TEXAS INSTRUMENTS
HOME COMPUTER

MOON MINE
ARCADE ENTERTAINMENT

SOLID STATE CARTRIDGE

This cartridge is designed to be used only with the Texas Instruments TI-99/4A Home Computer. Optional Solid State Speech™ Synthesizer must be attached to the computer to activate speech capabilities.

You are captain of the U.S.S. Recovery and your mission is to capture treasures stolen from Earth. Battle against the mighty Zygonaut and his menacing creatures to save the world's most valuable treasures!

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Quick Reference

Note that this Solid State Cartridge is designed to be used only with the Texas Instruments TI-99/4A Home Computer. Important keystroke sequences are summarized here for your quick reference.

Press	*Action*
← **(S),** → **(D)**	Moves the horizontal lasers left or right.
↑ **(E),** ↓ **(X)**	Moves the vertical lasers up or down.
Y, Q, V, or **.**	Fires the lasers.
P, T	Causes the game to pause.
FCTN 8 or **8** (REDO)	Begins a new game at the current level and saves your highest score (indicated by an asterisk (*) which appears next to the word "score").
FCTN 9 or **9** (BACK)	Begins a new game at level one and erases your score.
SPACE BAR	Permits exit and re-entry of crew members.
FCTN = (QUIT)	Returns to the master title screen.

Note: If the optional Wired Remote Controllers are used, move the lever to maneuver the vertical and horizontal lasers, and press the FIRE button to fire the lasers.

Moon Mine

This Solid State Cartridge is designed to be used only with the Texas Instruments TI-99/4A Home Computer. The optional *Solid State Speech*™ Synthesizer (sold separately) must be attached to the computer to activate the speech capabilities of the cartridge.

Designed by: Robert F. Hendren

Programmed by: John Phillips

Voices by: Aubrée Anderson
          Jose Fernandez
          Mary Margaret Shelkey

Book developed and written by: Staff members of Texas Instruments Instructional Communications.

Table of Contents

1. Introduction

The evil Zygonaut, legendary ruler of the moon's center, has raided the Earth and stolen all its precious treasures. The Zygonaut has hidden the treasures in a mine shaft deep in the center of the moon. As captain of the U.S.S. Recovery, you must pass through the mine shaft to reach the center of the moon and retrieve the Earth's treasures.

Ten horrible creatures appear on the screen to fight for the stolen treasures. But beware — the black ones are deadly! If a black monster strikes the U.S.S. Recovery, one of your crew members can be lost and your vehicle severely damaged. The other creatures are Zygonaut scouts and bypass your ship if they are not destroyed. Use your four lasers to conquer the Zygonaut's creatures before they destroy your ship!

The Moon Mine Solid State Cartridge offers an adventurous space journey loaded with danger and thrills! Moon Mine's features include:

●   exciting attacks from ten devastating creatures;

●   increased difficulty levels that provide a continuous challenge;

●   synthesized speech in English and Spanish that provides continuous feedback;

●   suspenseful attempts to replenish water supplies;

●   challenging attempts to retrieve stolen treasures.

Moon Mine can be played by one or several players to test skills in strategic planning and quick thinking. Movement of the lasers may be controlled by the arrow keys on the computer keyboard or by the Wired Remote Controllers.

Moon Mine is designed to work with or without the Texas Instruments *Solid State Speech*™ Synthesizer (sold separately). However, the Speech Synthesizer must be attached to activate the voice of the computer.
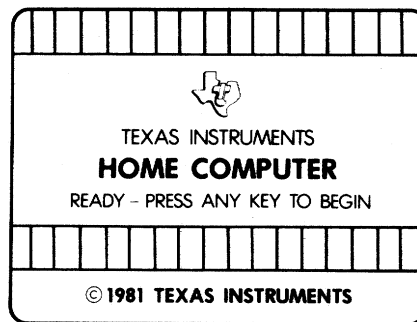
2. Using the Solid State Cartridge

Inserting a cartridge is easy. If you have any problem inserting the cartridge, or if it is accidentally removed from the slot while in use, please see "In Case of Difficulty" on page 6.

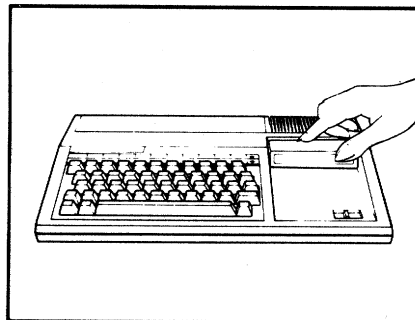### 2.1. Inserting the Cartridge

An automatic reset feature is built into the computer. When a cartridge is inserted into the console, the computer returns to the master title screen. All data or program material you have entered is erased.

Note: Be sure the cartridge is free of static electricity before inserting it into the computer (see page 6).

1.   Turn the computer ON, and wait for the master title screen to appear.

2.   Then, slide the cartridge into the slot on the console.

3.   Press any key to make the master selection list appear. Then, press the appropriate number key for your selection.

2.2. Removing the Cartridge

1. To remove the cartridge at the end of play, press **QUIT** to return to the master title screen.

2. Then, remove the cartridge from the slot.

3. Getting Started

After you select a language version of Moon Mine by pressing the corresponding number, the title screen appears. When the message "PRESS ANY KEY TO BEGIN" appears on the screen, press any key to start the game.

Next, the screen displays the U.S.S. Recovery moving down the mine shaft which was left behind by the Zygonaut. When this screen appears, the game is underway. You begin the game with a total of five loyal crew members.

Located directly beneath the mine shaft scene is the vehicle console on which status gauges are located. The temperature gauge is represented by a red color bar, and your water level is represented by a cyan color bar. The number of crew members, the level of play, and a record of your highest score are also included on the bottom of the screen.

3.1. Controlling Your Lasers

Red cones on four sides of the screen represent the four lasers. To control your vertical lasers, use the ← **S** and → **D** arrow keys. The vertical lasers have limited mobility and an unlimited firing range. Press either the **Q**, **Y**, **V**, or (**.**) key to fire the lasers. To control your horizontal lasers, use the ↑ **E** and the ↓ **X** arrow keys. The horizontal lasers have unlimited mobility and a limited firing range.

The lasers are water cooled devices. Thus, it is necessary to replenish your water supply periodically. To replenish your water supply, you must retrieve pools of water that occasionally appear on the shaft floor. When the message "WATER AHEAD" appears on the screen, you must eject one of your crew members into the mine shaft to retrieve the water for cooling your lasers. The crew member is equipped with a handheld laser which can fire only twelve shots against the menacing monsters. To eject a crew member into the shaft, press the **SPACE BAR**. Then, position your crew member directly on top of the pool of water and press the FIRE key. If the water is retrieved, your crew member changes to the color blue. If the water is recovered successfully and all monsters are destroyed, you may return your crew member to the U.S.S. Recovery by pressing the **SPACE BAR**.

If you are using the Wired Remote Controllers, move the lever right or left to maneuver the lasers horizontally on the screen, and move the lever forward (toward the FIRE button) or backward (away from the FIRE button) to maneuver the lasers vertically on the screen. Press the FIRE button to activate the lasers.

4. Playing the Game

When the game screen appears, the Zygonaut's evil creatures have already begun their attack on the U.S.S. Recovery. Ten different creatures appear which you must disintegrate with your lasers.

Carefully aim either the vertical or horizontal lasers at a monster and press the FIRE button. Do not overheat your lasers by holding down the FIRE button for long periods of time. If you do overheat your lasers, the U.S.S. Recovery is damaged and a crew member is lost.

As you destroy the horrible creatures, the Zygonaut sends more monsters to join in the battle. They are faster and can withstand several laser hits before they are destroyed. Also, as you travel deeper into the moon's center, your lasers overheat more easily, and your water supply is depleted more rapidly.

Points are awarded based upon the size of a creature when it is destroyed. Each monster appears on the screen as a small dot and increases eight times in size while getting closer to the U.S.S. Recovery. You receive the highest amount of points when you hit a creature as it first appears on the screen.

4.1. Recovering Treasures

To recover the Earth's stolen treasures, you must send a crew member into the mine shaft to retrieve the valuables. The stolen treasures include silver, jade, and amethyst. When the message "DETECTING UNKNOWN OBJECT" appears on the screen, the U.S.S. Recovery is approaching one of the treasures and it is now accessible.

To eject a crew member into the mine shaft, press the **SPACE BAR**. Use the arrow keys to maneuver your man directly above a treasure. Then, press the FIRE key to retrieve the treasure. If you capture a treasure, your crew member changes to the color of the treasure (your crew member can only return to the U.S.S. Recovery if the treasure is recovered). To bring your crew member back to the spaceship, press the **SPACE BAR** again.

4.2. Stopping the Game

If you wish to stop the action at any time, press either the **P** or **T** keys to pause. The screen action stops until you are ready to resume play. Press any key (other than the **P** or **T** keys) to continue the game.

4.3. Advancing to Different Levels

There are sixty levels of difficulty in Moon Mine. A different screen color represents moving to a higher level of game play. In easy levels (levels 1-20), creatures are destroyed after one laser hit. In intermediate levels (levels 21-40), monsters are destroyed after two laser hits. In advanced levels (levels 41-60), creatures are destroyed after three laser hits.

5. Special Features

5.1. Scoring

Points for hitting monsters are based upon their size when destroyed. The point values, from highest to lowest, are 100, 90, 80, 70, 60, 50, 40, and 30. If you destroy a creature when it first appears on the screen, you receive 100 points. If you hit a creature when it is at its largest size, you receive 30 points.

You are awarded an extra crew member when you reach 5,000 points, and thereafter, you receive one extra crew member every 10,000 points.

Note: Only five crew members can be seen on the screen at one time.

5.2. Bonus Points

You earn 2,000 points for retrieving a pool of water and returning safely to the U.S.S. Recovery. Capturing stolen treasures, such as silver, jade, and amethyst earns you 1,000 points.

Advancing to new levels automatically gives you 1,00() points.

Monsters   **Treasures**   **Water**

Papillon   Silver

Zip Zap Bat   Jade

Moon Demon   Amethyst

Skullman

Moon Ghost

Pegasus

Triped

Two-Headed Hydra

Robynth

Moon Crab

6. Maintenance and Service

6.1. Caring for the Cartridge

These cartridges are durable devices, but they should be handled with the same care you would give any other piece of electronic equipment. Keep the cartridge clean and dry, and do not touch the recessed contacts.

CAUTION:
The contents of the Solid State
Cartridge can be damaged by static
electricity discharges.

Static electricity build-ups are more likely to occur when the natural humidity of the air is low (during winter or in areas with dry climates) To avoid damaging the cartridge, just touch any metal object (a doorknob, a desk lamp, etc.) before handling the cartridge.

If static electricity is a problem where you live, you may want to buy a special carpet treatment that reduces static build-up. These commercial preparations are usually available from local hardware and office supply stores.

6.2. In Case of Difficulty

If the cartridge activities do not appear to be operating properly, return to the master title screen by pressing **QUIT**. Withdraw the cartridge, align it with the cartridge opening, and reinsert it carefully. Then press any key to make the master selection list appear. (*Note*: In some instances, it may be necessary to turn the computer off, wait several seconds, and then turn it on again.)

If the cartridge is accidentally removed from the slot while the cartridge contents are being used, the computer may behave erratically. To restore the computer to normal operation, turn the computer console off, and wait a few seconds. Then reinsert the cartridge and turn the computer on again.

If you have any difficulty with your computer or cartridge, contact the dealer from whom you purchased the unit and/or cartridge for service directions.

Additional information concerning use and service can be found in your *User's Reference Guide*.

7. Three-Month Limited Warranty Home Computer Software Cartridge

Texas Instruments Incorporated extends this consumer warranty only to the original consumer purchaser.

7.1. Warranty Coverage

This warranty covers the electronic and case components of the software cartridge. These components include all semiconductor chips and devices, plastics, boards, wiring and all other hardware contained in this cartridge ("the Hardware"). This limited warranty does not extend to the programs contained in the software cartridge and in the accompanying book materials ("the Programs ").

The Hardware is warranted against malfunction due to defective materials or construction. **This warranty is void if the Hardware has been damaged by accident, unreasonable use, neglect, improper service or other causes not arising out of defects in materials or workmanship.**

7.2. Warranty Duration

The Hardware is warranted for a period of three months from the date of the original purchase by the consumer.

7.3. Warranty Disclaimers

Any implied warranties arising out of this sale, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the above three-month period. Texas Instruments shall not be liable for loss of use of the Hardware or other incidental or consequential costs, expenses, or damages incurred by the consumer or any other user.

Some states do not allow the exclusion or limitation of implied warranties or consequential damages, so the above limitations or exclusions may not apply to you in those states.

7.4. Legal Remedies

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

7.5. Performance by TI Under Warranty

During the above three-month warranty period, defective Hardware will be replaced when it is returned postage prepaid to a Texas Instruments Service Facility listed below. The replacement Hardware will be warranted for three months from date of replacement. Other than the postage requirement, no charge will be made for replacement.

TI strongly recommends that you insure the Hardware for value prior to mailing.

8. Texas Instruments Consumer Service Facilities

U.S. Residents:

Texas Instruments Service Facility
P.(). Box 2500
Lubbock, Texas 79408

Canadian Residents:

Texas Instruments Consumer Service
41 Shelley Road
Richmond Hill, Ontario, Canada
L4C 5G4

Consumers in California and Oregon may contact the following Texas Instruments offices for additional assistance or information.

Texas Instruments Consumer Service
831 South Douglas Street
El Segundo, California 90245
(213) 973-1803

Texas Instruments Consumer Service
6700 Southwest 105th
Kristin Square, Suite 110
Beaverton, Oregon 97005
(503) 643-6758

8.1. Important Notice of Disclaimer Regarding the Programs

The following should be read and understood before purchasing and/or using the software cartridge.

TI does not warrant that the Programs will be free from error or will meet the specific requirements of the consumer. The consumer assumes complete responsibility for any decision made or actions taken based on information obtained using the Programs. Any statements made concerning the utility of the Programs are not to be construed as express or implied warranties.

Texas Instruments makes no warranty, either express or implied, including but not limited to any implied warranties of merchantability and fitness for a particular purpose, regarding the programs and makes all programs available solely on an "as is" basis. In no event shall Texas Instruments be liable to anyone for special, collateral, incidental, or consequential damages in connection with or arising out of the purchase or use of the programs and the sole and exclusive liability of Texas Instruments, regardless of the form of action, shall not exceed the purchase price of the software cartridge. Moreover, Texas Instruments shall not be liable for any claim of any kind whatsoever by any other party against the user of the programs.

Some states do not allow the exclusion or limitation of implied warranties or consequential damages so the above limitations or exclusions may not apply to you in those states.

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TEXAS INSTRUMENTS
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Statement of File Origin

This file was created for users of PC99, a TI-99/4A emulator running on an IBM PC.

If you find an error, we will attempt to correct it and provide you with an updated file. You can contact us at:

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