

B-15R PORTAFLEX BASS AMPLIFIER



OWNER'S GUIDE



B-15R PORTAFLEX

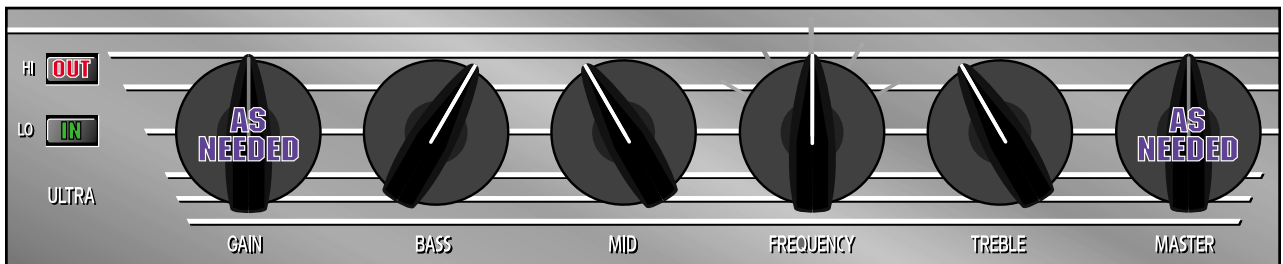
Thank you for selecting the Ampeg B-15R Portaflex Bass Amplifier. Revived from the past and enhanced for the present, this limited production model offers all of the best features of the 1960's classic plus more. In order to get the most out of your new amplifier, please read these instructions before its use.

FEATURES:

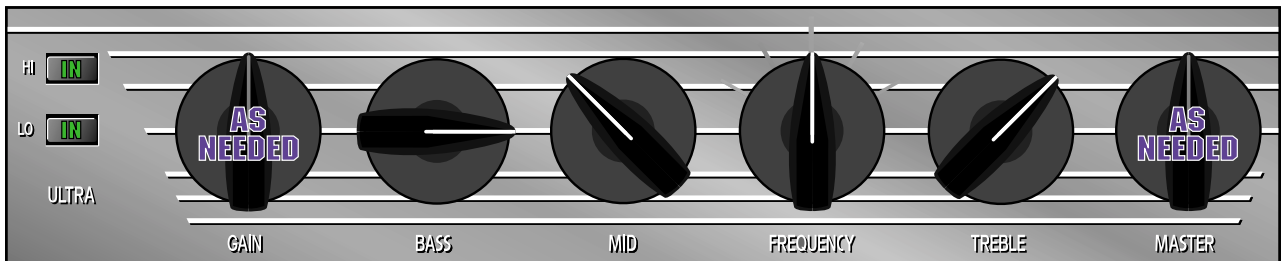
- 0db and -15dB Input Jacks
- Ultra High / Ultra Low Boosts
- Input Gain Control
- Three Band EQ
- Five Position Mid Freq Select
- Master Volume Control
- Half-Power Switch
- Tube Bias Select Switch
- Impedance Selector (8/4 Ohms)
- Line Out/Line In jacks
- XLR Balanced Line Out Jack
- Line Out Level Control
- Pre/Post Select Switch
- Ground Lift Switch
- Patented "Flip Top" Enclosure
- Ampeg Vintage 15" Speaker
- H.F. Horn w/Level control
- 100 watts RMS
- All Tube Design
- Removable Dolly Board w/Casters
- Proudly Made In America

SOME SUGGESTED SETTINGS:

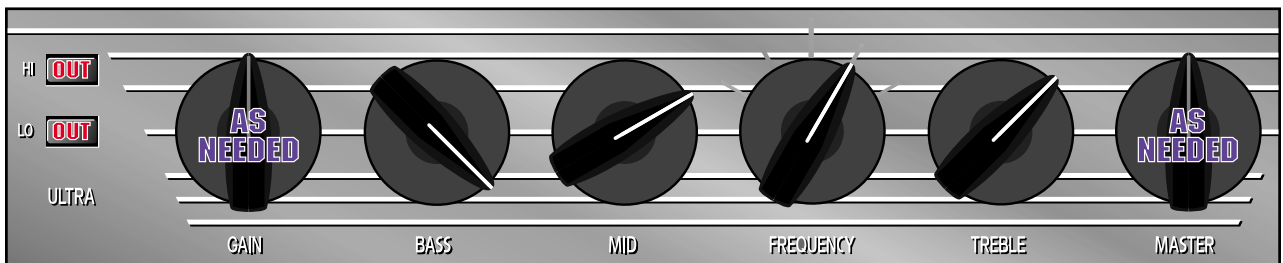
JAZZ:



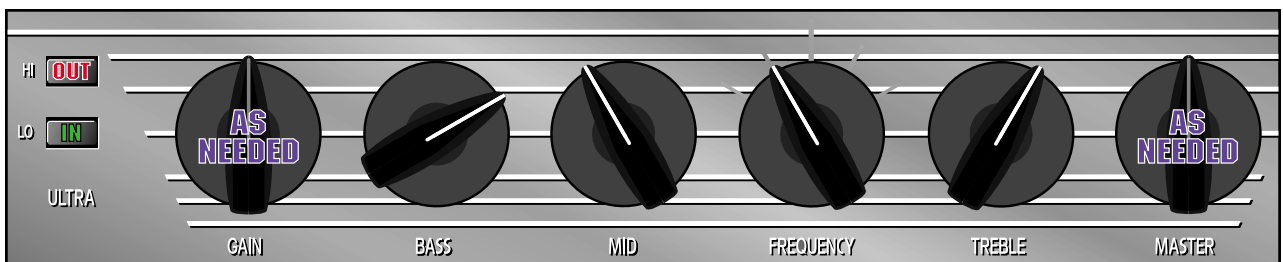
FUNK:



ROCK:

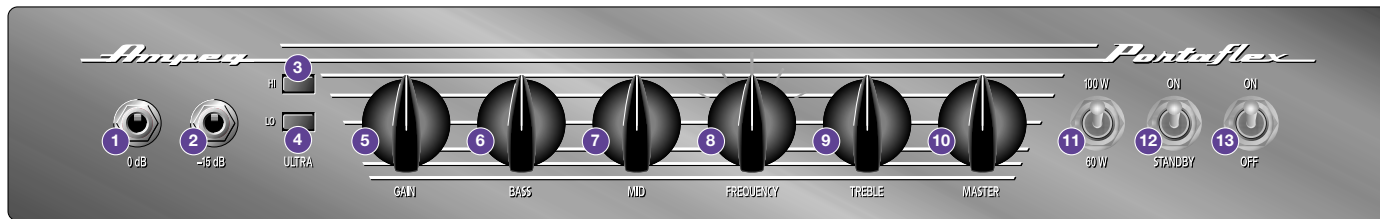


COUNTRY:





THE FRONT PANEL:



1,2: INPUT JACKS: Connect the signal cable from your instrument to either of these jacks: if your bass has active electronics, its output may be “hotter” than normal – the -15dB jack is padded to accommodate such signals. If your bass has normal pickups, use the 0dB jack.

3,4: ULTRA HI / ULTRA LO BOOSTS: Engage these pushbutton switches to boost the highs or lows as desired. These switches activate the boosts at their “in” positions.

5: GAIN CONTROL: Adjust this control to suit your instrument’s signal level and your playing style – lower output levels and softer playing styles require a higher setting of the Gain control than high output and “hard” playing styles. Proper adjustment of this control will give you clean sound with the lowest noise.

6: BASS CONTROL: Adjust the low frequency output of the amp with this control: turn the control to the left for less; to the right for more. This control allows a range of $\pm 25\text{dB}$ at 40Hz.

7: MID CONTROL: Adjust the midrange frequency output of the amp with this control: turn the control to the left

for less; to the right for more. This control allows a range of $\pm 30\text{dB}$ at the selected frequency (see #8).

8: FREQUENCY: This control allows you to select one of five midrange frequencies: 200, 400, 900, 1.5k or 2.5kHz. The setting of this control determines the effective range for the Mid control.

9. TREBLE CONTROL: Adjust the high frequency output of the amp with this control: turn the control to the left for less; to the right for more. This control allows a range of $\pm 30\text{dB}$ at 4kHz.

10: MASTER: Set the overall output level of the amplifier with this control. When the Post/Pre switch (#22) is at the IN (“Post”) position, this control also affects the level at the Balanced Line Out jack (#24).

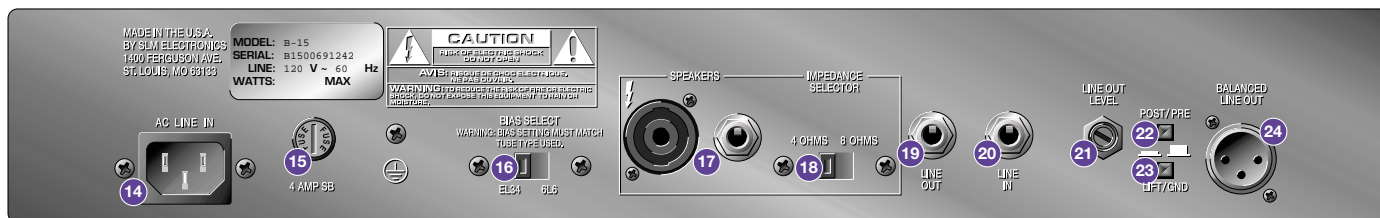
11: HALF-POWER SWITCH: For situations where lower playing volumes are appropriate, flip this switch to the “60W” (down) position. This, in effect, bypasses one-half of the output amplification devices, producing one-half the output power as before. Of course, when full output is desired, flipping the switch to the “100W” (up) position returns the amplifier to its original 100 watt state.

Note: In the 60 watt position the amplifier will deliver approximately 40 watts into the internal speaker. To deliver the full 60 watts into the internal 8 ohm speaker, set the impedance switch (#18) to the 4 ohm setting. Operation at either impedance setting is acceptable and will yield some variances in the tonality of the unit. Experiment with these settings to determine which sound best suits your personal taste.

12: STANDBY SWITCH: Activate the amplifier with this switch, after the Power switch has been turned on. **Always turn this switch off first, on last. Turn on the Power switch (#13) at least 30 seconds before turning on the Standby switch.** During breaks, turn the Standby switch off, leaving the Power switch on. This helps promote longer tube life.

13: POWER SWITCH: Turn on the main AC power with this switch. **Always turn this switch on first, off last. Turn on the Standby switch (#12) at least 30 seconds after turning on the Power switch.**

THE REAR PANEL:



14: AC LINE IN: Use the supplied power cord to connect the amplifier to a suitable source of A.C. voltage. This is a grounded, three-wire cord and must be connected to a properly grounded outlet. **DO NOT attempt to defeat the ground connection of the power cord!** See the serial number label for power ratings.

15: FUSE: This protects the amplifier from damage to overload conditions or power line surges. If the fuse blows, replace it only with the same size and type.

16. BIAS SELECT: Allows for instant bias adjustment when the TYPE of output tube is changed. The setting of this switch **must** match the type of tube being used! The amplifier is shipped with 6L6 tubes installed.

17. SPEAKERS: Connect the amplifier to the internal speaker and/or an extension speaker cabinet using these jacks. Use heavy duty speaker cables terminated with the proper connectors. The total speaker impedance can not be less than 4 ohms. (Be sure to match the Impedance Selector switch [#18] to the cabinet impedance.) The B-15R’s cabinet impedance is rated at 8 ohms.

18. IMPEDANCE SELECTOR: Use this switch to match the amplifier to the TOTAL impedance of your speaker cabinet(s). Use the following chart to determine the total impedance of parallel cabinets:

CABINET IMPEDANCE	NUMBER OF CABINETS	TOTAL IMPEDANCE
16 ohms	2	8 ohms
16 ohms	4	4 ohms
8 ohms	2	4 ohms

19: LINE OUT: Used with the Line In jack (#20), this may serve as an effects loop: The signal from this jack would go to the input of the effect. Alternate uses for this jack include providing an unbalanced line level signal for connecting to an external amplifier or mixing console. The signal at this jack is affected by the Master control (#10).

20: LINE IN: Used with the Line Out jack (#19), this may serve as an effects loop: The signal from this jack would come from the output of the effect. Alternate uses for this jack include providing a means to tap directly into the internal power amplifier, bypassing the input stages completely.

21. LINE OUT LEVEL: This controls the output level of the signal at the Balanced Line Out jack (#24).

22: POST/PRE SWITCH: This switch determines whether or not the signal at the Balanced Line Out jack (#24) is affected by the settings of the tone and master level controls. With the switch at the OUT (“Post”) position, signal is affected; with the switch IN (“Pre”), the signal is not affected.

23: LIFT/GND SWITCH: This switch lifts the ground of the Balanced Line Out jack (#24) at the IN position. Engage this switch only if there is excessive buzzing or hum coming from the amplifier due to ground loops.

24: BALANCED LINE OUT: This jack provides a balanced line level signal for connecting to a mixing console, recording device or external amplifier.



25: HIGH FREQUENCY ATTENUATOR: This three position rotary switch controls the output level of the internal high frequency driver. Use the tip of a flatblade screwdriver to set this switch to the setting which best suits your tastes.

26: FULL RANGE INPUTS: These are the input jacks for the cabinet. Connect one of these jacks to the Speaker output of the amplifier; the other jack may be used to carry the amp signal to an extension cabinet if desired.



TECHNICAL SPECIFICATIONS:

OUTPUT POWER RATING	100 watts @ 5%THD, 8 ohm load, 120VAC
SPEAKER SIZE AND RATING	Ampeg Vintage 15", 8 ohm, 150 watt, 2" voice coil, 56 oz magnet High Efficiency Piezo Tweeter, 8 ohm, 150 watt (w/network)
CROSSOVER FREQUENCY	3kHz
ULTRA HIGH SWITCH	6dB Boost @ 4kHz
ULTRA LOW SWITCH	10dB Boost @ 40Hz
BASS CONTROL	25dB Range @ 40Hz
MID CONTROL	34dB Range @ 200, 400, 900, 1.5k or 2.5kHz
TREBLE CONTROL	30dB Range @ 4kHz
INPUT IMPEDANCE	0dB: 3M ohms; -15dB: 47k ohms
MAX. INPUT SIGNAL LEVEL ACCEPTED	0dB: 1V RMS; -15dB: 5.75V RMS
TOTAL SYSTEM GAIN	50dB w/tones flat, Ultra Low and Ultra High off
SIGNAL TO NOISE RATIO	90dB
POWER REQUIREMENTS	120VAC, 60Hz, 400VA 100VAC, 50/60Hz, 400VA 230VAC, 50/60Hz, 400VA
DIMENSIONS	24"W x 16-1/2"D x 24-1/4"H w/amp flipped inside, w/out caster board 32-7/8" H w/amp flipped out, w/out caster board; 37-1/4" H w/caster board
WEIGHT:	117 lbs

Ampeg continually develops new products, as well as improves existing ones. For this reason, the specifications and information in this publication are subject to change without notice.

IMPORTANT SAFEGUARDS AND PRECAUTIONS:

All Ampeg products are designed for continuous safe operation, as long as common sense is used and steps are taken to help avoid certain problems. Abiding by the following rules can help prevent damage to your amplifier, yourself and others.

- The amplifier is equipped with a three-pronged AC power cord. To reduce the risk of electrical shock, **NEVER** remove or otherwise attempt to defeat the ground pin of the power cord.
- Connect the amplifier **ONLY** to a properly grounded AC outlet of the proper voltage for your amp.
- Avoid sudden temperature extremes, rain and moisture. Also, avoid sudden and intense impact. (If the unit has been subjected to any of the preceding abuses, have it looked at by an authorized service center.)
- **NEVER** set the amplifier on a support that might give out under its weight.
- Always keep the total speaker impedance at or above the rated load.
- Unplug the amplifier before cleaning it. **NEVER** spray liquid cleaners onto the amplifier. Wipe it with a slightly dampened, lint-free cloth to remove dirt and film.
- Don't use the amplifier if it has sustained damage to the chassis, controls, or power cord. Refer the unit to an authorized service center for inspection.
- Amplifiers capable of producing high volume levels are also capable of inflicting permanent hearing loss or damage, if the exposure to such levels is prolonged. Such damage is progressive and irreversible!

<p>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</p> <p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>	<p>THIS EQUIPMENT HAS BEEN DESIGNED AND ENGINEERED TO PROVIDE SAFE AND RELIABLE OPERATION. IN ORDER TO PROLONG THE LIFE OF THE UNIT AND PREVENT ACCIDENTAL DAMAGES OR INJURY, PLEASE FOLLOW THESE PRECAUTIONARY GUIDELINES:</p> <p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT OPEN CHASSIS. DO NOT DEFEAT OR REMOVE THE GROUND PIN OF THE POWER CORD; CONNECT ONLY TO A PROPERLY GROUNDED AC POWER OUTLET.</p> <p>WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.</p> <p>CAUTION: NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p> <p>CAUTION: OUR AMPLIFIERS ARE CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS. CONTINUED EXPOSURE TO HIGH SOUND PRESSURE LEVELS CAN CAUSE PERMANENT HEARING IMPAIRMENT OR LOSS. USER CAUTION IS ADVISED AND EAR PROTECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME.</p>	<p>ESTE APARATO HA SIDO DISEÑADO Y CONSTRUIDO PARA PROVEER AÑOS DE OPERACION SEGURA Y CONFIABLE. PARA PROLONGAR LA VIDA DE ESTA UNIDAD E IMPEDIR DAÑOS ACCIDENTALES POR FAVOR SIGA ESTAS INSTRUCCIONES PREVENTIVAS:</p> <p>PRECAUCION: PARA DISMINUIR EL RIESGO DE DESCARGAS ELÉCTRICAS: (1) NO ABRA LA CUBIERTA, (2) NO ES RECOMENDABLE REMOVER O DESACTIVAR LA PATA DEL POLO A TIERRA DEL CABLE DE CORRIENTE, CONECTE CORRECTAMENTE A UNA TOMA DE CORRIENTE A TIERRA.</p> <p>ADVERTENCIA: PARA EVITAR DESCARGAS ELÉCTRICAS O PELIGRO DE INCENDIO, NO DEJE ESTE APARATO EXPUESTO A LA LLUVIA O HUMEDAD.</p> <p>PRECAUCION: NO HAY PIEZAS ADENTRO QUE EL USUARIO PUEDA REPARAR. DEJE TODO MANTENIMIENTO A LOS TÉCNICOS CALIFICADOS.</p> <p>PRECAUCION: NUESTROS AMPLIFICADORES PUEDEN PRODUCIR NIVELES DE PRESION DE SONIDO ALTO. EXPOSICION CONTINUADA A LOS NIVELES DE PRESION DE SONIDO ALTO PUEDE CAUSAR DAÑO PERMANENTE A SU OIDO. ES ACONSEJADO QUE USE PRECAUCION AL USUARIO Y ES RECOMENDADO PROTECCION PARA LOS OIDOS SI LA UNIDAD ES OPERADA A VOLUMEN ALTO.</p>	<p>CET ÉQUIPEMENT AVAIT ÉTÉ INVENTÉ ET ARRANGÉ POUR POURVOIR DES ANNÉES D'USAGE SAUF ET SÛR. POUR PROLONGER LA VIE DE CET APPAREIL ET POUR EMPÊCHER LES DOMMAGES ET LES TORTS ACCIDENTELS, SUIVEZ LES INSTRUCTIONS DE PRECAUTION.</p> <p>AVERTISSEMENT: POUR RÉDUIRE LES RISQUES D'ÉLECTROCUTION: (1) N'OUVREZ PAS LE CHÂSSIS, (2) NE PAS ESSAYER DE SUPPRIMER LA BROCHE CORRESPONDANT À LA TERRE.</p> <p>ATTENTION: POUR RÉDUIRE LES RISQUES D'UN FEU OU D'ÉLECTROCUTION, N'EXPOSEZ PAS L'APPAREIL À LA PLUIE OU À LA MOÏTURE.</p> <p>ATTENTION: IL N'Y A PAS D'ÉLÉMENTS RÉPARABLES DANS L'APPAREIL. CONSULTER UN TECHNICIEN QUALIFIÉ POUR LES RÉPARATIONS.</p> <p>ATTENTION: NOS AMPLIFICATEURS SONT CAPABLES DE LA PRODUCTION DES NIVEAUX DE SON D'UNE HAUTE PRESSION. L'EXPOSITION CONTINUE AUX CES NIVEAUX PEUT CAUSER LA SURDITÉ PERMANENTE. LA PRUDENCE EST ADVISE À UTILISATEUR ET LA PROTECTION DES OREILLES EST RECOMMANDÉ SI L'APPAREIL EST UTILISÉ À UN HAUT NIVEAU DE VOLUME.</p>
<p>PRECAUCION RIESGO DE CORRIENTAZO NO ABRA</p> <p>PRECAUCION PARA DISMINUIR EL RIESGO DE CORRIENTAZO NO ABRA LA CUBIERTA. NO HAY PIEZAS ADENTRO QUE EL USUARIO PUEDO REPARAR. DEJE TODO MANTENIMIENTO A LOS TÉCNICOS CALIFICADOS.</p>			
<p>ATTENTION RISQUE D'ÉLECTROCUTION NE PAS OUVRI</p> <p>ATTENTION: POUR RÉDUIRE D'ÉLECTROCUTION NE PAS ENLEVER LE COUVERCLE. AUCUNE PIÈCE INTERNE NEST RÉPARABLE PAR L'UTILISATEUR. POUR TOUTE RÉPARATION, S'ADRESSER À UN TECHNICIEN QUALIFIÉ.</p>			
<p>VORSICHT ELEKTRISCHE SCHLÄGGEFAHR NICHT OFFENEN</p> <p>VORSICHT: ZUR MINIMIERUNG ELEKTRISCHER SCHLÄGGEFAHR NICHT DEN DECKEL ABENHMEN. INTERNE TEILE KÖNNEN NICHT VOM BENUTZER GEWARTET WERDEN. DIE WÄRTUNG IS QUALIFIZIERTEM WÄRTUNGSPERSONAL ZU ÜBERLASSEN.</p>			
<p>EXPLANATION OF GRAPHICAL SYMBOLS: EXPLICACION DE SIMBOLOS GRAFICOS: EXPLICATION DES SYMBOLES GRAPHIQUES:</p>	<p> = "DANGEROUS VOLTAGE" "VOLTAJE PELIGROSO" "DANGER HAUTE TENSION" "GEFAHLICHE SPANNUNG"</p>	<p> = "IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL" "ES NECESARIO QUE EL USUARIO SE REFIERA AL MANUAL DE INSTRUCCIONES." "REFERREZ-VOUS AU MANUAL D'UTILISATION" "UNBEDINGT IN DER BEDIENUNGSANLEITUNG NACHSCHLAGEN"</p>	



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