker load.

29. SPEAKER IMPEDANCE SWITCH

Set it to match the connected loudspeaker(s) as described in paragraph #28.

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NOTES:

OLSSON
AMPLIFICATION

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