

Royal Crown 30

RC30

Classic Series

30-Watt Cathode-Biased

Tube Amplifier

Head or 2x12 Combo

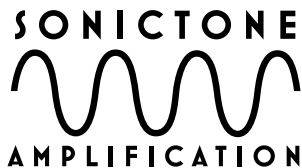
Owner's Manual

www.sonictoneamps.com

Made in the USA

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Introduction

I'd like to personally thank you for purchasing the SonicTone Royal Crown 30 (RC30) tube amplifier. I know how important every player's tone is to them and that consideration goes into every amp. Carefully designed and hand-built here in the U.S., the RC30 is an influential circuit that has been used to power classic rock for decades. From a chimey clean channel to a tight harmonic overdrive, this amp will deliver some fantastic tones for you to use when playing live or in the studio. Good luck and enjoy the amp!

Sincerely,



Nick Sagona

Safety Instructions

1. Always use the correct types of tubes for this amplifier.
2. Always match the impedance to correct value of the speaker load.
3. Do not attempt to bypass the fuses or use different fuse values.
4. Please only use the provided SonicTone footswitch, which is compatible with this amplifier.
5. Please only use an active 5-pin DIN cable to connect the footswitch to the amplifier.
6. Please operate the amplifier in dry and safe conditions.
7. Please store the amplifier in a reasonable, climate-controlled environment.
8. If you are experiencing issues with the amplifier, please have it worked on by a qualified service technician only. Do not attempt to open the amp and work on it yourself.

⚡ WARNING! ⚡

Dangerous and potentially lethal voltages may be present in the amplifier even after it has been turned off and unplugged. Do not open the amp yourself or touch the inside of it. Only have a qualified service technician open up and work on the amplifier.

Features

The Royal Crown 30 (RC30) is a 30-watt, cathode-biased tube amplifier that uses four (4) 12AX7 preamp tubes, four (4) EL84 power tubes and one (1) GZ34 rectifier tube. Its features include:

- 2 independent channels with separate EQs
- Bright switch on channel 1
- Hot/cool control on channel 2
- Tone cut control
- No negative feedback
- Master volume
- Tube-driven buffered FX loop, bypassable and footswitchable
- FX loop series/parallel switch with send and return controls
- Tube/solid-state rectifier switch
- Half-power switch
- 3-way output impedance switch (16, 8 or 4 ohm)
- Two (2) 12" Celestion 25-watt 8 ohm Greenback speakers, wired for 16 ohm (stock combo only)
- Birch plywood cabinet with finger-jointed construction
- 2-button footswitch

Tube/Solid-State Rectifier Switch:

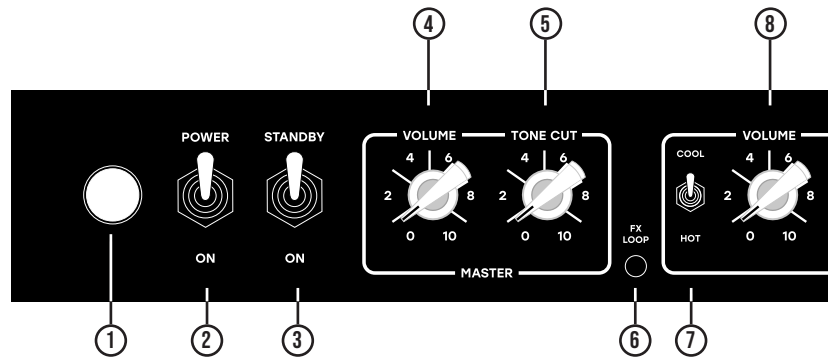
The tube/solid-state rectifier switch is another interesting feature that can give you a subtle tonal option. When set to the tube rectifier, the amp will produce a slightly more vintage sound, where there is a little more compression and sag with the sound. Some players prefer this, saying that it gives the amp a more vocal and spongy sound and that the notes have a nice “touch” or “bloom” to them. However, if that’s not your preference, switching to the solid-state rectifier will give the amp a slightly more aggressive sound with a more firm and immediate response.

Footswitch Operation:

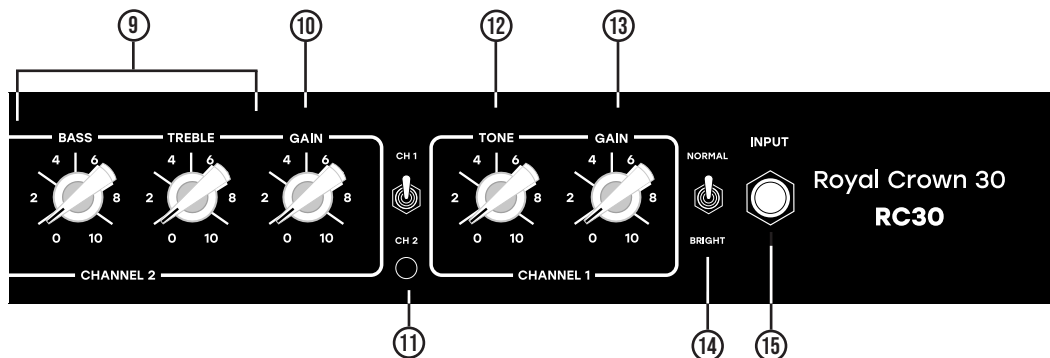
The footswitch requires the active 5-pin DIN cable to be inserted into the footswitch jack on the rear panel as well as the jack on the footswitch. In order for the footswitch to operate correctly, the corresponding switches on the amp must be set to the OFF position. The left button (orange LED) engages channel 2. The right button (green LED) engages the FX loop.

Front Panel

- Pilot Light** - illuminates when the amp is turned on.
- Power Switch** - turns the amp on.
- Standby Switch** - allows the amp to be played. When the standby is off, the tubes are kept warm, but the amp will not make any sound.

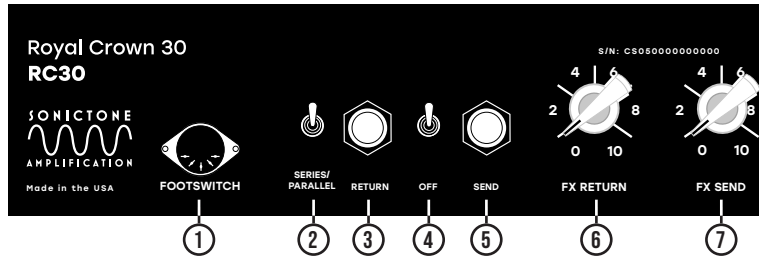


- Master Volume** - adjust the overall master volume of the amp.
- Tone Cut** - a tonal control to adjust the overall brightness of the amp. Increasing this control darkens the tone.
- FX Loop LED** - illuminates when the FX loop is engaged.
- Hot/Cool Switch** - switch to engage more gain and a more aggressive tone for channel 2. When set to “hot”, the channel 2 EQ has a reduced and different effect on the tone.
- Volume** - adjust the overall volume of channel 2.



- Bass and Treble** - passive equalization controls to adjust the tone of channel 2. They have the widest effect and operate normally when on the “cool” setting of the “hot/cool” switch (7).
- Gain** - adjust the overall gain of channel 2.
- CH 1 / CH 2 Switch & LED** - switch to change between channels 1 and 2 when not using the footswitch. The LED illuminates when channel 2 is engaged.
- Tone** - adjust the tone of channel 1.
- Gain** - adjust the overall gain of channel 1.
- Bright Switch** - switch to engage a brighter tone for channel 1.
- Input Jack** - mono input jack to plug your guitar into.

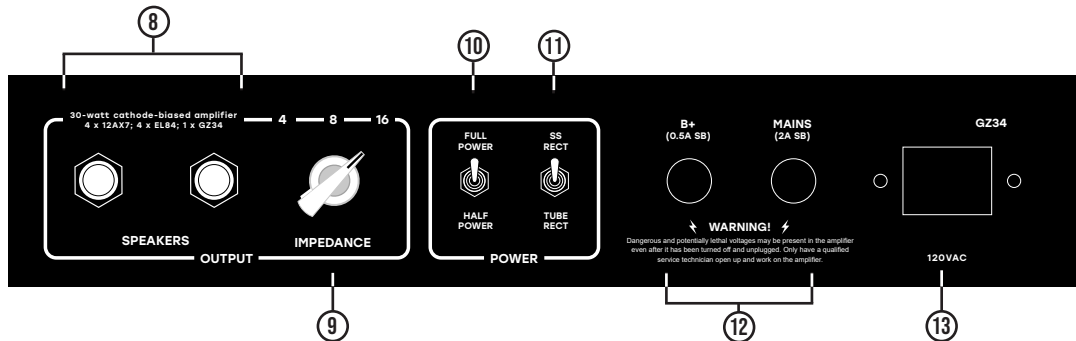
Rear Panel



1. **Footswitch Jack** – 5-pin DIN jack to plug the provided footswitch cable into.
2. **FX Series/Parallel Switch** – switch to operate the FX loop in either series or parallel mode. In parallel mode, the original signal is allowed to pass through unaffected and the send control acts as a “wet/dry blend” to mix the level of affected signal into the mix with the unaffected signal. In parallel, depending on the amount of “wet” signal set by the send control, the overall signal may be louder due to the dry and wet signals being mixed together. In this scenario, it is recommended to use the return control to balance out the overall volume.
3. **FX Loop Return Jack** – mono input jack for the FX loop return signal.
4. **FX Loop Bypass Switch** – switch to fully bypass the FX loop circuit.
5. **FX Loop Send Jack** – mono input jack for the FX loop send signal.
6. **FX Loop Return Level** – control to adjust the level of the return signal to the amp.
7. **FX Loop Send Level** – control to adjust the level of the send signal to the outboard FX chain.

A note about the FX Loop – When the FX loop is off (bypassed), the entire signal will bypass the FX loop circuit altogether. However, the send and return jacks are switched jacks that are connected together when nothing is plugged into them. Therefore, when the circuit is on, signal will be allowed to pass through the FX loop if nothing is plugged into it. Once a cable is inserted into either one of the jacks, that connection is broken and will the signal will go out through the send jack and have to be returned through the return jack. If the FX loop is not being used, the return control can be used as an additional volume control to reduce the volume when the FX loop is on, and then boost the volume when the FX loop is switched off. This will effectively provide a volume “boost” option.

Rear Panel *(continued)*



8. **Parallel Speaker Jacks** – mono input jacks to plug the speaker(s) into. PLEASE NOTE: The jacks are in parallel, so if you plug two equal impedance speaker loads into them, you must set the impedance switch to half their impedance. For example, with two 16 ohm speaker loads plugged in, the impedance switch should be set to 8 ohms.
9. **Impedance Selector Switch** – switch to select the correct impedance of the speaker load hooked up to the amp.
10. **Full/Half Power Switch** – switch to change the power setting between half and full power. This feature removes 2 of the power tubes from the circuit. The amount of power reduction in wattage is approximate.*
11. **Solid State/Tube Rectifier Switch** – switch to change between using the tube rectifier or the solid state rectifier.
12. **Fuse Holders** – receptacles for the amp’s fuses.
13. **AC Jack** – jack to plug the provided AC cord into.

* Please note, the power reduction in wattage **does not** equate to a 50% reduction in overall loudness (dB.)

2-Year Limited Warranty

This amplifier is protected with a limited, 2-year warranty for any and all defective issues with the build workmanship and parts, excluding tubes, transformers and speakers. The warranty does not cover general wear and tear, neglect, misuse or abuse, damage from liquids (water, alcohol, etc.), disasters, acts of God or unauthorized modifications. Any modifications made to the amp by the owner or a technician will void the warranty. The owner is responsible for all warranty shipping costs. Once the warranty work is completed, the customer will be notified and sent a final shipping invoice. The owner then is required to pay the shipping invoice to have the repaired amp shipped back to them. Returned warranty shipping will be insured and will require a signature.

Specifications

Product Series: Classic Series

Product Model: Royal Crown 30 (RC30) Head or 2x12 Combo

AC Input & Fuses:

- U.S. Standard IEC jack rated for 120V @ 60Hz
- 2A slo-blo mains fuse
- 0.5A slo-blo high voltage (B+) fuse

Tubes:

- Four (4) 12AX7 preamp tubes
- Four (4) EL84 power tubes
- One (1) GZ34 rectifier tube

Power Output:

- 30W @ 16, 8 or 4 ohms

Speakers:

- Two (2) 12-inch 25W 8 ohm Celestion Greenbacks, wired for 16 ohm (*Stock Combo Only*)

Footswitch:

- 2-button SonicTone footswitch
- 5-pin active DIN cable required for proper operation

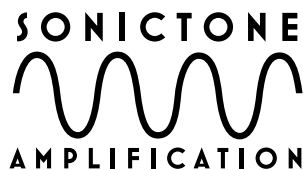
Dimensions:

2x12 Combo

- Width: 30 in
- Height: 20.75 in
- Depth: 10 in
- Weight: 55.0 lbs

Head

- Width: 30 in
- Height: 10.75 in
- Depth: 9 in
- Weight: 32.0 lbs



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