

Saitek



Cosmic Chess

Instructions

Mode d'emploi

Bedienungsanleitung

Handleiding

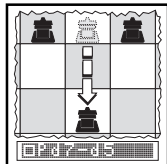
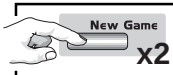
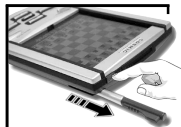
Istruzioni d'uso

Instrucciones de Funcionamiento

QUICK START

To play a game right away, simply follow these steps!

- 1 Open the battery cover and insert three "AAA" (AM4/R03) alkaline batteries, making sure to observe the correct polarity.
- 2 Remove the stylus from the storage area on the right-hand side of the unit, as shown here.
- 3 Press **GO/STOP**, located on the top edge of the unit, to turn the computer on. If you get no response, reset it as noted in Section 11.1.
- 4 Press **NEW GAME** twice, in quick succession, to reset the computer. *If the board doesn't reset for a new game of chess, you've taken too long between keypresses. Just try again!*
- 5 Enter moves by pressing the stylus gently on the **from** and **to** squares for each move. *Note that you may also use your fingertip.*
- 6 When the computer displays its move, its piece will flash briefly on the **from** and **to** squares, and the move will then be made on the board. Now, it's your turn again!



To turn the unit off, press **GO/STOP**. When **STOP** is displayed, press **GO/STOP** again to confirm—and your game will be stored in memory!

GET TO KNOW THE CHESS PIECES!



KING

QUEEN

ROOK

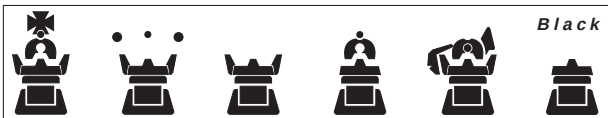
BISHOP

KNIGHT

PAWN



White



Black

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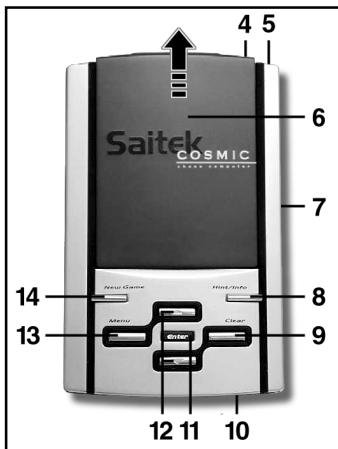
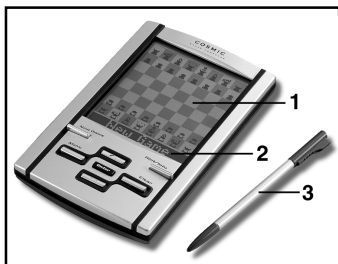
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STUDY MODE GAMES

KEYS AND FEATURES

- 1. TOUCH SCREEN CHESSBOARD:** Each square registers piece movement when pressed gently with stylus or fingertip.
- 2. INFORMATION LINE:** Shows moves, game information, and chess clocks. Also used when selecting options and levels, setting up positions, and more.
- 3. STYLUS:** Used to make moves on the touch screen; also used to select settings in the Information Line area.
- 4. GO/STOP KEY:** Press to turn unit on; press twice to turn off. Press to pause scrolling display; resume scrolling with **CLEAR**.
- 5. STYLUS STORAGE AREA:** Insert stylus into slot when not in use.
- 6. LCD COVER:** Slides on to protect display when unit is not in use.
- 7. ACL (Reset):** In base of unit. Used to eliminate static discharge after inserting new batteries.
- 8. HINT/INFO KEY:** Press during your move for a hint. Press repeatedly to cycle through main Info displays.
- 9. CLEAR KEY:** Press to exit Option/Info Modes; to cancel Level/Study Modes with no changes; to clear Info Mode displays; to remain in Study Mode after a wrong move; to clear the board in Setup Mode; to resume scrolling after a pause; and to resume play after takebacks.
- 10. BATTERY COMPARTMENT:** In base of unit. Uses three "AAA" (AM4/R03) alkaline batteries.
- 11. ENTER KEY:** Press to change sides with the computer. Press while the computer is thinking to force it to move. Press to select Main Menu items; to select settings and turn options on/off in Option/Info Modes; to enter a new level in Level Mode; to select a Study Position; to exit Setup Mode with a new position.
- 12. ▼/▲ KEYS:** Press to cycle through Levels/Study Positions one at a time in Level/Study Modes. Press to cycle through Options/Info displays in Option/Info Modes. Press to take back/replay moves in Takeback Mode.
- 13. MENU KEY:** Press to enter Menu Mode; press again to exit.
- 14. NEW GAME KEY:** Press twice, in quick succession, to reset the computer.



INTRODUCTION

Congratulations on your purchase of Saitek's Cosmic Chess Computer! Featuring extraordinary chessplaying abilities and a vast array of special options, this sleek unit offers a touch screen interface for convenience and ease of play. Portable and always travel-ready, it will also allow you to enjoy a game of chess anywhere, whether at home or on the road! Once you familiarize yourself with the basic operation, go on to explore all the extras this unique computer has to offer. You'll soon find that you're enjoying chess as never before!

1. GETTING STARTED: THE BASICS!

1.1 Batteries In, Power On

Your chess computer runs on three "AAA" (AM4/R03) batteries. Insert the batteries into the compartment in the base of the unit, making sure to observe the correct polarity. We recommend fresh alkaline batteries for longer battery life!

To turn the computer on, press **GO/STOP**. If you get no response, reset the unit by pressing a paper clip or another sharp object down into the hole marked **ACL** in the base for at least one second.

To conserve batteries, the computer will automatically turn itself off if left idle for about 20 minutes.

1.2 Ready to Play? Here's How!

Follow these steps to start a game:

- Press **GO/STOP** to turn the computer on.
- To reset the computer for a new game of chess, press **NEW GAME** twice, in quick succession. *If you take too long between keypresses, the computer won't reset itself, and you'll need to press the keys again.* As soon as the unit has been reset, you'll see **NEW GAME** displayed briefly, and then the symbol for White () and the chess clock () .
- To make a move, lightly press the stylus on the piece you want to move until you hear a beep and the piece flashes. *Note that you can use your fingertip instead of the stylus, if desired.*
- Next, press the stylus on your destination square. You'll hear a second beep as the computer confirms your move. Now, it's the computer's turn. *You'll notice that the computer often moves instantly at the beginning of a game, instead of taking time to*

think. This is because it is playing moves which are stored in its openings library. For details, see Section 2.9.

1.3 The Computer Makes its Move

When the computer moves, it first shows  briefly. While the computer considers its move for Black, the display flashes the symbol for Black () , while showing the computer's clock. Once the actual move is made, the computer will beep and display its move (e.g., ), and the piece will briefly flash back and forth on the **from** and **to** squares. After the move has been made on the board, the display will go back to showing your clock—and it's your turn again.

1.4 Game Over? Start a New Game

Caution: *Resetting the computer clears your current game from the computer's memory!*

Whenever you finish a game (or if you decide to give up on your current game), it's easy to start over again! Reset the computer by pressing **NEW GAME** twice in a row.  will be displayed, signalling that the computer is ready for another game of chess, using the currently selected playing level.

Special note regarding the Tournament Levels: If you reset for a new game before a Tournament Level game is over, you'll be asked to confirm the game's outcome before the computer resets itself. For details, see Section 2.5.

1.5 Too Easy/Hard? Change Levels!

When the computer is first turned on, it is automatically set to Playing Level 63, with an average computer response time of five seconds per move. You can, however, choose from 100 different levels of play! For descriptions of all the levels, as well as instructions on how to change the playing levels, see Section 5.

2. MORE FEATURES TO EXPLORE

2.1 Whose Turn? Check the Display!

When the computer thinks for Black, it flashes a Black square (). After the computer moves, the display shows a steady White square () , indicating that it's now your turn to move for White.

DISPLAY OPTIONS TO KEEP IN MIND!

- **To brighten/darken the display:** Select a different LCD Contrast setting, as noted in Section 4.9.
- **To slow down/speed up a scrolling display:** Select a different LCD Speed setting, as described in Section 4.10.
- **To pause a scrolling display:** Press **GO/STOP** once; press **CLEAR** to resume scrolling. Note that this feature is especially valuable if you have several of the automatic Info Mode displays activated while the computer is thinking!

2.2 Special Chess Moves

Please note the following, in regard to certain chess moves.

Captures: Captures are shown with an , as in .

En Passant: In this type of capture, displayed with an  after the capturing move, the computer reminds you to remove the captured pawn by flashing it. Press the pawn to remove it from the board.

Castling: After the King has been moved, the Rook will flash. Make the indicated Rook move on the board to complete the castling maneuver. Kingside castling is displayed as , and Queenside castling is displayed as .

Pawn Promotion:

• **When you promote a pawn**, first press the pawn on its **from** square, as usual. The display then changes to show the available promotion pieces (). To promote to a Queen, simply press the **to** square to complete your move. To underpromote to a Rook, Bishop, or Knight, press one of the displayed promotion symbols. The display will confirm briefly (e.g., ). Press the **to** square to complete the promotion, and the piece will automatically change on the board. *Note: If you change your mind about the promotion piece before pressing the **to** square, simply press one of the other symbols.*

• **When the computer promotes a pawn**, it indicates its move, along with the promoted piece, as in .

2.3 Illegal/Incorrect Moves

Your computer knows all the rules of chess—and it will never cheat! If you attempt to make an illegal move, a high-pitched double beep will alert you to your error. This will occur, for instance, if you

press an illegal **from** or **to** square, an incorrect piece or color, or an invalid game key.

If you press an illegal **to** square, the display will simply continue to indicate the square the piece came **from**. To continue, move your piece to a legal square. If you press a **from** square, but decide not to make that move, press that same square again to cancel the input. If you change your mind after entering your whole move, retract the move as described in Section 6.

2.4 Check, Mate, and Draw

Whenever a King is in check, the computer will display **Check** briefly after the move is made. If the computer discovers a forced mate, it will briefly show a mate announcement (e.g., **Mate in 3**). When a game ends in checkmate, the computer will either congratulate you or express its condolences, depending on whether you've won or lost. A display of **Checkmate** will then end the game.

The computer recognizes draws by stalemate, three-fold repetition, and the 50-move rule. In each of these cases, the corresponding display will be shown after the drawing move has been made.

2.5 Try the Self-Rating System!

Whenever you play on any of the Tournament Levels, the computer will provide you with an approximate ELO rating after the game has ended, based on your performance. Not sure what a "rating" is? It's a universally recognized method of measuring chess performance or describing relative playing ability. The international body which governs chess is called FIDE, or *Fédération Internationale des Échecs*, and FIDE ratings are sometimes referred to as ELO ratings. The United States Chess Federation (USCF) uses a similar rating system. Ratings are usually four-digit numbers, with stronger players having higher ratings. Towards the upper end of the scale, Masters rank in at 2200 and above, with International Grandmasters at 2500+. Want to know where you stand? Here's your chance! Refer to Section 5.3 for more information on the Tournament Levels.

2.6 Want a Hint? Just Ask!

If you ever need help with a move, the computer will be glad to oblige! Press **HINT/INFO** during your turn, and the computer will display a move suggestion. If the hint happens to be e4xd5, for example, **QxP** will be displayed. A "ply" is an individual move, or a move for either side. The hint can take from one to five

seconds to show, but it may sometimes take longer. To accept the hint, make the displayed move on the board. To make a different move, simply disregard the hint and make a move of your own. You can also cancel the hint display by pressing **CLEAR**.

2.7 Interrupting the Search

To interrupt the computer while it's thinking about a move, press **ENTER**. This forces the computer to play the best move it has found so far. This feature can be extremely useful on the higher levels, where the computer may take a long time to move, and on the Infinite and Tactical Levels, where it thinks indefinitely unless you stop it.

On the Problem Solving Levels, pressing **ENTER** while the computer is thinking will not cause the computer to make a move. Instead, the computer will display **No move found** to indicate that it was interrupted before finding a mate. To continue, switch to another level.

2.8 Changing Sides

To change sides with the computer, press **ENTER** on your turn—and the computer will make the next move for your side. You can change sides as often as you wish by pressing **ENTER** repeatedly.

Want the computer to play the first move for White at the start of a new game? Press **NEW GAME** twice, and then press **ENTER**!

Want to see the computer play chess against itself? Press **ENTER** after each move—and watch as it plays for both sides of the board, one move after another. Study its strategies, and you might just improve your own game!

2.9 Built-In Openings

At the beginning of a game, the computer's reply is often instantaneous on many levels, because it is playing moves from its *openings library*. The computer's library includes most major openings and many positions from grandmaster play. If the current board position is in its library, the computer plays a response to that position from memory, instead of thinking about the move. Note that the openings library is used on all levels except the Problem Solving Levels.

2.10 Thinking on the Opponent's Time

As you play, you'll probably notice that the computer sometimes replies to your moves immediately, even in the middle of games played on the higher levels. This is because the computer thinks on your time, using the time you are contemplating your next move to

think ahead and plan its own strategies. It tries to anticipate the move you are likely to make, and calculates its responses for that move while you're still thinking. If the computer has guessed correctly, there's no reason for it to keep on calculating—it immediately plays the move it has already found! Note that the computer does not think on the opponent's time on the Fun Levels.

2.11 Power Down/Game Memory

You may interrupt your game and turn the computer off by pressing **GO/STOP**. The display will show , and pressing **GO/STOP** once more to confirm will turn the unit off. Play is then suspended, and the computer will store your game for up to one year. When you switch back on again, you can continue from where you left off! If you decide not to turn the computer off after pressing **GO/STOP** once, simply press **CLEAR** to cancel.

If no keypresses or moves are made for 20 minutes, the Auto Power Down feature will automatically turn your computer off. To continue, press **GO/STOP** to turn the computer back on. Note that the computer will **not** turn itself off while it is thinking about a move, or while  is being displayed.

3. THE MAIN MENU: ACCESSING SPECIAL MODES

Cosmic Chess offers many user-selectable modes and options, all accessed via the integrated Main Menu. Once you press **MENU**, you're taken directly to , the first of six Main Menu items. Press **▼** (or **▲**) repeatedly to cycle through all the Menu items:

MAIN MENU ITEM	REFERENCE	DISPLAY
Option Mode	Section 4	
Level Mode	Section 5	
Take Back Mode	Section 6	
Info Mode	Section 7	
Setup Mode	Section 8	
Study Mode	Section 9	

To select one of the Main Menu items, press **ENTER**. In each case, you'll be taken to a sub-menu, where you can make subsequent selections. Some of the items (e.g., Option Mode) will offer a variety of different choices and sub-choices, while others (e.g., Setup Mode) will allow you to activate a particular game feature. Since the instructions for selecting menu items will vary, depending on the item you've chosen, please see the referenced section numbers for full details on

A QUICK LOOK AT THE MAIN MENU!

- : Explore a number of exciting game options.
 - Two Player Mode
 - Search Algorithm
 - Autobook Mode
 - White at Top
 - Countdown Clock
 - Ticking Sound
 - Coach Mode
 - Sound On/Off
 - LCD Contrast
 - LCD Speed
 - Automove Mode
- : Choose from 100 different levels of play.
- : Take back any or all previous moves.
- : Select various automatic information displays.
 - Show Moves
 - Show Nodes
 - Show Time per Move
 - Show Progress
 - Show Evaluation
- : Set up or change any board position.
- : Test yourself with 64 unique Study Positions.

accessing each of these major features. After selecting all desired options and/or changing game settings, press **MENU** again to exit the Main Menu and return to game play.

4. OPTION MODE: ADD VARIETY TO YOUR GAMES!

Want to explore all sorts of intriguing game options? Just take a look at Option Mode! First, learn how to select and activate these user-selectable options before or during game play, and then go on to learn about the individual options, as described in this section.

Selecting Game Options

Press **MENU** to enter the Main Menu, and the display automatically shows  for Option Mode. Press **ENTER** to enter Option Mode, and you'll see the first of 11 options, as shown below. Press **▼** (or **▲**) repeatedly to cycle through all the options:

OPTION	REFERENCE	DEFAULT DISPLAY
Two Player Mode	Section 4.1	
Search Algorithm	Section 4.2	
Autobook Mode	Section 4.3	

White at Top	Section 4.4	
Countdown Clock	Section 4.5	
Ticking Sound	Section 4.6	
Coach Mode	Section 4.7	
Sound On/Off	Section 4.8	
LCD Contrast	Section 4.9	
LCD Speed	Section 4.10	
Automove Mode	Section 4.11	

To turn an option on/off or to select option settings (if any), press **ENTER** when the option is displayed. Pressing **ENTER** repeatedly will cycle through all choices for the displayed option. When your desired choice is displayed, either press ▼ or ▲ to go on to a different option, or press **CLEAR** to return to the Main Menu, and then **MENU** to return to normal game play. For details on each of these options, see the referenced section numbers. *Note: When you reset the computer for a new game, most of your selected options are carried over to the next game. The only exception is Two Player Mode, which automatically returns to Player vs. Computer whenever you start a new game.*

4.1 Two Player Mode

Options: (Player vs. Computer)
 (Player vs. Player)

Normally, the computer automatically answers with a countermove after you enter your move. If you activate , however, you can enter any number of moves one by one, without allowing the computer to answer. This feature can be used in a number of interesting ways:

- *Play through master games. Press **ENTER** to see what the computer would do in any position!*
- *Keep records of your own chess games. When a game is over, play to certain board positions to see how other moves or different strategies might have affected the outcome.*
- *Study opening lines by entering them manually.*
- *Play against a friend, with the computer acting as a referee. The computer will check all moves for legality and keep track of the time for both sides!*

If you're playing against another person and you want to see what the computer would do in your position, press **ENTER** to have the computer make your next move. After the computer has moved, Two Player Mode remains in effect, and you can continue your game. Note that this option automatically reverts to its default setting of Player vs.

PRACTICE SETTING AN OPTION!

- Menu**

1. Press **MENU** to enter the Main Menu. The display will show .
- Enter**

2. Press **ENTER** to enter Option Mode. *For this example, let's pick the Ticking Clock Option.*
- 
3. Press ▼ five times, until the display shows .
- Enter**

4. Press **ENTER** to turn this option on, and the display changes to .
- Clear**

5. Press **CLEAR** to exit Option Mode, press **MENU** to exit Menu Mode—and the simulated ticking will start! *Note: To turn this option off again, repeat the above steps.*
- Menu**


For more details, see Section 4.6.

Computer whenever you reset for a new game.

4.2 Search Algorithm

Options:  / 

The program in this chess computer normally uses a *Selective Search algorithm*. In this particular type of search, the computer concentrates mainly on those moves most likely to be successful, allowing it to see combinations that might otherwise take much longer to compute. You can also switch over to the somewhat slower but very powerful *Brute Force algorithm*, which can minimize the risk of an occasional oversight.

4.3 Autobook Mode

Options:  / 

This unique feature actually monitors your play during the opening phase of the game—and then gives you the opportunity to practice those openings which are giving you the most trouble! It's like having your own personal "Adaptive Opening Coach"! With the Autobook option on, the computer will watch your opening moves as you play.

The next time you end up with a bad position a few moves after the end of an opening variation, the computer will “remember” that particular opening line. In the future, then, the computer will play that same opening whenever possible. This allows you to try out different moves and strategies, in an attempt to become more familiar with that opening, and thereby strengthen your play!

4.4 White at Top

Options:  / 

Want to depart from the usual standard and have the computer play the White pieces from the top of the board? Then try out this feature by selecting  at the beginning of a new game! Start your game by pressing **ENTER**, and the computer will make the first move for White from the top of the board.

Note: When the computer plays White from the top of the board, you'll notice that the Kings and Queen are positioned differently, and the board notation is automatically reversed.

4.5 Countdown Clock

Options:  / 

Normally, the computer defaults to the  option, displaying the elapsed time. Activating the Countdown Clock option, however, will display the remaining time instead. Here's how to differentiate between the clocks symbols at a glance:

 /  Countup Clocks (White/Black)

 /  Countdown Clocks (White/Black)

Note that the Countdown Clock option is only available in combination with the Tournament and Speed Chess Levels.

4.6 Ticking Sound

Options:  / 

Turning this option on will activate a ticking sound that simulates a chess clock. You can create the atmosphere of a championship chess tournament in your very own living room!

4.7 Coach Mode

Options:  /  /  / 

Activating Coach Mode allows the computer to look over your shoulder while you play, watching what you do and offering help if you

need it! In this unique capacity, the computer might warn you if you are in danger of losing a piece, or if it thinks your move is about to lead to an avoidable material loss. You may see displays like **Your Queen is in jeopardy** or **Watch your Knight**. If you stand to benefit from a particular situation, you might even see **He's giving you a big chance**. Sometimes, the computer will also ask you to confirm or cancel an obviously illogical move. If you choose to cancel, your move will be taken back and you can try another!

To choose one of the Coach options, press **ENTER** repeatedly until your desired level is displayed. Once you exit Option Mode and return to game play, the last displayed Coach option will automatically be in effect. The following are the available settings.

- **Coach: off**: No coaching features are activated.
- **Coach: novice**: Here, the computer assumes that you are familiar with many tactical and strategic concepts, so it will only make you aware of less obvious and more advanced concepts, such as sacrifices and combinations.
- **Coach: intermediate**: In this case, the computer gives the amount of assistance it deems appropriate for players who can see the most obvious points, but who also need to be made aware of others.
- **Coach: advanced**: This setting will give warnings and advice whenever the computer feels they're necessary, such as when you commit a blunder or if a piece is in jeopardy.

When Coach Mode is activated, the computer will sound intermittent beeps during your turn as White, as a reminder that it's waiting for you to make a move.

4.8 Sound On/Off

Options: **Sound: on / off**

Selecting one of these sound settings gives you the option of playing chess with or without sound effects.

4.9 LCD Contrast

Options: **Contrast: 1 / 2 / 3 / 4 / 5**

This option allows you to adjust the contrast of the LCD display, with 1 being the lightest, and 5 the darkest. If you find that the default setting of 3 is too light or too dark to read comfortably, change it by pressing **ENTER** repeatedly, until your desired setting is displayed.

4.10 LCD Speed

Options:  speed: 1 / 2 / 3 / 4

You can control the scrolling speed of the LCD display by setting this option, with 1 being the slowest, and 4 the fastest. If you find that the default setting of 2 is too slow or too fast to read comfortably, you can change it by pressing **ENTER** repeatedly, until your desired setting is displayed.

4.11 Automove Mode

Options:  automove: on / off

Normally, when the computer makes a move, it briefly flashes its piece on the **from** and **to** squares, and then automatically makes the move on the board. If you change to  automove: off, however, the computer will announce its moves as usual—but it will be up to you to move the computer's pieces on the board. After the computer has announced its move, it will flash its piece on the **from** square. Press the flashing piece, and it will then move to the **to** square. Press the **to** square to complete the computer's move.

5. LEVEL MODE: CHOOSE FROM 100 LEVELS!

Your chess computer has 100 unique playing levels to choose from! The levels are divided into two basic groups:

- **FUN LEVELS (1-60):** *These levels offer beginners and average players a chance to build their chess skills. On many of the Fun Levels, you'll see the computer make mistakes on purpose—just so you can learn from it!*
- **COMPETITION LEVELS (61-100):** *These levels are geared towards intermediate and more advanced players. Included are levels for casual and tournament play, problem solving, speed chess, and even special levels for experimentation. As you are selecting levels, keep in mind that when the computer has more time to think about its moves, it becomes stronger and plays better—just like a human chess player!*

Setting a Playing Level

Press **MENU** to enter the Main Menu, and press ▼ until the display shows . Press **ENTER** to enter Level Mode, and you'll see the currently selected level, as in  (the default level on the first power up). To change the level, press ▲ or ▼ to increase/decrease the levels by **one**, or use your stylus to press  or  to

increase/decrease the levels by **ten**. Note that pressing and holding down **▲** or **▼** will automatically increase/decrease the levels one at a time, until you stop pressing the key. When your desired level is displayed, press **ENTER** to enter that level selection into the computer. The display will confirm with **Level changed**, and you'll go back to the Main Menu. Press **MENU** to return to game play.

If you enter Level Mode to verify the level, but you don't actually want to change levels, press **CLEAR** to go back to the Main Menu. Once you exit the Main Menu with **MENU**, you'll return to your game without changing the level or clock settings.

Please also note the following regarding level selection:

- *The level can be changed whenever it's your turn to move.*
- *Changing the level always resets the chess clocks.*
- *If you change levels while the computer is thinking, the computer will abort its search and reset the clock.*

FUN LEVELS

5.1 Fun Levels

Level	Description	Display
1	Fun Level 1	[Fun Level 1]
2	Fun Level 2	[Fun Level 2]
3	Fun Level 3	[Fun Level 3]
...all the way up to...		
58	Fun Level 58	[Fun Level 58]
59	Fun Level 59	[Fun Level 59]
60	Fun Level 60	[Fun Level 60]

The Fun Levels are meant primarily for beginners and younger players. On these levels, Cosmic Chess is much more “human” than most other chess computers—it gives everyone a chance to win, in a world where chess machines are typically relentless and often quite difficult to beat. Although the general consensus seems to be that computers never make mistakes, on some of these levels, this computer actually does!

Handicaps are built into these levels, demonstrating common mistakes made by beginners. You may see the computer deliberately ignore the material worth of pieces, and ignore key concepts such as pawn structure, centrality, mobility, and King safety. It may overlook or walk into mates, develop its Queen too early, or make impulsive captures and checks. Chess books often advise of basic rules, yet players see their opponents breaking the rules and getting away with it. The Fun Levels provide a way to practice punishment of these

typical mistakes, enabling the beginner to strengthen his game against the human opponents he's likely to face! On some of the weaker Fun Levels, the computer will not only leave pieces unguarded, but it might actually **try** to lose material. As the levels get higher, they give away material less consistently. They progressively start to consider the material worth of pieces more and more, and eventually only occasionally give pieces away. On the upper Fun Levels, the computer won't actually give away material, but it will play more like a beginner who has learned the basics of the game. You might still see it make errors such as opening itself up to threats of check or checkmate. Why not explore all the Fun Levels—and try to learn from the computer's mistakes!

COMPETITION LEVELS

5.2 Casual Play Levels

Level	Average Time per Move	Display
61.....	1 second per move	[00:01/move]
62.....	2 seconds per move	[00:02/move]
63.....	5 seconds per move	[00:05/move]
64.....	10 seconds per move	[00:10/move]
65.....	15 seconds per move	[00:15/move]
66.....	30 seconds per move	[00:30/move]
67.....	45 seconds per move	[00:45/move]
68.....	1 minute per move	[01:00/move]
69.....	2 minutes per move	[02:00/move]
70.....	3 minutes per move	[03:00/move]

When you choose one of the above levels, you're selecting an average response time for the computer. Note that the response times are averaged over a large number of moves. In the opening and the endgame, the computer will tend to play faster, but in complicated middlegame positions, it may take longer to move.

5.3 Tournament Levels

Level	Number Moves/Total Time	Display
71.....	40 moves in 1 hour 20 min.	[40 in 1:20]
72.....	40 moves in 1 hour 30 min.	[40 in 1:30]
73.....	35 moves in 1 hour 45 min.	[35 in 1:45]
74.....	40 moves in 1 hour 45 min.	[40 in 1:45]
75.....	35 moves in 1 hour 30 min.	[35 in 1:30]
76.....	40 moves in 2 hours	[40 in 2:00]
77.....	45 moves in 2 hours 30 min.	[45 in 2:30]

CHANGING THE LEVEL: IT'S EASY!

Menu



1. Press **MENU** to enter the Main Menu. The display will show .



2. Press **▼** one time, and the display will show .



3. Press **ENTER** to enter Level Mode, and the current level is displayed. *Refer to Section 5, if necessary, to identify the current level.*



4. *Let's find Speed Chess Level 81.* Press **▲** or **▼** to increase or decrease the levels by **one**; press **↵** or **↵** to increase or decrease the levels by **ten**. Watch the display for .



5. When you see , press **ENTER**. Then, press **MENU** to exit Menu Mode—and you're ready to try out your new level!

Menu



For more details, see Section 5.

78	50 moves in 2 hours.	
79	40 moves in 2 hours 30 min.	
80	40 moves in 3 hours	

The Tournament Levels require you to make a certain number of moves within a specific amount of time. If a player exceeds the allotted time for a given number of moves, the display will indicate this, and the game is over.

As described previously in Section 2.5, this computer utilizes a Self-Rating system whenever you play Tournament Level games! After a Tournament game has ended and you press **NEW GAME** twice to reset the unit, the computer will briefly display your rating before going on to the new game display. If you miss the rating display, you can press **HINT/INFO** five times to see the rating again at any time. To clear the display, press **CLEAR**.

If you reset the computer for a new game *during* a Tournament game, *before the game has actually ended*, the computer will allow you to dictate the outcome, as follows:

- Display = `Mate as draw?`.
If you press **ENTER**, the rating will be displayed.
If you press **▲**:
- Display = `Mate as win?`.
If you press **ENTER**, the rating will be displayed.
If you press **▲**:
- Display = `Offline wins?`.
If you press **ENTER**, the rating will be displayed.
If you press **▲**:
The display will cycle back to `Mate as draw?`.

In order to obtain a rating, you *must* answer one of the above questions with **ENTER**! If you *do not* want the game to be rated for any reason, press **CLEAR** in answer to any of the above questions. The computer will confirm by displaying `Game not rated`.

5.4 Speed Chess Levels

Level	Total Time per Game	Display
81.....	5 minutes per game	<code>5 min/game</code>
82.....	7 minutes per game	<code>7 min/game</code>
83.....	10 minutes per game	<code>10 min/game</code>
84.....	15 minutes per game	<code>15 min/game</code>
85.....	20 minutes per game	<code>20 min/game</code>
86.....	30 minutes per game	<code>30 min/game</code>
87.....	45 minutes per game	<code>45 min/game</code>
88.....	60 minutes per game	<code>60 min/game</code>
89.....	90 minutes per game	<code>90 min/game</code>
90.....	100 minutes per game	<code>100 min/game</code>

On the Speed Chess Levels, you set the total time for the whole game. If the game time is exceeded, the computer displays which side has lost on time, as in `Write time out`. For these levels, you may want to activate the Countdown Clock option to show the countdown time instead of the elapsed time (see Section 4.5).

5.5 Problem Solving Levels

Level	Problem	Display
91.....	Mate in 1 move	<code>Mate in 1</code>
92.....	Mate in 2 moves	<code>Mate in 2</code>
93.....	Mate in 3 moves	<code>Mate in 3</code>
94.....	Mate in 4 moves	<code>Mate in 4</code>
95.....	Mate in 5 moves	<code>Mate in 5</code>
96.....	Mate in 6 moves	<code>Mate in 6</code>

97	Mate in 7 moves	
98	Mate in 8 moves	

Selecting one of these levels activates a special mate finder program. If you have a position where there may be a mate and you would like the computer to find it, set the computer on one of the Problem Solving Levels. Your computer can solve mates in up to eight moves. Mates in one to five are usually found quite quickly, whereas solutions taking six to eight moves may take quite some time. If there is no mate present or the computer cannot find a mate, it will briefly display . You may continue to play, if desired, by switching to another level.

5.6 Tactical Level

<i>Level</i>	<i>Description</i>	<i>Display</i>
99	Tactical Play (no time limit)	

On the Tactical Level, the computer's goal is to find the best tactical sequence more quickly than it would on a normal playing level. The computer will search indefinitely until it finds a win of two pawns or more, or until you stop the search by pressing **ENTER**. The Tactical Level is great for experimentation, since it lets the computer concentrate fully on special tactical positions!

5.7 Infinite Level

<i>Level</i>	<i>Description</i>	<i>Display</i>
100	Infinite (no time limit)	

On the Infinite Level, the computer searches indefinitely until it finds a forced mate, or until you stop the search by pressing **ENTER**. If the search is halted, the computer makes the move it currently thinks is best. Try experimenting with this level—set up special board positions and let the computer analyze them for you! It will think for hours and even days on end, trying to find the best possible move.

6. TAKEBACK MODE: TAKE BACK MOVES

When you're playing chess against this computer, nothing is ever "set in stone"—you can change your mind or decide to play a different move whenever you'd like! When it's your turn to move, simply press **MENU** to enter the Main Menu, and press **▼** repeatedly until the display shows . Press **ENTER** to enter Takeback Mode, and you'll see the last move that was made. To take that move back, press **▼**, and the move will be retracted on the board. The display will

then show the next move to be taken back. You may continue to press ▼ to take back any number of moves, all the way back to the beginning of the game, if desired. If you reach the beginning, the display will show , and you'll automatically be returned to the Main Menu. Note that, as long as you don't go back to the very start of the game, you can always press ▲ to go forward through the moves again, if desired. To resume your game at any point with the current board position, press **CLEAR** and then **MENU**.

As a shortcut to entering Takeback Mode, you can also simply press on the **to** square of the last move that was made. The display will briefly show , and it will then show the last move that was made. To take the move back, press ▼. As above, repeated presses of ▼ will take more moves back, if desired. To resume game play at any point, press **CLEAR**.

7. INFO MODE: WATCH THE COMPUTER THINK!

***Imagine this:** You're playing chess against a friend, and it's his move. You'd love to know what move he's considering and you'd really like his opinion of the current board position. But, of course, you won't ask—because that's just not done! Well, guess what—when you play against this chess computer, you can ask anything you want, and you'll get all the answers! In fact, you can obtain an incredible amount of information about the computer's thought process, and studying this information can help you learn so much more about the game!*

You may access game information at any time via Info Mode. As described below, you can call up this information manually by pressing **HINT/INFO**, or you can select Info Mode options to be displayed automatically, every time the computer is considering its next move.

Automatic Info Displays

Activating any or all of the following Info Mode options causes the computer to automatically display that information every time it thinks about its move—you can actually watch the computer “think out loud”!

Important:** Info Mode options selected for automatic display are only activated **while the computer is thinking!

Press **MENU** to enter the Main Menu, and press ▼ repeatedly until the display shows . Press **ENTER** to enter Info Mode, and you'll see the first of five options, as shown below. Pressing ▼ (or ▲) repeatedly cycles through these options, as follows:

- **Show Moves:** Shows the computer's predicted line of play, up to four individual moves. See Section 7.1.
Options: / / / / moves
- **Show Nodes:** Shows the number of nodes (positions) searched per second. See Section 7.2.
Options: off / on
- **Show Time per Move:** Shows the time used so far for the current move. See Section 7.3.
Options: move: off / on
- **Show Progress:** Shows the computer's search depth and the move currently being considered. See Section 7.4.
Options: off / on
- **Show Evaluation:** Shows the score for the current position. See Section 7.2.
Options: off / on

To turn an option on/off or to select option settings (if any), press **ENTER** when the option is displayed. Pressing **ENTER** repeatedly will cycle through all choices for the displayed option. When your desired choice is displayed, either press ▼ or ▲ to go on to a different option, or press **CLEAR** to go back to the Main Menu, and then **MENU** to return to normal game play. For full details on each of these options, see the referenced section numbers.

You may turn on any or all of the above Info Mode Options. If you activate more options than will fit in the display at one time, the display will scroll continuously while the computer considers its next move. If the display is scrolling too quickly, change the LCD Speed, as noted in Section 4.10. You can also press **GO/STOP** to pause the display, and then press **CLEAR** to resume the scrolling. Whenever requested information is not available, the display will show .

Manual Info Displays

Press **HINT/INFO** at any time, and the first move of the computer's predicted line of play will be shown (as described in Section 7.1). Game information is divided into several different groups, and pressing **HINT/INFO** repeatedly cycles from one group to another. The ▲ and ▼ keys can then be used to cycle through the displays within each group. Note that each of the groups is discussed in detail below. Press **CLEAR** to return to the normal clock display.

7.1 Principal Variation

When you first press **HINT/INFO**, you'll see the first move of the

principal variation (the computer's predicted line of play), displayed as in . A "ply" is an individual move, or a move for either side, and the computer's search depth is described in terms of the number of ply it looks ahead. On a two-ply search, for example, the computer will look ahead two individual moves (one move for Black and one for White). Note that this first ply display can also be used as a hint, since this is the move the computer is expecting you to make.

If you check this display while the computer is thinking, you'll see the move the computer is currently considering. If you check it during your turn, you'll see the move the computer is expecting you to make next. In either case, pressing ▲ repeatedly cycles through the rest of the moves in the predicted line of play, up to four ply:

- Predicted line of play: Move 1
- Predicted line of play: Move 2
- Predicted line of play: Move 3
- Predicted line of play: Move 4

7.2 Search Information

After pressing **HINT/INFO** to access Info Mode, press it again to see information about the computer's search. The initial display will show the current score; pressing ▲ repeatedly cycles through the rest of the information:

- The current score: A numerical evaluation of the current position, based on a pawn being worth 1.0 points; a positive number indicates that White is ahead. Example: If White is winning by two pawns, the display will show . Note that the score is not valid on the Problem Solving Levels.
- Two-part display: (a) The current search depth, or the number of individual moves the computer is looking ahead. For example: If the computer is looking ahead 439 individual moves, you'll see , with the  standing for depth. (b) The move being considered (if the computer is currently thinking).
- Two-part display: (a) The time used so far for the current move. (b) The number of nodes, or positions, being searched per second (if the computer is currently thinking).

7.3 Chess Clock Information

After pressing **HINT/INFO** to access Info Mode, press it two more times to see chess clock information. The display will show the total elapsed time for both sides. Notice that the chess clock symbol in the middle portrays the current side to move and the type of clock in use.

AN OUTLINE OF INFO MODE

PRINCIPAL VARIATION INFORMATION:

Hint/Info



= • Predicted line of play: Move 1



• Predicted line of play: Move 2

• Predicted line of play: Move 3

• Predicted line of play: Move 4

SEARCH INFORMATION:

Hint/Info



= • Position evaluation (score)



• Search depth; and
Move currently being considered
(if computer is thinking)

• Elapsed time for current move; and
Number of nodes searched per second
(if computer is thinking)

CHESS CLOCK INFORMATION:

Hint/Info



= • Elapsed time for both sides



• Remaining time for both sides*

**Speed Chess/Tournament Levels only*

MOVE COUNT INFORMATION:

Hint/Info



= • Current move number + last move made



• Backwards and forwards through moves
of current game

RATING INFORMATION:

Hint/Info



= • ELO rating (after a Tournament Level
game has been played)

Pressing **▲** will cycle through two displays, as shown below:

- Total **elapsed** time for White/Black (Countup Clock)
White to move , Black to move .
 - Total **remaining** time for White/Black (Countdown Clock: Problem Solving/Speed Chess Levels only)
White to move , Black to move .
- If the Countdown Clock is not currently activated, the second display will simply show a blank clock (.

The clocks will stop for various reasons during a game, such as if you take back a move, check level settings, select options, set up a position, or turn the computer off. The times are retained in memory, however, and the clocks resume as soon as play is continued. Whenever you change playing levels or reset the computer for a new game, the clocks are always set back to zero.

7.4 Move Count/Game Moves

After pressing **HINT/INFO** to access Info Mode, press it three more times to see the current move number and the last move made. You can then press **▼** to cycle back through the moves of your game, if desired, or press **▲** to go forward again at any point. This gives you an opportunity to go back and write down the moves of a game that turns out to be unexpectedly great!

- Current move number and last move made.
- Moves of the current game.

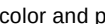
7.5 Rating Display

After pressing **HINT/INFO** to access Info Mode, press it four more times to see your current rating. Note that the ratings are based on Tournament Level play, as described in Section 5.3.

8. SETUP MODE: CHANGE THE BOARD!

Setup Mode allows you to set up special board positions to play from, or problems you would like the computer to solve!

Caution: *All moves in your current game will be erased if you make changes to the board position during a game.*

You may change or set up a board position whenever it's your turn to move. Press **MENU**, and press **▼** repeatedly until the display shows . Press **ENTER** to enter Setup Mode, and you'll see a display showing the color and piece symbols (.

- **To remove a piece from the board**, simply press on the piece and it will disappear from the board.
- **To move a piece from one square to another**, press on the piece, causing it to disappear. Then, press on the new square, and the piece will appear in that location.
- **To add a piece to the board**, first press directly on the displayed color and piece symbol for the piece you want to add, and then press the square where you'd like to add the piece. To add another piece of the same type and color, simply press down on another square. To add a different piece, press another piece and/or color symbol, and follow the same steps as above.
- **To clear the board**, press **CLEAR** while in Setup Mode. The display will ask for confirmation with **Clear board?**. Press **ENTER**, and the display will show **Cleared**. You can then add any number of pieces, as described above. If you decide you don't want to clear the board after all, simply press **CLEAR** again to cancel, and you'll see **Not cleared**. Note that this feature can be handy for setting up positions with only a few pieces, where it would be much easier to start out with an empty board!
- **Once you have changed the position as described above**, note that the color for the side to move is determined by the color of the last piece you set up. Change the color, if necessary, by pressing either  for Black or  for White.
- **To exit Setup Mode**, press **ENTER**. When the computer asks for confirmation with **New position?**, press **ENTER** to return to normal play with your new board setup. **New position?** confirms this. If you press **CLEAR**, the display will show **Same**, and you'll remain in Setup Mode.

Note that any legal board position can be set up using the above procedures. The computer will not permit you to set up an illegal position, such as one where there are more than the prescribed number of pieces for a normal game, or one where a King is in check and is not to move. In such cases, after you press **ENTER** to exit Setup Mode, and then **ENTER** to confirm, the computer will display **Illegal**. You will not be allowed to exit Setup Mode until you have set up a legal board position!

If you enter Setup Mode, but you haven't yet made any changes to the board, you can exit by pressing **ENTER**. The display will confirm with **Unchanged**, and you'll be returned to the Main Menu. Press **MENU** again to return to normal game play.

9. STUDY MODE: TRY TESTING YOURSELF!

Looking for a terrific learning tool? You'll definitely want to try out Study Mode! Eight famous games are built right into your computer, each containing eight critical points—for a total of 64 different Study Positions. It's up to you to play through the games and make the correct moves that were played for the winning side in the original games! This feature offers great potential for improving your chess knowledge, while allowing you to learn about making the best move in a particular position. And, to make this feature even more exciting, the computer will actually score your performance as you go.

By the way, if you need help solving any of the Study Positions, simply refer to the Appendix for a complete listing of all the Study Mode Games. Remember, though, that these games are included as a reference tool—and you'll only be cheating yourself if you look at the solutions before trying to solve the Study Positions on your own!

Selecting Study Positions

Tip: You can also select the Study Positions by pressing certain board squares, as described later on in this section!

Press **MENU** to enter the Main Menu, and press ▼ (or ▲) repeatedly until the display shows . Press **ENTER** to enter Study Mode, and you'll see the first Study Position, . To change the Study Position, press ▲ or ▼ to increase/decrease the studies by **one**, or use your stylus to press  or  to increase/decrease the studies by **eight**. When your desired Study Position is displayed, press **ENTER**, and the display will confirm with . Pressing **ENTER** at this point will start the Study Game, as described below, or pressing **CLEAR** will cancel and return you to the main Study Mode display.

After pressing **ENTER**, the computer will automatically start making the moves of the selected Study Game. As soon as the first Study Position is reached, the display will briefly show , and the clock will start. Time for you to guess the move that was played in that position in the original game! Here's how it works:

- There is only one “correct” move per Study Position.
- Once the Study Position has been reached, the displayed color symbol indicates which side is to move.
- **If you make the correct move**,  will be displayed. The computer will then make the next moves in the game,

USE THE BOARD TO SELECT STUDY POSITIONS!

For an easy method of selecting a Study Position, simply enter Study Mode and press one of the corresponding board squares, as shown below.

8	1-8	2-8	3-8	4-8	5-8	6-8	7-8	8-8
7	1-7	2-7	3-7	4-7	5-7	6-7	7-7	8-7
6	1-6	2-6	3-6	4-6	5-6	6-6	7-6	8-6
5	1-5	2-5	3-5	4-5	5-5	6-5	7-5	8-5
4	1-4	2-4	3-4	4-4	5-4	6-4	7-4	8-4
3	1-3	2-3	3-3	4-3	5-3	6-3	7-3	8-3
2	1-2	2-2	3-2	4-2	5-2	6-2	7-2	8-2
1	1-1	2-1	3-1	4-1	5-1	6-1	7-1	8-1
	a	b	c	d	e	f	g	h

eventually stopping at the next Study Position to be solved.

- If you make the wrong move, you'll see **Wrong Move** displayed briefly, and then **White Stale**.

- **To remain in Study Mode** and try another move, press **CLEAR**. Points will be deducted for the incorrect guess, your piece will go back to its original square, and you can make a different move.
- **To exit Study Mode** and continue a normal game using the move you played, press **ENTER**. The computer will start thinking about its next move.

- **Scoring:** Each time you solve a Study Position correctly, points are added to your score. You'll get full points if you solve the Study Position on the first try. For each incorrect move you make before finding the correct move, your score will be cut in half. If you reach zero points at any time, however, your score will remain there, no matter how many more moves you try.
- **To check your current score,** press **HINT/INFO** twice. Note that the first press will show the last move that was made for the other side. Pressing **CLEAR** will cancel the score display.

If you solve a Study Game ending in checkmate,  will remain in the display after a series of congratulatory messages. At this point, you can (a) reset for a new game, (b) use Info Mode to document the moves by tracing back through them (as described in Section 7.4), or (c) take back any of the moves and resume a normal game from any position. If you solve the last Study Position in a game, but the game has not actually ended, the display will show , and the computer will automatically start thinking about the next move, allowing you to continue the game normally.

Using the Board for Selection

Each Study Position can also be activated individually by pressing the corresponding board square. As shown in the Study Mode Chart, each of the 64 squares represents one Study Position. Enter Study Mode by pressing **MENU** and ▼ (or ▲) until  is displayed, and then pressing **ENTER**. Next, refer to the chart and press one of the board squares to select that Study Position. Press **ENTER**, and the display will confirm with . Press **ENTER** again, and the Study Game will start, as described previously.

10. NEED HELP? LOOK HERE!

For troubleshooting purposes, we've compiled the following list of situations you might encounter, along with some possible solutions.

- The computer doesn't react, behaves erratically, or "freezes" during a game.**
 - Reinsert the batteries, or replace them with fresh alkalines.
 - Static discharge may have caused a lock-up. Press into the hole marked **ACL** to reset the unit (see Section 11.1).
- The display is dim and/or difficult to read.**
 - Replace the batteries with fresh alkalines.
 - Select a different LCD Contrast Option (see Section 4.9).

- c. I've activated some automatic Info Displays to watch the computer think, but the display is scrolling too quickly.
- Select a different LCD Speed option (see Section 4.10).
 - Press **GO/STOP** to pause the scrolling display at any time; press **CLEAR** to resume scrolling.
- d. The computer won't make a move.
- The unit only responds automatically if Two Player Mode is set to **Player vs. Computer** for Player vs. Computer (see Section 4.1).
 - You might be on a level where the computer thinks for a long time. You can force it to move, if desired, by pressing **ENTER**.
- e. The computer won't accept my move.
- You're attempting to make an illegal move. Check the rules.
 - Is your King in check? Will your move put your King into check? Are you castling incorrectly? Review the position.
 - Is it your turn? If the color symbol is flashing, the computer is thinking. Press **ENTER** to interrupt, if desired.
- f. The board notation is reversed when I make moves. Why?
- You have the **White top** option activated. Go into Option Mode and change to **Black top** (see Section 4.4).
- g. I just reset for a new game, but the computer is showing **Game as draw** instead of resetting itself.
- You've interrupted a Tournament Level game, and you need to tell the computer how you want the game to be rated. For details, see Section 5.3.
- h. The computer has displayed its move, but its piece is flashing and the move hasn't been made on the board.
- When the Automove Option is turned off, you have to move the computer's pieces on the board. To turn Automove back on, refer to Section 4.11.
- i. The computer is displaying **No Move Found** instead of making a move.
- You're on a Problem Solving Level and the computer hasn't found a mate. If you're not trying to solve a mate problem, switch to a normal playing level (see Section 5).
- j. I'm trying to exit the Main Menu by pressing **CLEAR**, but I'm getting an error beep.
- You're pressing the wrong key! The only way to exit the Main Menu is by pressing **MENU**.
- k. The computer is beeping intermittently even though it's my turn to move.
- When Coach Mode is activated, the computer will sound

reminder beeps during your turn.

l. The computer isn't beeping when it moves.

- Go into Option Mode to turn the sound on (see Section 4.8).

m. The computer won't allow me to exit Setup Mode.

- You've set up an illegal position (e.g., a King may be in check, there may be too many pawns on the board, etc.). Change the board to set up a valid position (see Section 8).

11. TECHNICAL DETAILS

11.1 The ACL Function

Computers sometimes "lock up" due to static discharge or other electrical disturbances. If this should happen, use a pin or another sharp object to press into the hole marked **ACL** in the base of the unit for at least one second. This resets the computer.

11.2 Care and Maintenance

Your computer is a precision electronic device, and should not be subjected to rough handling or exposed to extreme temperatures or moisture. Do not use chemical agents or liquids to clean the unit, as they may damage the plastic. Be sure to remove the batteries before cleaning the unit.

Weak batteries should be replaced promptly, since they can leak and damage the computer. Please also note the following, regarding the use of batteries. *Caution: Use only alkaline or zinc carbon batteries. Do not mix different types of batteries or new and used batteries. Do not recharge non-rechargeable batteries. Use only recommended batteries or equivalent. Be sure to observe the correct polarity when inserting the batteries. Worn out batteries should be removed from the unit promptly. Do not short circuit the supply terminals.*

11.3 Technical Specifications

Keys: 8

Chessboard: 9x8 contact membrane (touch panel)

LCD Display: 11-character dot matrix, 68 x 79 mm

Batteries: 3 x AAA/AM4/R03

Dimensions: 131 x 83 x 22 mm

Weight: 220 grams

Please retain this information for future reference.

Saitek reserves the right to make technical changes without notice in the interest of progress.

Information for Customers in the United States:**FCC Compliance and Advisory Statement**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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.

Saitek Industries, 2295 Jefferson Street, Torrance, CA 90501, USA.

APPENDIX: STUDY MODE GAMES *(Section 9)***ANNEXE: PARTIES DU MODE ETUDE** *(Chapitre 9)***ANHANG: GESPEICHERTE PARTIEN** *(Abschnitt 9)***APPENDIX: GEANALYSEERDE PARTIJEN** *(Hoofdstuk 9)***APÉNDICE: JUEGOS DEL MODO DE ESTUDIO** *(Sección 9)***APPENDICE: GIOCO IN MODO STUDIO** *(Sezione 9)*

#1			#2		
1.	e2-e4	e7-e5	1.	e2-e4	e7-e5
2.	g1-f3	d7-d6	2.	g1-f3	b8-c6
3.	d2-d4	c8-g4	3.	f1-c4	f8-c5
4.	d4xe5!	 (1-1)	4.	c2-c3	g8-f6
	.....	g4xf3	5.	d2-d4	e5xd4
5.	d1xf3	d6xe5	6.	c3xd4	c5-b4+
6.	f1-c4	g8-f6	7.	b1-c3	d7-d5
7.	f3-b3!	 (1-2)	8.	e4xd5	f6xd5
	.....	d8-e7	9.	0-0	c8-e6
8.	b1-c3	c7-c6	10.	c1-g5	b4-e7
9.	c1-g5!	 (1-3)	11.	c4xd5	e6xd5
	.....	b7-b5	12.	c3xd5	d8xd5
10.	c3xb5!	 (1-4)	13.	g5xe7	c6xe7
	.....	c6xb5	14.	f1-e1	f7-f6
11.	c4xb5+	b8-d7	15.	d1-e2	d5-d7
12.	0-0-0	a8-d8	16.	a1-c1	c7-c6
13.	d1xd7!!	 (1-5)	17.	d4-d5!	 (2-1)
	.....	d8xd7		.....	c6xd5
14.	h1-d1	e7-e6	18.	f3-d4	e8-f7
15.	b5xd7+!	 (1-6)	19.	d4-e6	h8-c8
	.....	f6xd7	20.	e2-g4	g7-g6
16.	b3-b8+!	 (1-7)	21.	e6-g5+!	 (2-2)
	.....	d7xb8		.....	f7-e8
17.	d1-d8++	(1-8)	22.	e1xe7+!	 (2-3)
				.....	e8-f8
			23.	e7-f7+!	 (2-4)
				.....	f8-g8
			24.	f7-g7+!	 (2-5)

.....	g8-h8	
25.	g7xh7+!	(2-6)
26.	 h8-g8	
26.	h7-g7+ g8-h8	
27.	g4-h4+!	(2-7)
28.	 h8xg7	
28.	h4-h7 g7-f8	
29.	h7-h8+ f8-e7	
30.	h8-g7+ e7-e8	
31.	g7-g8+ e8-e7	
32.	g8-f7+ e7-d8	
33.	f7-f8+ d7-e8	
34.	g5-f7+!	(2-8)
35.	 d8-d7	
35.	f8-d6++	

#3

1.	d2-d4 d7-d5	
2.	g1-f3 e7-e6	
3.	e2-e3 c7-c5	
4.	c2-c4 b8-c6	
5.	b1-c3 g8-f6	
6.	d4xc5 f8xc5	
7.	a2-a3 a7-a6	
8.	b2-b4 c5-d6	
9.	c1-b2 0-0	
10.	d1-d2 d8-e7	
11.	f1-d3	
12.	 d5xc4 (3-1)	
13.	d3xc4 b7-b5	
14.	c4-d3 f8-d8	
15.	d2-e2 c8-b7	
15.	0-0	
16.	 c6-e5! (3-2)	
17.	f3xe5 d6xe5	
17.	f2-f4	

.....	e5-c7 (3-3)	
18.	e3-e4 a8-c8	
19.	e4-e5 c7-b6+	
20.	g1-h1	
21.	 f6-g4! (3-4)	
21.	d3-e4	
22.	 e7-h4 (3-5)	
22.	g2-g3	
23.	 c8xc3!! (3-6)	
23.	g3xh4	
24.	 d8-d2!! (3-7)	
24.	e2xd2 b7xe4+	
25.	d2-g2	
.....	c3-h3! (3-8)	

#4

1.	e2-e4 e7-e5	
2.	g1-f3 b8-c6	
3.	f1-b5 g8-f6	
4.	0-0	(4-1)
5.	 d7-d6	
5.	d2-d4 c8-d7	
6.	b1-c3 f8-e7	
7.	f1-e1 e5xd4	
8.	f3xd4 c6xd4	
9.	d1xd4 d7xb5	
10.	c3xb5 0-0	
11.	d4-c3!	(4-2)
12.	 c7-c6	
12.	b5-d4 f6-d7	
13.	d4-f5!	(4-3)
14.	 e7-f6	
14.	c3-g3!	(4-4)
.....	d7-e5	

15.	c1-f4	d8-c7	
16.	a1-d1	a8-d8	
17.	d1xd6!	.....	(4-5)
	.....	d8xd6	
18.	f4xe5	d6-d1	
19.	e1xd1	f6xe5	
20.	f5-h6+!	.....	(4-6)
	.....	g8-h8	
21.	g3xe5!	.....	(4-7)
	.....	c7xe5	
22.	h6xf7+	.....	(4-8)
#5			
1.	e2-e4	e7-e5	
2.	g1-f3	d7-d6	
3.	d2-d4	e5xd4	
4.	d1xd4	b8-c6	
5.	f1-b5	c8-d7	
6.	b5xc6	d7xc6	
7.	b1-c3	g8-f6	
8.	0-0	f8-e7	
9.	c3-d5	c6xd5	
10.	e4xd5	0-0	
11.	c1-g5	c7-c6	
12.	c2-c4!	.....	(5-1)
	.....	c6xd5	
13.	c4xd5	a7-a5	
14.	f1-e1	f8-e8	
15.	e1-e2	a8-c8	
16.	a1-e1	d8-d7	
17.	g5xf6	.....	(5-2)
	.....	e7xf6	
18.	d4-g4!!	.....	(5-3)
	.....	d7-b5	
19.	g4-c4!!	.....	(5-4)

.....	b5-d7	
20.	c4-c7!!	 (5-5)
	.....	d7-b5
21.	a2-a4!	 (5-6)
	.....	b5xa4
22.	e2-e4!	 (5-7)
	.....	a4-b5
23.	c7xb7	 (5-8)
#6		
1.	d2-d4	g8-f6
2.	c2-c4	g7-g6
3.	g2-g3	c7-c6
4.	f1-g2	d7-d5
5.	c4xd5	c6xd5
6.	b1-c3	f8-g7
7.	e2-e3	0-0
8.	g1-e2	b8-c6
9.	0-0	b7-b6
10.	b2-b3	.....
	.....	c8-a6! (6-1)
11.	c1-a3	.....
	.....	f8-e8! (6-2)
12.	d1-d2	.....
	.....	e7-e5! (6-3)
13.	d4xe5	c6xe5
14.	f1-d1	.....
	.....	e5-d3! (6-4)
15.	d2-c2	.....
	.....	d3xf2!! (6-5)
16.	g1xf2	f6-g4+
17.	f2-g1	g4xe3
18.	c2-d2	.....
	.....	e3xg2!! (6-6)

19.	g1xg2	.....	
	.....	d5-d4	(6-7)
20.	e2xd4	a6-b7+	
21.	g2-f1	.....	
	.....	d8-d7!!	(6-8)
#7			
1.	b2-b3	e7-e5	
2.	c1-b2	b8-c6	
3.	c2-c4	g8-f6	
4.	g1-f3	.....	
	.....	e5-e4!	(7-1)
5.	f3-d4	f8-c5	
6.	d4xc6	.....	
	.....	d7xc6!	(7-2)
7.	e2-e3	c8-f5	
8.	d1-c2	d8-e7	
9.	f1-e2	.....	
	.....	0-0-0	(7-3)
10.	f2-f4	.....	
	.....	f6-g4!	(7-4)
11.	g2-g3	.....	
	.....	h7-h5!	(7-5)
12.	h2-h3	.....	
	.....	h5-h4!	(7-6)
13.	h3xg4	h4xg3	
14.	h1-g1	.....	
	.....	h8-h1!!	(7-7)
15.	g1xh1	g3-g2	
16.	h1-f1	e7-h4+	
17.	e1-d1	g2xf1/Q+	
18.	e2xf1	.....	
	.....	f5xg4+	(7-8)
19.	d1-c1	h4-e1+	

20.	c2-d1	e1xd1++	
#8			
1.	d2-d4	d7-d5	
2.	c2-c4	e7-e6	
3.	b1-c3	g8-f6	
4.	g1-f3	c7-c5	
5.	c4xd5	f6xd5	
6.	e2-e3	b8-c6	
7.	f1-d3	f8-e7	
8.	0-0	0-0	
9.	c3xd5	d8xd5	
10.	e3-e4	d5-d8	
11.	d4xc5	e7xc5	
12.	e4-e5	c5-e7	
13.	d1-e2	c6-b4	
14.	d3-b1	.....	(8-1)
	.....	c8-d7	
15.	a2-a3!	.....	(8-2)
	.....	b4-d5	
16.	e2-e4	g7-g6	
17.	c1-h6	f8-e8	
18.	h2-h4!	.....	(8-3)
	.....	d8-b6	
19.	h4-h5!	.....	(8-4)
	.....	f7-f5	
20.	e5xf6 ep!		(8-5)
		d5xf6	
21.	e4-e1		(8-6)
		f6xh5	
22.	f3-e5	d7-b5	
23.	b1xg6!		(8-7)
		h5-f6	
24.	g6xh7+!		(8-8)

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5/F Lladró Centre
72 Hoi Yuen Road
Kwun Tong
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