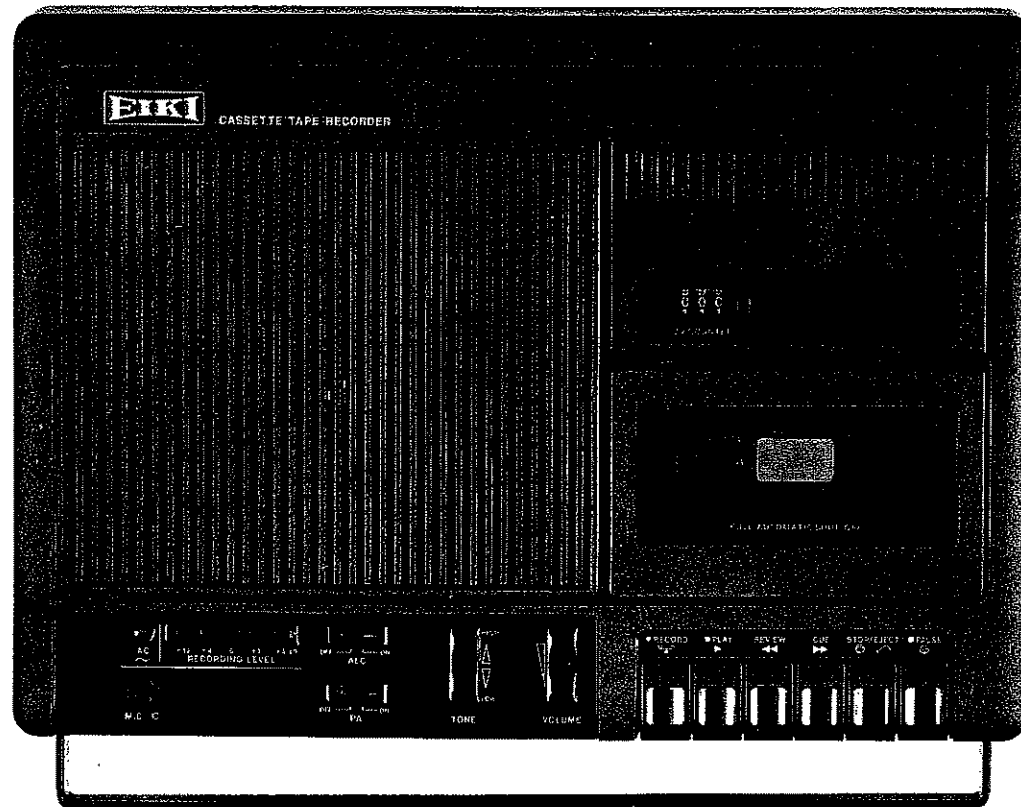


EIKI

How to operate your
**cassette tape
recorder**
with full automatic tape stop

Model
5090A



Important:
Please read these instructions
carefully before operating this
unit.

IMPORTANT SAFEGUARDS

WHEN USING THIS EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:

1. READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE USING EQUIPMENT.
2. DO NOT OPERATE EQUIPMENT WITH A DAMAGED CORD OR, IF THE EQUIPMENT HAS BEEN DROPPED OR DAMAGED—UNTIL IT HAS BEEN EXAMINED BY A QUALIFIED SERVICEMAN.
3. IF AN EXTENSION CORD IS NECESSARY CARE SHOULD BE TAKEN TO ARRANGE THE CORD SO THAT IT WILL NOT BE TRIPPED OVER OR PULLED.
4. ALWAYS UNPLUG EQUIPMENT FROM ELECTRICAL OUTLET WHEN NOT IN USE. NEVER YANK CORD TO PULL PLUG FROM OUTLET. GRASP PLUG AND PULL TO DISCONNECT.
5. TO PROTECT AGAINST ELECTRICAL SHOCK HAZARDS, DO NOT EXPOSE THIS EQUIPMENT TO RAIN, MOISTURE, OR OTHER LIQUIDS.
6. TO AVOID ELECTRIC SHOCK HAZARD, DO NOT DISASSEMBLE THIS EQUIPMENT, BUT TAKE IT TO A QUALIFIED SERVICEMAN WHEN SOME SERVICE OR REPAIR WORK IS REQUIRED. INCORRECT REASSEMBLY CAN CAUSE ELECTRIC SHOCK HAZARD WHEN THE EQUIPMENT IS USED SUBSEQUENTLY.

SAVE THESE INSTRUCTIONS



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



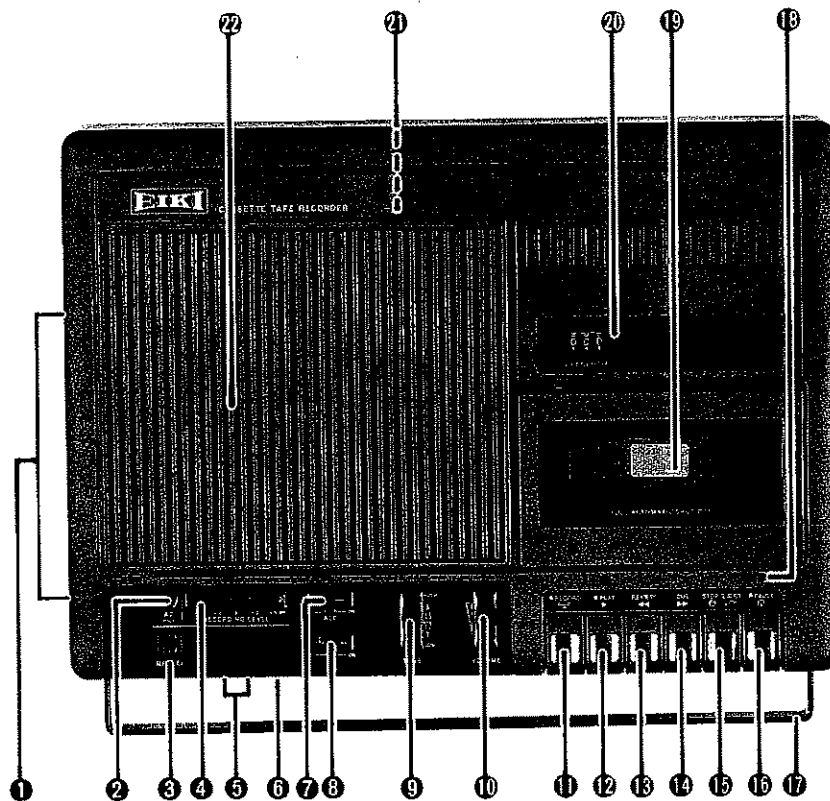
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Cassette tape recorder

The controls and their functions



1. Listening center (HEADPHONES)

Seven 1/4" jacks for group listening of tape playing.

NOTE: No. 7 jack can also be used as extension loudspeaker jack. Connect other external speaker here.

2. AC indicator (AC)

Glowes when the recorder is connected to main supply. It does not glow during battery operation.

3. Condenser microphone (MIC)

Built in to allow convenient hands-free recording. Offers extra sensitivity for group recordings at meetings and conferences.

4. Recording level indicator

These LEDs visually display the recording level.

5. Remote/Microphone jacks (REMOTE MIC)

Provides connection for dual-plug microphone, with remote start-stop switch on microphone.

6. Auxiliary input jack (AUX IN)

With accessory connecting cord, this jack allows recording directly from a radio, phonograph, tape player, or other source.

The controls and their functions

7. ALC switch

Automatic Level Control switch allows selection of either automatic level control circuit or manual level control circuit for recording.

8. PA switch

Public-Address switch allows amplified announcements.

9. Tone control

This knob controls the tone quality. Turn it toward you to boost the low frequency or away from you to boost the high frequency sound level.

10. Volume control (VOLUME)

Adjusts sound level of tapes being played, and adjusts record level when recording with ALC (Automatic Level Control) off.

11. Record key

Switches recorder into record mode when depressed simultaneously with Play key.

NOTE: The cassette must have "knock-out" tabs intact to permit recording and pressing down of Record key.

12. Play key

Turns on the unit and starts tape transport in motion for playing and, when used simultaneously with Record key, for recording.

13. Review key

Pressing key while tape is playing permits quick back up of tape for reviewing a previously played portion. When other keys are not depressed, this key locks down and rapidly rewinds tape back to the start.

14. Cue key

Pressing this key while the tape is playing permits quick forward movement of the tape to another selection. This key also locks down for fast forward when other keys are not depressed.

15. Stop/Eject key

This key stops tape movement and returns all keys to up positions to stop all play, record or winding functions. When pressed a second time, the cassette is ejected.

16. Pause key

When depressed, this key stops the tape transport instantly if Play key or Record and Play keys are down. Push once to stop tape; push again to restart tape.

17. Carrying handle

Pulls out for easy and safe carrying. Slides back into unit when not in use.

18. Symbol keyboard

Provides added assistance to the visually handicapped. Symbols used are those approved by the Library of Congress.

19. Cassette chamber

Holds tape cassette during playing and recording. Cassette tape slides into channel rails inside cover for positive positioning. Pop-up cover allows easy loading and unloading.

20. Tape counter and reset button

Provides method for indexing tape selections and locating parts of tape when desired. Button resets counter to "000". Conforms to 2X ANSI standards.

21. AC Line Cord Storage

Located in bottom of unit; holds 1.7 meter AC cord when unit is being operated on batteries, or during transport.

22. Built-in speaker

Provides strong amplification with excellent sound reproduction. Is muted automatically when Headphone jacks are used.

WARNING: Unplug recorder from power supply when not in use.

Setting up your recorder

Installing batteries

Remove battery compartment cover (located on bottom of unit) as shown in photo at right. Insert eight "D"/"R1" size batteries in compartment; alkaline type batteries are recommended for longer life and maximum power output. Carefully follow polarity (+ and - symbols) diagram inside case.

After batteries are installed and seated correctly, replace compartment cover. **NOTE:** Always remove old or weak batteries immediately to prevent damage due to leakage. Batteries should be removed if recorder is not to be used for an extended period of time.

Operating on AC current

This recorder may be operated on regular 120-volt 60 Hz AC current. 1.7 meter AC cord fits snugly within open storage compartment on bottom of unit. Plug cord into a properly grounded wall outlet. This automatically disconnects battery circuit. The three-prong plug should be used without a two-prong adapter whenever possible. If an adapter is used, be certain the green wire or grounding tab on the adapter is attached

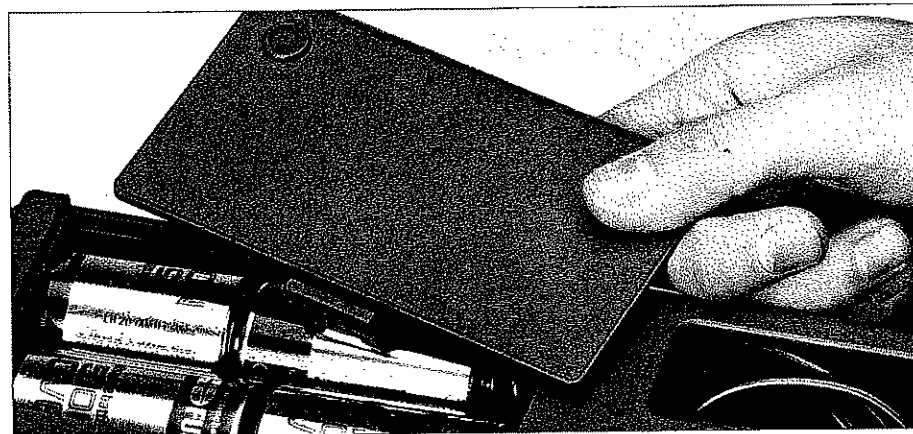
to the screw on the wall outlet plate for proper grounding.

CAUTION: If it is necessary to use a power cord adapter, have a trained electrician install the adapter to the outlet and check wiring to be sure there is no shock hazard. Faulty wiring can cause damage to the unit and possible injury to the operator.

Connecting remote microphone

Jacks for dual-plug external microphone (microphone not provided with the unit) are located on the front of unit. These are marked "REMOTE MIC". When inserting into jacks, push plugs in firmly until they are seated.

With microphone installed, remote on/off switch will start and stop recorder in either play or record mode.



Using your recorder

Playing a recorded cassette

After setting up your recorder by installing batteries or by plugging in the AC power cord (See Page 4), you can play recorded cassettes by following these three easy steps.

1. Open Cassette Chamber cover by pressing down Stop/eject key. Insert cassette into channel rail inside chamber cover as shown with exposed edge of tape facing you and full reel to your left. If you are playing a commercially

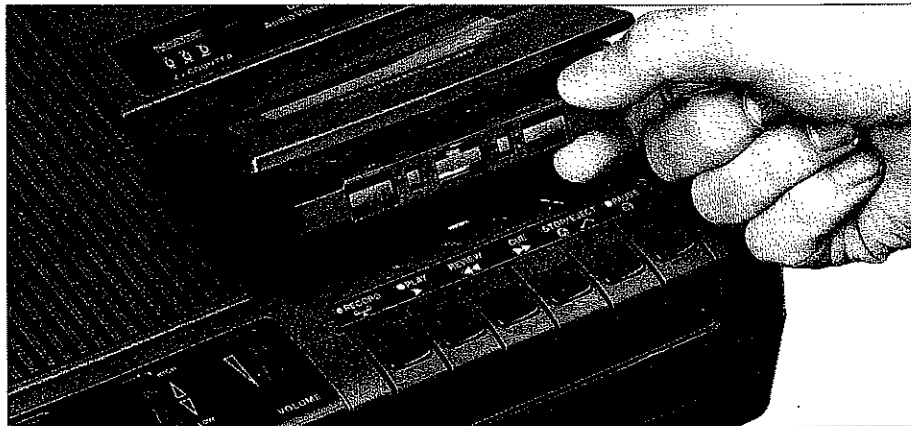
recorded cassette, selections listed on label on top side are the ones that will be played.

2. With cassette seated so that spindles engage the hubs, close cover of Cassette Chamber, and press Play key to listen to the tape. If you are using a remote control microphone, be sure that the on/off switch is turned to "on".

3. Adjust Volume Control and Tone Control for a comfortable listening level.

Most tape cassettes have two sides, just the same as records. Prerecorded cassettes are recorded on both sides. You can also make your own recordings on both sides of a blank cassette when the "knock-out" tabs on the cassette are intact.

Your recorder has a Full Automatic Shut-off feature which turns the unit "off" when all of the tape on one side has been played. To hear selections on the other side, just turn cassette over and reload as explained above. The full reel of the cassette should always be on your left when loading.



Using your recorder

(continued)

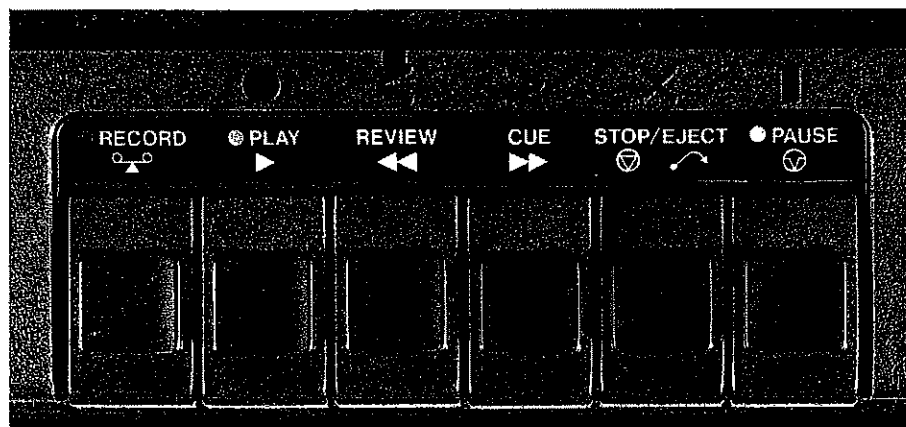
Using review and cue keys

After playing a tape and with the tape stopped, pressing Review key or Cue key will lock the key down for fast rewind or fast forward, respectively. Pressing Stop key returns Review or Cue key to up position.

For a quick review, back up the tape by pressing Review key (leaving Play key down) and hold it for the desired time. When Review key is released, unit returns to play mode.

To advance tape to another section, press Cue key (leaving Play key down) and hold it for desired time. When Cue key is released, unit returns to play mode.

When using Review key and Cue key, you soon learn to estimate approximately how long to hold the key depressed to reach a desired tape location.



Using pause key

The Pause key is used to instantly stop the tape transport without releasing the Play key. Push this key once to stop tape movement; push it again to restart tape.

The Pause key also is useful in recording since it instantly stops the tape. See information on pages 7 and 8.

Using tape counter

The counter provides a means of numerically indexing selections on tape cassettes and allows fast return to specific parts of the tape. To reset counter to "000" at the start of tape, press reset button. The counter conforms to 2X ANSI standards.

The Tape Counter is helpful when recording and re-recording a tape in segments.

Using your recorder

(continued)

Recording with automatic level control

This unit is equipped with Automatic Level Control which adjusts the recording level automatically. Combined with the built-in Condenser Microphone, you have the advantages of "hands free" recording. Move the ALC switch to the "ON" position. Insert a blank tape cassette with "knock-out" tabs intact and depress the Record and Play key. The Recording Level indicator will display as you record which shows you that a signal is being recorded on the tape.

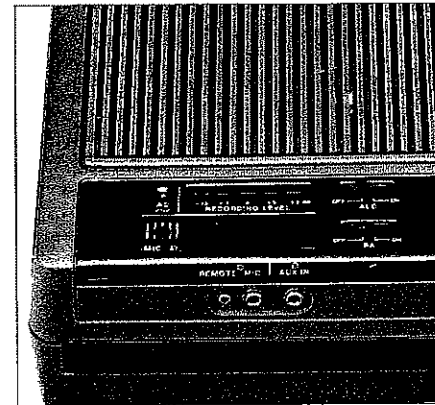
You can also record with Automatic Level Control when using a Remote Control Microphone. Just plug the microphone cord into the "REMOTE MIC" jacks, move the ALC switch to "ON", insert a blank cassette with "knock-out" tabs intact and press Record and Play keys. Holding the microphone about 6 to 8 inches away from your mouth, turn microphone switch "on" and begin speaking. To pause during recording, move microphone switch to "off", then back to "on" when you wish to resume.

The unit's Pause key also may be used to stop the recording without disturbing the position of the Record and Play keys.

When the recording is complete, press Stop/Eject key to release all other keys.

To play what you have recorded, press Review key to back up tape, then press the Play key. If microphone is still plugged in, leave the switch "on".

The counter can also be used to indicate position of the tape. With a little practice you soon will be using the key most effectively.



Using your recorder

(continued)

Recording with manual level control

There are times when it is desirable to record with manual level control. Music, for example, usually can be recorded with better results in the manual method; the same is true when you are recording with a relatively high level of background noise. This unit is sensitive to background noise in the ALC mode and will tend to emphasize background sounds in noisy rooms.

To record with manual level control, follow these steps:

1. Load unit with a blank tape cassette with "knock-out" tabs intact.
2. Set the ALC switch to "OFF" position.
3. Use the built-in Condenser Microphone, Remote Control Microphone, or Auxiliary input.
4. Press Pause key down, then both Record and Play keys. Turn switch on remote microphone to "on".

5. Start the voice or source to be recorded. Sounds will be picked up by the microphone, but because the Pause key is down, they will not be recorded. To set the level correctly, watch the Recording Level indicator and set the Volume Control so that all the LEDs up to 0 dB light during the loudest portion of your recording. (No practical problems are posed even if all LEDs up to 3 dB light momentarily.)

6. When the level is right, press the Pause key to release it. Tape transport will start instantly.

To record from sound sources such as a radio, tape player or other device through the AUX input jack, obtain a suitable connecting cord to hook-up the source with the AUX jack. If using the ALC recording system, turn the sound source to a normal listening level. Follow regular recording procedures. If using the manual recording system, follow the procedure as when using a microphone.

Using the unit as a public-address system

This unit can be used to make amplified announcements.

To do so, connect an external microphone to the "MIC" jack and, without inserting a cassette, press the Play key. Adjust the Volume Control to the most satisfactory level. To prevent "howling", hold the microphone as far from the built-in speakers as possible, or reduce the volume level by using the Volume Control.

Optional Equipment

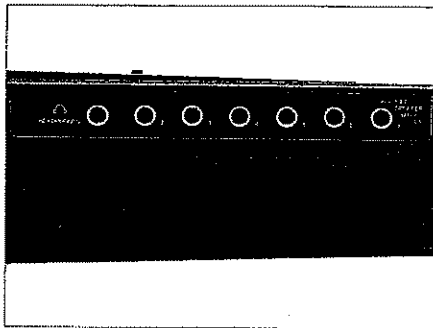
Using Listening Center

Located on the left side of the unit, this center consists of seven standard 1/4" headphone jacks. From one to seven headphone sets may be plugged into this center at one time for group listening of tape cassette being played.

NOTE: When using more than one headphone, be sure that all headphones are of the same type or impedance so that they will all reproduce at the same volume level.

NOTE: The 1/4" jacks except No. 7 are not designed to operate extension loudspeakers.

Therefore when using an extension loudspeaker, insert the plug into No. 7 jack.



Optional accessories allow even more flexibility and convenience in the use and performance of your new quality cassette recorder. These recommended accessories are available from your dealer.

Headphones #715735

Make the most of your Listening Center feature.

- Full range sound reproduction
- Large, comfortable ear muffs are washable and replaceable
- Speaker-like sound elements
- Protected headsize adjustment band

Remote Control Microphone #707253

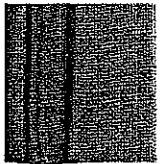
When you're recording where there is high background noise levels, this accessory greatly improves recording quality.

Hints on using your recorder

Listen in privacy to your recordings by connecting accessory headphones to a Listening Center jack. When you play back a tape with headphones plugged in, the unit's built-in speaker is automatically turned off.

Recorded tapes can be erased by running them through the unit with controls in the Record mode. Be sure to turn off the ALC switch and have the Volume Control turned all the way down. A bulk tape eraser is the fastest, easiest and best way to erase recorded tape cassettes. These are available from your dealer.

Distortion in your recordings can be caused by having the manual recording level set too high when using the manual system with ALC off, or by having the sound source or background noise much too high when using the ALC system.



Hints on using your recorder

(continued)

Caring for your recorder

Clean the heads periodically for continued high fidelity performance. Use a cotton swab and any commercial magnetic head cleaning agent. Follow instructions on the cleaner container.

The magnetic head which is used for recording and playback can become magnetized from continued use. A magnetized head will cause distortion in playback or recording.

Demagnetize the head periodically with a commercially available head demagnetizing unit. Complete instructions are provided with these specially designed units.

Protecting your cassettes

Keep in mind that unless tabs on back of cassette have been removed, any sound already on tape will be erased automatically if that cassette is used in Record mode of recorder. You can protect cassette from accidental erasure by removing the two small tabs on back of each cassette.

With Side 1 of cassette facing up, tab on left may be used to protect Side 1, and tab on right to protect Side 2.

Tabs can be removed merely by breaking them outward with a small screwdriver, penpoint or other suitable tool.

If at a future date, you no longer want to preserve a protected cassette, merely cover the openings (where tabs were removed) with small pieces of cellophane tape. That cassette then can be used for re-recording.

Specifications

Dimensions	13.4"×9.6"×3.4"
Weight (without batteries)	5.11 lbs.
Frequency Response	125 Hz to 8 kHz
Wow & Flutter	0.17%
Signal to Noise Ratio	45 dB
Power Output	5W@5%T.H.D.

Specifications and features subject to change without notice.



CASSETTE TAPE RECORDER
WARRANTY
LIMITED 1 YEAR WARRANTY

EIKI International Corporation warrants this product when sold to the original purchaser from an authorized EIKI dealer, to be free from defective materials and workmanship for a period of 1 year. (Batteries and tape excluded).

EIKI agrees to repair any defect or furnish a new or equal part through an authorized EIKI Service Dealer or Station without charge within this period.

It shall be the obligation of the purchaser to provide proof of purchase and cover all transportation charges to and from the service facility. Damage or loss to the product during transit is not covered by this warranty.

This warranty does not apply to appearance items nor to any product whose exterior has been damaged or defaced, nor to any product subjected to misuse, abnormal service or handling, nor to any product altered or repaired by other than an Authorized EIKI Service Dealer or Station. The provisions of this warranty does not apply to any products purchased or serviced outside the United States, its territories or possessions, except Canada.

Eiki International Inc.
27882 Camino Capistrano,
Laguna Niguel, CA 92677-8000
(714)582-2511

THIS SHALL BE THE EXCLUSIVE WRITTEN WARRANTY TO THE ORIGINAL PURCHASER AND NEITHER THIS WARRANTY NOR ANY OTHER WARRANTY EXPRESSED OR IMPLIED SHALL EXTEND BEYOND THE PERIOD OF THE TIME LISTED. IN NO EVENT SHALL EIKI BE LIABLE FOR CONSEQUENTIAL ECONOMIC DAMAGE TO PROPERTY. SOME STATES DO NOT ALLOW A LIMITATION OR EXCLUSION OF IMPLIED WARRANTIES OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION AND EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

For questions concerning this warranty or to obtain the name and address of the nearest authorized EIKI Service Dealer or Station call or write, EIKI International, Inc. at one of the following:

Eiki Canada
(Branch of Eiki International Inc.)
101 Thorncliffe Park Dr.,
Toronto, Ontario M4H 1M2
(416)467-1161

EIKI

ADDENDUM TO MODELS 3270/5090

ADDRESS CHANGE

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IMPORTANT NOTICE

Do not discard shipping carton and packing materials.
These items may be needed for storage or future servicing.

CAUTION

RESPONSIBILITY FOR SAFE DELIVERY was assumed by the carrier upon acceptance of this shipment.
VISIBLE LOSS OR DAMAGE should be described fully on the freight bill or express receipt which should be signed by the carrier's agent.
CONCEALED LOSS OR DAMAGE noted upon unpacking must be reported to the carrier within 15 days in a written request for inspection by the carrier's agent.
ALL CLAIMS FOR DAMAGE sustained in transit should be filed with the carrier as soon as possible on forms which the carrier will supply.

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