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ENCORE DL2010.2 PREAMPLIFIER

INTRODUCTION

Encore's unique design approach eliminates switch contacts from the signal path. All signal inputs are connected into the circuit by means of solid state switching. This all bipolar switching circuitry is done directly on the circuit board instead of at the front panel where sonically degrading mechanical switches and signal wires are normally used.

Most preamplifiers utilize volume and balance controls that are wired directly into the signal path and, no matter how good, exotic or expensive the potentiometer, it is still sonically degrading. Encore eliminates this problem by using potentiometers that are not wired directly into the signal path. Furthermore, the DL2010.2 volume control is a custom stepped attenuator using discrete resistors that preserves balance between channels over the full volume range.

Encore designed the double sided glass epoxy circuit board to keep the signal path length to a minimum to preserve the structure for the original signal.

Furthermore, Encore has elected to not "tin" the copper traces on the circuit board, as it has been shown that "tinned" traces are a source of sonic degradation.

Encore has assembled what it believes are the best sounding, most reliable components available for use in the DL2010.2. Encore also believes the chassis enclosure is critical in protecting the sonic integrity of the music. Therefore, a custom made, all-aluminum chassis is used to alleviate the sonic problems encountered with steel enclosures.

The DL2010.2 utilizes gold plated input and output jacks, thereby assuring long-term "quality" performance.

Any one of the six inputs can be routed for recording while listening to that input or any of the other five inputs. The same approach and attention to detail that is used in the source circuit is again employed in the recording circuit. This ensures the sonic integrity of the source being recorded.

The DL2010.2 uses vacuum tubes for voltage amplification of the phono and line stages. Filament and high voltage sources are individually regulated at each tube. Separate toroidal transformers are used for the low and high voltage supplies.

The high voltage supply incorporates over-voltage protection which clamps the high voltage to ground in the event of regulator drift or failure. Filament regulators are also thermally protected and automatically reset when safe operating conditions are reached.

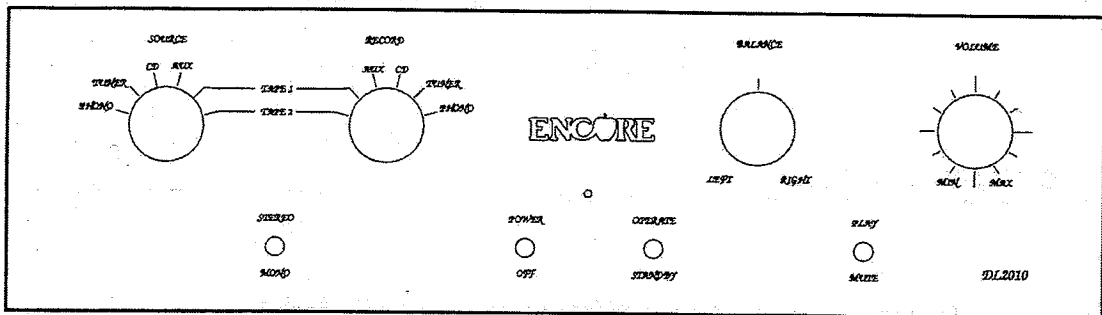
Filtering and surge protection of the AC power source provides clean power for the DL2010.2, free of noise and voltage spikes. An auto/manual mute circuit deactivates the inputs and outputs automatically upon turn-on thereby protecting the DL2010.2 and attached equipment. Additionally, in order to reduce the power consumption an operate/standby switch has been provided which turns off the high voltage supply but leaves the DL2010.2 in a mode ready for listening.

The balance control is bi-functional so that it provides fine adjustment throughout the first half of its range, and coarse adjustment thereafter. This makes the DL2010.2 a clear choice for difficult listening arrangements.

Each DL2010.2 preamplifier is individually hand crafted and tested to provide years of trouble-free operation and listening enjoyment.

Encore DL2010.2 Preamplifier

FRONT PANEL DESCRIPTION



SOURCE This switch selects the source to be routed to the MAIN outputs after amplification by the line stage.

RECORD The source to be connected to the TAPE1 & TAPE2 preamplifier outputs are selected by this switch. See additional description under "OPERATION OF THE DL2010.2", Page 8 & 9.

BALANCE Use this control to adjust stereo balance between the left and right channels. See additional description under "OPERATION OF THE DL2010.2",

Page 8 & 9.

VOLUME The output level of the MAIN outputs is set by adjusting this control.

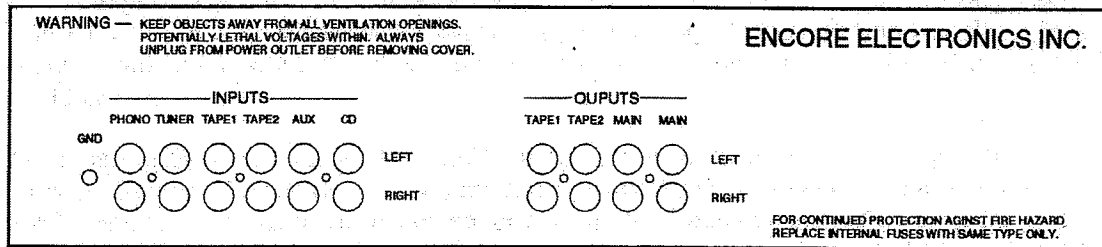
STEREO/MONO This switch mixes left and right channel signals for monophonic reproduction.

OPERATE/STANDBY In the STANDBY position, this switch turns off the high voltage supply while leaving the rest of the circuitry in a mode ready for listening. See additional description under "OPERATION OF THE DL2010.2", Page 8 & 9.

PLAY/MUTE This switch can be used to manually deactivate the inputs and outputs. Muting is done automatically at turn on to prevent turn on transients.

See additional description under "OPERATION OF THE DL2010.2", Page 8 & 9.

BACK PANEL DESCRIPTION



GND Connect your turntable ground wire to this terminal.

INPUTS The DL2010.2 has a PHONO input and five high level source inputs. The PHONO input can be used with moving magnet (MM), low output moving coil (MC), and high output moving coil type phono cartridges. See additional description under "PHONO GAIN/IMPEDANCE SETTINGS", Page 6.

OUTPUTS

TAPE 1 & 2 These outputs are provided for connection to the input jacks of one or two tape decks. The TAPE 1 and TAPE 2 outputs are connected together internally.

MAIN These outputs are provided for connection to your power amplifier(s). The two sets of MAIN outputs are connected together internally.

See additional description under "CONNECTING THE DL2010.2 TO YOUR SYSTEM", Page 8.

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BEFORE CONNECTING THE DL2010.2 TO YOUR SYSTEM

Due to the unique design containing no contacts, a few precautions must be taken to ASSURE that the inputs to the DL2010.2 never see a D.C. voltage offset less than -150 mV or greater than +5 V. Otherwise, severe distortion and possible damage to the unit could result. If your source equipment is suspect, contact Encore to arrange for return of the DL2010.2 for a free modification.

The inputs of the DL2010.2 are buffered from the volume control and will accept 5 Vrms without clipping. Therefore, for best performance, make sure all source maximum output levels are under 5 Vrms by measurement or consult the owners manual of your source equipment for maximum rated output. If any source output is over 5 Vrms, the input connector series resistors will need to be replaced with resistors of appropriate value. Modifications will be performed by Encore free of charge. Contact the factory for details.

Because the volume control is buffered from the inputs, the series input resistance has negligible affect on the sound quality. However, modification will reduce the rated gain of the DL2010.2

In order for the DL2010.2 to supply enough gain and sound its best, the input impedance of your amplifier should not be lower than 15K ohms.

PHONO GAIN/IMPEDANCE SETTINGS

The phono section gain is set at the factory for low output MC cartridges. The gain may be changed to MC or MM on each channel by setting position #1 on dip switches SW1 and SW2 located on the vertically mounted MC phono board near the phono inputs at the rear of the unit.

The phono section input impedance is set at the factory to 47K ohms/47pF for MM and 100 ohms for MC cartridges.

The loading resistance for MC cartridges may be changed on each channel by setting position #2 on dip switches SW1 and SW2. When set to VAR. LOAD, the trim pots R1 and R8 may be adjusted from the factory setting of 100 ohms to any value from 0 to 1K ohm in order to provide the recommended or best sounding load for your MC cartridge.

After the optimum load resistance is found, the variable load may be switched out so that a fixed resistor can be installed in the empty space at R9 and R2. When the variable load is switched out and R9 and R2 are empty, the resistance is fixed at 47K ohms.

Installing resistors at locations R2 and R9 on the MC phono board can provide a load resistance that matches the trim pot setting. After the trim pot is set, measure the resistance across the phono input connector with an ohm meter. Select resistors for each channel to match the measured resistance reading as close as possible. Install the left and right channel resistors at R9 and R2 respectively and set dip switches SW1 and SW2 position #2 to off.

Using metal film type resistors at R2 and R9 will provide lower thermal noise than the trim pot resistance element.

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PHONO GAIN/IMPEDANCE SETTINGS continued

The capacitance loading of MM cartridges may be switched to 47,147,247, or 347pF by setting dip switch SW6 located at the rear corner of the main board.

A capacitance of 47pF is present on the MC phono board to suppress RF interference and must not be removed. Therefore, the capacitance values listed near the dip switch on the main board will have 47pF added to them. Example: If you select 100pF with the dip switch the actual capacitance value will be 147pF. Refer to your phono cartridge owners manual for recommended capacitive load setting or choose the setting which sounds the most realistic to you.

The CD section input impedance has been factory set to 50K ohms.

The resistance may be switched to 20K, 50K or 100K ohms by setting dip switch SW2 located at the rear center of the main board. The 20K ohm setting is best suited for DC coupled players that exhibit an output impedance of 600 ohms or less. The 100K ohm setting is best suited for players with output impedances of 3000 ohms or greater. Also, this setting is best suited for players having an output coupling capacitance of less than 0.47 uF. The factory setting is recommended if you are not sure of the specifications on your CD Player.

To change any of the dip switch setting or install components, do the following:

- 1) UNPLUG THE POWER CORD FROM THE WALL OUTLET OR POWER STRIP.
- 2) Remove the top panel from the DL2010.2.
- 3) Locate the appropriate DIP switch on the rear of the main circuit board (by the corresponding input jack).
- 4) Move the individual switches in the direction of the "on" arrow printed on the dip switch to obtain the values printed on the main pc board by each dip switch and replace the top panel before re-connecting the power cord.

CONNECTING THE DL2010.2 TO YOUR SYSTEM

Once the top has been replaced, you are now ready to connect the DL2010.2 to your system.

The DL2010.2 requires good ventilation to ensure reliable operation. Therefore, please allow 2 inches of unobstructed air space above the top panel. Also, the DL2010.2 should be placed on a hard surface, away from other heat sources.

At this point, you should inspect each one of your interconnect cables for signs of defect or damage. Replace or repair any defective cables to insure the best possible sound quality.

The connectors on the rear panel of the DL2010.2 are color coded for quick reference. Connect the right channel signals to the red coded RCA jacks. Likewise, connect the left channel signals to the white coded RCA jacks.

If you are using a turntable that has a separate ground wire, connect it to the silver binding post next to the PHONO RCA jacks.

Two sets of output jacks have been provided for bi-amping or added flexibility. When using two amplifiers on each channel, ensure that the combined parallel input impedance is greater than 15K ohms. To obtain the best possible sound, the recommended maximum capacitive load including the capacitance of your amplifier input is 800 pF. If long runs of interconnect cable are necessary, we recommend using low capacitance cable. Be sure to include the capacitance of two interconnects when bi-amping. If necessary, contact your dealer for assistance.

Ensure that all connections are tight.

OPERATION OF THE DL2010.2

The DL2010.2 has been designed and manufactured to provide many years of listening enjoyment. However, the following suggestions should be observed to ensure the proper operation of this and ALL the components in your audio set-up.

Before connecting the DL2010.2 to the wall outlet or power strip, (we Do Not recommend using commercially sold "AC Enhancers" for the DL2010.2 or any other equipment hooked up to the DL2010.2), set the POWER/OFF switch to OFF, the OPERATE/STANDBY switch to STANDBY, and the PLAY/MUTE switch to PLAY. Plug the power cord into the unit and wall outlet. Apply power by setting the POWER/OFF switch to POWER. At this point, the front panel LED should be red. In this mode, power is supplied only to the tube filaments and the solid-state signal switches. Additionally, the inputs and outputs of the DL2010.2 are muted while in the STANDBY mode. Increased tube life and lower power consumption can be realized by leaving the DL2010.2 in this mode. Therefore, we recommend that you place the DL2010.2 in this mode any time it is not being used. However, you may leave the DL2010.2 in the OPERATE mode with the PLAY/MUTE switch set to the MUTE position if you want the DL2010.2 to be at it's best possible sound.

Increased tube life may also be realized by allowing the POWER switch to be on at least 30 seconds before switching the OPERATE/STANDBY switch to OPERATE.

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OPERATION OF THE DL2010.2 continued

To operate the DL2010.2, set the SOURCE switch to the source you are wanting to listen to, set the VOLUME control to minimum (fully ccw), and set the OPERATE/STANDBY switch to OPERATE. At this point, the high voltage supply will be turned on and the auto mute timer will start. After approximately 10 seconds the auto mute circuit will disengage and the front panel LED will turn blue. If the PLAY/MUTE switch is in the PLAY position, the disengaging of the auto mute can be heard as a faint click. The DL2010.2 is now ready for use!

If the PLAY/MUTE switch is in the MUTE position when the unit is set to OPERATE, the auto mute circuit will time out but will not disengage until the mute switch is set to PLAY. Any time the unit is in MUTE mode, the front panel LED will be red.

The balance control on the DL2010.2 finely adjusts the left to right balance in the first half of its rotation and coarsely in the second half of its rotation. The fine adjustment can be used to correct channel to channel imperfections in the volume control and your listening room.

NOTE:

Set the VOLUME control to minimum or the PLAY/MUTE switch to MUTE before changing sources with the SOURCE switch. This is important, as a volume-dependent POP may occur otherwise. Although switching from operate to standby mutes the DL2010.2 automatically, we advise MUTING the DL2010.2 before switching from OPERATE to STANDBY.

A separate Record switch has been utilized in the DL2010.2 to allow tape recording not only from the selected listening source, but from any desired source. Simply set the RECORD switch to the source you want to record from. The SOURCE switch can then be set to any desired source. If you want to monitor the recording, set the SOURCE switch to the tape setting you are using. The source can also be recorded on two tape recorders. Use of the RECORD switch to record any source except phono may be used while the unit is in STANDBY mode (the SOURCE switch, BALANCE, and VOLUME controls are not functional in this mode.)

NOTE:

Care should be taken to avoid setting the RECORD switch to the same position as the device you are recording to. Otherwise, a loud feedback HUM could result. Example: If you were to set the RECORD switch to TAPE 1 while that device was actually in the record mode, a feedback HUM would result. This could potentially cause damage to your audio system! To avoid this we recommend you set the PLAY/MUTE switch to MUTE, or the VOLUME control to minimum while setting the RECORD switch for recording.

ENJOY!

TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE
Front panel LED does not light when power switch is on.	<ol style="list-style-type: none">1) Check to make sure the power cord is plugged into the unit and connected to an AC outlet. If the outlet is a switched outlet, make sure it is switched ON.2) Remove power cord, wait approximately 3 minutes remove top cover and check fuse F2 on the small pc board located on the left side of the unit. Replace with same type and rating if necessary. Check connectors on all pc boards and reseat if necessary.3) If unit still does not respond, return unit for repair. See "FACTORY RETURNS" section on Page 12.
LED is on but unit does not play after actuating the OPERATE switch	<ol style="list-style-type: none">1) Check to make sure OPERATE/STANDBY switch has been set to OPERATE for at least 15 seconds.2) Set the PLAY/MUTE switch to PLAY if not already there.3) Check SOURCE switch to make sure it is set to the source you want to listen to and make sure the source is operating and connected to the correct DL2010.2 input.4) Check to make sure cable connections are snug from the DL2010.2 output to your system's amp inputs and that the amp(s) are turned on. Check all speaker wire connections.5) Try different interconnects.6) After the unit has been unplugged from the AC Power, wait 3 minutes, check the two fuses [F1 & F3(R108)] on the main board. Replace with the same type and rating if necessary.
Can't record.	<ol style="list-style-type: none">1) Check that RECORD switch is in the correct position.2) If PHONO is the recording source, check to make sure OPERATE/STANDBY is in OPERATE position.3) Check cable connections on the DL2010.2 and the recording device for proper connection.4) Try different interconnects

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TROUBLESHOOTING contd.

One channel not working.

- 1) Make sure BALANCE control is not turned completely one way.
- 2) Make sure that all interconnect / speaker connections are good or try different interconnects.
- 3) Check to see that all tubes are seated in their sockets properly.
- 4) Swap source left & right cables into the DL2010.2. If the other channel is now inoperative, then the source is the problem.
- 5) If a tube is suspected, turn OPERATE/STANDBY switch to standby, unplug AC power, remove top cover, and swap V1 & V2 tubes. Turn unit back on, switch to operate, and wait for auto-mute to turn off. If other channel doesn't work, then replace tube. If you are listening to PHONO, repeat this sequence repeat this sequence with V3 & V4.
- 6) If the same channel is not working, try swapping the output left and right cables on the DL2010.2 MAIN outputs, leaving the connections on the amp the same.
- 7) If the inoperative channel is still not working, refer to your amp and/or speaker troubleshooting guide.
- 8) If the other channel becomes inoperative, return the DL2010.2 for repair. See "FACTORY RETURNS" section on Page 13.

Hum or Buzz present on both channels, volume independent.

- 1) Remake all interconnects.
- 2) Make sure the DL2010.2 or any equipment is not plugged into a noisy "AC Enhancer".
- 3) Rearrange input and output interconnect cables to keep them as far away as possible from each other and the power cord.
- 4) If hum is still present, check to make sure all equipment connected has proper AC plug polarity.
- 5) Normally the preamp should be the only equipment grounded by the 3-prong plug. All other equipment should be "cheated" if they have 3-prong plugs.

TROUBLESHOOTING contd.

Hum or Buzz present on both channels, volume dependent.

- 1) Remake all interconnects.
- 2) Rearrange input and output interconnect cables to keep them as far away as possible from each other and the power cord.
- 3) Some cables do not exhibit good shielding properties. Install a different pair of cables or change type of cable.
- 4) Normally the preamp or amp should be the only equipment grounded by the 3-prong plug. All other equipment should be "cheated" if they have 3-prong plugs.

Volume or Balance controls produce section on static when turned.

- 1) The solid state bipolar switches have been damaged. Return the DL2010.2 for repair. See "FACTORY RETURNS" page 13.

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CARE

The DL2010.2 should be cleaned using a cotton cloth and non abrasive glass cleaner. Damage to the DL2010.2 from the use of abrasive cleaners is not covered by the warranty. To maintain a new appearance, it is recommended to dust the DL2010.2 often with a dry cotton cloth.

Do NOT allow any objects to enter the DL2010.2 top or bottom ventilation slots.

When using the optional DL2010.2 rack mount front panel, it is recommended to use plastic rack washers in order to protect the front panel from being scratched.

REPLACING FUSES

There are three fuses used in the DL2010.2. Two of these fuses, F1 and F3 are fast Blow types and are used in the high voltage supply

The entire DL2010.2 is protected by F2. Before replacing any of the fuses, make certain the DL2010.2 has been disconnected from the A.C. wall outlet at least 3 minutes. This assures that no high voltage is present in the DL2010.2 (The high voltage is normally reduced to an unarmful level within a few seconds unless F3(R108) has blown in which case a 2-3 minute wait is recommended). Replace the bad fuse with the same type and rating as follows:

F1 - 1/8 Amp Fast Blow

F2 - 1/2 Amp Slow Blow

F3(R108) - 1/4 Amp Fast Blow or 3/10 Amp Fast Blow

Use of a different type or rating fuse can void your warranty!

WARRANTY INFORMATION

The DL2010.2 preamplifier is covered by a limited three year warranty as described in the enclosed warranty certificate.

IMPORTANT

To receive warranty coverage, the registration sheet on page 14 of this owners manual must be completed, detached, and returned to Encore Electronics Inc. within 30 days of the date of original purchase.

The three year warranty may be transferred by sending the original owners name, address, unit serial no., date of original purchase, and the new owners name and address to Encore Electronics Inc.

PRODUCT IMPROVEMENTS

Due to continuing design improvements and availability of new technology materials, Encore reserves the right to incorporate design changes without notice.

Modifications and improvements will be made available to owners of previously manufactured units when possible to do so. Registered owners will be notified by mail of any design improvements available and the associated cost. Only authorized dealers or the factory may perform any modifications offered.

FACTORY RETURNS AND CORRESPONDENCE

Units requiring repair or factory modifications may be returned to an authorized dealer or the Factory. Please include a complete description of your system hook-up and problem or failure that you experienced so that your conditions can be accurately duplicated.

NOTE: Before returning a unit for warranty service, check your warranty certificate for terms and conditions.

All units returned to the factory must be made as follows:

- A) Unit must be packaged and shipped in the original shipping container and protective materials.
- B) Send unit freight prepaid to:

Encore Electronics Inc.
14818 Goodman
Overland Park, KS 66223
- C) Encore will return the unit when warranty service is complete, shipping and insurance prepaid. If the unit is returned for non-warranty service or modifications, the owner will be charged for factory to owner return shipping costs.

CORRESPONDENCE

All correspondence should be sent to the return address shown above in B).

STATEMENT OF LIABILITY

Any incidental or consequential damages resulting from any defect, malfunction or warranty claim, express or implied are not the responsibility of Encore Electronics Inc. who is hereby excluded from property and personal damages to the extent permitted by law. The above includes but is not limited to other related equipment or components used with this product.

These limitations and exclusions may not apply to you due to inherent rights provided by the state you live in.

Encore DL2010.2 Preamplifier

DL2010.2 TYPICAL SPECIFICATIONS

GAIN @ 1kHz
Phono MC.....61 dB
MM.....40 dB
Line.....10 dB

BANDWIDTH.....0.5 Hz to 175 kHz +0, -3 dB

PHONO ACCURACY.....20 Hz to 20 kHz -0.3, +0.1 dB

INPUT OVERLOAD @ 1kHz
Phono MC.....7.5 mV RMS
MM.....75 mV RMS
Line.....5 V RMS

MAXIMUM OUTPUT w/o CLIPPING.....Into 15K ohms, 7 V RMS
.....Into 100K ohms, 22 V RMS

INPUT IMPEDANCE
PhonoSelectable Capacitance: 47, 147, 247, or 347 pF
.....Selectable Resistance : 0-1K, 47K ohms
Tuner,Aux,Tape1,Tape2.....47K ohms
CD.....Selectable: 20, 50, or 100K ohms

OUTPUT IMPEDANCE
Main Outputs.....3.5K ohms
Tape Outputs10 ohms

PHASE CHARACTERISTICS
Phono MC.....Non-inverting
MM.....Non-Inverting
Line.....Non-inverting

THD.....< 0.05%

POWER CONSUMPTION
(100-125 VAC 50-60 Hz)
Operational45 Watts
Standby.....23 Watts

DIMENSIONS (HxWxD inches).....4.25 x 17.375 x 15

WEIGHT.....8 lbs/ 8.2 Kg

NOTE: Specifications are subject to change without notice due to continuing design and product improvements.

WARRANTY CERTIFICATE

Encore DL2010 Preamplifier

1. ENCORE ELECTRONICS INC. warrants the materials, EXCLUDING VACUUM TUBES, and workmanship of this product for a period of three years from the date of original first purchase. If this product fails to function properly within the warranty period and the conditions of sections 2 thru 5 are met, the unit will be repaired or replaced by Encore Electronics Inc. without charge for parts or labor. Encore Electronics Inc. reserves the right to deny warranty service based on the conditions stated herein. Your state may provide you with additional legal rights other than stated in this warranty.

CONDITIONS

2. Defects or malfunctions must be due to materials, workmanship, construction, or factory authorized repairs completed during the warranty period. Also, the Serial Number of the unit must not have been altered or removed. Defects or malfunctions caused by the following circumstances or conditions ARE NOT covered by this warranty.

- A) Accident.
- B) User abuse, neglect, tampering, or modifications.
- C) User not operating this product in accordance with the instructions in the owners manual.
- D) Repairs or modifications performed by anyone not authorized by Encore Electronics Inc.
- E) Checkups and conversions of voltage/cycle.

3. All warranty claims must be approved by Encore Electronics Inc. or an authorized dealer. It is the responsibility of the purchaser to notify Encore immediately of any unsuccessful repairs or service by an authorized Dealer and provide description of failure.

4. Warranty Registration Sheet must be completed and sent to Encore within 30 Days of the date of original first purchase.

5. Returns to the factory for authorized warranty service by the dealer or purchaser must be made as follows:

- A) Unit must be packaged and shipped in the original container and protective materials.
- B) Send unit freight prepaid to:
Encore Electronics Inc.
7105 E 132nd St.
Grandview, MO 64030
- C) Encore will return the unit when warranty service is complete, shipping and insurance prepaid.

6. Encore Electronics Inc. reserves the right to make design improvements without notice and without necessarily being obligated to retrofit models of earlier manufacture.

7. Any incidental or consequential damages resulting from any defect, malfunction, or warranty claim, express or implied are not the responsibility of Encore Electronics Inc. who is hereby excluded from property and personal damages to the extent permitted by law. The above includes but is not limited to other related equipment or components used with this product. These limitations and exclusions may not apply to you due to inherent rights provided by the state you live in.