



PHANTOM DRGN 45



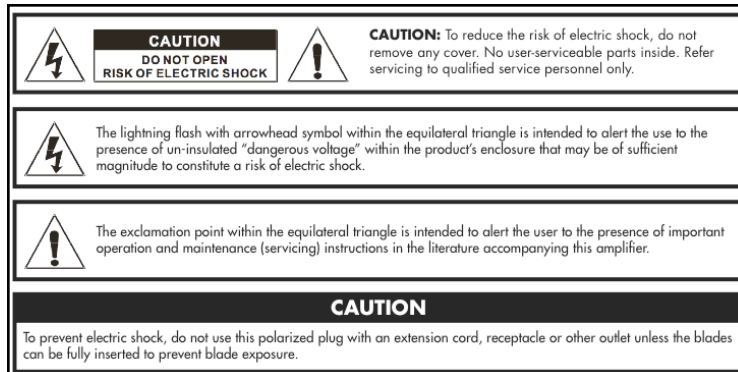
GUITAR AMPLIFIER

USER'S GUIDE

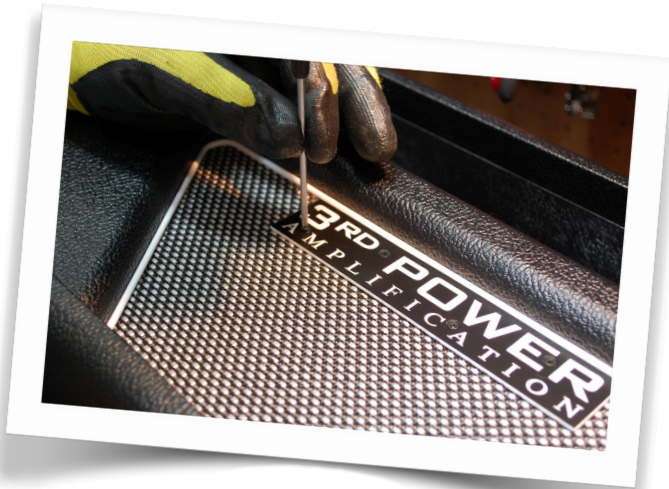
Your 3RD POWER Amplifier is a professional musical instrument amplifier. The information contained herein is current at the time of publication. However, specifications are subject to change without prior notice.

PRECAUTIONS & WARNINGS

- **READ THESE INSTRUCTIONS.**
- **KEEP THESE INSTRUCTIONS.**
- **HEED ALL WARNINGS.**
- **FOLLOW ALL INSTRUCTIONS.**
- **YOUR AMPLIFIER IS LOUD!
EXPOSURE TO HIGH SOUND VOLUMES MAY CAUSE PERMANENT HEARING DAMAGE !
Practice "safe listening."**
- **No user serviceable parts inside. Refer service to qualified personnel. Always unplug AC power before removing chassis.**
- **IF YOU INTEND ON OPERATING THIS EQUIPMENT OUTSIDE OF THE USA: Always insure that unit is wired for proper voltage. Make certain all connections and grounding conforms with local standards. Make certain that you have obtained authorization to operate prior to connecting to power supply.**
- **WARNING: Vacuum tube amplifiers generate heat. To insure proper ventilation always make certain there is at least four inches (100mm) of space behind the rear of the amplifier cabinet.**
- **Keep away from curtains or any flammable objects.**
- **WARNING: Do not block any ventilation openings on the rear or top of the amplifier. Do not impede ventilation by placing objects on top of the amplifier which extend past the rear edge of its cabinet.**
- **WARNING: Do not expose the amplifier to rain, moisture, dripping or splashing water. Do not place objects filled with liquids on or nearby the amplifier.**
- **WARNING: Always make certain proper load is connected before operating the amplifier. Failure to do so could pose a shock hazard and may result in damage to the amplifier.**
- **Do not expose amplifier to direct sunlight or extremely high temperatures.**
- **Always insure that amplifier is properly grounded. Always unplug AC power cord before changing fuse or any tubes. When replacing fuse, use only same type and rating.**
- **Avoid direct contact with heated tubes. Keep amplifier away from children.**
- **Be sure to connect to an AC power supply that meets the power supply specifications listed on the rear of the unit. Remove the power plug from the AC mains socket if the unit is to be stored for an extended period of time. If there is any danger of lightning occurring nearby, remove the power plug from the wall socket in advance.**
- **To avoid damaging your speakers and other music equipment, turn off the power of all related equipment before making the connections.**
- **Do not use excessive force in handling control buttons, switches and controls. Do not use solvents such as benzene or paint thinner to clean the unit. Wipe off the exterior with soft cloth.**



MOVING FORWARD... IN 3D



Thank you for choosing the PHANTOM DRGN 45 by 3RD POWER as an integral part of your musical journey.

Music is a powerful blend of tone, attitude, and technique. When the right combination comes together, something extraordinary happens—it becomes an experience felt by everyone.

For over 30 years, I've had the incredible privilege of performing on stages and in studios, pursuing the sounds and responses

that make music truly come alive. As the principal visionary behind 3RD POWER, every product we design reflects that lifelong pursuit—shaped by my experience, energy, and passion for creating meaningful musical tools.

Each amplifier we build is designed to help you tell your story with greater depth, dimension, and connection.

Moving Forward... in 3D

Rock on!
- Dylana Nova Scott



Features of the PHANTOM DRGN-45:

- Designed in collaboration with D.N. Scott and Joe Satriani as a focused evolution of the DRGN platform
- British-voiced Plexi and cascaded preamp architecture (switchable - Plexi / Cascade)
- All-tube cathode-follower signal path with multi-voiced, JTM and JMP 3-band EQ (switchable)
- Footswitchable preamp gain boost
- Integrated 400Hz frequency boost for enhanced body and fatness on unwound treble strings
- Tube-buffered effects loop
- Hybrid-MASTER™ volume control (patented 3RD POWER technology)
- Venue Mode™ patented multi-environment performance system
- Duet E34L output section delivering 45 watts of power
- Rear-panel bias test points and adjustment control
- Included 1-button professional footswitch
- Limited Lifetime Warranty

Dimensions & Weights:

Subject to change anytime. Please measure your amp carefully if a custom case is being made. These measurements do not include handle and rubber feet.

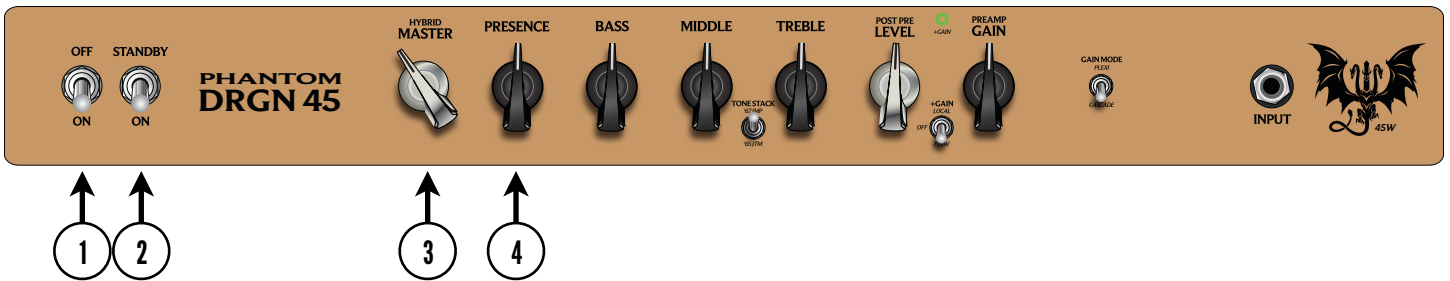
PHANTOM DRGN Amp Head: Dimensions (WxHxD): 24 x 10.5 x 9.33 in.

Weight: 29.5 lb.

112 Combo: Dimensions (WxHxD): 25 x 20.75 x 11 in.

Weight: 57 lb.

Front Panel: Master Section



Preparing to Operate your PHANTOM DRGN-45 Amplifier

Before operating your amplifier, ensure that all connections are properly made, including the power cable, speaker connection, instrument cable, and instrument connection. Confirm that all tubes are correctly installed before powering on the amplifier.

Power Switch (1)

The POWER switch, when placed in the UP position, provides AC wall power to the amplifier.

Standby Switch (2)

The STANDBY switch, when placed in the UP position, puts the amplifier in 'standby mode' allowing the tubes to warm up. When this switch is placed in the DOWN position, the tube circuitry is fully functional and ready to amplify your guitar signal.

Hybrid-MASTER™ Control (3)

The proprietary HYBRID-MASTER control allows you to set the overall volume level of the amplifier independent of the volume and tone settings established on the front panel. The MAIN control is always active and sets the minimum volume of the amplifier (rhythm volume).

Presence Control (4)

The global PRESENCE control affects the overall amount of high-frequency boost or cut applied to the selected upper-frequency range.

Front Panel: Input Section



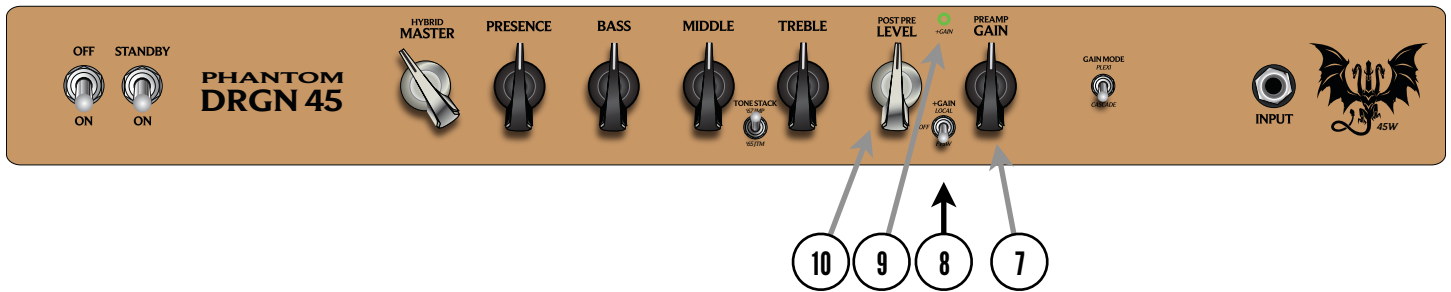
Input Jack (5)

The INPUT jack is used for connecting instrument-level signals to the amplifier.

Cascade/Plexi Switch (6)

This switch sets the window of gain, sustain and saturation on tap and controlled by the Gain knob. In Plexi Mode, you'll enjoy classic Plexi clean and crunch tones. In Cascade Mode, you'll find an abundance of gain, saturation and sustain that remains clear and articulate.

Front Panel: Input Section (Gain Controls)



Gain Control (7)

The GAIN control adjusts the signal gain level while shaping the temperament and overall character of your instrument's sound. Lower settings produce cleaner tones, while higher settings progressively increase preamp saturation, distortion, and compression.

+Gain Switch (8)

The +GAIN switch allows you to adjust the response, feel, and overall aggression of the preamp.

The +GAIN setting is especially well-suited for faster, more aggressive playing styles such as double-picking and sweep-picking, where added precision and control are essential.

This feature may also be assigned to the Footswitch Bus, allowing for convenient remote activation.

+Gain Indicator (9)

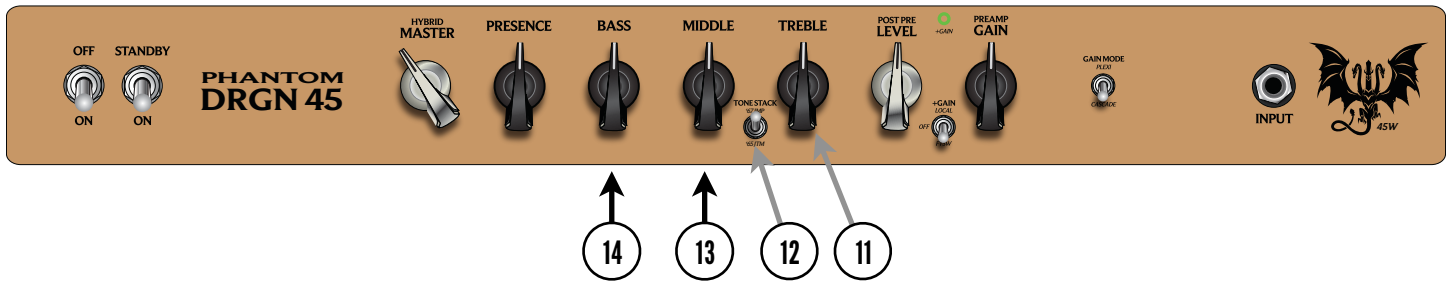
The +Gain indicator shows you the status of the +Gain circuitry. When lit, you have the maximum amount of gain added to the second gain stage of the preamp.

POST PRE LEVEL Control (10)

The Post Pre Level control adjusts the signal level feeding the FX Loop while serving as the final output of the preamp and tone stack circuitry.

Lower GAIN settings typically require higher VOLUME settings, while higher GAIN settings generally require lower VOLUME settings.

Front Panel: Input Section (EQ Controls)



Treble Control (11)

The TREBLE control adjusts the upper-frequency response of the traditional Plexi-style tone stack, shaping overall brightness, clarity, and top-end character.

Carefully voiced around classic British amplifier architecture, this control allows you to fine-tune articulation, bite, and presence while preserving the familiar response, feel, and musicality associated with vintage Plexi designs.

Tone Stack Selector (12)

The TONE STACK SELECTOR switch allows you to adjust the response, feel, and overall voicing of the EQ section. This feature selects between distinct tone stack circuits designed to capture the tonal character and playing response of iconic rock guitar eras.

- JTM: Based on the classic '65 JTM EQ curve. This setting features a scooped midrange, emphasizing lows and highs for a smooth, wide, and highly expressive tonal character.
- JMP: Based on the classic '68 Plexi Super Lead EQ curve. This setting delivers punchy, woody mids with the aggressive growl and authority associated with legendary British rock tones.

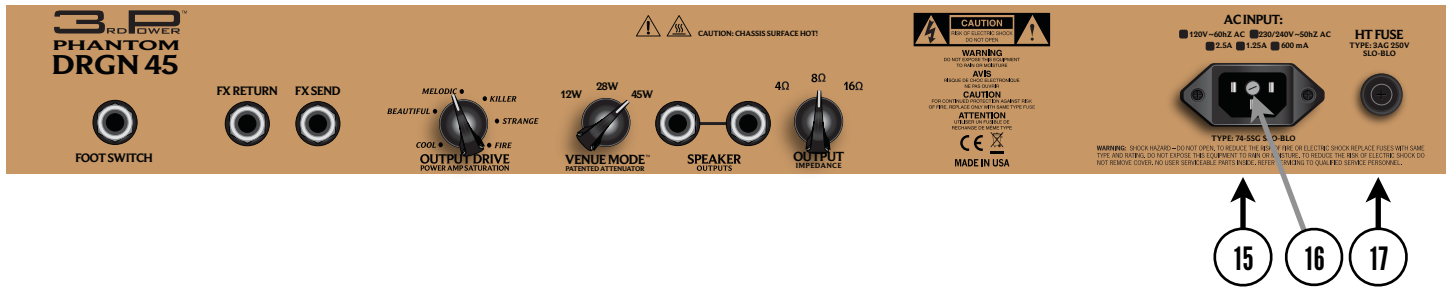
Middle Control (13)

The MIDDLE control allows you to adjust the emphasis and character of the midrange frequencies, shaping the body, punch, and overall voice of your sound.

Bass Control (14)

The BASS control allows you to adjust the depth, weight, and overall character of the lower frequencies in your sound.

Back Panel:



AC Inlet (15)

The AC INPUT socket (TYPE IEC Grounded) is a required connection for operating your PHANTOM DRGN-45 at 120V. This connection requires a standard IEC connector (included with amplifier) in order to plug into USA standard 120V household electrical power.

Mains Fuse (16)

The MAINS FUSE requires a 4 AMP slow blow fuse. This fuse protects your amplifier from voltage peaks from your power outlet or other events that may cause your amplifier to draw more than 4 AMPS of current.

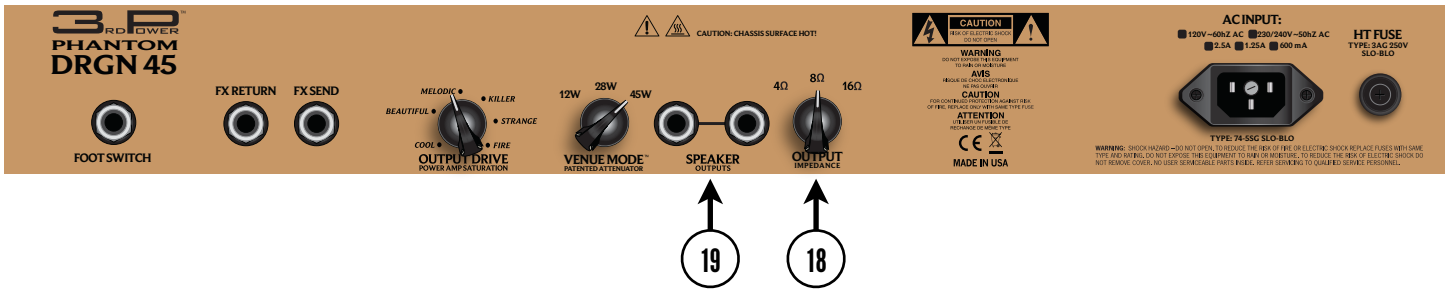
H.T. Fuse (17)

The H.T. FUSE requires a 0.6 AMP (600 milliamp) slow-blow fuse. The H.T. FUSE usually blows if your power tubes fail. This fuse can help protect the amplifier circuitry from being damaged.

SAFETY NOTES:

- Always plug your amp into a properly grounded 3 prong AC outlet.
- Never plug your amp into an ungrounded outlet.
- Never remove or break off the 3rd prong safety ground pin from the power cord.
- Never use a damaged or ungrounded power cord.
- Always use the proper value and type fuse according to the rear-panel markings.
- Never attempt to replace the fuse while the amplifier is still plugged into the power source. The fuse should only be replaced when the power cord has been disconnected from its power source.

Back Panel: Impedance Selection, Speaker Output



Impedance Selector (18)

The 16-OHM SPEAKER position is provided for connecting your amplifier to standard 16 OHM speaker cabinet.

The 8-OHM SPEAKER position is provided for connecting your amplifier to a single 8-OHM, or two 16-OHM speaker cabinets.

The 4-OHM SPEAKER position is provided for connecting your amplifier to a single 4-OHM, or two 8-OHM speaker cabinets.

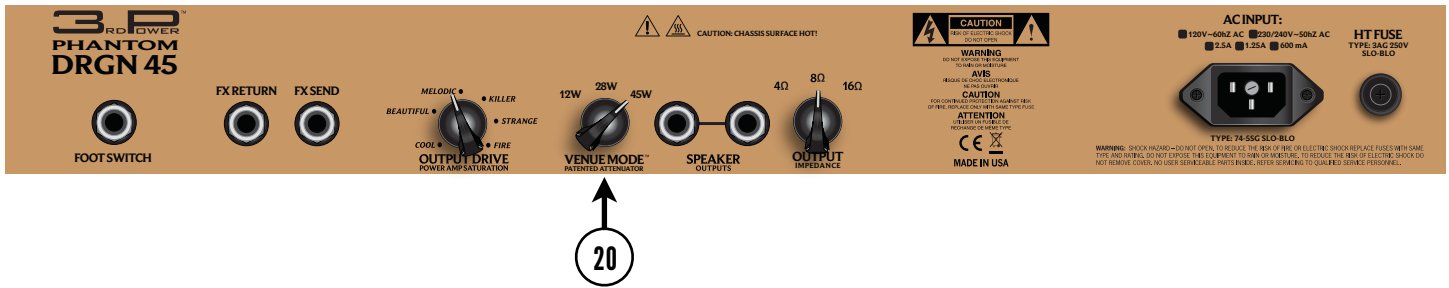
Speaker Jacks (19)

The SPEAKER OUTPUTS are wired in parallel.

SAFETY NOTES:

- Never operate your amplifier without a connected speaker cabinet. This will damage your tubes or transformers - or both.
- Always operate your amplifier with the proper impedance output that matches your speaker cabinet(s).
- In all cases, always use a good quality heavy gauge speaker cable (not a shielded instrument cable) to connect your PHANTOM DRGN-45 to the speaker cabinet(s).

Back Panel: Venue Mode™ Output Attenuator & Recalibration



Venue Mode™ is exclusive 3RD POWER technology designed to preserve the tonal identity, dynamic feel, harmonic complexity, and musical integrity of your amplifier across a wide range of real-world performance environments.

Unlike conventional attenuators that simply reduce volume, Venue Mode™ actively recalibrates amplifier output behavior—including critical power amp relationships—to maintain exceptional tonal consistency, feel, and response at lower operating levels.

This allows your PHANTOM DRGN-45 to deliver inspiring performance whether operating in the studio, at rehearsal, on club stages, or at full concert-level output.

VENUE MODE™ Operating Modes (20):

Home Mode™ (Approx. 12W Output): Designed for home use and lower-volume performance situations while preserving the amplifier's essential voice, feel, and responsiveness.

Studio Mode™ (Approx. 28W Output): Provides an ideal balance of power, feel, and tonal integrity for studio use, rehearsals, medium-sized venues, and a wide variety of live applications.

Stage Mode™ (Approx. 45W Output): Delivers the amplifier's complete stock performance, maximum headroom, and full dynamic authority.

IMPORTANT:

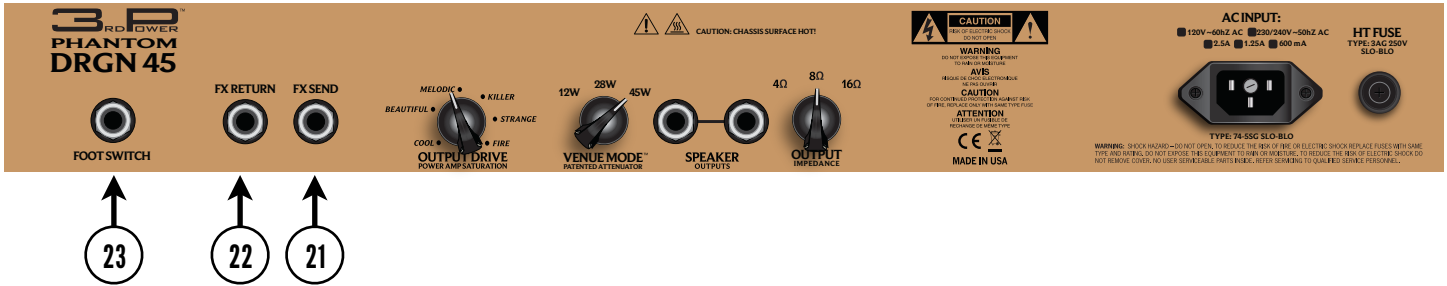
Venue Mode™ is designed to work seamlessly with Hybrid-MASTER™ technology.

Together, these systems provide extraordinary command over:

- Overall volume
- Dynamic response
- Tonal authority
- Performance adaptability

For best results, explore Venue Mode™ and Hybrid-MASTER™ settings together to tailor your amplifier precisely for your environment.

Back Panel: FX Loop



Tube Effects Loop

Experience STUDIO QUALITY TONE from your pedals or multi-effects units by running them through the loop.

FX Send Jack (21)

This 1/4" mono Tip/Sleeve jack feeds signal to your effects device.

FX Return Jack (22)

This 1/4" mono Tip/Sleeve jack accepts the return signal from your effects device.

Foot Switch Connector (23)

The included remote footswitch gives you control of the PHANTOM DRGN-45's +Gain feature. A single button footswitch with attached 1/4" TS cable is included.

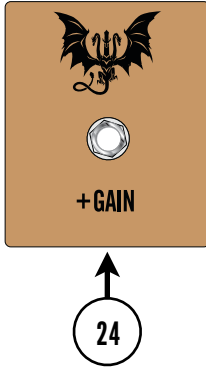
OPERATION NOTES:

- Signal levels at the FX SEND jack are a nominal -10dBV (just under 1V p-p) matching the levels most vintage and modern effect pedals want to see.
- The FX RETURN path brings your signal back into the amplifier with a tremendous amount of headroom (accepting signals as low as -10dBV and as high as +4dBu before the onset of compression).
- In the event of pedalboard failure, plugging directly into the FX RETURN jack can provide an emergency backup signal path through the amplifier's clean power section.

CAUTION:

Avoid "hot swap" any cables connected to the loop while the amplifier is operational. Before breaking any connections, make sure that your amp is on Standby. Failure to do so may result in a loud pop, hum or buzz that could potentially damage your speaker.

Single Button Footswitch Controller:



+Gain On/Off (24):

Adds preamp gain for more sustain (amp must be placed in FS mode - see 14).

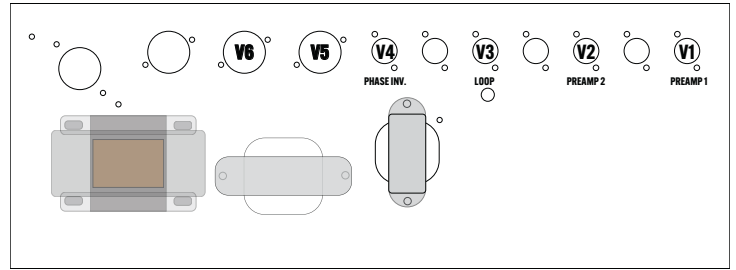
IMPORTANT PEDALBOARD ARRANGEMENT NOTE:

The PHANTOM DRGN-45 foot switching system cannot share an electrical ground with any other device. Care should be used when placing your 1 Button foot switch with other devices on a pedal board or metal tray so as to keep the unit isolated from metal to metal connection.

Tube Layout/Socket Location:

Tube Layout and Requirements:

- V1: JJ 12AX7 (Preamp)
- V2: Sovtek 12AX7LPS (Tone Stack)
- V3: Sovtek 12AX7LPS (FX Loop)
- V4: Sovtek 12AX7LPS (Phase Inverter)
- V5/V6: JJ E34L Output tubes



Swapping Tubes and Bias Adjustment

Your PHANTOM DRGN-45 comes from the factory biased at 38ma idle current for JJ E34L tubes. Bias adjustments are not intended to be user-serviceable. Attempting to adjust the bias yourself will expose you to very dangerous high-voltage electricity that can kill you. Special test equipment and knowledge of amp circuits and tubes are required to perform this function. **DO NOT ATTEMPT TO DO THIS YOURSELF.**

DO NOT ATTEMPT INTERNAL MODIFICATIONS YOURSELF.

Tube Replacement

The safest method for changing tubes is to have your amplifier serviced by a qualified technician. If you choose to replace tubes yourself:

- Power the amplifier off completely
- Disconnect the power cord from the AC outlet
- Allow sufficient time for all tubes to fully cool before handling

WARNING:

- Never touch tubes while the amplifier is powered on or shortly after operation
- Tube temperatures can cause severe burns
- Tubes are made of glass and may break if mishandled

ELECTRICAL WARNING:

Do not touch tube pins during removal or installation. Even after the amplifier has been powered off and unplugged, internal capacitors may retain potentially lethal high-voltage charge. Failure to observe proper precautions may result in severe injury or death.

LIMITED LIFETIME WARRANTY

Thank you for choosing 3RD POWER Amplification. We take great pride in designing and building high-quality tube amplifiers and speaker cabinets, and every product is thoroughly tested prior to shipment.

Amplifier Coverage

Your amplifier is warranted to the original purchaser to be free from defects in materials and workmanship for as long as you own it. Proof of original purchase, including a dated sales receipt, is required to establish warranty coverage.

This warranty does not cover service, repair, or replacement resulting from:

- Accident
- Neglect
- Abuse
- Misuse
- Over-powering
- Normal wear
- Natural disasters
- Unauthorized modifications or repairs
- Improper packing or shipping procedures

If a defect in materials or workmanship is confirmed, your sole remedy under this warranty is repair or replacement at the discretion of 3RD POWER.

Tube Warranty

3RD POWER warrants the original purchaser that factory-installed tubes will be free from defects in materials and workmanship for a period of 30 days from the original purchase date.

A dated sales receipt is required for warranty validation.

If tubes fail within this 30-day period, your sole remedy is replacement of the defective tubes.

Return Procedures

In the unlikely event that warranty service is required:

1. Obtain a Return Authorization (RA) Number from 3RD POWER prior to shipping
2. Ship the product freight prepaid and insured
3. Include proof of purchase
4. Use original packaging or equivalent protective packaging
5. Clearly mark the RA number in large print below the shipping address
6. Include:
 - Brief description of the defect
 - Correct return address
 - Telephone number

Important:

The purchaser assumes all risk of loss or damage during transit to 3RD POWER.

LIMITED LIFETIME WARRANTY: Continued

Warranty Service

If 3RD POWER determines that the product is defective under warranty terms, we may:

- Repair the product
- Replace the product

at no additional charge, except for non-covered costs.

All replaced parts become property of 3RD POWER.

Products repaired or replaced under warranty will be returned via standard ground shipping within the United States at no charge.

3RD POWER is not responsible for expedited shipping charges to or from our facility.

Limitation of Liability

3RD POWER shall not be liable for incidental or consequential damages arising from the use or inability to use any 3RD POWER product, even if advised of the possibility of such damages.

Some states do not allow limitations on incidental or consequential damages, so certain exclusions may not apply.

This warranty provides specific legal rights, and you may also have additional rights that vary by state.

Product Registration

For your protection, please complete and return the Purchase Information Card within ten (10) days of purchase. This allows us to contact you directly in the event of a product safety notification in accordance with the Consumer Product Safety Act of 1972.

Customer Support

Our dedicated support team is available to assist with product-related questions.

3RD POWER Customer Support
(615) 945-3393
Monday–Friday
9:00 AM – 5:00 PM Central Time



3RD POWER Amplification
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