

CAUTION

This symbol is intended to alert the user to the presence of

IMPORTANT! FOR YOUR PROTECTION, PLEASE READ THE FOLLOWING: WATER AND MOISTURE: Appliance should not be used near water (near a bathtub, washbowl kitchen sink, laundry tub, in a wet basement, or near a swimning pool, etc). Care should be taker so that objects do not fall and liquids are not spilled into the enclosure through openings.

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POWER SOURCES. The appliance should be commended to a power supply only of the type described in the operating instructions or a marked on the appliance.

BORUMDING OR POALEZATION: Pre-examinos should be basken so that the grounding or polarization means of an appliance is not defeated.

POWER CORP PORTECTION: Power supply, cordes should be routed so that they are not likely to be walked on or prinched by thems placed upon or against them, paying particular attention corotal at plugs, commentere receptables, and the point where they will from the appliance. SERVICING: The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel. FUSING: If your unit is equipped with a fuse receptacle, replace only with the same type fuse Refer to replacement text on the unit for correct fuse type.

SAFETY INSTRUCTIONS (EUROPEAN)

ine conductors in the AC power cord are conform a accordance with the following code.

GREEN & YELLOW—Earth BLUE—Neutral BROWN—Live
UK MAN FLUE WARNING: A modeled man plug than the sheen cut of from the cord is

RECHART RECENTINGED THE OFFICIAL PROPERTY OF THE CONTROL OF T

LIMITED WARRANTY

Vort Carvin prototic is guaranteed against failure for OIR YEAR unless otherwise stated. Carvin will service and supply all parts at no charge to the customer providing the unit is under warranty. Shipping costs are the responsibility of the customer CARVIN LOGG SUR PYPO RPARTS OR SERVINGURG OTHER THAN OUR OWN. A COPY OF THE ORIGINAL INVOICE IS REQUIRED TO VERIETY YOUR WARRANTY. Carvin assumes no seponsibility for how drivers or spakers admaged by this unit. This warranty does not cover, and no stability is assumed, not damage due to: natural disasters, accodents, abuse, is in lieu of all other warranties, expressed or implied. No representative or person is authorized to represent or assume for Carvin any liability in connection with the sale or servicing of Carvin produce. CARVIN SHALL NOT EL LIABLE FOR MICROSITATIO, OR CORSCIPLITATIO TANGENCE UNITED REVIEW CARVIN SHALL NOT EL LIABLE FOR VIOLENTIA CONTROLLED REVIEW CARVIN SHALL NOT EL VIOLE FOR VIOLENTIA CONTROLLED REVIEW CARVIN SHALL PROVINCE AND CARVIN SHALL THE VIOLENTIA CONTROLLED REVIEW CARVIN SHALL THE VIOLEN

LIMITED WARRANTY

HELP SECTION

1) AMP WILL NOT TURN ON

Ohick the power to the amp. Check for tripped circuit breakers, unplugged extension cords or power-strip switches that may be turned off. Check the fuse. If a dark brownish codor or no wire can be seen within the gives table, then replace. The amp may be prefetrely frie but occasionally a fuse may be considered to the control of the control

- Slow Blow value and if the fuse falls again, the amp will require servicing, No OUTPUT with POWER ED light OIL Check the speaker cable. If DK, it's possible that a speaker jack is defective. Check the SEND & RETURN glacks a one of these jacks could be defective. Insert a guitar cord between these two jacks to tast. Defective jacks will require servicing. KEEP YOUR AREA (DOKING NEW Use a damp colft) to vajor the control on the front & rear chassis panels. Wipe dry! Brush the lint of the Doublatt "if "evereing.

CAUTION

PEFER SERVICING TO QUALIFIED SERVICE PERSONNEL! THIS UNIT CONTAINS HIGH VOLTAGE INSIDE!

CARVIN ENGINEERING DATA

RR12

GALLER WEE

BR12 and BR15 BASS AMPS

OPERATING MANUAL

for percussive slap. The 1" Titanium HF Driver is fully adjustable from a variable rear control. All enclosures are covered in durable black for percussive siap. a variable rear control. All enclosures are co DuraTuff II™ for your transporting protection

BR15

CARVIN

Pure, clean bass power is delivered to your speaker from the BR12/BR15 series ultra-low distortion power amp. Turn-on muting, short circuit and thermal overload circuits protect your speakers and amp form accidental overloads. (Note: It is normal for the amp to get warm to the touch).

RECEIVING INSPECTION—road before getting started INSPECT YOUR AMP FOR ANY DAMAGE which may have occurred during shipping. If any damage is found, please notify the shipping company and CARVII immediately. SAVE THE CARTON & ALL PACKING MATERIALS. In the event you have to re-ship your unit, always use the original carton and packing material. This will provide the best possible protection during shipment. CARVIN and the shipping company are not liable for your damage caused by improper packing for warranty service it needed in the testre. SAVE YOUR INVOICE. It will be required for warranty service it needed in the testre. SAVE YOUR INVOICE. It will be required for warranty service it needed in the testre. SAVE YOUR INVOICE. It will be required for warranty service it needed in the testre. SAVE YOUR INVOICE. It will be required for warranty service it needed not have been adjusted to the care of the care of the part of the arranty of the formatting the packing with your mane and comments to us, or you may register online at www.carvin.com/registration.

GETTING STARTED QUICKLY

Turn the amp on and volume off, set the tone controls at their mid "0" center position, turn the compressor and noise gate off and set the 5 band graphic EQ to the their center/mid positions. Plug your amp into the AC voltage and then plug in your bass. Now, turn the amp's power switch ON and gradually raise the volume. Re-adjust the contour and tone controls as needed and your ready to go

BASS SIGNAL PROCESSING

fessional bass systems.

BASS SIGNAL PROCESSING
The preamp of a bass amplifier is the key to great tone. The first item
in the amp's signal chain is the internal Class A discrete preamp circuits. Class A preamps circuits are renown for their superior sonic
detail. Secondly, your BASS, MIO sweep & TREBLE controls are powerful active circuits, which will add flexibility in generating your tone.
The BN 120 head also features a 5 BAND GRAPHIC EQ allowing you to
suit the final lourbes on your sequel from praceillard filtiers designed. put the final touches on your sound from specialized filters designed just for the bass guitar.

The BR12 and BR15 continues with features that are only found in

Congratulations on your purchase of the Carvin BR12/BR15 bass amplifier. For over 40 years we have been building bass amplifiers, so you can expect award-winning performance from these compact pro-

The BNE and only continues with readures time are only pround the most comprehensive basis rigs. A COMPRESSOR, which is sought out by most professionals, is featured because it controls the overall level of the amp regardless of where the volume control is set. You can now control your peaks without the amp getting too loud or keep the amp from distorting.

You may easily add to your signal processing with an effects proces-

sor to enhance your sound. Any device from a foot pedal to a full effects rack can be plugged into the rear of the "buffered" Send / Receive EFFECTS LOOP.

The preamp LINE/PHONES jack can also be used as a main output from the preamp to send your signal to a mixing console or another high powered amplifier, allowing you to use the full complement of signal processing from your unit.

COMBO CABINET DESIGN
Part of the success of the BR12/BR14 combo amplifiers are their lightweight design and high performance. A cabinet tuned to the speakers parameters in each system adds to the speaker's efficiency in the 35 Hz to 50 Hz range, resulting in overall warmth and a bigger, rounder sound. The BRseries combo's also feature a 1"Titanium HF Driver to extend the upper range to 16k Hz, enhancing the harmonics

Freq. Respon THD: RMS Power: Direct Out:

MID: 2002-2514: a r.curo HB RRY-a; 1208 up to 3008 reduction -7 to -27 d8, 3 t ratio 8014t, 2504s; 5004s; 8014t; 2 234t, ±1248 BRT2: 5014 to 16 Hz BRT5: 41 Hz to 16k Hz Sealed enclosure

Cabinet Freq. Resp: Cabinet Types: Cabinet Construction: Tweeter Attenuation: Warranty: Power Requirements: Sealed enclosure Baltic Birch Plywoo Continuously varia One Year 120VAC, 225VA 240VAC, 225VA

Fuse: Size and Weight Footswitch:

For your records, you may wish to record the following information.

FRONT & REAR PANEL CONTROLS



1. INPUT JACK

The 1/4" phone jack is an instrument input designed to handle both active and passive basses in connection with the Active Switch

2. BLUE JEWEL LIGHT

The Blue iewel light indicates the power is on.

The DRIVE CONTROL

The DRIVE control adjusts the input level to the class A preamps. The Drive control serves two purposes. The first half of the knob, 0-5, can be used to adjust he input sensitivity for the differences in bass pickups. The second half of the knob, 5-10, will increase the harmonic content of the tone. The closer to 10 the more overdrive the tone will become. The drive knob will increase the volume of the amplifier, so use it in combination with the master volume to achieve the desired amplifier volume.

4. MUTE SWITCH

4-. MOTE SWITCH
The MUTE switch mutes the output of the amplifier. A blue LED indicates the
MUTE switch is on. The mute switch is ideal for changing basses while the amp
is on and silent tuning on stage, since the rear output is not muted. The
mute feature can also be switched with an FS22 footswitch.

5. ACTIVE SWITCH

Flip the active switch to the down "OFF" position for standard passive bass pickups. If your bass uses a battery with an onboard active preamp, put the switch in the up position. A blue LED indicates the ACTIVE switch is on.

6. CONTOUR CONTROL

The contour control provides a variable mid range scoop. When this control is set to "ELAT" there is no change to the mid range frequencies. As you turn the contour control clockwise, a mid range cut is scoop at 250Hz When the contour control is set to maximum, the mid-range is cut at -9dB at 300Hz.

7. BASS AND TREBLE TONE CONTROLS

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The BASS and TREBLE tone controls are custom shaped controls to deliver punchy lows and crisp tight highs for a variety of bass sounds.
When the BASS control is turned to the right, it boosts the signal and when turned to the left cuts the signal. The effected frequencies are centered at 80½ and can deliver a great deal of volume. Be careful not to distort the output. When the TREBLE control is turned to the right, it boosts the signal and when turned to the left, ctuts the signal. The boosted frequency for the TREBLE control is centered at 8k Hz.

8. MID SWEEP TONE CONTROLS (GAIN & FREQ.)

These two controls will take some time to learn how to use First, the FREO. control does not function if the GAIN control is set in the center "0" position. To demonstrate turn the CAIN to the circle for fail to the control. demonstrate, turn the GAIN to the right for full boost. Now turn the FREQ. control from full left to full right and notice the added mids change frequencies as you play your bass. Now turn the GAIN to the full left and re-sweep the FREO control and notice the mids disappear at different frequencies. There are many variables as you can hear, so write down some of the settings for future refer The mid sweep system is designed for fine tuning your overall sound

9. COMPRESSOR (COMP)

9. COMPRESSOR (COMP)
For some people, a compressor is a new feature. What it basically does is reduce (or compress) the volume of the incoming signal to conform to a preset maximum output level. This describes the COMP knob in the full-clock wise position where it functions as a limiter. As the knob is turned back (counter clockwise) the compressor lets a larger and larger percentage of the incoming signals to pass through. This is raising the threshold of where the compressor turns on. The maximum compression ratio is 3:1.

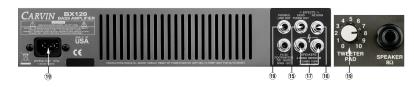
The advantages of a compressor is to increase the overall level of playing (or The advantages of a compressor is to increase the overall level of playing (or the average level) and not have peaks or other sudden loud parts (transients). For example, in stap bass playing, the plucked notes can put out peaks that could distort the amplifier at normal playing volumes. On the other hand, if the amplifiers volume was adjusted for these peaks, the rest of the notes would be too quiet to hear. Now, when the compressor is adjusted to where the indicator LED comes on when the peaks are present, the amplifier can be played louder and still reduce the peaks without distortion. It's like having someone constantly and instantly re-adjusting the volume of the amplifier to prevent distortion when the peaks occur. peaks occur.

The Compressor circuit is also internally connected to the power amplifier. When The Compressor circuit is also internally connected to the power amplifier. When the amplifier reaches a distortion level that maybe harmful to speakers it activates the compressor to reduce the input signal. This in turn takes the amplifier out of distortion and protects the speakers even when the compressor control

10. 5-BAND POST SHAPE EQUALIZER AND EQ IN SWITCH

5 band's of the GRAPHIC EQ have been custom shaped and selected for the bass guitar. The levels and tonal shaping of each band are customized individ-ually unlike a standard graphic EQ to increase its usefulness and sweeten the sound of each band. Here are some references for the individual sliders to help relate the frequencies in hertz to perceived sounds.

- The 80Hz slider is for the ultra lows. Often used in the cut region to boost or reduce the low end.
- . The 250 Hz slider is for the mid-low bass. The bass has a great deal of sound here, so this slider can change the sound drastically. Slide it up and down to hear what you like.
- The 500Hz slider is for the mid-bass frequencies. Like the 250Hz slider, there is a great deal of bass guitar here also.
- The 800Hz slider is for the bass guitar's high mids. This is where the mids start to get snappy, but they can also get honky.
- . The 2KHz slider is for the bass quitar's highs. The crispy high's in slap bass playing start in the range of this slider.



ADJUSTING THE GRAPHIC EQ SLIDERS:

ADJUSTING THE GRAPHIC ED SLIDERS:
The best way to use the GRAPHIC EQ is to set all the sliders to their center detent positions. When the sliders are in this position, they do no affect the audio signal. After playing in this "flat" setting for a few minutes, raise one slider (to boost) and play a broad range of notes to hear the change. Then lower the same slider pass the center detent (to cut), play a few notes to hear the change and return the slider to the center position. Try this with each slider to hear what they do, then go back and adjust them together if needed for your sound. EQ IN switch: when the blue LED is lit the Graphic EQ is in and will effect the sound of the amplifier. The Graphic EQ can also be switched in and out with an FS22 footswitch

11. MASTER VOLUME

The master is the last volume control of the amplifier. This is where overall level of the amplifier is set. The master volume also effects the headphone output.

12. DI LEVEL & DI XLR OUTPUT

The BR series provides this professional feature only found on our larger bass amplifiers. The direct output is used to send a direct signal to the main PA system or a recording track. The signal is a buffered and balance version of the signal straight from the input jack. Use the DI level control to adjust the output level stadyin from the impulgate. Use the Driver control to adjust me output level of the direct output, and use the Ground lift switch to break a ground loop buzz caused by creating power ground loops through making the direct output connection to the PA system.

13. POWER SWITCH

The power switch turns on the amplifier and is indicated by the large blue iewel light over the input lack

14. HEADPHONE/LINE OUT JACK

The 1/4" jack can be used for mono headphone or a line output to feed a mixer or power amp.

15. SEND JACK (EFFECTS LOOP)

The SEND jack is the output of the preamp. This jack, used in conjunction with the RETURN jack, makes up the external effects loop. The SEND jack is designed to put out the proper level for the input of an external effects proces-

16. RETURN JACK (EFFECTS LOOP)

10. RETURN JACK (EFFECTS LOOP)
The RETURN jack completes the effects loop in conjunction with the SEND jack. This jack is designed to receive signals from an external effects processor. When something is plugged into this jack it goes directly into the power amp portion of the bass amplifier and breaks the connection between the bass preamp and the internal power amp.

17. SPEAKER OUTPUT JACK(S)

There are 2 speaker output jacks designed for a total minimum impedance of 4

18. AC POWER

The detachable AC POWER CORD supplied is designed to operate with one type The detachable AL PUWER CURLU supplies is designed to operate with one type of voltage (the European 230V export model uses a CEF. 7 plug cord set). Check the rear power cord label for the proper voltage. Plug the cord into a grounded "3" prong" power source. No attempt should ever be made to deteat or use the amp without the ground connected.

19. HF DRIVER LEVEL CONTROL (ENCLOSURE)

19. HF DRIVER LEVEL CONTROL (ENCLOSURE)
In the back of the BH12 and BH15 there is a small jack plate with a level knob
for the HF Driver. This level control adjusts the volume of the HF Driver and
does not effect the 15" wooter.
The HF Driver level control is another way to increase or decrease the highs
coming from your bass. If more highs are desired, the HF Driver level can be
turned up (clock wise), or turned off if a warmer sound is desired.
Note: One thing to consider with the HF Driver volume is the direction the cab
intel is facing. Because the combon amplifier's HF Driver is less than two feet
off the ground, the listeners seated in front of the amplifier may be getting more
the HF Driver volume than you (the plaver) standing in front of the amplifier of the HF Driver volume than you (the player) standing in front of the amplifier. So be conscious of the volume and direction of the HF Driver when adjusting.