

BJF-S66

BJF Amp Series | Guitar Amp Head



WELCOME

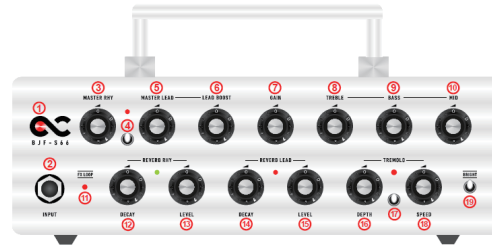
Congratulations on purchasing the One Control BJF-S66 amp!

The BJF-S66 is the very first all solid-state design by our amp and pedal guru, Bjorn Juhl. Over the years, Bjorn has crafted and designed amplifiers for famous players and studio performers all over the world, but the price points of his hand-made amplifiers have put them out of reach of the majority of guitarists. The BJF-S66 makes Bjorn's designs attainable for players on any budget.

While many purists may be hesitant to consider a solid-state amplifier design, Bjorn has never been beholden to any specific design philosophy. He begins with a vision, and selects components that will allow him to achieve that vision, rather than letting the parts themselves dictate the sound.

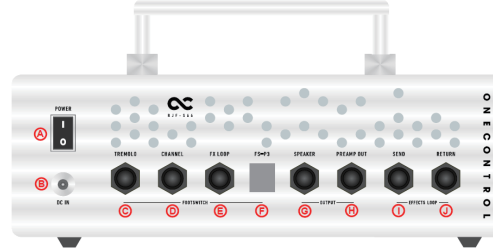
For the BJF-S66, the first guitar amplifier made by One Control, Bjorn identified a certain legendary black-face amp built in 1966 in Fullerton, California as the basis for his tonal palette. It has long been celebrated as a great "plug & play" amplifier, as well as a fantastic pedal platform for those guitarists who like to have a lot of tonal variety at their feet. With modern design and build techniques, the BJF-S66 captures the essence of that famed mid-60's sound, while being small and light enough to fit into a gig bag, yet robust enough to handle nearly any gig you can bring it to. You have selected one of the best compact amplifiers one can find on the market today, designed by one of the most meticulous analog electronics gurus on the face of the earth. Enjoy your One Control BJF-S66.

FRONT PANEL



1. **POWER INDICATOR**
The LED is lit when the power is on.
2. **INPUT**
Standard 1/4" jack for connection to guitar output (or to last pedal if using effects before the amp)
3. **MASTER RHY**
Controls Master Volume of RHYTHM channel.
4. **CHANNEL SWITCH**
Select RHYTHM channel (green LED) or LEAD channel (red LED). This feature can also be controlled via an optional footswitch.
5. **MASTER LEAD**
Controls Master Volume of LEAD channel.
6. **LEAD BOOST**
Adds more drive on LEAD channel.
7. **GAIN**
Controls the gain level of both the RHYTHM and LEAD channels.
8. **TREBLE**
Adjusts the high-frequency tone.
9. **BASS**
Adjusts the low-frequency tone.
10. **MID**
Adjusts the mid-frequency tone.
11. **EFFECTS LOOP INDICATOR**
The LED is lit when effects loop is engaged.
12. **REVERB RHY - DECAY**
Adjusts the reverb decay time on the RHYTHM channel.
13. **REVERB RHY - LEVEL**
Adjusts the level of the reverb effect on the RHYTHM channel.
14. **REVERB LEAD - DECAY**
Adjusts the reverb decay time on the LEAD channel.
15. **REVERB LEAD - LEVEL**
Adjusts the level of the reverb effect on the LEAD channel.
16. **TREMOLO - DEPTH**
Adjusts the depth of the tremolo effect.
17. **TREMOLO SWITCH**
Turn the tremolo effect on or off. This feature can also be controlled via an optional footswitch.
18. **TREMOLO - SPEED**
Adjusts the speed of the tremolo effect.
19. **BRIGHT SWITCH**
Provides a high-frequency boost
(Up: ON / Down: OFF)

BACK PANEL



- A. **POWER SWITCH**
Turns the unit on and off.
- B. **DC IN**
Connect the included 24V DC adapter.
- C. **FOOTSWITCH - TREMOLO**
Connect a single latching footswitch with mono (TS) jack. When a lead is inserted:
Tip/sleeve open - tremolo effect is OFF
Tip/sleeve close - tremolo effect is ON
- D. **FOOTSWITCH - CHANNEL**
Connect a single latching footswitch with mono (TS) jack. When a lead is inserted:
Tip/sleeve open - RHYTHM channel is selected
Tip/sleeve close - LEAD channel is selected
- E. **FOOTSWITCH - LOOP**
Connect a single latching footswitch with mono (TS) jack. When a lead is inserted:
Tip/sleeve open - Effects loop is OFF
Tip/sleeve close - Effects loop is ON
- F. **FS-P3 FOOTSWITCH**
Connect the One Control FS-P3 footswitch (not included) here to enable remote selection of Rhythm/Lead channel select, Effects Loop on/off and Tremolo on/off.
Note: If a mono jack footswitch is inserted in one of the 3 individual Footswitch jacks with a lead, the relative remote control switch of FS-P3 is disabled.
- G. **SPEAKER**
Connect loudspeaker(s) here. Max. output power is 100W @ 4 ohm / 66W @ 8 ohm / 30W @ 16ohm.
- H. **PREAMP OUT**
Sends the preamp output, which is post-master volume. Level is controlled by the master volume controls.
- I. **SEND**
Effects loop send jack. Typically connects to input of first pedal in an external loop.
- J. **RETURN**
Effects loop return jack. Typically connects to output of last pedal in an external loop.

POWER

BJF-S66 is a transistor-based amp that requires no warm-up period. Ensure the power adapter is connected to the amplifier before plugging into an AC outlet. The switch-mode power supply accepts voltages from 100 to 240 AC. It can be connected in any country as long as the correct AC plug is used.

CONNECTING A SPEAKER

Connect the **SPEAKER** output of the BJF-S66 to your speaker cabinet using a 1/4" speaker cable. The power amp of BJF-S66 is a class D device and can drive speakers at 4 Ohms to 16 Ohms. Maximum power output of about 100W will be achieved at 4 ohms, or 66W @ 8 ohms, and 30W @ 16 ohms. The **SPEAKER** output can be left unconnected at the amp end, but just like any transistor amplifier, be careful not to short circuit the speaker output - that will cause damage. You should not disconnect a speaker cable at the speaker cabinet end while the amp is on, as you may accidentally create a short.

CONTROLS

MASTER | GAIN | LEAD BOOST

BJF-S66 features 2 separate channels: RHYTHM and LEAD. Both channels share a **GAIN** control, but additional gain can be added to the **LEAD** channel via the **LEAD BOOST** control. You can adjust the output volume of both channels independently, using the **MASTER RHY** and **MASTER LEAD** controls.

BJORN'S TIP

If you want a clean sound on the RHYTHM channel, set **GAIN** around 5 or 6. If you want more of an "on-the-edge" RHYTHM sound, set **GAIN** closer to 10. If you want the LEAD channel to sound similar to RHYTHM, leave **LEAD BOOST** at zero. Alternatively, if you want more drive on your LEAD channel, increase **LEAD BOOST** level. When **LEAD** channel is selected, both **GAIN** and **LEAD BOOST** are active. This allows you to set up the LEAD channel to have a very similar sound to the RHYTHM channel. **GAIN** and **LEAD BOOST** controls set the sensitivity of preamp, so these can be fine-tuned regardless of output power.

TREBLE | BASS | MID

BJF-S66 features traditional **TREBLE** and **BASS** controls, as well as a **MID** control.
Bass: 70Hz +-20dB
Mid: 450Hz +- 10dB
Treble: 2KHz +-20dB
BJORN'S TIP
For an authentic vintage sound, a good starting point is **TREBLE** at 5, **BASS** at 4 or 5, and **MID** at 2. When midrange is reduced, you get a relative increase in treble and bass. Note that the **MID** control goes to about 20 if compared to vintage amps. The **TREBLE** control works like a traditional amp treble control, and is thus more of a tone balance than actually controlling treble. For a balanced sound to start, try a **TREBLE** setting around 4-6, and turn it up to thin out your sound.

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BRIGHT Switch

Engage this switch to add brightness to your tone. Adds +10dB at 4KHz.

BJORN'S TIP

Although great care has been taken to make bright control without tinnitus inducing frequencies, at live shows it's best to check the brightness and volume of the sound at the position of your audience's ears. The design of the amp will allow you to play loud and bright without damaging ears. That said, it's always wise to care for your audience. And at 4 Ohms, the amp can deliver about 100W's. Even with most tinnitus-inducing frequencies removed, BJJF-S66 still gets very LOUD!

REVERB

Each channel has dedicated Reverb DECAy and Reverb LEVEL controls, allowing you to set up different reverbs on each channel. e.g a large reverb on your clean sound, and a short reverb on the LEAD channel's more driven sounds.

DECAy controls the time required for the reflections to fade away.

LEVEL controls the volume of the reflections.

BJORN'S TIP

For authentic vintage tones, a touch of reverb can do wonders for the treble frequency detail.

Tremolo

This was one of the first effects ever offered to guitarists. The BJJF-S66 TREMOLO controls are traditional DEPTH and SPEED.

BJORN'S TIP

Care has been taken to allow the tremolo to be set so mildly that the effects only affects the decay of notes. This gives you more versatility than a simple on or off. Also, the tremolo can modulate the reverb, i.e. of you set a semi-deep tremolo and medium-large reverb, any transient decayed note will be followed by tremolo'd reverb. If you set this mildly enough, you can have both tremolo and reverb back off during lead lines and appear only at will, controlled by played transients.

OUTPUTS

EFFECTS LOOP (SEND/RETURN)

The Effects Loop (wired in series) allows for EQ, time/delay and other effects to be positioned after the distortion stage of the preamp. The Effects Loop is positioned after the Master Volumes, which allows the SEND to be used as Preamp Out for amp slaving or connecting to a recording console. Likewise, the RETURN can be used for amp slaving from another amp.

PREAMP OUT

Preamp out is a post-master volume signal.

Can be used to feed recording gear, effects processors, or the power amp input on another amp, while making use of all of the BJJF-S66's controls.

SPEAKER

See CONNECTING A SPEAKER section.

FOOTSWITCH

FX Loop, Channel and Tremolo can all be controlled via footswitch, using either the One Control FS-P3 (sold separately) or one or more standard, single-latching footswitches.

FS-P3

Connect the dedicated One Control FS-P3 footswitch to the FS P3 jack via the RJ12 cable.

FX LOOP: when the Effects Loop is engaged, the Loop LED is on.

CHANNEL: The LED is green when the RHY channel is selected, and red when LEAD channel is selected.

TREMOLO: Tremolo LED is on when tremolo is engaged.

Standard Footswitch

You may also connect a standard, single latching footswitch to any of the Footswitch outputs via a single 1/4" TS (mono) cable. The control priority of a separate footswitch is higher than FS-P3, so both a footswitch and the FS-P3 are connected at the same time, the FS-P3 footswitch is disabled.

WARRANTY

When purchased from an authorized dealer, BJJF-S66 is warranted by One Control to be free from defects in materials and craftsmanship under normal use from date of purchase to the original purchaser when purchased from an authorized dealer, for a period of one (1) year. This warranty is not transferable. One Control (or one of its designated Service Centers) will repair or replace at its sole discretion any product or part that it finds to be defective.

If you are the original purchaser of this BJJF-S66, and it requires service of any kind, please first contact the authorized dealer from which it was purchased. If service is indeed warranted, either the owner of the amp or the authorized dealer should contact One Control: support@onecontrol.com

The use and operation of the BJJF-S66 constitutes an agreement of full release of any and all liability connected with its use. Only persons familiar with the operation of high-powered professional audio equipment should operate the BJJF-S66.

In addition, by use of the BJJF-S66, the user agrees to hold One Control and its designers, sales agents, and all other affiliates and related parties harmless in the event of any accident, injury, damage or loss resulting from such use.

IMPORTANT SAFETY INSTRUCTIONS

1. Read and keep these instructions.
2. Observe all warnings and follow all instructions.
3. To prevent fire or electric shock, do not expose this equipment to rain or moisture. Do not use this apparatus near water.
4. Clean only with a dry cloth.
5. To prevent excessive temperature rise, operate product only in free air with unrestricted ventilation. Do not install in confined spaces or near heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
6. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for the replacement of the obsolete outlet.
7. Protect the power cord from being walked on or pinched, particularly plugs, convenience receptacles, and the point where they exit from the apparatus.
8. Unplug the apparatus during lightning storms or when unused for long periods of time.
9. The appliance coupler (or attachment plug) is the mains disconnect device and should remain readily accessible when amplifier is in use.
10. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
11. Changes or modifications made by the user that are not expressly approved by the manufacturer may void your warranty and/or your authority to operate the amplifier.

one-control.com

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For technical support, additional warranty information, and all other information, please contact: support@onecontrol.com