



Dyna-Bass®

UNITY™ LTD.

OPERATING GUIDE

WARNING: TO PREVENT ELECTRICAL SHOCK OR FIRE HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. BEFORE USING THIS APPLIANCE, READ BACK COVER FOR FURTHER WARNINGS.



FEATURES:

- 34" scale; 21 frets
- Ebony fingerboard with 8" radius
- Fully-humbucking - P. J. Pick up configuration
- On-board active 3-band EQ (9-volt powered; battery not included)
- Schaller bridge (standard)
- All gold finished hardware
- Medium (1 1/8") neck width
- Premium machine heads 22-1 ratio
- Extra deep rib-cage contour for maximum comfort
- Fully radiused body contour, top & bottom
- Unity™ neck-thru-body construction
- Schaller Security Locks
- Low Impedance Output

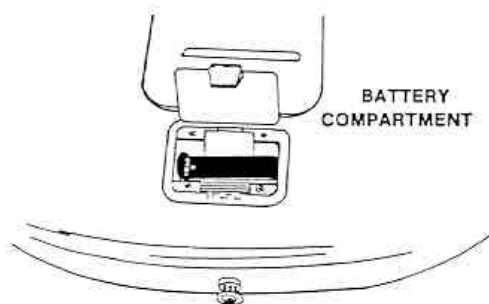
The Dyna-Bass® preamp is designed to offer the bass player maximum flexibility and tonal variation. Its discrete circuitry and full shielding offers wide dynamic range and ultra-low noise operation (-70 dB).

CONTROL OPERATION

(See picture on page 1).

- 1. Blend Control.** The Blend Control is offered for a wider variety of sounds than available from conventional pickup selector switches. It may be varied from the neck pickup (full clockwise - CW) to the center detent (both pickups) to the bridge pickup (full counterclockwise - CCW) or any blend in between. Due to the nature of this control, neither pickup is turned fully off.
- 2. Volume Control.** This control is conventional with full output in the CW position and no output in the CCW position.
- 3. Low Control.** The Low Control is centered at 50 Hz and offers +8 dB boost (CW) and -8 dB cut (CCW).
- 4. Mid Control.** A Mid Control has been included and is of the peak/notch variety. This control operates from 100 Hz to 2 kHz with notch centers at 300 Hz (CCW) and 1.5 kHz (CW). Some interaction with the Low and High controls will be noticed at either extreme of the Mid Control's operation.
- 5. High Control.** The High Control is centered at 2.5 kHz and has +12 dB boost (CW) and -12 dB cut (CCW).
- 6. Bypass Switch.** The Bypass Switch is a two-position mini-toggle located on the face of the instrument. Its purpose is to allow the player to conveniently switch to the passive mode in the event of battery malfunction or failure. The up position of the switch is passive and bypasses the internal preamp. This allows normal (passive) operation of the Dyna-Bass.





In the passive mode, the Volume and Blend controls are operational and the High Control is converted to a standard high rolloff tone control. NOTE: If the Bypass Switch is operated when signal is present, an audible "pop" may occur. This is due to the rapid change in signal level sent to the input of the bass guitar amplifier. The down position is active and engages the Dyna-Bass preamp with its active tone controls.

7. **Preamp Input Control.** This is a screwdriver adjusted control and is accessible through a small hole in the control cover plate on the back of the Dyna-Bass. This control sets the amount of signal gain available, and should be adjusted so the Dyna-Bass will not overdrive or distort the input of your bass guitar amplifier. Clockwise adjustments increase the outputs and counterclockwise adjustments decrease the output. Those who have a heavy picking style or who play heavy "pop" bass may need to use the Low Gain or #2 Input on their bass amplifier.
8. **Battery.** The Dyna-Bass preamplifier is powered by a 9 volt transistor radio battery (Peavey battery type #05013, or a substitute) which is accessible by means of the battery compartment cover plate located on the back of the body. There are no other user serviceable parts contained inside this instrument. If other problems occur, take your instrument to a local Peavey dealer, or authorized service agent for servicing, as tampering may void your warranty. NOTE: Heavy duty or alkaline batteries are recommended for reliability and longest battery life. Low battery voltage will be indicated by fuzzy or distorted sound, especially with higher tone and volume settings. It is recommended the battery be changed every 80 to 100 hrs. of use, or every 6 months, to help ensure a battery doesn't leak and damage the instrument. NOTE: Peavey Electronics assumes no responsibility for damage resulting from a leaking or defective battery. Power is supplied to the preamp when a standard (mono) guitar cable is plugged into the instrument; a stereo cable will not work. It is recommended that the cable first be plugged into the Dyna-Bass, then into the bass amplifier input. To ensure longest battery life, be sure to unplug the cable from the Dyna-Bass when not in use.

Adjustments:

Your instrument has been carefully adjusted for accurate intonation and playing ease at the Peavey factory. However, your playing style or playing requirements may necessitate additional adjustments at sometime in the future. These adjustments should be made by your Peavey dealer. However, with a little care and by adhering closely to the following instructions, you may attempt these adjustments yourself.

CAUTION:

PLEASE READ AND UNDERSTAND THE INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING ANY ADJUSTMENTS!

Adjusting Torsion Rod:

To set the "straightness" or "relief" of the neck, a Peavey torsion rod wrench No. 75031001 must be used (available from a Peavey Accessory Center).

1. Tune the instrument to standard (A-440) pitch.
2. Check for clearance between the strings (1 through 4) and the first fret. IMPORTANT: Use an accurate ruler or similar gauge for this measurement.
3. This clearance should be no less than 1/32" and no more than 1/16" at the first fret.
4. Check for clearance between the strings and the twelfth fret.
5. This clearance should be no less than 1/16" and no more 1/4" at the twelfth fret.
6. To increase clearance, loosen (counterclockwise) torsion rod nut. To decrease clearance, tighten (clockwise) the torsion rod nut. (The torsion rod nut is located underneath the plastic cover plate on the head stock.)

CAUTION:

IT IS NOT USUALLY NECESSARY TO ROTATE THE TORSION ROD NUT MORE THAN ONE FULL TURN IN EITHER DIRECTION. ONE-QUARTER TO ONE-HALF TURN IS NORMALLY SUFFICIENT TO MAKE MOST ADJUSTMENTS. EXCESSIVE ROTATION MAY CAUSE DAMAGE TO THE NECK AND TORSION ROD. IF EXCESSIVE FORCE IS NECESSARY TO ROTATE THE TORSION ROD NUT, YOU SHOULD CONSULT YOUR PEAVEY DEALER OR THE PEAVEY FACTORY BEFORE ANY FURTHER ADJUSTMENT IS MADE.

7. Repeat steps 1 through 6 until proper clearance has been reached.

NOTE:

STRING HEIGHT SHOULD BE ADJUSTED TO FIT YOUR OWN PARTICULAR PLAYING STYLE. IT SHOULD BE NOTED THAT SETTING THE STRING HEIGHT TOO LOW WILL RESULT IN EXCESSIVE STRING BUZZ AND RATTLE, ESPECIALLY WITH A "HEAVY" PLAYING TECHNIQUE. EXCESSIVELY HIGH ACTION WILL RESULT IN INTONATION PROBLEMS AND DECREASED PLAYABILITY.

String Spacing Adjustment:

The fully-articulated Schaller bridge allows for maximum flexibility when adjusting spacing between strings. To adjust, loosen string, then rotate saddle roller to desired position. Retune string.

Saddle Height Adjustment:

The four individual bridge saddles work to determine the overall string height. Individual string saddles can be adjusted to "follow" the curvature (8" radius) of the neck to maximize string/fret distance. Use supplied Allen wrench to make the adjustment for each string. NOTE: This adjustment requires accurate gauges to measure proper string/fret distances and the proper radius (curvature) between the neck and strings. If you are unfamiliar with this type of adjustment, we recommend that this setting be performed by qualified personnel at your authorized Peavey dealer.

String Intonation:

Accurate string intonation settings ensure that your instrument will play in tune at any point on the neck. Although "perfect intonation" is a physical impossibility with a fretted instrument, the correct settings with the bridge and saddle combination of the instrument will maximize the accuracy of individual notes up and down the neck.

Intonation is set by comparing the pitch of an open string to the pitch of the same string when it is played one octave higher at the twelfth fret. The actual "vibrating length" of that string is varied until the notes are both at the right pitch. The "vibrating length" of the string is altered by adjusting the individual bridge saddles either forward or backward, depending on whether the fretted note is sharper or flatter in pitch than the open note. If the fretted note is sharper than the open note, the vibrating length of the string must be increased; move the bridge saddle to the rear, away from the pickup. If the fretted note is flat, the vibrating length must be shortened; move the bridge forward, toward the pickup to shorten the length.

This instrument features four individual bridge saddles to allow accurate intonation/compensation on each string.

NOTE

IT IS OFTEN DIFFICULT FOR THE UNTRAINED EAR TO DETERMINE WHEN THE OPEN NOTE AND THE FRETTED NOTE ARE AT PRECISELY THE SAME PITCH (EXACTLY ONE OCTAVE APART). SOME PLAYERS FIND THAT COMPARING THE TWELFTH FRET HARMONIC OF THE STRING (RATHER THAN THE OPEN NOTE) TO THE FRETTED NOTE IS MUCH EASIER. A HARMONIC IS PLAYED BY PLUCKING THE STRING WITH THE RIGHT HAND WHILE TOUCHING THE STRING WITH THE LEFT INDEX FINGER (AS LIGHTLY AS POSSIBLE) DIRECTLY ABOVE THE TWELFTH FRET. THE LEFT INDEX FINGER IS DRAWN AWAY AS QUICKLY AS POSSIBLE AFTER THE STRING IS PLUCKED, PRODUCING A "CHIME" EFFECT. THIS CHIMED NOTE IS THEN COMPARED TO THE FRETTED NOTE. FOR EVEN GREATER EASE AND A HIGH DEGREE OF ACCURACY, WE RECOMMEND ONE OF THE MANY TYPES OF ELECTRONIC GUITAR TUNERS THAT ARE AVAILABLE FROM MOST MUSIC STORES. THE TUNERS WHICH USE EITHER A METER OR A MOVING LED DISPLAY ARE USUALLY EASIER TO USE THAN THE TYPE WITH A NUMERICAL FREQUENCY READOUT.

Setting Intonation:

NOTE:

ALL GUITAR ADJUSTMENTS INTERACT CLOSELY WITH STRING INTONATION. THESE ADJUSTMENTS MUST BE COMPLETED BEFORE ANY ATTEMPT IS MADE TO SET STRING INTONATION AT THE BRIDGE.

1. Ensure that the torsion rod and bridge height adjustments have been made and are accurate.
2. Tune the instrument to standard (A-440) pitch.
3. Hold the instrument in a normal playing position. Do not exert any undue pressure on the neck as it will affect intonation settings.
4. Play the first string open (G) and compare it to the pitch of the same string when it is played at the twelfth fret. These notes should be the same.

5. Using a flat head screwdriver, adjust the length of the first string saddle so that the open note and the fretted note (or harmonic) are the same.

NOTE

IT WILL OFTEN BE NECESSARY TO RETUNE THE OPEN STRING TO STANDARD PITCH AFTER THE BRIDGE SADDLE POSITION IS ALTERED.

6. Repeat steps 4 and 5 for the 2nd, 3rd, and 4th strings.
7. Repeat steps 1 through 6 as necessary until intonation of all strings is accurately adjusted.

Temperature and Humidity:

It is important that your instrument be protected from any extremes or sudden changes in either temperature or humidity. The instrument should be stored in its case whenever it is not in use.

Strings:

String life may be greatly extended by frequent cleaning and wiping after use. Dirt and perspiration tend to build up on the underside of the strings, so it is often necessary to slide a rag between the strings and the fingerboard. Dirt-laden strings cause tuning and intonation problems as well as rust and corrosion. For best performance, strings should be changed approximately once a month, or every twenty-four hours of playing. Some players may find that they prefer to change strings more often.

NOTE:

YOUR INSTRUMENT IS EQUIPPED WITH HIGH QUALITY PEAVEY STRINGS. THE INTONATION AND ACTION OF YOUR INSTRUMENT HAS BEEN CAREFULLY ADJUSTED FOR MAXIMUM PLAYABILITY WITH THESE STRINGS. WHEN STRING REPLACEMENT BECOMES NECESSARY, WE STRONGLY RECOMMEND OUR FIELD-PROVEN HIGH QUALITY AND LONG LASTING PEAVEY STRINGS.

Case:

A durable, molded case provides maximum protection and road durability. The case features large storage areas at latchlock to facilitate locking for air shipment. The case may be cleaned with a damp cloth with or without soap. Care should be taken to avoid wetting the plush-lined interior.

Finish:

Your instrument has a polyester/urethane finish which is both durable and weather resistant, but nevertheless needs care. Automotive grade waxes will protect, clean, and shine it. Between waxes, the instrument should be wiped with a dry, soft cloth.

PEAVEY GUITAR ONE-YEAR LIMITED WARRANTY/REMEDY

PEAVEY ELECTRONICS CORPORATION ("Peavey") warrants this Guitar to be free from defects in material and workmanship for a period of one year from date of purchase; PROVIDED, however, that this limited warranty is extended only to the original retail purchaser and is subject to the conditions, exclusions and limitations hereinafter set forth.

CONDITIONS, EXCLUSIONS AND LIMITATIONS OF LIMITED WARRANTY

This limited warranty shall be VOID and of NO EFFECT if:

1. The first purchase of the product is for the purpose of resale; or
2. The original retail purchase is not made from an AUTHORIZED PEAVEY DEALER; or
3. The product has been damaged by accident or unreasonable use, neglect, improper service or maintenance, or other causes not arising out of defects in material or workmanship.

This Limited Warranty shall not extend to or cover guitar strings. Replacement of guitar strings is deemed to be reasonable and necessary maintenance.

Purchaser's exclusive remedy for breach of this limited warranty is repair of the defect or replacement of the guitar, at the option of Peavey. Service work may be performed by any Peavey Authorized Service Center, or if the service center is unable to provide the necessary warranty service, you will be directed to the nearest other Peavey Authorized Service Center which can provide such service. Or . . . you may return the guitar, postage prepaid and insured, along with a description of the problem, proof of purchase, and a complete return address to:

PEAVEY ELECTRONICS CORPORATION
711 A Street
Meridian, MS 39301

If the defect is remedial under this limited warranty, and the other terms and conditions expressed herein have been complied with, Peavey will repair or replace the product and will return it, freight collect, to the purchaser. Other than the postage and insurance requirement, no charge will be made for such repair or replacement.

The liability of Peavey to the purchaser for any cost whatsoever, and regardless of the form of action, whether in contract or in tort, including negligence, shall be limited to actual damages up to an amount equal to the greater of the purchase price of the product causing the damage or \$500.00. UNDER NO CIRCUMSTANCES WILL PEAVEY BE LIABLE FOR ANY LOST PROFITS, ANY INCIDENTAL DAMAGES OR ANY CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF OR INABILITY TO USE THE GUITAR, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

The foregoing limitation of remedy will not apply to the payment of cost and damage awards for personal injury or damage to real property or tangible personal property caused by negligence on the part of Peavey.

THIS LIMITED WARRANTY IS IN LIEU OF ANY AND ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE; PROVIDED, HOWEVER, THAT IF THE OTHER TERMS AND CONDITIONS NECESSARY TO THE EXISTENCE OF THE EXPRESS LIMITED WARRANTY, AS HEREINABOVE STATED, HAVE BEEN COMPLIED WITH, IMPLIED WARRANTIES ARE NOT DISCLAIMED DURING THE ONE-YEAR PERIOD FROM DATE OF PURCHASE OF THIS GUITAR.

SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS 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.

THIS LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY ON THIS GUITAR, AND NO OTHER STATEMENT, REPRESENTATION, WARRANTY OR AGREEMENT BY ANY PERSON SHALL BE VALID AS TO OR BINDING UPON PEAVEY.

THE WARRANTY REGISTRATION CARD AND A LEGIBLE COPY OF THE PROOF OF PURCHASE SUPPLIED TO YOU BY THE AUTHORIZED PEAVEY DEALER IN CONNECTION WITH YOUR PURCHASE FROM HIM OF THIS GUITAR SHOULD BE ACCURATELY COMPLETED, MAILED TO AND RECEIVED BY PEAVEY WITHIN FOURTEEN (14) DAYS FROM THE DATE OF YOUR PURCHASE.

Should notification become necessary for any condition that would require correction, the registration card will help insure that you are contacted and properly notified.

If you move from the address shown on the WARRANTY REGISTRATION CARD, you should notify Peavey of the change of address so as to facilitate your receipt of any bulletins or other forms of notification which may become necessary in connection with any condition that may require dissemination of information or correction.

The WARRANTY REGISTRATION CARD and subsequent notices of change of address should be mailed to:

PEAVEY ELECTRONICS CORPORATION
P.O. Box 2898
Meridian, MS 39301

In the event any modification or disclaimer of express or implied warranties or any limitation of remedies, contained herein conflicts with applicable law. Then such modification, disclaimer or limitation, as the case may be, shall be deemed to be modified to the extent necessary to comply with such law.

The limited warranty is given by Peavey Electronics Corporation with respect to equipment purchased in the United States of America.

DANGER

ALL AMPLIFICATION ACCESSORIES, MICROPHONES, MIXERS, ETC., MUST BE PROPERLY GROUNDED AND SHOULD BE UTILIZED WITH A 3-WIRE MAINS SYSTEM IN ORDER TO AVOID ELECTRICAL SHOCK.

DANGER

DO NOT COME INTO CONTACT WITH OTHER ELECTRICAL APPARATUS WHEN PLAYING (OR TOUCHING) YOUR INSTRUMENT. THE METAL PARTS OF THIS INSTRUMENT ARE GROUNDED ACCORDING TO PROPER AND ACCEPTED INDUSTRY PRACTICE. BUT IT IS POSSIBLE TO ENCOUNTER AN ELECTRICAL SHOCK WHEN COMING INTO CONTACT WITH ANOTHER ELECTRICAL APPARATUS IF IT HAS IMPROPER GROUNDING FACILITIES.

WARNING

DO NOT USE IMPROPER OR POORLY DESIGNED GUITAR STRAPS OR OTHER MEANS OF SUPPORT. POSSIBLE INJURY COULD RESULT IF IMPROPER, INFERIOR, ILL FITTING OR WORN OUT STRAPS ARE USED. THE INSTRUMENT COULD POSSIBLY FALL, CAUSING BODILY INJURY OR DAMAGE TO THE INSTRUMENT OR ASSOCIATED EQUIPMENT IF THE HOLDING DEVICES FAIL FOR ANY REASON.

DANGER

GUITAR STRINGS ARE MADE FROM VERY STRONG STEEL ALLOYS. THEY ARE DESIGNED TO BE USED UNDER TENSION AND, UNDER CERTAIN CONDITIONS, THEY MAY BREAK AND SPRING AWAY FROM THE GUITAR. DO NOT TUNE OR PLAY THIS INSTRUMENT WITH YOUR FACE IN CLOSE PROXIMITY TO THE STRINGS, AS SERIOUS INJURY COULD RESULT IF A STRING SHOULD BREAK.

WARNING

BASS GUITAR STRINGS ARE UNDER CONSIDERABLE TENSION WHEN THEY ARE TUNED TO CONCERT (A-440) PITCH. EXERCISE EXTREME CARE WHEN TUNING (ESPECIALLY ABOVE CONCERT PITCH) OR WHEN EMPLOYING STRING BENDING OR "POPPING" PLAYING TECHNIQUES. THE POSSIBILITY OF STRING BREAKAGE SONAL INJURY EXISTS UNDER THESE CONDITIONS.

NOTE

THE PATCH CORD BETWEEN THE GUITAR AND THE AMPLIFIER IS AN EXTREMELY IMPORTANT LINK, FOR OPTIMUM PERFORMANCE. A HIGH QUALITY WELL SHIELDED CORD SHOULD BE USED IN THIS APPLICATION.

Features and specifications are subject to change without notice.



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