



# Windsor™ Studio All-Tube Combo Amplifier

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## Operating Manual





Intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



Intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**CAUTION:** Risk of electrical shock — DO NOT OPEN!

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

**WARNING:** To prevent electrical shock or fire hazard, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus. Before using this apparatus, read the operating guide for further warnings.



Este símbolo tiene el propósito, de alertar al usuario de la presencia de “(voltaje) peligroso” sin aislamiento dentro de la caja del producto y que puede tener una magnitud suficiente como para constituir riesgo de descarga eléctrica.



Este símbolo tiene el propósito de alertar al usuario de la presencia de instrucciones importantes sobre la operación y mantenimiento en la información que viene con el producto.

**PRECAUCION:** Riesgo de descarga eléctrica ¡NO ABRIR!

**PRECAUCION:** Para disminuir el riesgo de descarga eléctrica, no abra la cubierta. No hay piezas útiles dentro. Deje todo mantenimiento en manos del personal técnico cualificado.

**ADVERTENCIA:** Para prevenir choque eléctrico o riesgo de incendios, este aparato no se debe exponer a la lluvia o a la humedad. Los objetos llenos de líquidos, como los floreros, no se deben colocar encima de este aparato. Antes de usar este aparato, lea la guía de funcionamiento para otras advertencias.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur la présence d'une tension dangereuse pouvant être d'amplitude suffisante pour constituer un risque de choc électrique.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur qu'il ou qu'elle trouvera d'importantes instructions concernant l'utilisation et l'entretien de l'appareil dans le paragraphe signalé.

**ATTENTION:** Risques de choc électrique — NE PAS OUVRIR!

**ATTENTION:** Afin de réduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve à l'intérieur aucune pièce pouvant être réparée par l'utilisateur. Confiez l'entretien et la réparation de l'appareil à un réparateur Peavey agréé.

**AVIS:** Dans le but de réduire les risques d'incendie ou de décharge électrique, cet appareil ne doit pas être exposé à la pluie ou à l'humidité et aucun objet rempli de liquide, tel qu'un vase, ne doit être posé sur celui-ci. Avant d'utiliser de cet appareil, lisez attentivement le guide fonctionnant pour avertissements supplémentaires.



Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Stärke sind, um einen elektrischen Schlag verursachen zu können.



Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.

**VORSICHT:** Risiko — Elektrischer Schlag! Nicht öffnen!

**VORSICHT:** Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vom Anwender repariert werden könnten. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.

**WARNUNG:** Um elektrischen Schlag oder Brandgefahr zu verhindern, sollte dieser Apparat nicht Regen oder Feuchtigkeit ausgesetzt werden und Gegenstände mit Flüssigkeiten gefüllt, wie Vasen, nicht auf diesen Apparat gesetzt werden. Bevor dieser Apparat verwendet wird, lesen Sie bitte den Funktionsführer für weitere Warnungen.

## IMPORTANT SAFETY INSTRUCTIONS

**WARNING:** When using electrical products, basic cautions should always be followed, including the following:



1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. 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 type plug has two blades and a third grounding plug. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
11. Only use attachments/accessories provided by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13.  Unplug this apparatus during lightning storms or when unused for long periods of time.
14. 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.
15. Never break off the ground pin. Write for our free booklet "Shock Hazard and Grounding." Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
16. If this product is to be mounted in an equipment rack, rear support should be provided.
17. Note for UK only: If the colors of the wires in the mains lead of this unit do not correspond with the terminals in your plug, proceed as follows:
  - a) The wire that is colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow.
  - b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black.
  - c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. This electrical apparatus should not be exposed to dripping or splashing and care should be taken not to place objects containing liquids, such as vases, upon the apparatus.
19. Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

Duration Per Day In Hours	Sound Level dBA, Slow Response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 or less	115

According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Ear plugs or protectors to the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

**SAVE THESE INSTRUCTIONS!**

# ENGLISH

## Windsor Studio™ All-Tube Combo Amplifier

Congratulations on your purchase of the new Windsor Studio tube combo amplifier from Peavey. The Windsor Studio offers more “bang for your buck” than any other combo amp on the market and the tones that you will experience from this 1 x 12” Class A powerhouse will more than hold their own with the most sought after boutique models on the market, at a fraction of the price. That said, the Windsor Studio is still made from top-shelf components with all of the reliability that you have come to expect from Peavey.

This versatile new single-channel combo offers several new features that make it perfectly suited for any guitar amp application, whether it be home recording or live use. The all-new Recording Output circuit provides a microphone-simulated XLR connection for patching to PA or recording gear. Since this 100% passive (no clipping) circuit taps directly from the speaker output, the resulting sound gives a simulation of a microphone strategically placed in front of whatever speaker you are using....no more tripping over mics on stage! It also features the new “Power Sponge™” feature, which is a continuous power level control, between the output and speaker, which provides a constant load impedance to the output, with respect to the setting of the control and the impedance of the speaker....the result is a “transparent” output attenuator that is variable from full power to none at all. Furthermore, the “Power Sponge” setting does not affect the level or the Recording Output. In addition, a variety of common large power tubes may be used without the need for re-biasing. The Windsor Studio is the perfect combination of simplicity and flexibility.



Before you begin playing through your amplifier, it is very important to ensure that the product has the proper AC line voltage supplied. You can find the proper voltage for your amp printed next to the IEC line (power) cord on the rear panel of the unit. Each product feature is numbered. Refer to the front panel diagram in this manual to locate the particular features next to its number.

Please read this guide carefully to ensure your personal safety as well as the safety of your amplifier.

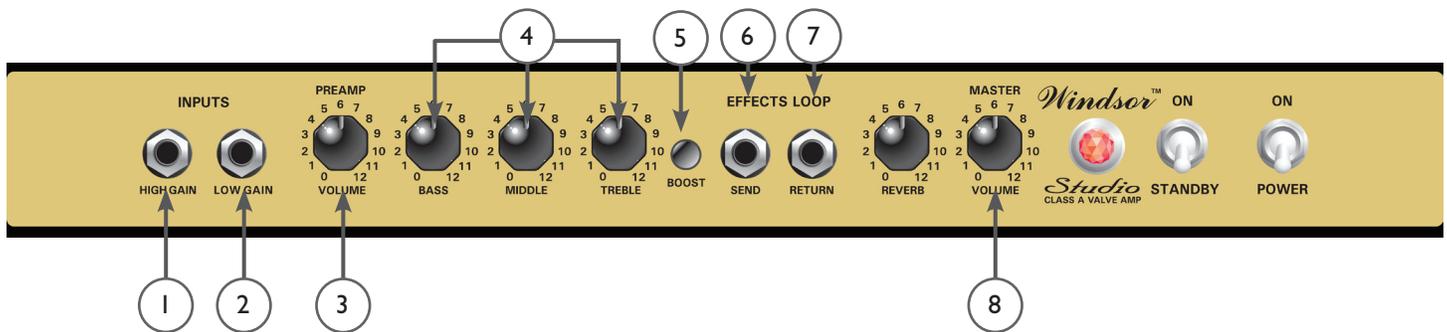
### FEATURES:

- Class A Power Amp can use various octal power tubes including EL34 (stock), 6L6GC, 6550, 6CA7, KT88, KT66, or any variation on these types.
- 2 x 12AX7/ECC83 Preamp tubes
- 0-20W (rms) into 4, 8, or 16 Ohms with Power Sponge™ output power attenuator
- No negative feedback in Power Amp
- High & Low Gain Inputs
- Preamp Volume
- Low, Mid, and High EQ
- Footswitchable Boost function
- Footswitchable Effects Loop
- Master Volume
- Spring Reverb
- Transformer balanced XLR Recording Output w/passive mic simulator
- XLR Ground Lift switch
- Dual Speaker Outputs
- Impedance Selector
- 1/4” TRS footswitch jack for Boost and Loop defeat
- Jeweled Pilot Lens
- Power and Standby switches
- 12” Blue Marvel Speaker



**VENTILATION:** For proper ventilation, allow 24" clearance from nearest combustible surface.

## Front Panel



### 1 HIGH GAIN INPUT -

Used for most electric guitars. It is 10dB more sensitive than the LOW GAIN INPUT (2).

### 2 LOW GAIN INPUT -

Provided for instruments that have extremely high outputs, which may result in overdriving or distorting the HIGH GAIN INPUT (1). If both inputs are used simultaneously, the levels of both are that of the Low Gain Input.

### 3 PREAMP VOLUME -

Controls the input signal level to the preamp, before the 2nd tube stage.

### 4 BASS, MIDDLE, AND TREBLE EQ -

Passive tone controls that regulate the low, mid, and high frequency response character of the amplifier, respectively. This is a conventional “tonestack” circuit in which these three controls are highly interactive with one another.

### 5 BOOST -

Acts as a frequency selective extension to the MASTER VOLUME control (8). When depressed, this switch boosts the overall volume level to the power amp section while reducing low frequency content, which can create flatulent sounds, in excess. This function is very well suited to boosting for solos or for use with harmonica and can be controlled via an optional footswitch (#00592720).

### 6 EFFECTS SEND -

Standard 1/4” output jack for supplying signals to external low-level effects or other signal processing equipment. The EFFECTS LOOP can be defeated via an optional footswitch (#00592720).

### 7 EFFECTS RETURN -

Standard 1/4” input jack for returning signals from external low-level effects or other signal processing equipment. This is a switching jack and may also be used as a direct input to the power amplifier section, while disconnecting the internal preamp at the same time. The EFFECTS LOOP can be defeated via an optional footswitch (#00592720).

### 8 MASTER VOLUME -

Controls the overall level of the preamp signal being sent to the power amplifier.

## Front Panel



### 9 REVERB -

Controls the amount of reverberation that is mixed into the signal path.

### 10 PILOT LIGHT -

Illuminates when AC power is being supplied to the amplifier.

### 11 STANDBY SWITCH -

Placing this switch in the “STANDBY” position will effectively shut the amplifier off while keeping all heater and bias supplies active and ready to go. Leave this switch in the “STANDBY” position for a minimum of one (1) minute after initially engaging the POWER SWITCH (12). This is also a useful feature, since much tube wear comes from the heating and cooling of the actual tube. Leaving the unit in “STANDBY”, for short durations, allows the tubes to remain at their optimal operating temperature while you are not playing. For extended periods, it is best to disengage both the STANDBY and POWER switches.

### 12 POWER SWITCH -

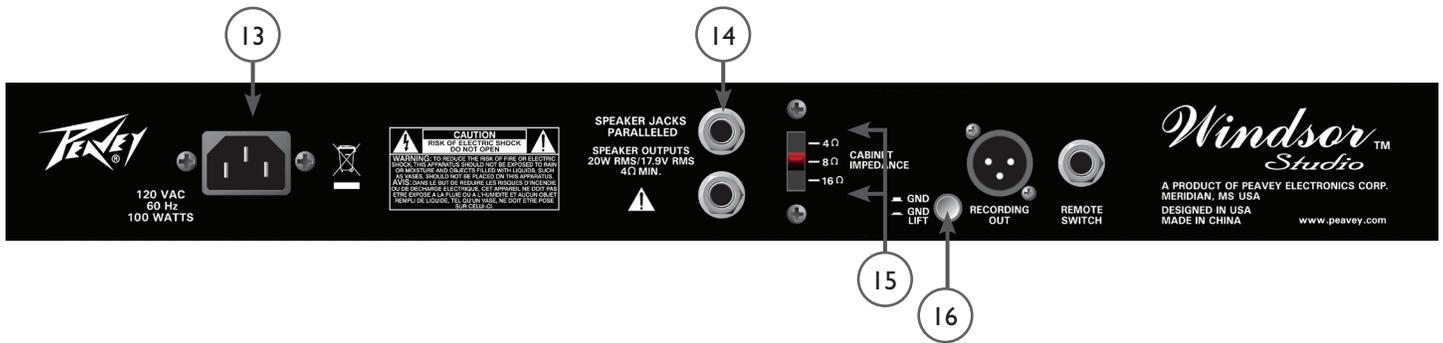
To apply power to the amplifier, flip this switch to the “ON” position. The red PILOT LIGHT (10) will illuminate, indicating that AC power is being supplied.



## ⚡ WARNING ⚡

THE ON/OFF SWITCH IN THIS APPARATUS DOES NOT BREAK BOTH SIDES OF THE MAINS. HAZARDOUS ENERGY MAY BE PRESENT INSIDE THE ENCLOSURE WHEN THE POWER SWITCH IS IN THE OFF POSITION.

## Rear Panel



### 13 AC POWER INLET -

This is the receptacle for an IEC line cord, which provides AC power to the unit. Connect the line cord to this connector to provide power to the unit. Damage to the equipment may result if improper line voltage is used. (See line voltage marking on unit).

Never break off the ground pin on any equipment. It is provided for your safety. If the outlet used does not have a ground pin, a suitable grounding adapter should be used and the third wire should be grounded properly. To prevent the risk of shock or fire hazard, always make sure that the amplifier and all associated equipment is properly grounded.

#### NOTE: FOR UK ONLY

As the colors of the wires in the mains lead of this apparatus may not correspond with the colored markings identifying the terminals in your plug, proceed as follows: (1) The wire which is colored green and yellow must be connected to the terminal which is marked by the letter E, or by the Earth symbol, or colored green or green and yellow. (2) The wire which is colored blue must be connected to the terminal which is marked with the letter N, or the color black. (3) The wire which is colored brown must be connected to the terminal which is marked with the letter L, or the color red.

To avoid the risk of electrical shock, do not place fingers or any other objects into empty tube sockets while power is being supplied to unit.

### 14 EXTERNAL SPEAKER JACKS -

Provided for connection of external speaker cabinets. Load Impedance is selectable via the IMPEDANCE SELECTOR (15) on the Windsor Studio.

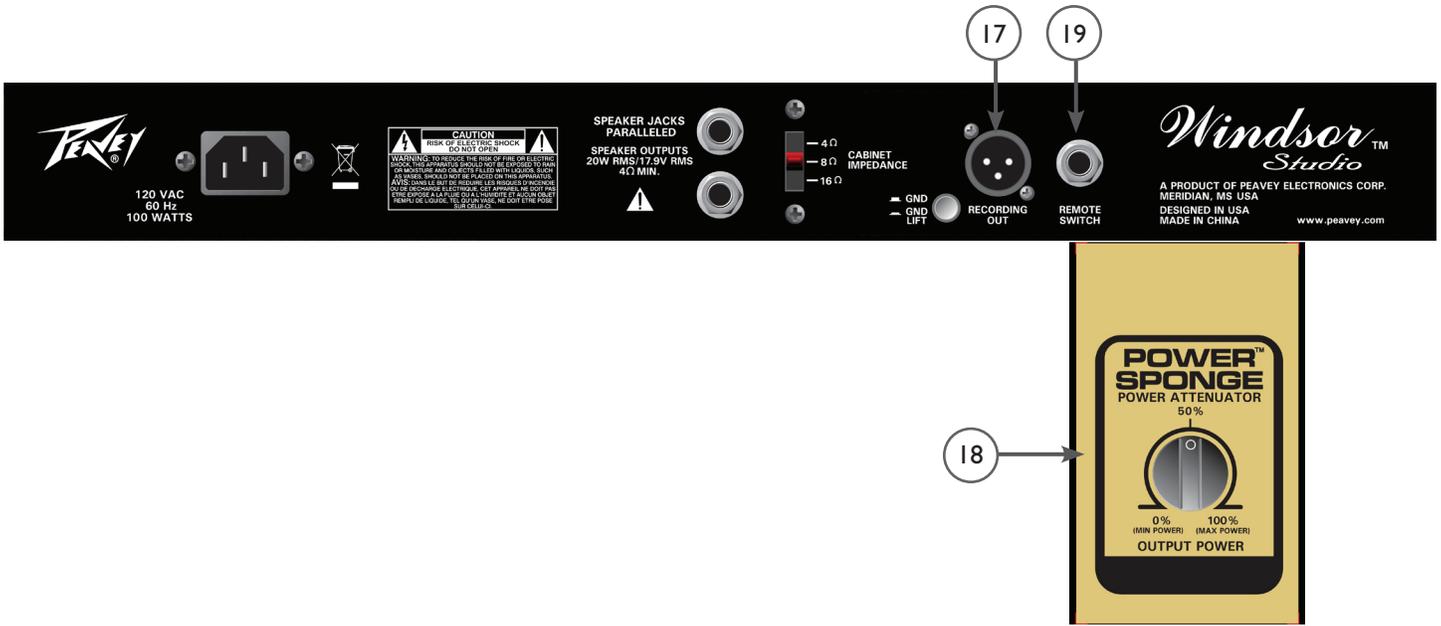
### 15 IMPEDANCE SELECTOR -

This three position switch allows appropriate selection of speaker cabinet impedance. If two enclosures of equal impedance are used, the switch should be set to half of the value of the two individual cabinets. For instance, two 16 Ohm enclosures necessitate an 8 Ohm setting, while two 8 Ohm enclosures would require a 4 Ohm setting. Minimum recommended load impedance is 4 Ohms.

### 16 GROUND LIFT -

Depress this switch to break any ground loops that may be causing hum between your amplifier and recording device or PA system.

## Rear Panel



### 17 RECORDING OUTPUT -

This balanced XLR jack is used to route a microphone-simulated signal (tapped directly from whatever speaker is being used) from the amplifier to an external recording device or PA. It utilizes a 100% passive circuit to avoid clipping, noise, and other shortcomings of active circuitry.

### 18 POWER SPONGE™ -

This unique control allows the user to adjust the nominal output power level of the amplifier. It can be used in conjunction with the PREAMP VOLUME (3) and MASTER VOLUME (8) to attain infinite combinations of power amp and preamp distortion at ANY volume level. This control DOES NOT affect the level of the RECORDING OUTPUT (17) and provides an appropriate load to the amplifier at all settings.

### 19 REMOTE SWITCH -

Provided for connection of the optional footswitch (#00592720). The footswitch is used to defeat the EFFECTS LOOP (6/7) and the BOOST (5). LEDs on the footswitch illuminate when the respective function is active. When using the footswitch, always insert the plug fully (second click) into the REMOTE SWITCH jack to ensure proper operation.

# Windsor™ Studio Guitar Amplifier

## SUGGESTED SETTINGS



### 1.) Thick Clean / Classic Lead:

Preamp Volume = 5 - 7

Bass = 11 - 12

Middle = 5 - 7

Treble = 5 - 7

Master Volume = Adjust to taste.



### 2.) High Gain / Hard Rock:

Preamp Volume = 9 - 11

Bass = 7 - 9

Middle = 7 - 9

Treble = 5 - 7

Master Volume = Adjust to taste.

**\*NOTE: Use your guitar's volume control for additional control over preamp and power amp distortion. The point of clipping will depend heavily on the guitar that you are using and your control over it's output, via the volume control.**

# Windsor™ Studio

## Guitar Amplifier

### SPECIFICATIONS

#### Rated Power and Tube Compliment

14-16W (rms) with the following: EL34 (stock), KT77, 6CA7, CV1741, CV741, E34L.

10-12W (rms) with the following: 6L6GC, 5881, KT66, 7581, 5932, N66, EL37, DL37, CV1947, CV1075, CV586.

17-20W (rms) with the following: 6550, KT90, KT100, CV5220, 12E13, 7D11.

#### Power Consumption:

100W, 60Hz, 120VAC (Domestic)  
 100W, 50/60Hz, 230VAC (Export)  
 100W, 50/60Hz, 100VAC (Japan)

#### Preamp Inputs:

High Gain Impedance: Very-high Z; 470K ohms  
 Low gain Impedance: High Z; 68K ohms (-10dB)

#### Effects Loop:

Send Load Impedance: 22K ohms or greater  
 Send Nominal Output Level: 0 dBV, 1.0 V(rms)  
 Return Input Impedance: 1 Megohm  
 Return Nominal Input Level: 0 dBV, 1.0 V(rms)

#### Dimensions:

18.5"(H) x 21.38" (W) x 10.25" (D)

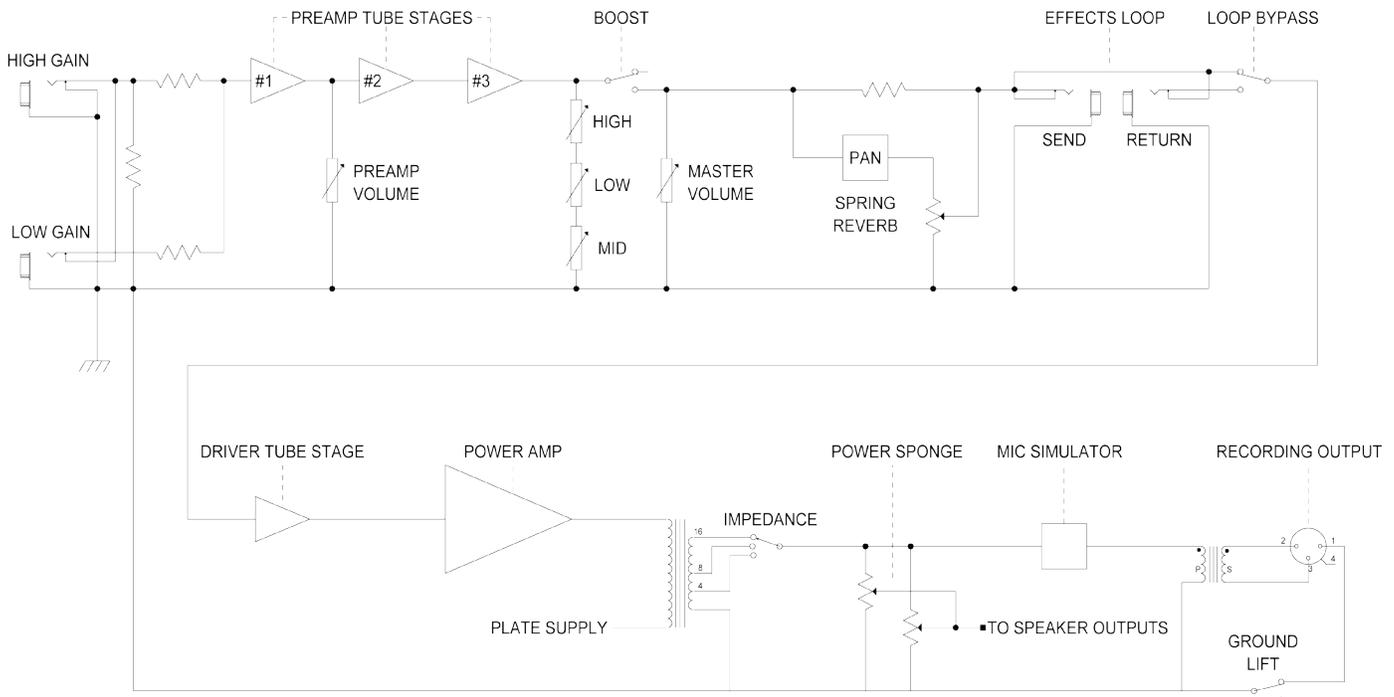
#### Weight:

36.0 lbs

#### Remote Footswitch (optional):

Special 2-button unit with LED indicators for Effects Loop (Channel/Loop) selection and a special preset Boost, selectable via the front panel. Accessory order #00592720.

### WINDSOR STUDIO - FUNCTIONAL BLOCK DIAGRAM





# PEAVEY ELECTRONICS CORPORATION LIMITED WARRANTY

EFFECTIVE DATE: JUNE 14, 2006

## What This Warranty Covers

Your Peavey Warranty covers defects in material and workmanship in Peavey products purchased and serviced in the U.S.A. and Canada.

## What This Warranty Does Not Cover

The Warranty does not cover: (1) damage caused by accident, misuse, abuse, improper installation or operation, rental, product modification or neglect; (2) damage occurring during shipment; (3) damage caused by repair or service performed by persons not authorized by Peavey; (4) products on which the serial number has been altered, defaced or removed; (5) products not purchased from an Authorized Peavey Dealer.

## Who This Warranty Protects

This Warranty protects only the original retail purchaser of the product.

## How Long This Warranty Lasts

The Warranty begins on the date of purchase by the original retail purchaser. The duration of the Warranty is as follows:

Product Category	Duration
Guitars/Basses, Amplifiers, Pre-Amplifiers, Mixers, Electronic Crossovers and Equalizers	2 years (+ 3 years)*
Drums	2 years (+ 1 year)*
Enclosures	3 years (+ 2 years)*
Digital Effect Devices and Keyboard and MIDI Controllers	1 year (+ 1 year)*
Microphones	2 years
Speaker Components (incl. speakers, baskets, drivers, diaphragm replacement kits and passive crossovers)	1 year
Tubes and Meters	90 days
Cables	Limited Lifetime

[\*Denotes additional warranty period applicable if optional Warranty Registration Card is completed and returned to Peavey by original retail purchaser within 90 days of purchase.]

## What Peavey Will Do

We will repair or replace (at Peavey's discretion) products covered by warranty at no charge for labor or materials. If the product or component must be shipped to Peavey for warranty service, the consumer must pay initial shipping charges. If the repairs are covered by warranty, Peavey will pay the return shipping charges.

## How To Get Warranty Service

(1) Take the defective item and your sales receipt or other proof of date of purchase to your Authorized Peavey Dealer or Authorized Peavey Service Center.  
OR

(2) Ship the defective item, prepaid, to Peavey Electronics Corporation, International Service Center, 412 Highway 11 & 80 East, Meridian, MS 39301. Include a detailed description of the problem, together with a copy of your sales receipt or other proof of date of purchase as evidence of warranty coverage. Also provide a complete return address.

## Limitation of Implied Warranties

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

*Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.*

## Exclusions of Damages

PEAVEY'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT, AT PEAVEY'S OPTION. IF WE ELECT TO REPLACE THE PRODUCT, THE REPLACEMENT MAY BE A RECONDITIONED UNIT. PEAVEY SHALL NOT BE LIABLE FOR DAMAGES BASED ON INCONVENIENCE, LOSS OF USE, LOST PROFITS, LOST SAVINGS, DAMAGE TO ANY OTHER EQUIPMENT OR OTHER ITEMS AT THE SITE OF USE, OR ANY OTHER DAMAGES WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

*Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.*

*This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.*

If you have any questions about this warranty or service received or if you need assistance in locating an Authorized Service Center, please contact the Peavey International Service Center at (601) 483-5365.

**FEATURES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.**



Logo referenced in Directive 2002/96/EC Annex IV (OJ(L)37/38, 13.02.03 and defined in EN 50419: 2005)  
The bar is the symbol for marking of new waste and is applied only to equipment manufactured after 13 August 2005



Features and specifications subject to change without notice.

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