

*Egnater*TM
CUSTOM AMPLIFICATION

REBEL-20

Owner's Manual

Greetings.....

I would like to personally thank you for choosing Egnater as your “Tone Partner”. Our goal is to provide you with the best tools we can to help you express yourself to the fullest. Your amplifier is an integral piece in your never ending “Tone Quest”. Our commitment to helping you achieve that goal is our passion. Our hope is that you will take advantage of the years of innovative tube amp designs we offer and use it to find the sound that is “in your head”.

Thank you for putting your trust in Egnater.

Best Regards,

Bruce Egnater

Bruce Egnater

INSIDE THIS OWNER’S MANUAL

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REBEL: *One who opposes or disobeys authority or control.*

REBEL-20: The guitar amp that defies authority. With a bunch of cool, useful features the Rebel doesn't just defy authority, it is the authority. Sure it's small but it is NOT a toy. The Rebel 20 is a truly professional amp with innovative features and a sound that is anything but small. Inside you'll find three GT12AX7 preamp tubes, a pair of GT6V6 power tubes and a pair of GT6V6 power tubes. Not only do you get the signature Egnater TIGHT and BRIGHT voicing switches, you also have our exclusive wide range gain control that let's you go from really clean to really hot all within the range of the single gain knob. Dial the power from 20 watts to 1 watt with the WATTS knob for bandstand to bedroom volume. We've even included a professional quality effects loop that doesn't "suck tone" and, the coolest feature, the TUBE MIX control. With the TUBE MIX knob counterclockwise you get the classic American sound of the 6V6 powertubes. Set the knob full clockwise to experience the more aggressive, British sound of the EL84 tubes. The best thing is that, for the first time, you can blend the two types of tubes in any proportion you wish to create a truly signature sound.

This compact, innovative little amp was a long time coming. The culmination of many months of designing, testing and tweaking have created a stellar amp that we at Egnater are truly proud of. I hope you enjoy playing your Rebel 20 as much as we did creating it.

IMPORTANT INFORMATION

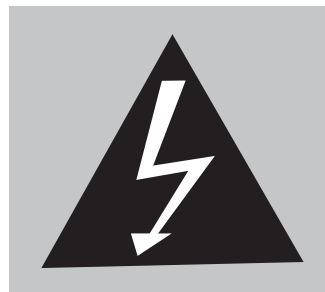
Please keep this instruction manual for future reference and for the duration of owning this Egnater Rebel-20. Please carefully read and understand the instructions inside this user's manual before attempting to operate your new amp.

This instruction manual includes essential safety information regarding the use and maintenance of the Rebel-20. Take special care to heed all warning symbols and signs inside this manual and those printed on the amplifier itself.



WARNING

TO PREVENT FIRE OR SHOCK HAZARD, **DO NOT** EXPOSE THE AMPLIFIER TO WATER OR MOISTURE. DO NOT OPERATE NEAR ANY WATER SOURCE



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?

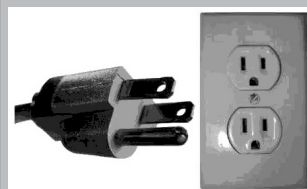
The exclamation point triangular symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the user manual accompanying this amplifier

- 1) Read these instructions.
- 2) Follow all instructions.
- 3) Keep these instructions.
- 4) Heed all warnings.
- 5) DO NOT turn on the amplifier before connecting all other external devices.
- 6) Do not use the amplifier near water. Be extra cautious when moving the amplifier during rain or while transporting it over wet surfaces as water might splash onto the unit.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings and operate in accordance with manufacturer's instructions.
- 8) Do not install near heat sources such as radiators, stoves or other devices that may produce heat.
- 9) Do not defeat the safety purpose of the polarization or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched, particularly at the plug and the point where it exits the amplifier.
- 11) Only use attachments / accessories specified by Egnater Amps.
- 12) Unplug the amplifier before lightning storms and when not in use.
- 13) Refer all servicing to qualified personnel. Servicing may be required when the unit has been damaged in any way such as when power-cord or

plug is damaged, liquid has been spilled into the unit, the unit has been exposed to moisture or rain, does not operate normally, or has been dropped.

- 14) Moisture can damage the amplifier and can cause corrosion of electrical contacts.
- 15) Keep the unit out of extended or intense direct sun light. No containers filled with any type of liquid should be placed on or near the amplifier.
- 16) Do not attempt to replace tubes or bias the amplifier by yourself. Refer to authorized service center.
- 17) Do not remove rear metal grill. No user serviceable parts inside.

WARNING



Handle the power supply cord with care. Do not damage or deform; it may cause electric shock or malfunction when used. Hold plug attachment when removing from wall outlet. Do not pull on the power cord.

FOLLOW THESE SAFETY PRECAUTIONS

1. **READ INSTRUCTIONS** – All the safety and operating instructions should be read before this product is operated.

2. **RETAIN INSTRUCTIONS** – The safety and operating instructions should be retained for future reference.

3. **HEED WARNINGS** – All warnings on the amplifier and in the operating instructions should be adhered to.

4. **FOLLOW INSTRUCTIONS** – All operating and use instructions should be followed.

5. **WATER AND MOISTURE** – The amplifier should not be used near water - for example, a bathtub, washbowl, kitchen sink, laundry tub, wet basement, or near a swimming pool, and the like.

6. **CARTS AND STANDS** – The amplifier should be used only with a cart or stand that is recommended by the manufacturer.

An amplifier and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the amplifier



and cart combination to overturn.

7. **WALL OR CEILING MOUNTING**

– The product should never be mounted to a wall or ceiling.

8. **HEAT** – Amplifier should be situated away from heat sources such as radiators, heat registers, stoves, or other amplifier (including amplifiers) that produce heat.

9. **POWER SOURCES** – 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 supply to your home, consult your product dealer or local power company.

10. **GROUNDING OR POLARIZATION** – This product 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. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

11. **POWER-CORD PROTECTION**

– Power-supply cords should be routed so that they are not likely to be 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.

12. **CLEANING** – The amplifier should be cleaned only as recommended by the manufacturer. Clean by wiping with a cloth



CAUTION: To reduce the risk of electric shock, do not remove any cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this amplifier.

CAUTION

To prevent electric shock, do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

slightly damp with water. Avoid getting water inside the amplifier.

14. **NON-USE PERIODS** – The power cord of the amplifier should be unplugged from the outlet when left unused for a long period of time.

15. **OBJECT AND LIQUID ENTRY**

– Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

16. **DAMAGE REQUIRING SERVICE**

– The amplifier should be serviced by qualified service personnel when:

- A. The power-supply cord or the plug has been damaged; or
- B. Objects have fallen, or liquid has been spilled into the amplifier; or
- C. The amplifier has been exposed to rain; or
- D. The amplifier does not appear to operate normally or exhibits a marked change in performance; or
- E. The amplifier has been dropped, or the enclosure damaged.
- F. The amplifier needs tube replacement or biasing

17. **SERVICING** – The user should not attempt any service to the amplifier beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

18. **VENTILATION** – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack.

19. **ATTACHMENTS** – do not use attachments not recommended by the product manufacturer as they may cause hazards.

20. **ACCESSORIES** – 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.

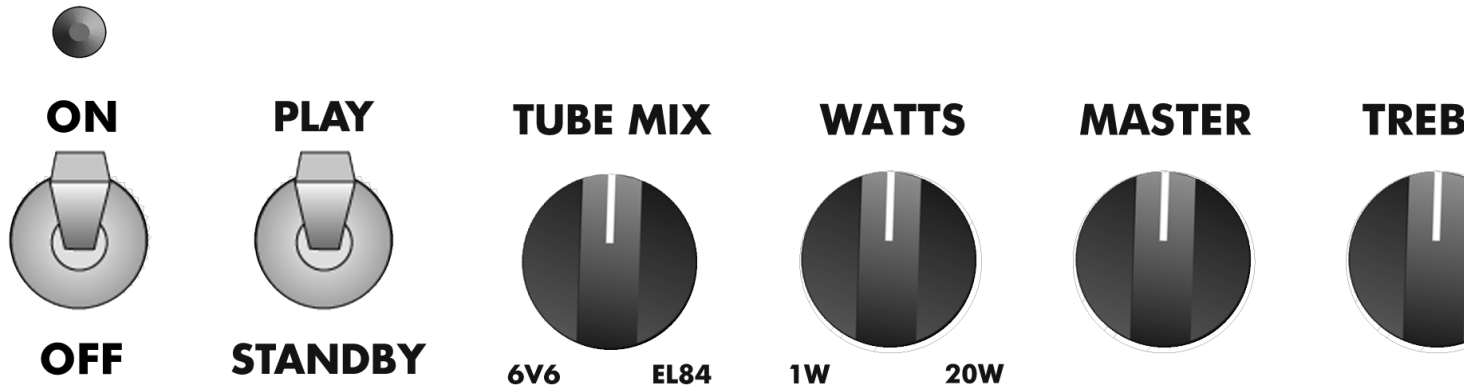
21. **LIGHTNING** – For added protection for this product before a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.

22. **REPLACEMENT PARTS** – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

23. **SAFETY CHECK** – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

24. **FUSES** – Always use the correct rating and type of fuse as indicated on the rear panel. Note the proper rating fuse is determined by the AC line voltage in the country this unit is being operated.

25. **AC SELECT SWITCH:** This switch must be set to match the AC line voltage in the country this unit is being operated. To change the setting, loosen (do not remove) the two screws above and below the slide switch. Temporarily move the protective cover strip and slide the actuator to match the voltage in your country. Place the protective cover strip back over the switch and tighten the two screws.

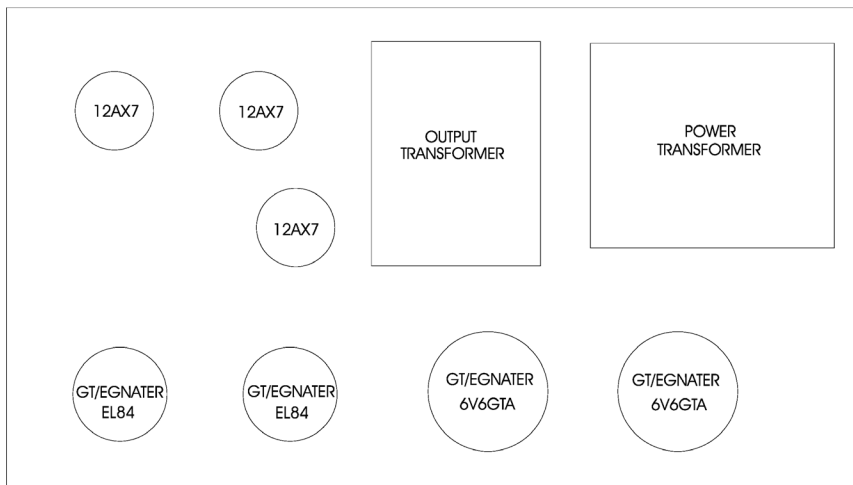


SPECIFICATIONS:

OUTPUT POWER:	1 Watt To 20 Watts Variable
INPUT IMPEDANCE:	1meg Ohm
OUTPUT IMPEDANCE:	4 Ohms, 8 Ohms Or 16 Ohms
EFFECTS LOOP SEND IMPEDANCE:	100 Ohms
EFFECTS LOOP RETURN IMPEDANCE:	220k Ohms
THD:	5% At Rated Output
PREAMP TUBES:	Three Selected Groovetubes™ / Egnater 12AX7A / ECC83
OUTPUT TUBES:	Matched Pair Of Selected Groovetubes/Egnater EL84 Matched Pair Of Selected Groovetubes/Egnater 6V6GTA
TIGHT SWITCH:	-6db @ 180hz
BRIGHT SWITCH:	+8db @ 4khz Max
DIMENSIONS:	14" (W) x 8" (D) x 7.5" (H)

REBEL 20 TUBE LAYOUT

CHASSIS TOP VIEW



TUBES

2 x EL84 Groove Tubes
 2 x 6V6 Groove Tubes
 3 x 12AX7 Groove Tubes

QUICK START GUIDE

LE

MIDDLE

BASS

GAIN

BRIGHT

TIGHT

INPUT



REBEL-20

INPUT: There is one instrument input on the far right. Plug your guitar in here.

TIGHT SWITCH: This switch alters the very low bass response at the input to the preamp. The down position keeps the low bass response intact and is ideal for a full bodied, clean sound. In the up (TIGHT) position, the low end is cut off to prevent the bass from getting loose or flubby. We suggest setting the switch to “TIGHT” when using higher levels of gain or distortion.

BRIGHT SWITCH: With the switch in the UP position, the high end is boosted for added clarity and sparkle. The down position creates a more neutral tone. Experiment using a combination of both the BRIGHT switch and the TREBLE knob to find just the right amount of high end. Note: Turning the BRIGHT switch on and the TREBLE control down sounds very different from turning the TREBLE knob up and the BRIGHT switch off.

GAIN: Controls the level of distortion. Keep this control as low as possible (with the MASTER and WATTS knobs full up) for the cleanest tones. Be aware there is quite a bit of gain on tap here. You can easily push the Rebel-20 into serious high gain territory for surprisingly heavy crunch or searing solo tones just by cranking the GAIN knob up. Try it.....

TREBLE, MIDDLE AND BASS: The heart (and soul) of any amp can be created or destroyed with the tone controls. We have equipped the Rebel with a powerful but very familiar set of tone controls. You will immediately hear the decidedly British character with a tight low end and midrange growl found in many famous (and much larger) classic amps.

MASTER: A conventional master volume control that simply adjusts the overall loudness of the amp and also controls the amount of guitar signal that gets sent to the power amp. The higher you set the MASTER, the more power tube overdrive and compression you will hear.

WATTS: A way cool Egnater feature. This knob allows you to adjust the power output from a maximum of 20 watts down to 1 watt for low volume playing. You will find there is a lot of interaction between the GAIN, MASTER and WATTS controls. For the most poweramp overdrive effect run the GAIN low, the MASTER high and adjust the WATTS knob for the power you want. Add some preamp gain with the GAIN knob and stand back. The Rebel-20 will impress you with its ability to hang with the “big guys”.

TUBE MIX: This knob does a really great thing, too. Inside the Rebel 20 are two independent pairs of power tubes. One pair

are EL84 Groovetubes for an aggressive tone with a strong midrange growl. The other pair is a set of 6V6 Groovetube power tubes which are a smoother sounding, less “gainey” tube for a bit more refined tone. With the knob all the way counterclockwise, only the 6V6 tubes are active. All the way clockwise sends the signal to the EL84 tubes only. You can hear and feel the distinctly different “vibe” of the two pairs of tubes. The best part is being able to actually mix the two pairs in any ratio you like. Setting the knob straight up mixes the output from the pairs equally so you have an equal blend of both. With the continuously variable knob, you can now experience all the subtle shades of tone that can only be found with this exclusive Egnater feature.

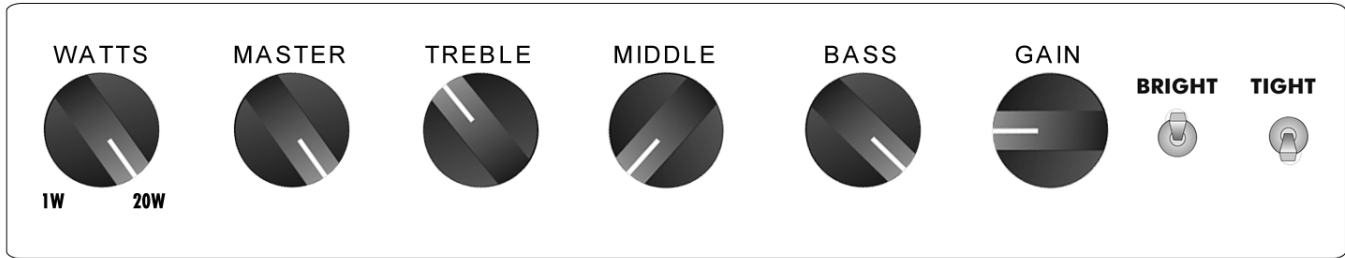
BIG TOGGLE SWITCH: DOWN IS THE STANDBY MODE. Up is the PLAY mode. When first powering the amp on, you should always have the switch in the STANDBY position to give the tubes time to warm up and stabilize. Wait about 30 seconds before switching to PLAY. You can also put the amp in the STANDBY mode during breaks to keep it warmed up and ready to play.

THE OTHER BIG TOGGLE SWITCH: Turns the power on and off. Up is ON. Down is the STANDBY mode.

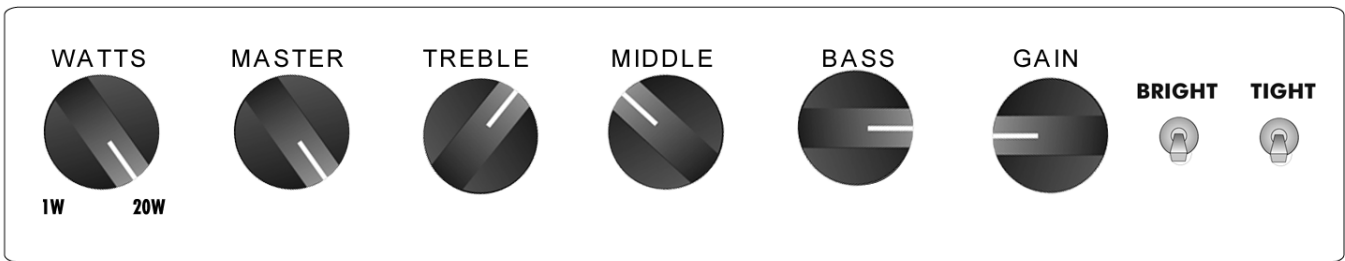
FINDING THE SOUND YOU WANT!

Below are some suggested knob settings to get you started. Keep in mind these are merely suggestions. You are encouraged to experiment to find “your tone”.

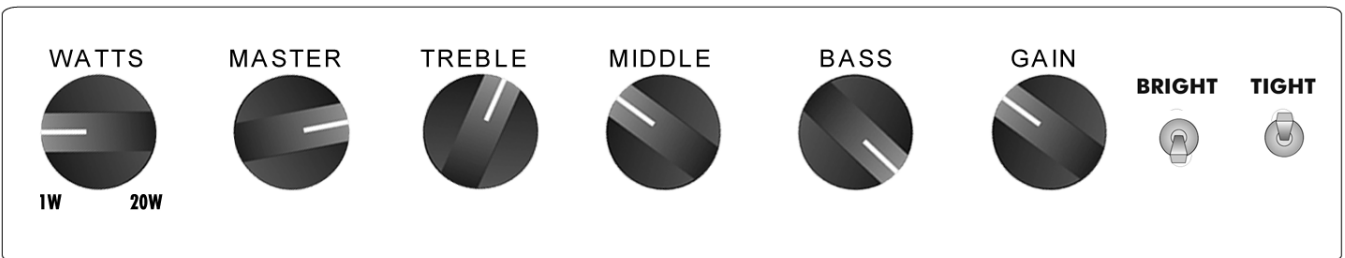
SHIMMERING CLEAN



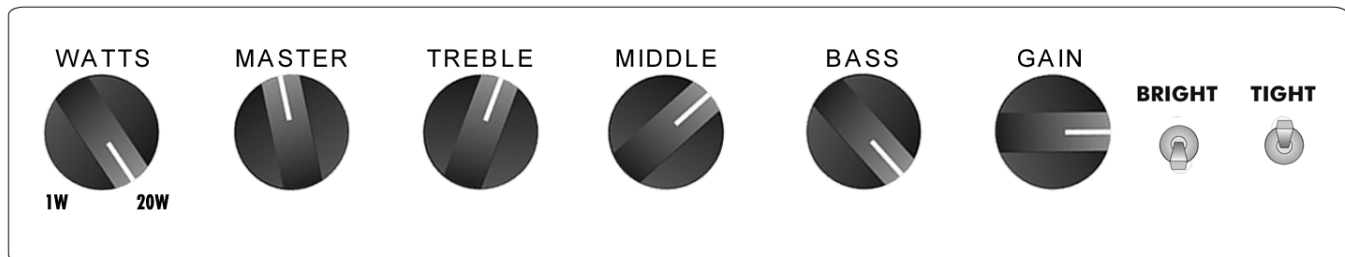
SMOOTH CLEAN



SOFT COMPRESSION

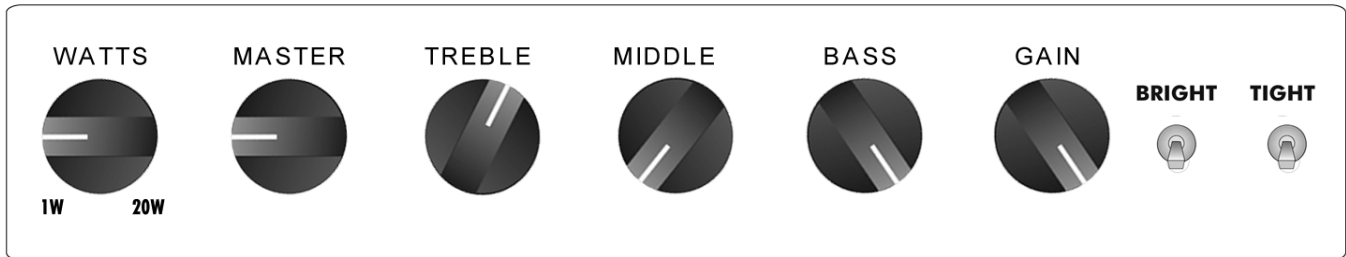


SEARING SOLO

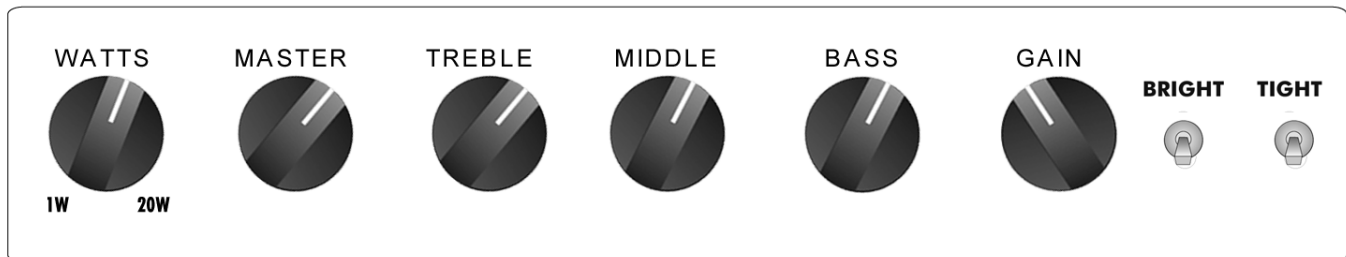


FINDING THE SOUND YOU WANT! con't

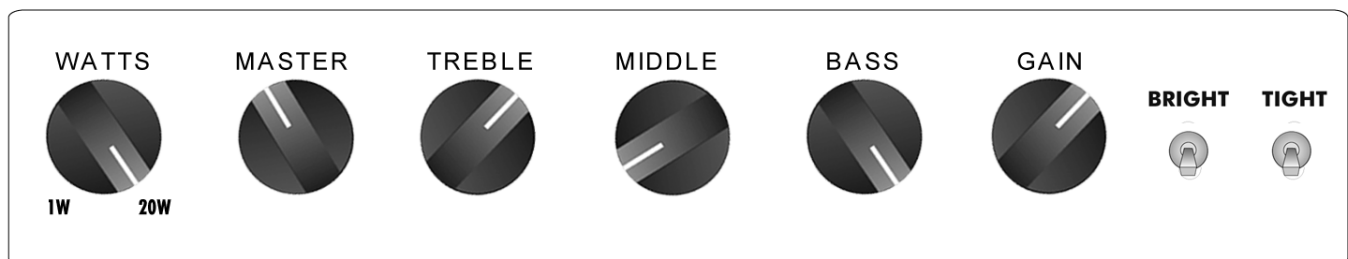
BEDROOM METAL



BLUES DELUXE



CHUNKY

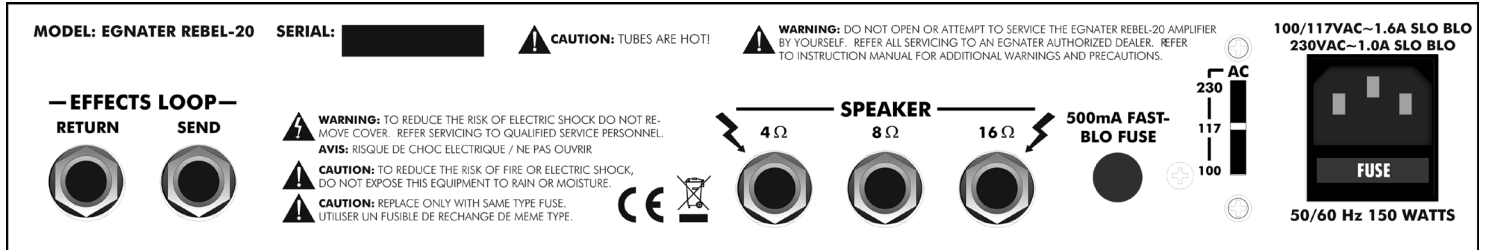


A TIP FOR GETTING THE MOST OUT OF YOUR REBEL-20

The less gain you use, the tighter and more defined your low end will be.

TUBE MIX KNOB: We did not include suggested settings for the TUBE MIX because it is truly up to you as to what sounds best. Experiment with different TUBE MIX settings to find “your sweet spot”. Keep in mind turning the knob more towards the EL84 will sound a bit more aggressive while the 6V6 setting will tend to be smoother.

REAR PANEL



AC INLET: Your Rebel 20 has a detachable IEC type grounded power cord that plugs into the AC inlet connector. Always use the same type of power cord. Below are a few precautions pertaining to this connection.

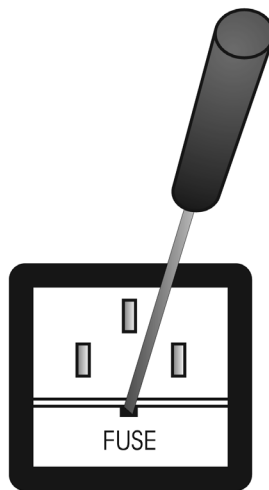
- 1) Always plug your amp into a properly grounded 3 prong AC outlet.
- 2) Never plug your amp into an ungrounded outlet.
- 3) Never remove or break off the 3rd prong safety ground pin from the power cord.
- 4) Never use a damaged or ungrounded power cord. Always use the proper value and type fuse according to the rear panel markings.

The AC INLET has a built in fuse holder. The drawing below shows how to remove the fuse should replacement be needed. **ALWAYS** use the correct type and rating as indicated on the rear panel.

AC SELECT SWITCH: This recessed slide switch must be set to match the line voltage in your location. An incorrect setting will damage your amp and void the warranty.

500mA FAST BLO FUSE: The purpose of this fuse is a form of protection from the effects of a shorted power tube. In the event that a power tube does short, this fuse will open to prevent further damage to the amplifier circuits. A blown fuse here is your indication that one or more power tubes has failed and the amp will require servicing.

SPEAKER OUTPUTS: Plug your speakers in here. Use the correct jack by simply matching the Rebel output to the impedance (OHMS) of your speakers.



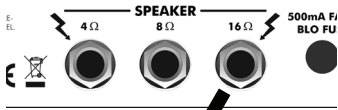
INSERT A SMALL SCREWDRIVER INTO THE SLOT TO SLIDE THE FUSE CAP OUT

EFFECTS LOOP: Your Rebel 20 features a simple series effects loop. Basically an insert patch point. When an external effect is patched into the series send and return jacks, the path is interrupted and 100% of the signal is routed through the effect. This puts some special demands on the effects unit. It must be essentially transparent, meaning it shouldn't "mess" with your tone. Adjust the effects unit levels to match the volume you heard before connecting the return cable. You can check this by pulling the cable in and out while playing and verifying there is no substantial volume difference. This is called "unity gain". A "techie" phrase for "you get out what you put in". The loop is designed for professional level effects units. Many guitar level effects pedals are not made to work in an effects loop. This is simply because they are made to plug a guitar into. The typical signal level in any effects loop is higher than what comes out of your guitar.

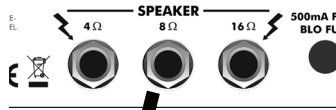
You will know an effect is not made to work in the loop if, when you plug it into the loop, you notice distortion and a loss of volume when performing the "unity gain" check described previously.

CONNECTING YOUR SPEAKERS

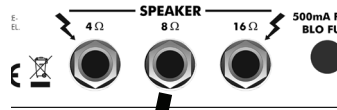
The Rebel-20 to a single Rebel-112X



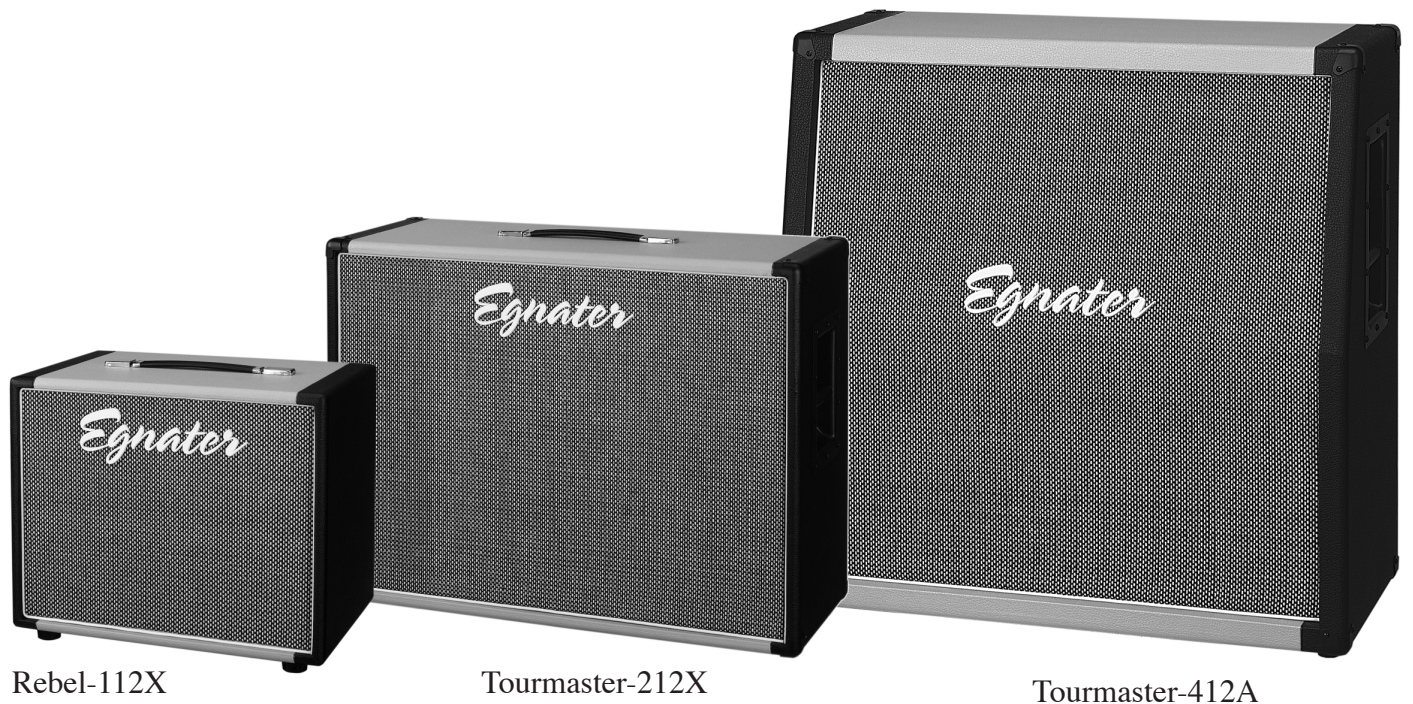
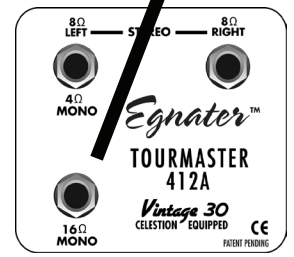
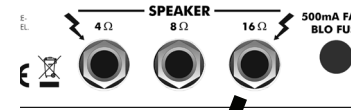
The Rebel-20 to a Rebel-112X stack



The Rebel-20 to Tourmaster-212X



The Rebel-20 to Tourmaster-412A/B



Rebel-112X

Tourmaster-212X

Tourmaster-412A

LIMITED WARRANTY

Thank you for choosing Egnater. Egnater manufactures some of the world's most innovative all-tube amplifier, combos and speaker cabinets. Egnater takes great pride in thoroughly testing each product prior to shipment.

AMPLIFIERS, COMBOS AND SPEAKER

CABINETS: Egnater offers a three (3) year warranty to the original purchaser that an Egnater product will be free from defects in material and workmanship. A dated sales receipt will establish coverage under this warranty. This warranty does not cover service or parts to repair damage caused by accident, neglect, abuse, normal & wear, disaster, misuse, abuse, over-powering, negligence, inadequate packing or shipping procedures and service, repair or modifications to the product which have not been authorized or approved by Egnater. If this product is defective in materials or workmanship as warranted above, your sole remedy shall be repair or replacement as provided below.

TUBES: Egnater warrants the original purchaser that the tubes used in an Egnater amplifier/combo will be free from defects in material and workmanship for a period of 90 days from the original date of purchase. A dated sales receipt will establish coverage under this warranty. This warranty will automatically terminate 90 days after the original retail sales date. This warranty is in lieu of all other expressed warranties. If tubes fail within the 90 day warrant period your sole remedy shall be replacement of tubes as provided below.

RETURN PROCEDURES: In the unlikely event that a defect should occur, follow the procedure outlined below. Defective products must be shipped, together with proof of purchase, freight pre-paid and insured to the Authorized Egnater Service Center or directly to Egnater. If a product must be returned to Egnater for warranty replacement/repair, a Return Authorization Number must be obtained from our Customer Service Department prior to shipping the product.

Please contact our Customer Service Department for the Authorized Egnater Service Center nearest you. Products

must be shipped in their original packaging or its equivalent; in any case, the risk of loss or damage in transit is to be borne by the purchaser. The Return Authorization Number must appear in large print directly below the shipping address. Always include a brief description of the defect, along with your correct return address and telephone number.

When calling to inquire about a returned product, always refer to the Return Authorization Number. If Egnater determines that the unit was defective in materials or workmanship at any time during the warranty period, Egnater has the option of repairing or replacing the product at no additional charge, except as set forth below. All replaced parts become a property of Egnater. Products replaced or repaired under this warranty will be returned via ground shipping within the United States-freight prepaid. Egnater is not responsible for costs associated with expedited shipping, either to Egnater or the return of the product to the customer.

INCIDENTAL OR CONSEQUENTIAL DAMAGE:

In no event will Egnater be liable for any incidental or consequential damages arising out of the use or inability to use of any Egnater product, even if an Egnater dealer has been advised of the possibility of such damages, or any other claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

FOR YOUR PROTECTION: Please complete and mail the Purchase Information Card within (10) ten days of the date of purchase so that we may contact you directly in the event a safety notification issued in accordance with the 1972 Consumer Product Safety Act.

CUSTOMER SUPPORT: Our dedicated staff is ready to help you with any warranty or product questions you may have. Please call 1-877-EGNATER (9:00AM to 4:00PM Pacific Standard Time).

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Egnater™

CUSTOM AMPLIFICATION

First, let me thank you for becoming a Rebel owner. I hope your amp will reward you with many years of musical enjoyment.

I'm sure you've read the manual cover to cover by now, right? There are a couple of things not mentioned in the manual that probably should have been.

So... your first question is going to be..." is it normal for the WATTS knob to make a bit of a static noise when rotating it"? The answer is "yes". The design of the circuit places a small amount of harmless DC voltage on the control. The result is the static noise you hear when turning the knob. It is NOT a defective or dirty control. No amount of turning the knob or cleaning will stop the static. It will not get worse over time as it is a product of the circuit design.

Now to your second question which is, after thoroughly studying the manual of course, "Is it normal for the amp to get a little louder when the TUBE MIX knob is around 1:00"? Yes, this is normal. You could think of it as "the sweet spot" where all four planets....I mean power tubes align in just the right way to create that special combination.

All of us here at Egnater take great pride in creating cool and innovative products. We are also quite obsessive about providing you with the best customer service in the industry. If you should ever have any problems, concerns, questions etc. PLEASE contact us right away. We will bend over backwards to make sure you are taken care of and remain a happy and loyal member of the Egnater family.

THANKS!!!!!!!

Bruce Egnater

Bruce Egnater

**EGNATER CUSTOM AMPLIFICATION
BOUTIQUE AMPS DISTRIBUTION**

Ph: 323-277-4119 ♦ Fax: 323-277-4110 ♦ www.EgnaterAmps.com