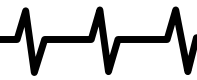


Franklin®

MER-3024

Medical Book System™



THE MERCK MANUAL

User's Guide

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Contents

Foreword	3
Key Guide	4
Installing Book Cards	5
Selecting a Book	5
Changing the Settings	6
Viewing a Demonstration	6
Using the Outline	7
Using the Index	8
Searching for Words	9
Highlighting Search Words	11
Expanding Your Searches	11
Reading Special Markers	12
Using Notes	13
Looking Up Words in Other Books	14
Resetting the Medical Book System	15
Book Card Care	15
Specifications and Patents	16
Limited Warranty (U.S. only)	17
FCC Notice	18
Index	19

► About Book Card Compatibility

IMPORTANT This book card can be used *only* with the Medical Book System™ platform and will not function in any other Franklin BOOKMAN® platform.

The Medical Book System platform can use Franklin BOOKMAN book cards as well as Medical Book System book cards. However, Franklin BOOKMAN platforms cannot use Medical Book System book cards.

► For More Information

To learn more about the Medical Book System or other products from Franklin Electronic Publishers, call 800-665-5450 or visit the Franklin Web site at www.franklin.com.

► Understanding the Keys

The functions of the keys may vary according to which book card is installed and selected in the platform. To learn how to use a particular book card, read its User's Guide.

Foreword

With this edition, *The Merck Manual* celebrates its 100th birthday. When the editors of the 1st Edition produced their 192-page compendium, they could not have realized the extent to which medical knowledge would explode over the next century. *The Merck Manual* now fills 2,655 pages and covers countless diseases that were not known 100 years ago.

Although the knowledge of medicine has grown, the goal of *The Merck Manual* has not changed -- To provide useful clinical information to practicing physicians, medical students, interns, residents, nurses, pharmacists, and other health care professionals in a concise, complete, and accurate manner. *The Merck Manual* continues to cover all the subjects expected in a textbook of internal medicine as well as detailed information on pediatrics, psychiatry, obstetrics, gynecology, dermatology, pharmacology, ophthalmology, otolaryngology, and a number of special subjects. *The Merck Manual* quickly provides information that helps practitioners achieve optimal care. The more specialized the practice of medicine becomes, the more important such information becomes. Specialists as well as generalists must at some time quickly access information about other specialties.

The 17th edition of *The Merck Manual* is the culmination of an arduous but rewarding 7-year enterprise. Every topic has been updated, and many have been completely rewritten. Topics new to this edition include hand disorders, prion diseases, death and dying, probabilities in clinical medicine, multiple chemical sensitivity, chronic fatigue syndrome, rehabilitation, smoking cessation, and drug therapy in the elderly, among others.

Because of the extensive subject matter covered and a successful tradition developed through trials of successes and failures, *The Merck Manual* has some unique characteristics. Subject headings within each section, internal headings within a subject discussion, and boldfaced terms in the text form an outline intended to help with use of the text.

We hope this edition of *The Merck Manual* will serve as an aid to you, our readers, compatible with your needs and worthy of frequent use. Suggestions for improvements will be warmly welcomed and carefully considered.

Mark H. Beers, M.D., and Robert Berkow, M.D., Editors

Key Guide


Color Keys

- MORE** (red) Expands a word search.
- SPEC** (green) Displays the Outline location of the current text.
- SEARCH** (yellow) Displays the word search screen.
- LIST** (blue) Lets you add, find, or remove a note.



Function Keys

- BACK** Erases typed letters, or backs up to the previous screen.
- CAP** Shifts keys to type capitals or punctuation.
- CARD** Exits the currently selected book.
- CLEAR** Clears an entry or search and goes to the default state.
- ENTER** Enters a word, selects a menu item, or starts the highlight in text.
- HELP** Displays help messages.
- MENU** Displays the main menus.
- ON/OFF** Turns the platform on or off.
- SPACE** At entry screens, types a space. At menus and text, pages down.
- ? *** At menus, displays the title of a highlighted item. With **CAP**, types an asterisk (*) to stand for letters in a word.

Direction Keys

- UP** **DN** Pages up or down.
-  Moves the cursor, text, or highlight.

Key Combinations*

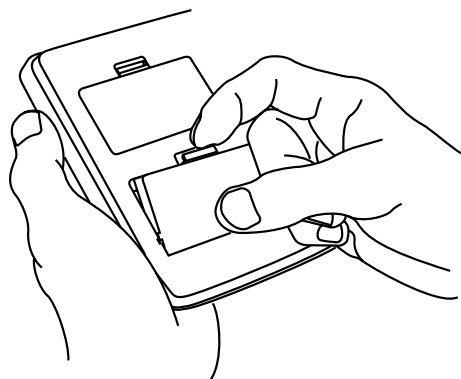
- ☆** + **BACK** Goes to the top level of a menu from a lower level.
- ☆** + **CARD** Transfers a highlighted word between installed book cards.
- ☆** + **ENTER** At a highlighted menu item, displays the related text. At text, highlights special markers (e.g., footnotes, cross-references, tables, etc.).
- ☆** + **Q-P** Types numbers.
- ☆** + **DN**
or **UP** At text, displays the next or previous paragraph, table row, or search match.
- CAP** + 
or  Goes to the top or bottom of a menu or list. At text, goes to the next or previous Outline title.

* Hold the first key while pressing the second.

Installing Book Cards

CAUTION Never install or remove a book card when the platform is turned on. If you do, information entered in any installed book cards may be erased.

1. Turn the platform off.
2. Turn the platform over.
3. Align the book card tabs with the notches in a card slot.



4. Press the book card until it snaps into the slot.

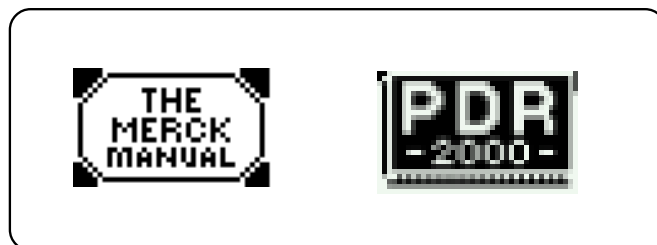
► Removing Book Cards

CAUTION When you remove a book card from a platform, information entered in that book card may be erased.

Selecting a Book

If you have installed two book cards in the platform, you can select which book you want to read.

1. Turn the platform on.
2. Press **CARD**.



3. Use **←** or **→** to highlight the book you want to use.



4. Press **ENTER** to select it.

► Resuming Where You Left Off

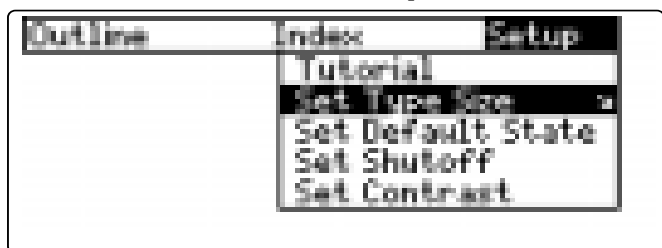
You can turn off the platform at any screen. When you turn it on again, the last screen that you viewed appears.

Changing the Settings

Using the Setup menu, you can adjust the type size, default state, shutoff time, and screen contrast of this book.

The type size sets how large the characters appear on screen. The shutoff time sets how long your Medical Book System stays on if you forget to turn it off. The default state sets the screen that appears when you press **CLEAR**.

1. Press **MENU**.
2. Highlight **Set Type Size, Set Default State, Set Shutoff, or Set Contrast** on the Setup menu.



3. Press **ENTER**.
4. Use **↓** or **↑** to change the setting.
Or press **BACK** to leave the setting unchanged.
5. Press **ENTER** to select it.

Viewing a Demonstration

Before you start using this book, you may want to see a brief demonstration.

Press **MENU** and then use the arrow keys to highlight *View Demo* on the Setup menu.



Press **ENTER** to select it. To stop the demonstration, press **CLEAR**.

► Help is Always at Hand

You can view a help message at virtually any screen by pressing **HELP**. To exit help, press **BACK**.

To read a tutorial about this book, select *Tutorial* from the Setup menu.

► Follow the Arrows

The flashing arrows at the right of the screen show which arrow keys you can press to move through menus or view more text.

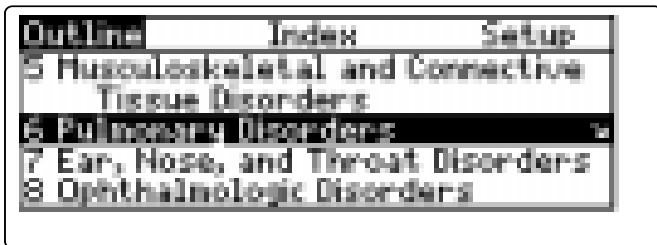
Using the Outline

The Outline contains the sections, chapters, and subchapters of the printed book.

1. Press **MENU** to highlight the Outline menu.

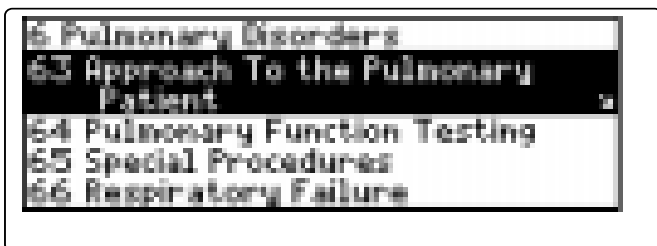
To learn how to make the Outline menu the default state, read “Changing the Settings.”

2. Use **↑**, **↓**, **UP**, **DN** or **SPACE** to highlight a section of the Outline.



You can also highlight a section by typing its number. To type a number, hold **☆** and press a numbered key. The slanted arrow indicates a submenu.

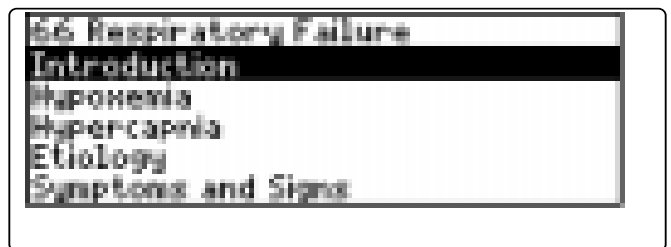
3. Press **ENTER**.



Using the Outline

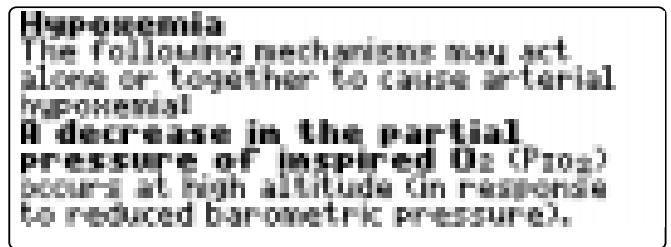
You can also go directly to the text by holding **☆** and pressing **ENTER**.

4. Highlight a chapter (e.g., *66 Respiratory Failure*) and then press **ENTER**.



To see the full title of any menu item, press **?***.

5. Highlight a subchapter (e.g., *Hypoxemia*) and then press **ENTER**.



6. Use **↓**, **DN** or **SPACE** to scroll down the text.

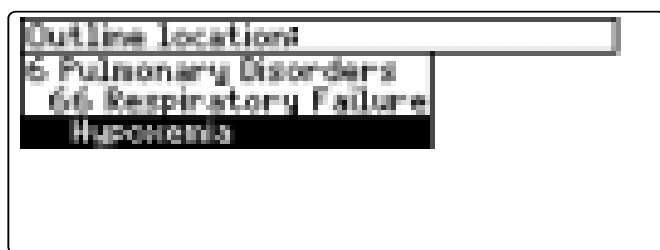
7. To go to the next or previous subchapter, hold **☆** and press **UP** or **DN**.

8. Press **CLEAR** when finished.

Using the Outline

► Where in the Book Am I?

When you are reading the text of this book, you can see the Outline location of the current text by pressing **(SPEC)** (green).



To display the full title of a highlighted item, press **(?*)**. This is useful when a title ends in ellipses.

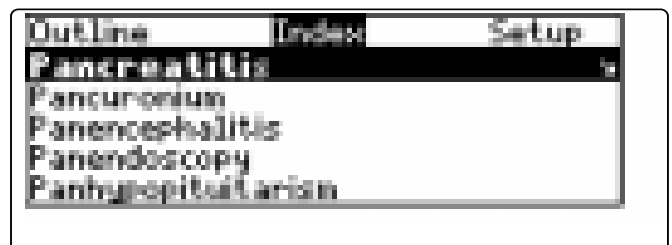
To go to the text associated with a highlighted item, press **(ENTER)**. To go back to the text that you were reading, press **(BACK)**.

► About Screen Illustrations

Some screen illustrations in this User's Guide may vary slightly from what you see on the screen. This does not mean that your Medical Book System platform or this book card is malfunctioning.

Using the Index

1. Press **(CLEAR)**.
2. Use **←** or **→** to highlight the Index menu.
3. Start typing an index entry (for example, type *pancreatitis*).



To undo a letter, use **(BACK)**. You can also use **↑** or **↓** to highlight an index entry.

4. When the entry is highlighted, press **(ENTER)**.



5. If needed, highlight a subentry (for example, *acute*) or reference number and then press **(ENTER)**.

Using the Index

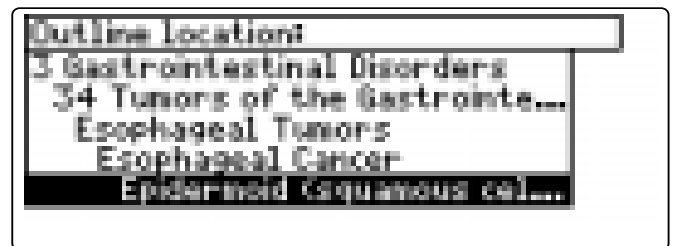
Acute Pancreatitis
Etiology and Pathogenesis
Biliary tract disease and alcoholism account for 2 00% of hospital admissions for acute pancreatitis. The remaining 20% are attributed to drugs (eg, azathioprine, sulfasalazine, furosemide, valproic acid), es-

6. Use ↓, (DN) or (SPACE) to scroll down the text.
7. To go to the next or previous subchapter, hold (CAP) and press (UP) or (DN).
8. Press (CLEAR) when finished.

Searching for Words

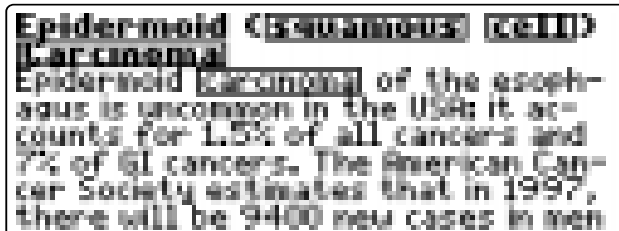
Word searches find all the occurrences, or matches, of a word or word phrase in this book. You can type up to 99 characters in a single search. You cannot search for short, common words such as *the* and *is*.

1. Press (SEARCH) (yellow).
2. Type your search words. For example, type *squamous cell carcinoma*.
To delete a letter, use (BACK).
You do not need to type capitals or punctuation to find matches.
3. Press (ENTER) to search.



Outline Location
3 Gastrointestinal Disorders
34 Tumors of the Gastrointestinal Tract
Esophageal Tumors
Esophageal Cancer
Epidermoid (Squamous Cell) Carcinoma

4. Press (ENTER) to see the first match.



Epidermoid (Squamous Cell) Carcinoma
Larynx
Epidermoid carcinoma of the esophagus is uncommon in the USA; it accounts for 1.5% of all cancers and 7% of GI cancers. The American Cancer Society estimates that in 1997, there will be 9400 new cases in men

Searching for Words

The search words are boxed. You may need to scroll down to see them.

5. To see the Outline location of the next or previous matches, if any, hold **☆** and press **DN** or **UP**.

If the message “Remaining matches in Index” appears, go to Step 7 below.

6. Press **ENTER** to see a match.
7. Press **MENU** to see the matches listed on the menus.



After a word search, only items with matches appear on the Outline and Index menus.

8. Select a menu item and then press **ENTER**. If needed, select a subitem.
9. Press **SEARCH** (yellow) or **CLEAR** to clear your search.

Searching for Words

► If You Misspell a Search Word

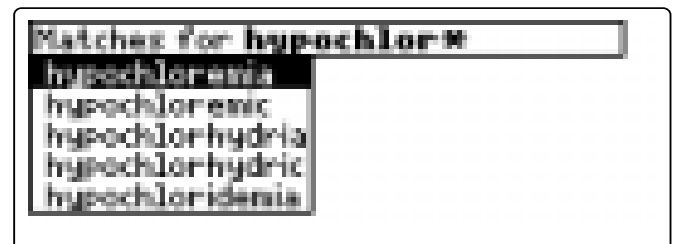
If you enter a misspelled search word, a list of corrections appears.



Use **↓** to highlight a correction and then press **ENTER**.

► Searching for Parts of Words

If you want to find prefixes, suffixes, or other parts of words, type an asterisk (*) in place of the missing letters. For example, type *hypochlor** and then press **ENTER**. To type an asterisk, hold **CAP** and press **?***.

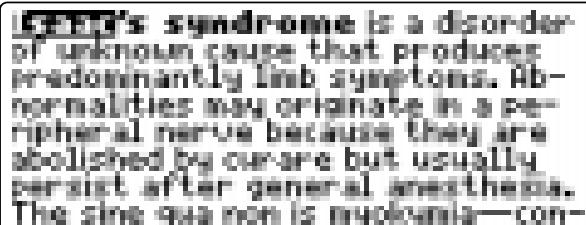


Use **↓** to highlight a match and then press **ENTER**.

Highlighting Search Words

You can also search for a word by highlighting it in the text of this book.

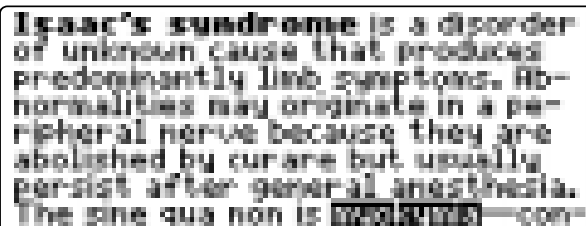
1. At the text, press **ENTER** to start the highlight.



Isaac's syndrome is a disorder of unknown cause that produces predominantly limb symptoms. Abnormalities may originate in a peripheral nerve because they are abolished by curare but usually persist after general anesthesia. The sine qua non is myokymia—con-

To turn off the highlight, press **BACK**.

2. Use the arrow keys to highlight a word.



Isaac's syndrome is a disorder of unknown cause that produces predominantly limb symptoms. Abnormalities may originate in a peripheral nerve because they are abolished by curare but usually persist after general anesthesia. The sine qua non is myokymia—con-

3. Press **ENTER** to search for it.
4. Press **ENTER** again to see the first match.
5. Hold **☆** and press **DN** repeatedly to see the Outline locations of the next matches, if any.
6. Press **MENU** to see the menu items with matches.
7. Press **CLEAR** when finished.

Expanding Your Searches

You can expand a word search up to three times to search for inflections, synonyms and similar words.

1. Press **SEARCH** (yellow).
2. Type a word and then press **ENTER**. For example, enter *myasthenia gravis*.

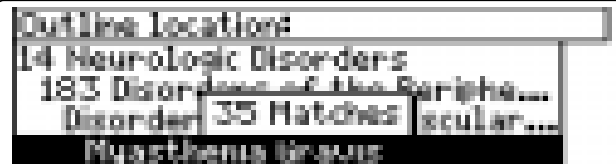


Type words, press **ENTER**.

myasthenia 7 Matches

Press **MENU** for other options.

3. Press **MORE** (red) to expand the search.



Outline Location

14 Neurologic Disorders

183 Disorders of the Peripha... Disorder 35 Matches scular...

Myasthenia Gravis

4. Hold **☆** and use **DN** to see the Outline locations of the next matches, if any.
To see the location of previous matches, if any, hold **☆** and use **UP**.
5. Press **MENU** to see the menu items with matches.
6. Press **CLEAR** when finished.

Expanding Your Searches

► Understanding Word Searches and Expansions

When you do a word search, either by entering words at the word search screen or by highlighting a word in the text, first headings (in bold type) are searched for exact matches. If no exact matches are found in the headings and subheadings, then the text is searched for exact matches.

If no exact matches are found, the headings are searched for inexact matches, such as inflections and synonyms. If no inexact matches are found in the headings, then the text is searched for them.

A word search stops as soon as matches are found at a level described above.

Pressing **MORE** (red) continues the search to the next level and finds additional matches, if any.

The number of matches found at a given search level may be less than at the previous level.

Reading Special Markers

This book contains cross-references (indicated by **WREF**'s), footnotes (indicated by **F-F**), and bibliographic references (indicated by **B-B**'s). Cross-references take you directly to related material in the book. Footnotes and bibliographic references provide additional information.

1. When you see **WREF**, **F-F**, or **B-B** in the text, hold **☆** and press **ENTER**.

Botulism is also due to decreased release of acetylcholine from presynaptic terminals (see Ch. 2000000). Toxin produced by *Clostridium botulinum* spores irreversibly binds to the terminal cholinergic nerve tufts. The result is profound weakness, sometimes

Notice the highlight. To undo the highlight, press **BACK**.

2. Press **ENTER**.

Botulism
General Information
Neuromuscular poisoning from Clostridium botulinum toxin.
Botulism occurs in three forms: foodborne, wound, and infant botulism.
Etiology and Pathophysiology

3. Press **BACK** repeatedly to go back.

Reading Special Markers

Note: The marker **FFF** stand for “no figure” and directs you to the print product.

► Abbreviation Meanings

When you see an abbreviation that you do not know in the text of this book, first press **ENTER** to start the highlight. Then use the arrow keys to highlight the abbreviation.

Introduction
(See also discussions of **ERCP**, percutaneous transhepatic cholangiography, and liver biopsy in Ch. 37 **ERCP**) and secretin test under **pancreatic pancreatitis** in Ch. 26 **ERCP**.)
Diagnosing and treating patients

Then press **ENTER** to see its meaning.

ERCP = endoscopic retrograde cholangiopancreatography

Press **BACK** to return to text. Press **BACK** again to turn off the highlight.

Using Notes

To Add a Note

You can add up to 10 notes to the text of this book to quickly find the sections that you most often use.

1. When text is on screen, press **LIST** (blue).
2. Press **ENTER** to select *Add note*.

Type your note then press **ENTER**. Or press **ENTER**.

Great Pain of Esophagitis

Press **ENTER** **ENTER** to cancel.

3. Do one of the following:
 - To accept the note title, press **ENTER**.
 - To change the note title, type your changes and then press **ENTER**.
- Note titles can contain up to 24 characters.
- To cancel, hold **☆** and press **BACK**.

odynophagia is pain during swallowing. Odynophagia may occur with or without dysphagia and may be caused by mucosal destruction (eg, GERD-induced esophagitis); bacterial, viral, or mycotic infections; or tumors, chemicals, or esophageal motor disorders (eg, achalasia, dif-

The **FFF** marker is added to the text when you add a note.

Using Notes

To Find a Note

Once you have added notes to this book, you can easily find them.

1. Press **LIST** (blue).
2. Use **↓** to highlight a note title.
Your notes are listed by recency.
3. Press **ENTER** to go to that note.

To Remove a Note

1. Find a **HITL** in the text of this book.
To learn how, read “To Find a Note” above.
2. Press **LIST** (blue).
3. To see the full title of the note to be removed, press **?***.
4. Press **ENTER** to select *Remove note...*
Or press **BACK** to exit without removing the note.

► Removing All Your Notes

You can remove all your notes at one time by resetting the Medical Book System. To learn how, read “Resetting the Medical Book System.”

WARNING Resetting the Medical Book System may erase other information that you have entered in other installed book cards.

Looking Up Words in Other Books

The Medical Book System platform enables you to look up a word from one installed book card in the other installed book card.

This book card can send words to and receive words from other book cards. Some book cards are not able to transfer words. To learn if a book card can send or receive words, read its User’s Guide.

1. Install two book cards in the platform.
2. Select a book to read.
3. Highlight a word in that book .
You can highlight words in menus, lists, entries, and other text. To learn how to highlight a word in this book, read “Highlighting Search Words.”
4. Hold **☆** and press **CARD**.
5. Highlight the icon of the other book card and then press **ENTER**.
The word that you highlighted appears in the other book.
6. Press **ENTER** again, if needed, to search for the word in the other book.

Resetting the Medical Book System

If, due to electrostatic discharge or other cause, the keyboard fails to respond or the screen performs erratically, try the steps below to reset the platform. Perform only as many steps as required to restore normal operation.

CAUTION Resetting the platform when book cards are installed may erase settings and information entered in those book cards. Remove all book cards before resetting.

1. Hold **CLEAR and press **ON/OFF** twice.**

If nothing happens, try Step 2.

2. Use the end of an opened paper clip to gently press the reset button on the back of the platform.

The reset button is recessed in a pin-sized hole located near the book card slots.

CAUTION Pressing the reset button with more than light pressure may permanently disable it.

If nothing happens, try Step 3.

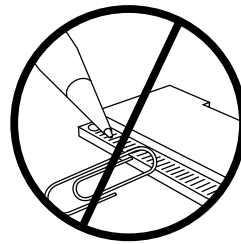
3. Remove and reinstall the batteries.

To learn how, read the Medical Book System platform's User's Guide.

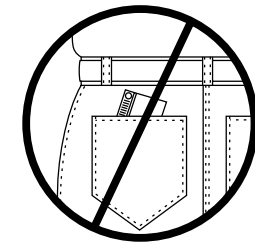
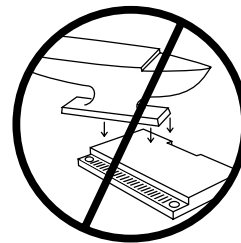
Book Card Care

- **Do not touch the metal contacts on the book cards.**

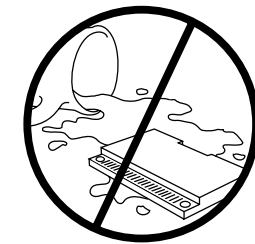
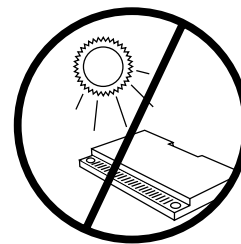
CAUTION Touching the electrical contacts with statically charged objects, including your fingers, could erase information entered in a book card.



- **Do not put excessive pressure on the book cards.**



- **Do not expose the book cards to heat, cold, or liquids.**



Specifications and Patents

Model MER-3024

- size: 5.9 x 4.2 x 0.6 cm
- weight: 0.4 oz

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U.S. Patents 4,490,811; 4,830,618;
5,113,340; 5,321,609; 5,396,606;
5,218,536; 5,627,726; 5,153,831.

Euro. Patent 0 136 379.

German Pat. Reg. No. M9409744.5.

PATENTS PENDING.

ISBN 1-56712-549-2

Limited Warranty (outside U.S.)

This product, excluding batteries, is guaranteed by Franklin for a period of one year from the date of purchase. It will be repaired or replaced with an equivalent product (at Franklin's option) free of charge for any defect due to faulty workmanship or materials.

Products purchased outside the United States that are returned under warranty should be returned to the original vendor with proof of purchase and description of fault. Charges will be made for all repairs unless valid proof of purchase is provided.

This warranty explicitly excludes defects due to misuse, accidental damage, or wear and tear. This guarantee does not affect the consumer's statutory rights.

This unit may change operating modes due to Electrostatic Discharge. Normal operation of this unit can be re-established by pressing the reset key, **ON/OFF**, or by removing/replacing batteries.

Limited Warranty (U.S. only)

LIMITED WARRANTY, DISCLAIMER OF WARRANTIES AND LIMITED REMEDY

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DAMAGED DATA OR OTHER COMMERCIAL OR ECONOMIC LOSS, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR THEY ARE OTHERWISE FORESEEABLE. WE ARE ALSO NOT RESPONSIBLE FOR CLAIMS BY A THIRD PARTY. OUR MAXIMUM AGGREGATE LIABILITY TO YOU, AND THAT OF OUR DEALERS AND SUPPLIERS, SHALL NOT EXCEED THE AMOUNT PAID BY YOU FOR THE FRANKLIN PRODUCT AS EVIDENCED BY YOUR PURCHASE RECEIPT. YOU ACKNOWLEDGE THAT THIS IS A REASONABLE ALLOCATION OF RISK. SOME STATES/COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. IF THE LAWS OF THE RELEVANT JURISDICTION DO NOT PERMIT FULL WAIVER OF IMPLIED WARRANTIES, THEN THE DURATION OF IMPLIED WARRANTIES AND CONDITIONS ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY GRANTED HEREIN.

(C) WARRANTY SERVICE: UPON DISCOVERING A DEFECT, YOU MUST CALL FRANKLIN'S CUSTOMER SERVICE DESK, 1-800-266-5626, TO REQUEST A RETURN MERCHANDISE AUTHORIZATION ("RMA") NUMBER, BEFORE RETURNING THE PRODUCT (TRANSPORTATION CHARGES PREPAID) TO:

FRANKLIN ELECTRONIC PUBLISHERS, INC.
ATTN: SERVICE DEPARTMENT
ONE FRANKLIN PLAZA
BURLINGTON, NJ 08016-4907

IF YOU RETURN A FRANKLIN PRODUCT, PLEASE INCLUDE A NOTE WITH THE RMA, YOUR NAME, ADDRESS, TELEPHONE NUMBER, A BRIEF DESCRIPTION OF THE DEFECT AND A COPY OF YOUR SALES RECEIPT AS PROOF OF YOUR ORIGINAL DATE OF PURCHASE. YOU MUST ALSO WRITE THE RMA PROMINENTLY ON THE PACKAGE IF YOU RETURN THE PRODUCT, OTHERWISE THERE MAY BE A LENGTHY DELAY IN THE PROCESSING OF YOUR RETURN. WE STRONGLY RECOMMEND USING A TRACKABLE FORM OF DELIVERY TO FRANKLIN FOR YOUR RETURN.

FCC Notice

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to insure compliance.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Index

Symbols

?* key 4, 10, 14

A

Abbreviations 13

Arrow keys 4, 6

Automatic shutoff 6

B

BIB marker 12

Blue (LIST) key 4, 13

Book cards

care 15

installing 5

platform compatibility 2

removing 5

selecting 5

C

Changing

screen contrast 6

settings 6

shutoff time 6

type size 6

Color keys

key guide 4

understanding 4

D

Default state

changing 6

defined 6

Demonstration 6

Index

Direction keys 4

F

Footnote marker 12

Foreword 3

Function keys 4

G

Green (SPEC) key 4, 8

H

Help messages 6

Highlighting

special markers 12

words 11

I

Index

using 8

K

Keys

combinations 4

direction 4

function 2, 4

L

Limited Warranty

outside U.S. 16

U.S. only 17

LIST (blue) key 4, 13

Index

M

Markers

- A-Z 12
- BIB 12
- NF 13
- NOTE 13
- XREF 12

Misspellings, correcting search words 10

MORE (red) key 4, 11

N

- NF marker 13
- NOTE marker 14

Notes

- adding 13
- deleting 14
- deleting all at once 14
- finding 14

O

Outline

- location 8, 10
- using 7

R

- Red (MORE) key 4, 11
- Reset button 15
- Resume 5

FRB-28517-00

P/N 7201343

Index

S

Screen contrast 6

Search

- expanding 11
- for partial words 10
- SEARCH (yellow) key 4, 9, 11
- Shutoff time 6
- SPEC (green) key 4, 8
- Special markers, reading 12, 13

T

- Tutorial 6
- Type size 6

V

Viewing

- cross-references 12
- demonstration 6
- help messages 6

W

- Word searches, understanding 12
- Words, highlighting 11

X

XREF marker 12

Y

Yellow (SEARCH) key 4, 9, 11

Rev. A