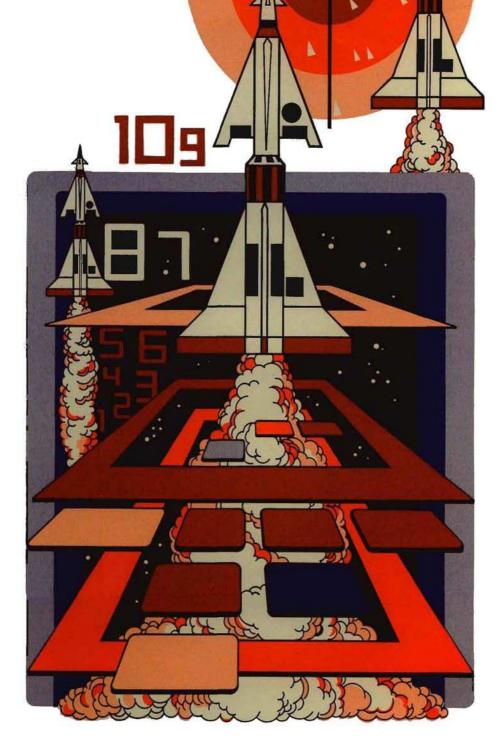
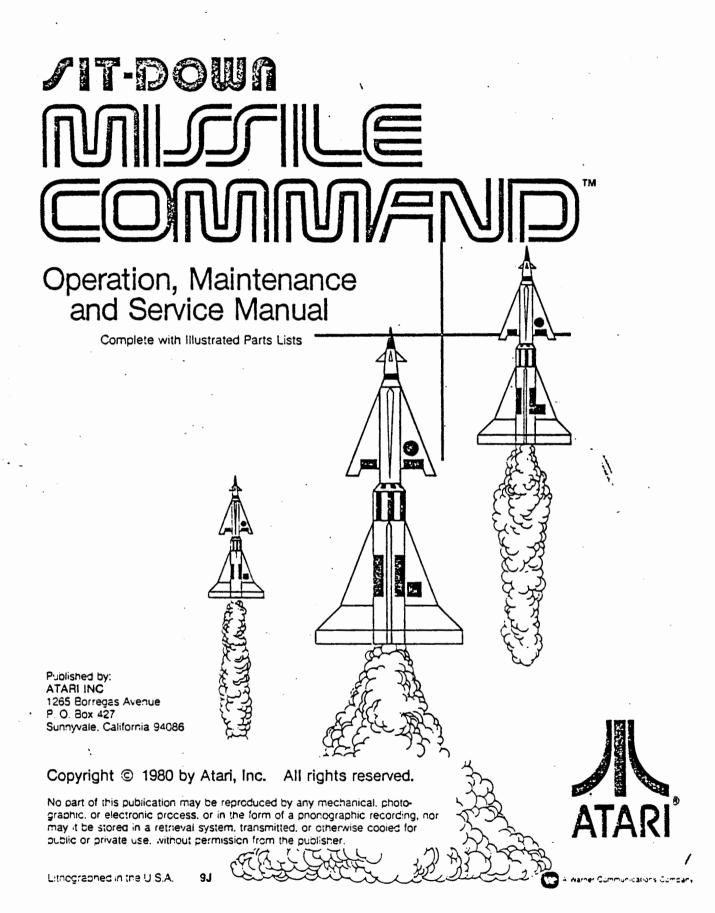


Operation, Maintenance and Service Manual

Complete with Illustrated Parts Lists





GAME SERIAL NUMBER LOCATION

Your game's serial number is stamped on a plate on the outside of the game. The same number is also stamped on the chassis of the TV monitor, Regulator/Audio II PCB, and Game PCB. Please mention this number whenever calling your distributor for service.

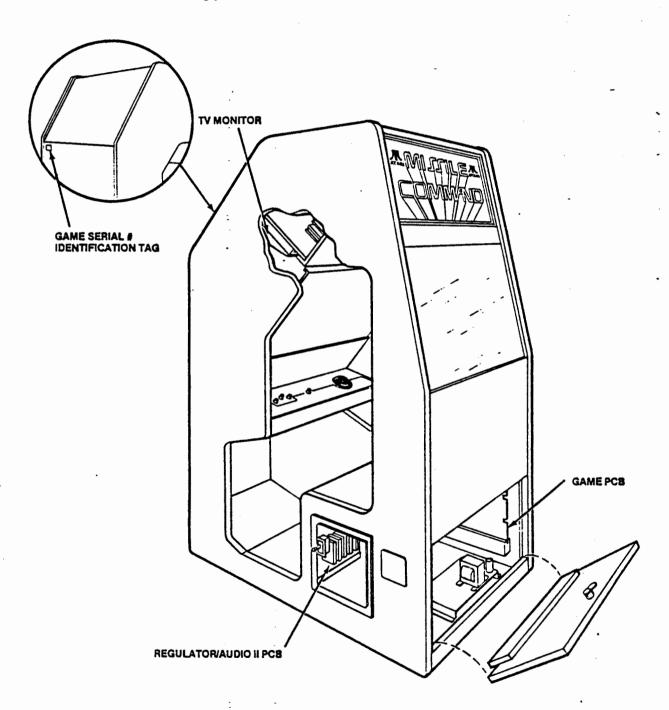


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NOTE -

If reading through this manual does not lead to solving a certain maintenance problem, call Tele-Help $^{\mathsf{TM}}$ at the Atari Customer Service office in your geographical area, as shown in one of the two maps below. Order all parts from the California office.

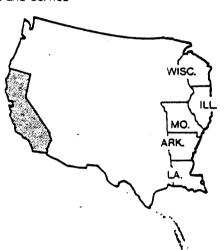
WEST and CENTRAL U.S.A.

Parts for all Atari Customers, Sales and Service

Atari Coin-Op Customer Service 1344 Bordeaux Drive, Sunnyvale, CA 94086 Telex 17-1103

(Monday - Friday, 7:30 - 4:00 pm Pacific Time)

- From California, Alaska or Hawaii (408) 745-2900
- From anywhere else in this area toll-free (800) 538-1611



EAST U.S.A.

Sales and Service Cnly

Atari Inc.

New Jersey Customer Service Office Cottontail Lane, Somerset, NJ 08873 Telex 37-9347

(Monday - Friday, 7:30 - 4:00 pm Eastern time)

- From New Jersey (201) 469-5993
- From anywhere else in this area toll-free (800) 526-3849



Notice Regarding Non-Atari Parts

▲ WARNING — ▲

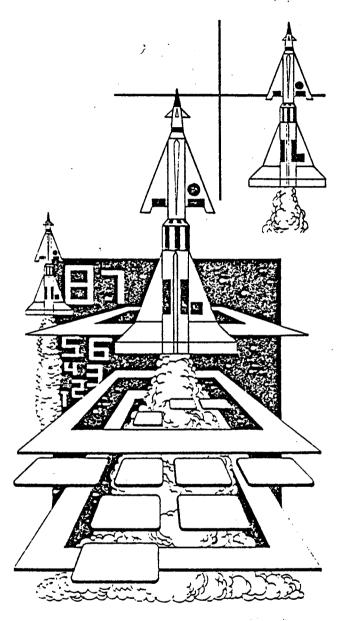
Use of non-Atari parts or modifications of your Atari game circuitry may adversely affect the safety of your game, and may cause injury to you and your players.

Atari, Inc.'s warranty (printed on the inside back cover of this manual) may be voided, if you do any of the following:

- 1.) you substitute non-Atari parts in your coin-operated game, or
- 2.) you modify or alter any circuits in your Atari game by using kits or parts not supplied by Atari.

Not only may the use of any non-Atari parts void your warranty, but any such alteration may also adversely affect the safety of your game, and may cause injury to you and your players.

Location Setup



A. New Parts

The Sit-Down Missile Command[™] game has three new parts. If you have worked on Atari games in the past, then you should be aware of these important differences. The new parts are:

- Color TV Monitor. Made especially to Atari specifications by Electrohome, Ltd., the 25-inch monitor has been color-converged at the factory. All convergence adjustments are cemented and locked in place, to prevent accidental changes. Important Note: The monitor's horizontal-yoke connectors have been reversed, to provide proper screen orientation in this sit-down cabinet.
- Power Supply Assembly. It covers a wider voltage range than before, has higher reliability, a smaller overall size, and all fuse numbers and fuse amperages are marked directly on the metal chassis.
- Sit-Down Cabinet. This new cabinet provides an almost complete environment for the player. The large 25-inch monitor screen and halfsilvered mirror create an illusion of great cabinet depth. In addition, a large speaker directly above the player's head projects the exciting audio. Potential players standing behind the game can view the missile attacks over the player's shoulders, by looking thru the windows in the cabinet.

AWARNING - SHOCK HAZARD A

This game is designed to be connected only to a grounded 3-wire outlet. If you have only a 2-wire outlet, we recommend you hire a licensed electrician to install a grounded outlet. Players may receive an electric shock if this game is not properly grounded!



Sit-Down Missile Command IM

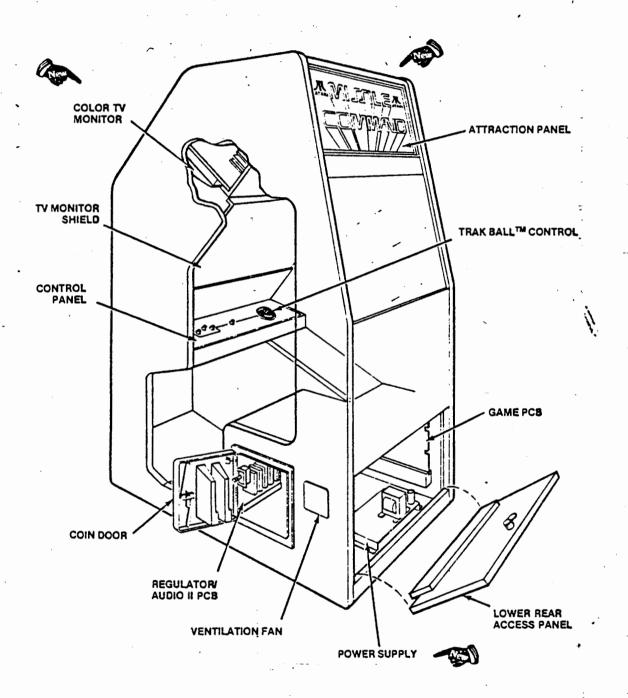
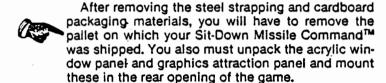


Figure 1 Overview of Game

These new parts, as well as all other major parts in the game, are illustrated in Figure 1. Throughout this manual, wherever one of these new parts is mentioned, you will see this symbol:

ACT

B. Unpacking and Setup



Setup involves inserting the four cabinet-leveling legs into the base. While you are inserting the legs into the base, be aware that this game weighs about 580 pounds! In addition, you may choose to route the AC power cord through the base, if you want to have the game free-standing.

1. Removing Pallet and Attaching Legs

First, bring the game as close as possible to its final location. Now use a wrench and locate the four bolts that secure the pallet to the game's base (these are near the four corners). You must reach in between the two layers of the pallet to loosen the bolts and remove them. Lift game from pallet.

Second, remove the four cabinet-leveling legs from the coin box. Have an assistant tilt the game slightly to one side, and screw two legs into the T-Nuts provided at the base. Tilt the game in the other direction and repeat for the remaining two legs.

2. Installing Acrylic Panels

Remove the package of two acrylic panels and envelope of screws that are taped to the control panel and seat. Peel off the protective paper backing on the smoke-color window panel. Place this panel in the lower half of the game's rear opening.

Using an Allen wrench, remove the three screws that secure the black metal retainer strip at the top rear of the game. Place the bottom edge of the graphics attraction panel in the slot behind the wood retainer strip. Secure the top edge of this panel with the metal retainer strip and its three Allen-head screws. In addition, use the two screws

in the envelope for securing the left and right edges of this panel (it has pre-drilled holes).

3. Rerouting Power Cord

Now decide if you want to place the game against a wall or have it free-standing. If you choose a location against a wall, push the game so its front end (where the power cord exits) is near the wall. If you have an arcade with a floor-mounted power outlet and want the game free-standing, reroute the power cord through the base as follows.

Unlock and open the rear access panel. Remove the small 2½-inch-square cover plate secured to the base of the cabinet. Open the control panel (see Figure 8) and remove the power cord plate inside the front cabinet wall. Do not disassemble the cord from this plate.

Pull the cord inside the game and route it through the large hole near the console, down to the area underneath the seat. Push the plug through the hole in the base, and secure the power cord plate to the cabinet base. You will have excess cord, but you can easily store it inside the game.

Reattach the small cover plate to the inside of the front cabinet wall. Close both the control panel and the rear access panel.

C. Game Inspection

This new game is ready to play upon removal from the shipping carton. However, your careful inspection is needed to supply the final touch of quality control. Please follow these steps to help us insure that your new game was delivered to you in good condition.

Do not plug the game in yet!

- Examine the exterior of the game cabinet for dents, chips, or broken parts.
- Unlock and open the two access panels of the cabinet and inspect the interior of the game as follows:

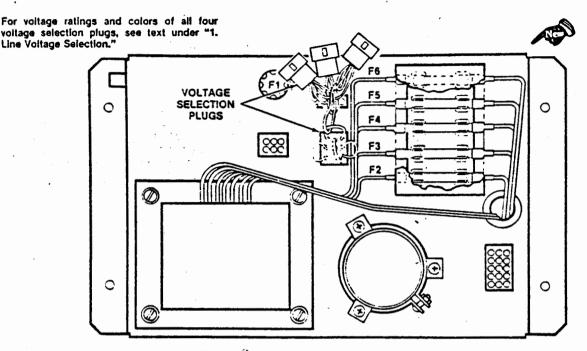


Figure 3 Line Voltage Selection

 Check that all plug-in connectors (on the game harness) are firmly seated. Replug any connectors found unplugged. DON'T FORCE CONNECTORS TOGETHER. The connectors are keyed so they only go on in the proper orientation. A reversed edge connector will damage a PCB.

△— WARNING -

To avoid possible unpleasant electrical shock, do not touch internal parts of the TV monitor with your hands or metal objects held in your hands!

- Check that all plug-in integrated circuits on the game PCB are firmly seated in their sockets.
- Note the location of the game's serial number—it is printed on the special label on the outside of the game cabinet. Verify that the serial numbers also stamped on the Game PCB, Regulator/Audio II PCB and TV Monitor are all identical. A drawing of the serial number locations is on the inside front cover of this manual. Please mention this number whenever you call your distributor for service.
- Check all major assemblies such as the power supply, control panel and TV moni-

tor for secure mounting. For the safety of players, be certain that all green ground wires are secured at their terminations.

D. Game Installation

Figure 2 Installation Requirements

Power Temperature Humidity Space Required Game Height

Approximately 289 watts 0 to 38° C (32 to 100°F) Not over 95% relative 75 x 118½ cm (29½ x 46½ in.)

198 cm (78 in.)

1. Line Voltage Selection

Before plugging in your game, make sure that the voltage selection plug on the power supply (see Figure 3) is correct for your location's line voltage. Check the wire color on the plug and see if it is correct per the list below.

Line Voltage Range Voltage Selection Plug Color

.90-110 VAC (100) Violet 105-135 VAC (120) Yellow 200-240 VAC (225) Blue 220-260 VAC (240) Brown

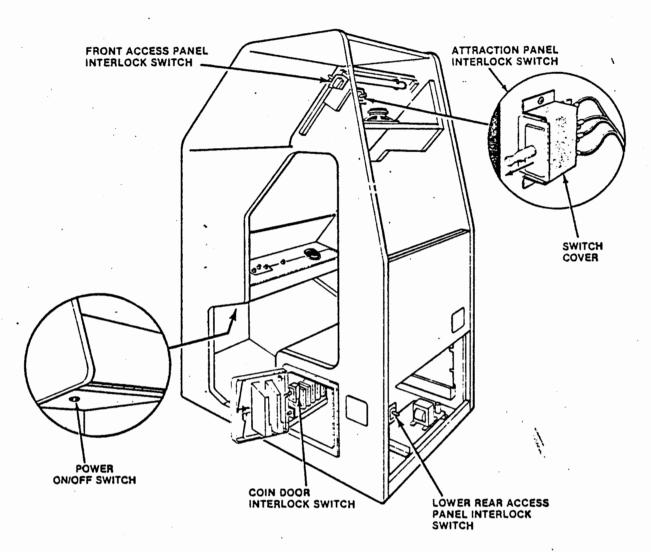


Figure 4 Interlock and Power On/Off Switches

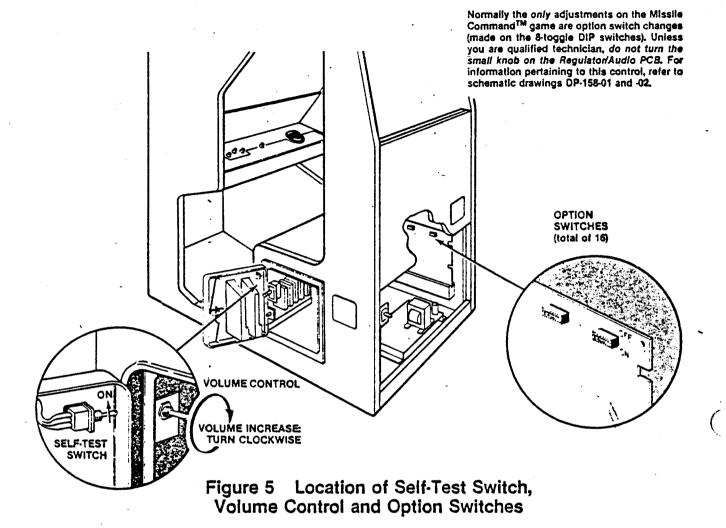
Interlock and Power On/Off Switches

To minimize the hazard of electrical shock while working on the inside of the game cabinet, four interlock switches have been installed (see Figure 4). One is located behind each of the two access panels, one is behind the acrylic attraction panel, and the fourth one is behind the coin door. These switches remove all AC line power from the game circuitry when any door or panel is opened.

Check for proper operation of the interlock switches by performing the following steps:

- Plug the AC line power cord into an AC outlet.
- Make sure to close the access panels and the coin door.

- Set the power on/off switch to the on position.
 Within approximately 30 seconds the TV monitor should display a picture.
- Slowly open the lower rear access panel. The TV monitor picture should disappear when the panel is opened approximately 2.5 cm (1 inch). Close and lock the lower rear access panel and repeat this step with the other access panel, acrylic attraction panel and the coin door.
- If the results of the previous step are satisfactory, the interlock switches are operating properly. If the TV monitor doesn't go off as described, check to see if the corresponding interlock switch is broken from its mounting or stuck in the on position.



E. Self-Test Procedure

This game will test itself and provide data to demonstrate that the game's circuitry and controls are operating properly. The data is provided on the TV monitor and the game speaker, no additional equipment is necessary.

Part of the self-test procedure includes a display of the operator-selectable game options. Therefore, we suggest you run the self-test procedure anytime you need to change the game's options.

To run the self-test, follow the instructions outlined in Figure 6.

F. Option Switch Settings

1. Bonus Play Feature

Missile Command[™] is the first Atari game to offer a bonus play for every \$1.00 worth of coins inserted. This bonus feature is operator-selectable, meaning you may choose to offer it or not.

With your game set at 50¢ per play and the bonus option on, players who deposit four successive quarters or a \$1.00 coin, then press the start button, will receive a bonus play. Therefore, players receive 3 plays for \$1.00.

This bonus feature encourages players to insert / more money than just the minimum 50¢ required for one game.

Figure 6 Self-Test Procedure

Instruction

Result if Test Passes

' Result if Test Fails

 Set self-test switch to on position (see Figure 5). Note: entering self-test will set the HIGH SCORE TODAY display to 7500. After about 5 seconds of frozen attract mode, a low raspy tone is followed by a low beep, then high beep. TV monitor screen displays picture as shown below:

ROM OK MAP OK RAM OK

...plus the options display—see Figure 7 for explanation. Both LED start buttons will also be lighted.

A continuous raspy tone means V BLANK is malfunctioning. Self-test will not continue.

A RAM failure is indicated by a blank or "garbage"-filled screen and a repeated series of 8 beeps, separated by a low raspy tone. See note 1 below. Self-test will not restart.

ROM failure is indicated by BAD ROM; see note 2 below.

BAD MAP means bit-mapping hardware has failed.

BAD CHIP means custom audio I/O chip at location P8/9 has failed.

2. Roll the Trak Ball control in all directions.

The + moves around on the screen in directions corresponding to Trak Ball control—up to an invisible border along the screen's edges.

The + doesn't move in same direction as ball, or not at all. One of the Steering PCBs on Trak Ball control may be bad, harness wires or connector may be loose, Trak Ball reading circuitry on Game PCB may be bad, or Trak Ball bearings may need oiling.

- 3. Press the following switches:
- Coin switch trip wires
- Coin door slam switch
- All three fire switches
- Player start button

A sound is heard as each switch is pressed. The background color also changes.

No sound or color changes are produced when pressing one of these switches: indicates a bad switch, loose harness wires, or loose connector?

4. Set self-test switch to off position.

Note 1: In test no. 1, a low beep means a good chip; a high beep is a bad RAM, as follows:

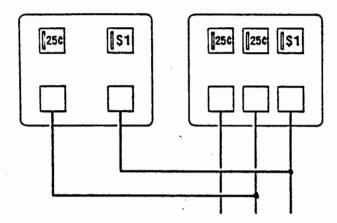
•	•
High beep in series of 8 tones:	Bad chip at location
1st	P4
2nd	N4
3rd	M4
4th	L4
5th	K4
6th	J4
7th	H4
8th	F4

Note 2: BAD ROM plus some or all of the digits 1 thru 6 are displayed. These numbers show which 2K of memory are bad. For example, 1 means the first 2K are bad. The + may not appear.

2. Coin Mechanism Multipliers

Since early in 1980, Atari has made available its new coin door which has either two or three mechanisms. All recent Atari game PCBs identify the different mechanisms in a certain pattern.

The right coin mechs are all the same to the game's logic, regardless of whether you have two or three mechs in your door. In addition, the logic sees the left mech in a 2-mech door and the center mech in a 3-mech door as the same. Refer to the diagram below.



This pattern is important for you to know, so you can correctly set the "multipliers" for each mech. The multipliers determine how much each mechanism will be worth to the game's logic.

The basic unit of measurement is 25¢, which equals a multiplier of \times 1. Therefore, if you have a 25¢/25¢/\$1 coin door, you will probably want to set the center and right option-switch multipliers at \times 1/ \times 4. (The left mech in a 3-mech door always has a value of \times 1—you cannot change its value.)

You can set these multipliers with toggles 3 thru 5 on the Missile Command PCB switch assembly at location R10. For exact settings of these toggles, refer to Figure 7 on the next page.

3. Examples of Option Switch Settings

To explain the options, we have provided below four examples of the most common U.S. situations. The toggles mentioned below only relate to game price, coin mechanism multipliers, and the bonus credit for 4 successive quarters or the \$1.00 coin. You should set the toggles relating to other functions as you see fit, although Figure 7 provides "\$" signs indicating Atari's recommendations.

For the first and second examples, we will assume your door (either 2 or 3 mechanisms) has only 25¢ slots:

If you want 50¢ (2 coins) for 1 play, and \$1.00 for 3 plays:

If you want 50¢ (2 coins) for 1 play, and no bonus credit:

For the third and fourth examples, we will assume your door (either 2 or 3 mechanisms) has a 25¢ mechanism at left and center, and \$1.00 mechanism at right:

If you want 50¢ (2 coins) for 1 play, and \$1.00 for 3 plays:

At R10, set toggles—
5 4 3 2 1
on on off on off
At R8, set toggle 3 off.

If you want 50° (2 coins) for 1 play, and no bonus credit:

At R10, set toggles—
5 4 3 2 1
on on off on off
At R8, set toggle 3 on.

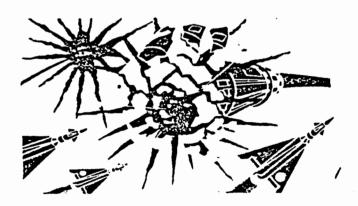


Figure 7 Option Switch Settings

To change toggle positions on the switch assemblles, you need not remove the game PCB. The switches, usually colored blue, are easily accessible when the game PCB is mounted in place.

When changing the options, verify proper results on the TV monitor display by performing the self-test. Note that changing an option on any toggle will cause an immediate change on the TV monitor screen during the self-test.

8	. 7	6	5	4	3	2	1	. Option
						On	On	1 coin* for 1 play
						Off	On	Free play
_						On	Off	2 coins° for 1 play \$
Used				•		Off	Off	1 coin* for 2 plays
ž				On	On			Right coin mech x 1 \$
=				On	Off			Right coin mech × 4
No.				Off	On			Right coin mech x 5
•				Off	Off			Right coin mech × 6
:			0-	•	U			
			On Off					Center coin mech × 1 \$ (Center mech is a left Center coin mech × 2 mech in a 2-mech door
	On	On						English language
	On	Off						French language
	Off	On						German language
	Off	Off						Spanish language
					÷			•
	Toggle Se				Game PC	B (at R8)		
	7	(LEFT s)	witch whe	n PCB is	in gam e) 3	2	1	Option
						Off	Off	Game starts with 7 cities
						On	On	Game starts with 6 cities \$
						Off.	On	Game starts with 5 citles
						On	Off	Game starts with 4 cities
					☆ On			No bonus credit
					⇒ Off			1 bonus credit for 4 successive quarters or a \$1
					O			coin \$
				Off				
7				Oli				Large Trak Ball input (switch must be off for proper operation of Sit-Down Missile Command game) \$
Used								•
	Off	Off	On					Bonus city every 8,000 points
Š	On	On	On					Bonus city every 10,000 points \$
_	On	On	Off					Bonus city every 12,000 points
	On	Off	On					Bonus city every 14,000 points
	On	Off	Off					Bonus city every 15,000 points
	Off	On	On					Bonus city every 18,000 points
	Off	On	Off					Bonus city every 20,000 points
	Off	Off	Off					No bonus city
		all tart at	anlay is -	- follows:			A =	
		elf-test di		•		-141-		ample of an actual option switch display is as follows:
ius cit; is en)	y every	point	s (line dis	appears if	no bonus	city is		JS CITY EVERY 10,000 POINTS
		,	+				2 COI	NS 1 PLAY
	etting						6 CITI	

A is the center mech multiplier for 3-mech doors, left mech multiplier if a 2-mech door. This number is either 1 or 2. B is the right coin mech multiplier and is 1, 4, 5, or 6. C is an "F" if switch 4 (of R8) is off. D is an "X" if switch 3 (of R8) is off.

^{*} In the U.S., a "coin" is defined as 25°. If your game also has a \$1 mechanism, you must set the right coin mechanism multiplier as per your choice.

^{\$} Manufacturer's suggested settings

 $[\]boldsymbol{\Xi}$ This option available only if game PC3 has -02 memory installed.

G. Game Play

Sit-Down Missile CommandTM is a 1-player game with a color monitor. The game depicts an Armaged-don-style war in which a player defends bases and cities with antiballistic missiles (ABMs). The enemy—the game computer—launches incoming waves of attack missiles. These weapons may be either individual or branching attack missiles. In addition, the enemy occasionally launches missiles from a fast-moving "killer" satellite or from bombers. The enemy also launches "smart" missiles that usually avoid explosions.

Players receive varying numbers of points for intercepting attack missiles, for having unused missiles still in their bases' arsenals, and for having their cities undamaged after a missile wave.

The game has five possible modes of operation: attract, ready-to-play, play, high-score initial, and self-test. The latter is a special mode for checking the game switches and computer functions. You may enter this mode at any time. When entered, all game credits are cancelled, and the "HIGH SCORE TODAY" is reset to 7500. A list of eight "highest" scores and initials are also reset onto the screen (to provide player challenge).

1. Attract Mode

The attract mode begins when power is applied to the game, after a play or high-score initial mode, or after self-test. This mode is continuous and is only interrupted when a game is paid for and accepted, or when entering self-test.

In this mode, the *Missile Command* name is displayed, then the computer plays one wave—handling both offense and defense. Following this, the computer displays the high score table, then the *Missile Command* graphics reappear.

2. Ready-to-Play Mode

This mode begins when sufficient coins have been accepted for a one-player game. It ends when the 1 PLAYER START pushbutton is pressed.

When this mode begins, the message PRESS START scrolls along the bottom of the screen. DEFEND CITIES and red arrows pointing down to each

city also appear on the screen. The displayed pictures are otherwise the same as those shown in the attract mode.

3. Play Mode

The play mode begins when the start pushbutton is pressed. The mode ends when the player's last city is destroyed.

The three bases—Alpha, Delta and Omega—each have 10 ABMs ready to be fired (shown as L's). Players must be careful to fire the missiles more or less evenly from among those bases, because no more missiles are granted until the screen resets in preparation for a new wave of attack missiles. If the enemy missiles strike a city or base, the colorful buildings or base will change to the solid color of the landscape.

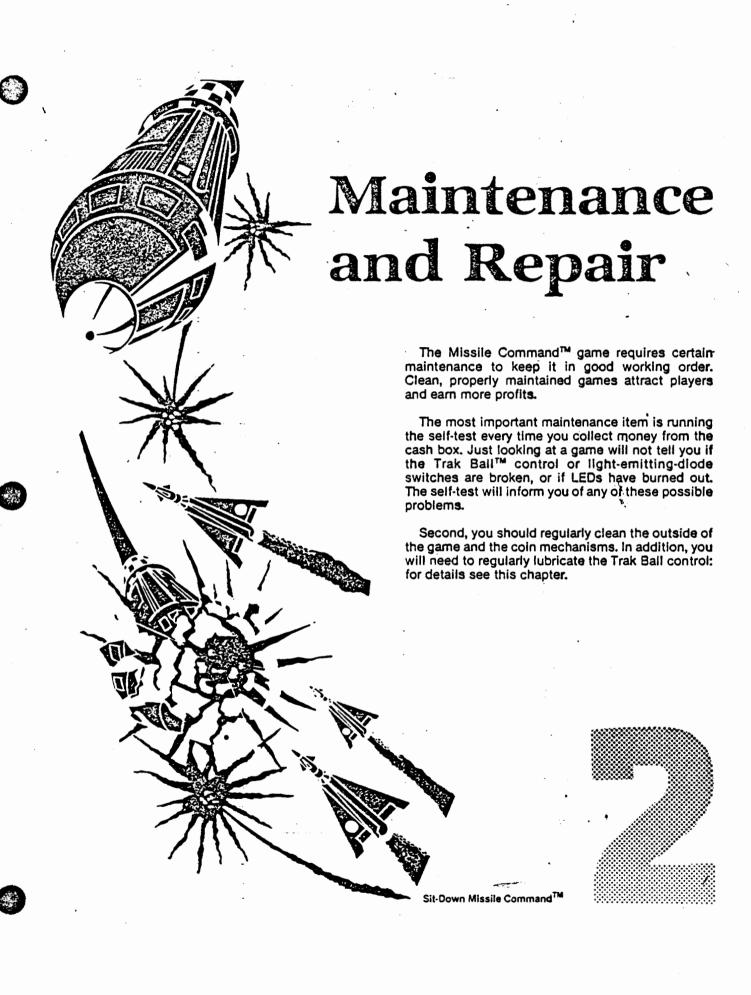
The game continues until all cities are destroyed. Missile Command™ has no operator-selectable fixed time length. Thus a highly skilled player can play longer than the novice.

During the second wave, a "killer" satellite and/or bomber will appear on the screen, moving quickly and launching attack missiles at the bases and cities. Players get bonus points for shooting down the satellites or bombers.

The general approach for getting high point scores is fairly quickly discovered: try to launch your ABMs when the enemy missiles have just appeared at the top of the screen. Then they are clustered together, where one ABM can usually destroy several enemy missiles. In the later more advanced waves, players can lay out a blanket of explosions.

4. High Score Initial Mode

If a player's score exceeds the minimum on the high score initial list, he or she may put up to three initials on this list at the end of the game. Spinning the Trak Ball control changes the letters (A thru Z and a blank are available). Pressing any fire switch will fix that letter on the screen, and move the choice to the next letter. If the player doesn't enter his or her initials within 90 seconds, three blank spaces will be entered automatically.



A. Cleaning

The exterior of the game cabinet and the metal and acrylic surfaces may be cleaned with any non-abrasive household cleaner. If desired, special coin machine cleaners that leave no residue can be obtained from your distributor. Do not dry-wipe any of the acrylic panels, because any dust can scratch the surface and result in fogging the plastic.

B. Fuse Replacement

This game contains six fuses—all on the power supply assembly (not including the TV monitor fuses). Replace fuses only with the same type as

listed in Figure 20 of this manual. See the color TV monitor manual, TM-148, for the monitor fuse data.

C. Opening the Control Panel

Prior to replacing any switch or repairing the Trak Bail™ on the control panel, be sure to unplug the game. Then you will have to open the control panel as described below.

Using an Allen wrench, remove all three Allenhead screws along the top edge of the control panel (see Figure 8). Lift up on the control panel and tilt it towards you. Now the LED switches and the Trak Ball control are accessible for servicing.

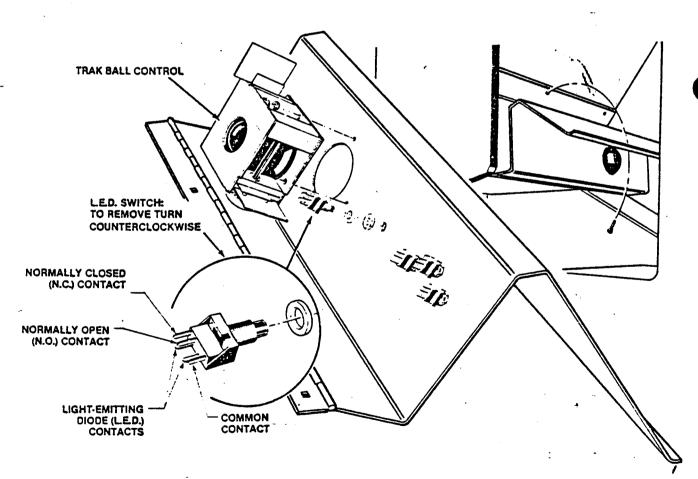


Figure 8 Opening the Control Panel

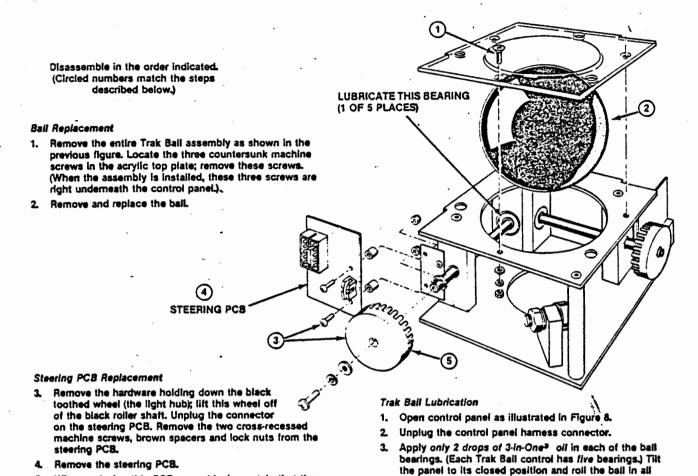


Figure 9 Trak Ball™ Maintenance and Repair

1. LED Switch Replacement

of the red photosensor device.

The light-emitting diode (LED) switches on the control panel have a very low failure rate. In case a switch should ever be suspect, first test it per the description that follows. To replace the switch, refer to Figure 8.

When replacing this PCB assembly, be certain that the

black toothed wheel turns freely between the two halves

- Remove the wires from the suspected switch.
- Set multimeter to the ohms scale. Set ohms scale to R x 1, then zero the meter.
- Connect multimeter leads to appropriate LED switch contacts (see Figure 8 for designation of switch contacts).
- Check contacts (push and release the switch button) for closed and open continuity.

 If the contacts do not operate sharply or always remain closed or open, then replace the LED switch as outlined in the figure.

directions. Be sure the oil has not spread onto the

shafts-otherwise your players will get oily hands.

2. Trak Ball™ Maintenance and Repair

To maintain this control, you will only have to lubricate the bearings approximately every 2,000 credits. The number of credits can be read off the coin counter, located on the coin door. Use only 2 drops of 3-in-One⁹ oil in each of the ball bearings. (The Trak Ball control has five bearings.)

For further instructions on how to replace the Trak Ball or either Steering PCB, see Figure 9.

D. TV Monitor Removal

- CAUTION -

High voltages may exist in any television unit, even with power disconnected. Use extreme caution and do not touch electrical parts or the TV yoke area with your hands or with metal objects in your hands!

In addition, be sure to use heavy gloves when handling the monitor. You could cut your hands on the metal TV chassis, without such protection.

If you should need to service or replace the color. TV monitor, you must first remove it from the game cabinet. Follow the instructions given in Figure 10.

Note that two people are required to remove the monitor assembly—it weighs about 80 pounds! In addition, Atari recommends you use a small step stool to stand on while tilting the monitor upwards. However, if you are about 6½ feet tall, you could probably remove the monitor without this stool.

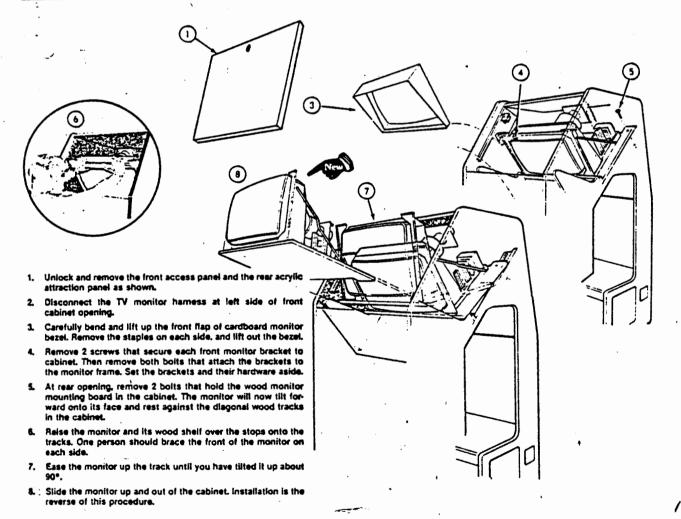


Figure 10 TV Monitor Removal

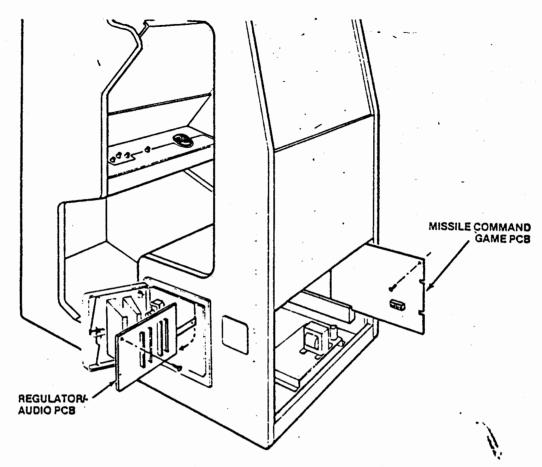


Figure 11 Game and Regulator/Audio PCB Replacement

E. Printed-Circuit Board Replacement

You may wish to remove the game printed-circuit board (PCB) or the Regulator/Audio PCB for service or inspection. To do this, refer to Figure 11 and proceed as follows:

Game PCB Removal

- Unlock and open the lower rear access panel.
- Remove the two beaded tie wraps and then the 44-pin edge connector from the right side of the game PCB.
- Locate the Phillips-head screw that extends through the PCB and into the wood block near the game's opening. Remove this screw.
- Remove the PCB from the game by sliding it out of the plastic PCB retainer.

- Reinstall the PCB, making sure that the 44-pin edge connector is properly plugged in. Note that the connector is keyed to fit on only one way, so if it doesn't slip on easily, don't force it! A reversed connector will probably damage your game and will void the warranty.
- Check that the operation of the game is correct by performing the self-test. This is especially important with any game when you replace a PCB.

2. Regulator/Audio II PCB Removal

- Unlock and open the access panel.
- Remove the five plug-in connectors.
- Locate the two Phillips-head screws that extend through the PCB and into the wood blocks at the top two corners of the PCB. Remove these two screws.
- Remove the PCB from the inside wall of the cabinet by pulling it up and out of the wood slot.



F. Opening the Attraction Panel

Prior to replacing the fluorescent tube or the speaker, you will first have to remove the graphics attraction panel at the top rear of the Sit-Down Missile Command $^{\text{TM}}$ game.

Unplug the game; then remove the three Allenhead screws at the top of the panel. They secure the metal retainer strip for the attraction panel. Remove the retainer completely.

Now remove the two Phillips screws located on the sides of the panel. Tilt the top of the 1/4-inch attraction panel towards you, then lift it up and out of the bottom wood retainer (see Figure 12).

Behind it you will find a smaller, 1/8-inch smokecolor window panel: this can remain in place while you service the fluorescent tube or speaker.

1. Replacing Fluorescent Tube

A- WARNING -A

If you drop a fluorescent tube and it breaks, it will implode! Shattered glass can fly 6 feet or more from the implosion. Use care when replacing any fluorescent tube.

First remove the colorful attraction panel as previously described. Then replace the white fluorescent tube by following this procedure (see Figure 12).

- Remove the two Y-shaped connectors from the ends of the fluorescent tube. Now carefully remove the tube from its clamps by pulling it towards you.
- Replace with a new tube. Do not snap the tube in vigorously—you may break it, causing an implosion!
- Close up the game by replacing the attraction panel, retainer strip, and three Allen-head screws.

2. Replacing Speaker

First disconnect the harness plugs for the speaker. Remove the four screws that secure the speaker on the wood panel. Replace the speaker, then reconnect the harness connectors.

Never operate the game without the metal shield located just above the speaker: the shield prevents the speaker's magnetism from adversely affecting the monitor's color purity.

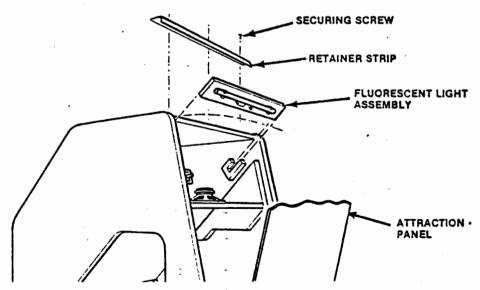


Figure 12 Fluorescent Tube and Speaker Replacement



G. Game Operation

With this manual you received two large sheets that contain the wiring and schematic diagrams for your game. Sheet 1, Side A, includes information that shows the arrangement of these diagrams. These diagrams include information that explains the functions of the circuits and defines inputs and outputs.

Missile Command™ is a microprocessor-controlled game. The microprocessor is mounted on the game PCB. The game PCB receives switch inputs from the control panel and coin door. These inputs are processed by the game PCB and output to the TV monitor, Regulator/Audio II PCB, loudspeaker, and control panel.

The Regulator/Audio II PCB performs two functions: 1) it regulates the +10 VDC from the power supply to +5 VDC, and 2) it amplifies the audio output from the game PCB. The +5 VDC from the Regulator/Audio II PCB provides most logic power to the game PCB. The audio output from the Regulator/Audio II PCB directly drives the game speaker and is controlled by the volume control, mounted inside the coin door.

The Power Supply is the source of all voltages in the game. These voltages are protected by three fuses (F3, F4 and F5) on the power supply chassis. The primary winding of the power supply transformer is protected by the fuses F1 and F2 on the power supply chassis.

Figure 13 illustrates the distribution of power In this game. Figure 14 illustrates the distribution of signals.



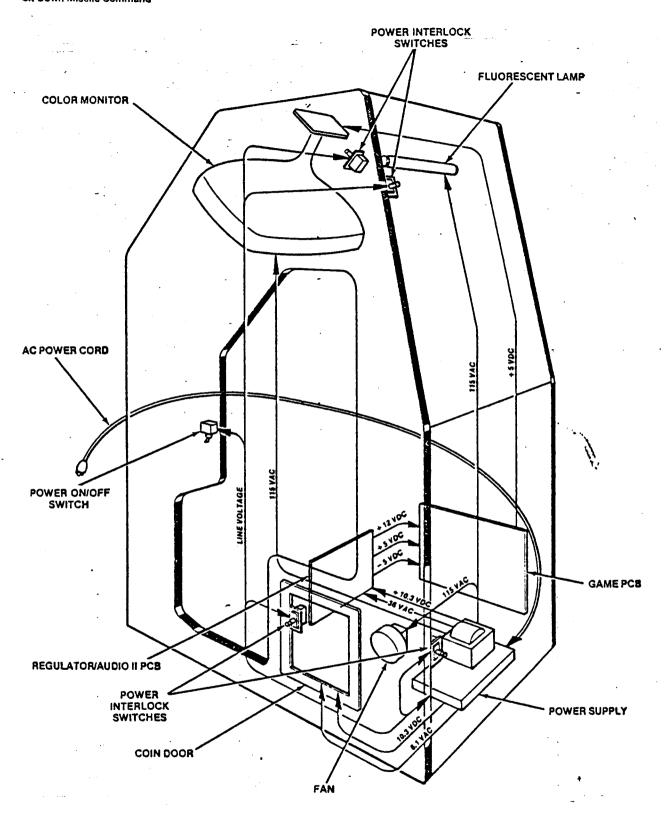


Figure 13 Power Distribution

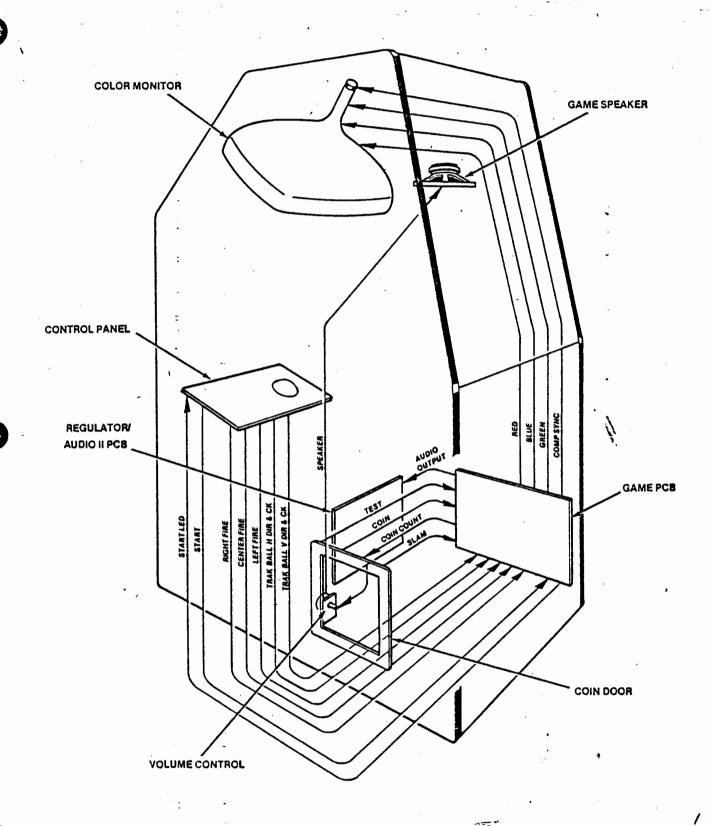


Figure 14 Signal Distribution



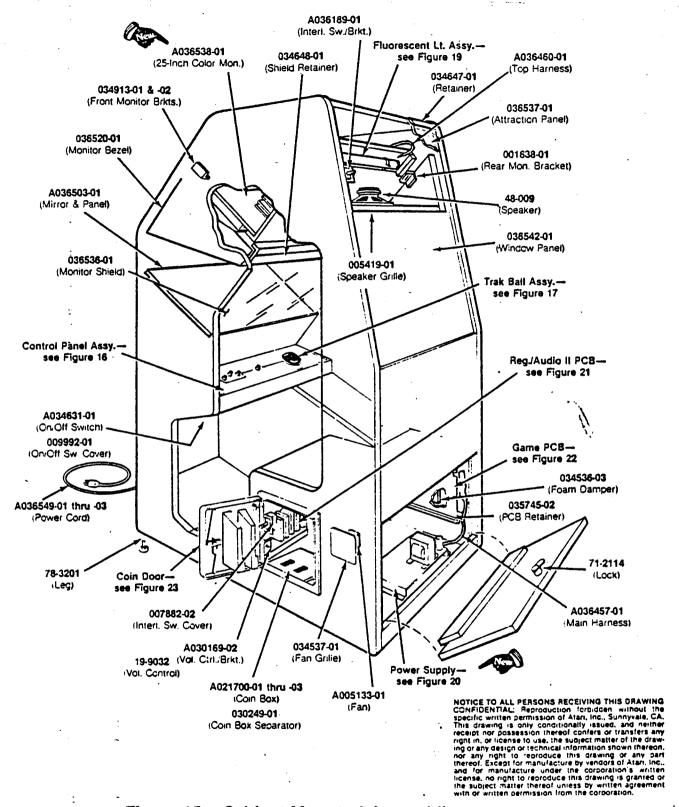


Figure 15 Cabinet-Mounted Assemblies A036530-xx B

Figure 15 Cabinet-Mounted Assemblies Parts List

	Part No.	Description
		•
	A005133-01	Exhaust Fan
	A021700-01	Coin Box Assembly (for all the same coins)
	A021700-02	Coin Box Assembly (for two different coin denominations—has one separator)
	A021700-03	Coin Box Assembly (for three different coin denominations—has two separators)
	A030169-02	Volume Control & Bracket Assembly
	A034631-01	On/Off Switch Assembly
	A036189-01	Interlock Switch & Bracket Assembly (modified for safety)
	A036457-01	Main Harness and Components Assembly (Includes lower two interlock switches and onloff switch)
	A036460-01	Top Harness and Components Assembly (includes top two interlock switches)
<u> </u>	A036462-01	Monitor Harness and AC Cord Assembly
	A036503-01	Mirror/Panel Assembly
4	A036538-01	25-Inch Electrohome Color Monitor Assembly
	A036549-01	Strain-Relief Power Cord (domestic)
	OR A036549-02	Strain-Relief Power Cord (German)
	OR A036549-03	Strain-Relief Power Cord (Australian)
	DP-158-01	Sit-Down Missile Command [™] Schematic Drawings, Sheet 1
	DP-158-02	Sit-Down Missile Command Schematic Drawings, Sheet 2 .
	TM-162	Sit-Down Missile Command Operation, Maintenance, Service Manual
	TM-163	Service Manual for Electrohome 25-Inch Color Monitor
	19-9032	Volume Control Potentiometer
	48-009	8-Inch 8-Ohm 8-Watt High-Fidelity Speaker
	71-211 4 75-0701 7	Panel Cartridge Lock Mechanism (for access panels) Spacer for Mounting Printed-Circuit Boards (two per screw)
	78-24012	5-Inch Beaded Nylon Tie Wrap (for securing edge connector to Game PCB)
	78-3201	Cabinet-Leveling Leg
	000869-01	5-Inch Ventilation Grille
	001638-01	Rear Monitor Mounting Bracket
	005419-01	8-Inch Speaker Grille
	006870-01	Coin Box Bracket
	007882-02	Interlock Switch Cover
	009992-01	On/Off Switch Cover
	030249-01	Coin Box Separator
	034536-03	Foam Vibration Damper
	034537-01	Fan Grille
	034647-01	Attraction-Panel Retainer (at top rear of game)
	034648-01	Monitor-Shield Retainer
	034913-01	Front Monitor Support Bracket - Left Side (as seen facing front of game where power cord exits)
	034913-02	Front Monitor Support Bracket—Right Side
	035745-02	18-Inch Plastic PCB Retainer
	036515-01	Graphics Label for Console
	036520-01	Cardboard Bezel (for monitor)
	036521-01	Cover Plate for Power-Cord Hole
	036536-01	Smoke-Color Monitor Shield
	036537-01	Graphics Attraction Panel
	036542-01	Smoke-Color Window Panel
A-15		



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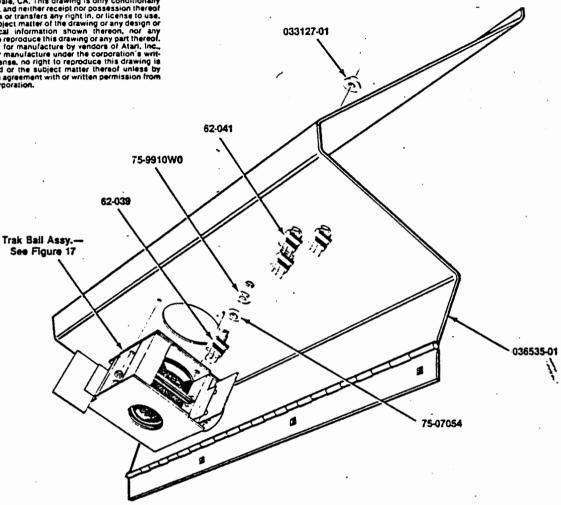


Figure 16 Control Panel Assembly A036523-01 B

Parts List

Part No.	Description		
A036458-01 62-039 62-041 75-07054	Control-Panel Harness Assembly SPDT Momentary Pushbutton Switch, with Red Cap and Light-Emitting-Diode SPDT Black Momentary Pushbutton Switch Nylon Spacer	+	
75-9910W0 .033127-01 036535-01	Steel Stamped Nut Black Molded Switch Bushing Metal Control Panel with Graphics		



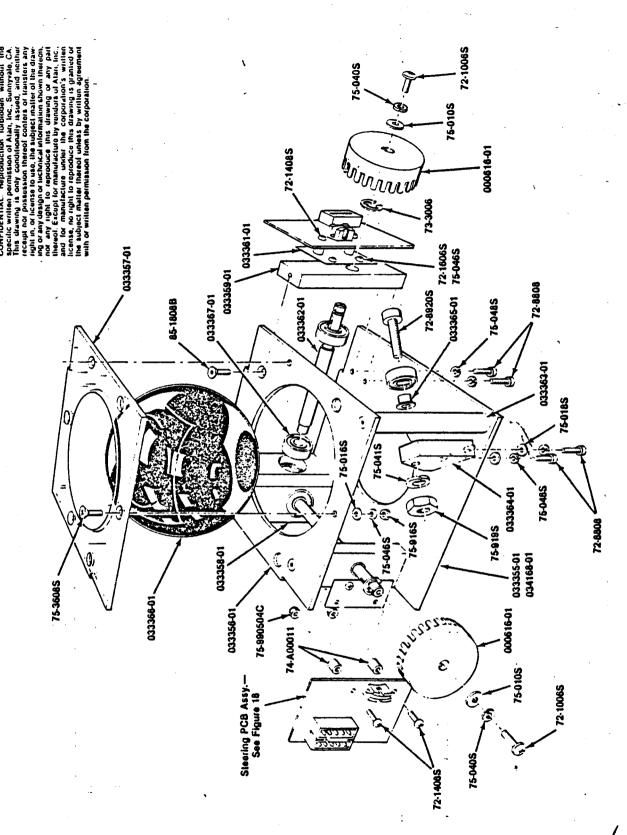
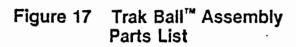


Figure 17 Trak Ball[™] Assembly A033360-01 G



Part No.	Descriptio n	
72-1006S 72-1408S 72-1606S 72-8808	#10-32 × 3/8" Cross-Recessed Pan-head Cadmium-Plated Steel Machine Screw #4-40 × ½" Cross-Recessed Pan-Head Cadmium-Plated Steel Machine Screw #6-32 × 3/8" Cross-Recessed Pan-Head Cadmium-Plated Steel Machine Screw #8-32 × ½" Hex Socket-Head Cap Alloy Steel Machine Screw	
72-8920S 73-3006 74-A00011 75-010S 75-016S	#3/8-16 × 11/4" Hex Socket-Head Cap Alloy Steel Machine Screw Carbon Spring Steel External Retaining Ring, for 3/8" shaft diameter Phenolic Spacer, 1/8" inside diameter × 1/4" outside diameter × 1/4" long #10 Flat Plain SAE-Standard Zinc-Plated Steel Washer #6 Flat Plain SAE-Standard Zinc-Plated Steel Washer	
75-018S 75-040S 75-041S 75-046S 75-048S	#8 Flat SAE-Standard Zinc-Plated Steel Washer #10 Steel Split Lock Washer #3/8 Steel Split Lock Washer #6 Zinc-Plated Steel Split Lock Washer #8 Zinc-Plated Steel Split Lock Washer	•
75-3608\$ 75-916\$ 75-919\$ 75-990504C 85-1808B	#6-32 × ½" Cross-Recessed Flat-Head Cadmium-Plated Steel Machine Screw #6-32 Standard Cadmium-Plated Steel Machine Hex Nut #3/8-16 Standard Cadmium-Plated Steel Machine Hex Nut #4-40 Shallow-Pattern Prevailing-Torque Corrosion Resistant Lock Nut #8-32 × ½" Socket Cap Flat Countersunk-Head Black-Oxide Steel Screw	-
000616-01 033355-01 033356-01 033357-01 033358-01	Light Hub Base Plate Top Plate Cover Plate (Acrylic) Corner Post	
033359-01 033361-01 033362-01 033363-01 033364-01	End Post Steering PCB Bracket Roller Shaft Cylindrical Post Adjustable Post	
033365-01 033366-01 033367-01 034168-01	Spacer Trak Ball TM Bearing Label with Lubrication Instructions	. :

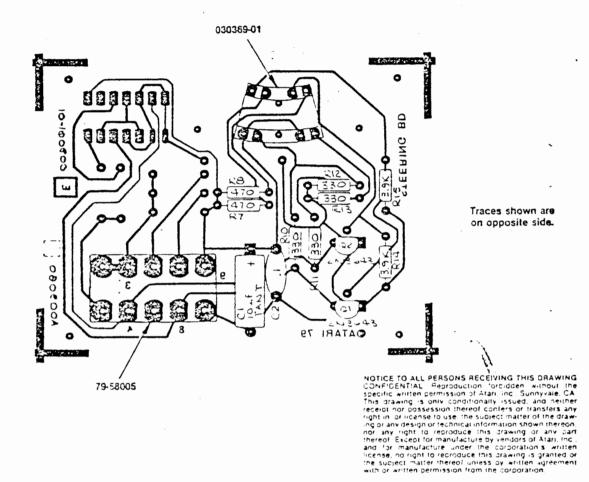


Figure 18 Steering Printed-Circuit Board Assembly A009060-02 C

Parts List

Part No.	Description (Reference Designations and Locations in Bold)		
10-5331	330 Ohm. ±5%, ¼W Carbon Composition Resistor (R10-13)	•	
10-539 2	3.9K Ohm, ±5%, ¼W Carbon Composition Resistor (R14, 15)		
10-5471	470 Ohm, ±5%, 1/4W Carbon Composition Resistor (R7-8)		
27-250104	0.1 uf. ± 20%, 25V Ceramic-Disk Radial-Lead Capacitor (C2)		
29-046	10 uf. ± 10%, 20V Tantalum Axial-Lead Capacitor (C1)		
34-2N3643	Type 2N3643 Switching Transistor (Q1, 2)		
79-58005	10-Contact Connector		/
030369-01	Radial Optical Coupler		,

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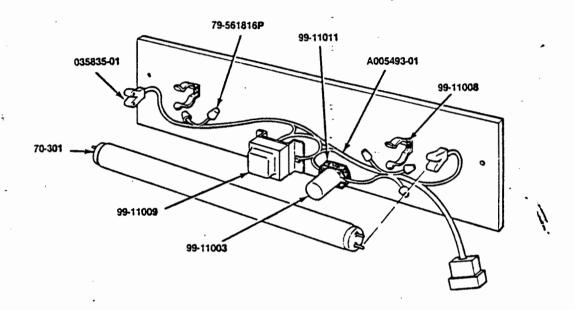
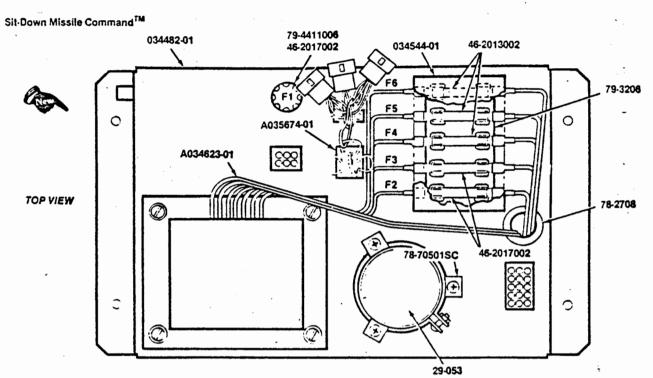


Figure 19 Fluorescent Light Assembly A036528-01 A

Parts List

Part No.	Description
A005493-01 70-301 79-561816P 99-11003	Fluorescent Light Harness Assembly 24-Inch 20-Watt Cool White Fluorescent Tube Wire Nut for 16- to 18-Guage Wires Fluorescent Lamp Starter
99-11008 99-11009 99-11011 035835-01	Ballast Transformer Starter Socket 11/2-Inch Clamp Y-Lead Connector (two required per light). Alternate is part no. A036045-01



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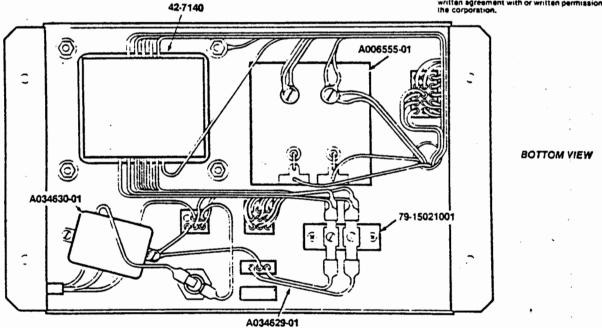


Figure 20 Power Supply Assembly for Raster-Scan Games A034560-02 D



Figure 20 Power Supply Assembly for Raster-Scan Games Parts List



Part No.	Description
A006555-01	Rectifler Printed-Circuit Board Assembly
A034623-G1 A034629-01	Transformer and Harness Assembly (includes Power Transformer) AC Harness Assembly
A034630-01	RFI Filter Assembly
A035674-01	Voltage Plug Assembly (set of four plugs)
29-053	26,000 uf 15V Electrolytic Capacitor
42-7140	Power Transformer Only
46-201300 2	3-Amp. 250V 3AG Slow-Blow Glass Cartridge-Type Fuse
46-2017002	7-Amp. 250V 3AG Slow-Blow Glass Cartridge-Type Fuse
78-2708	Nylon Type 6/6 Hole Bushing with 5/8" Inside Diameter × 55/64" Outside Diameter × 1/4" Thick
78-70501SC	2"-Diameter Capacitor Mounting Bracket
79-15021001	2-Circuit Single-Row Terminal Block
79-3206	5-Position 3AG Fuse Block with 1/4" Quick-Disconnect Terminals
79-4411006	Panel-Mounting Non-Indicating 3AG Cartridge-Type Fuse Post
034544-01	Fuse Block Cover

TRACES SHOWN ARE ON OPPOSITE SIDE

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Regulator/Audio II PCB Assembly A035435-02 B Figure 21



Part No.	Description (Reference Designations and Locations in Bold)
12-52P7	2.7 Ohm, ± 5%, 1W Resistor (R5)
16-54 P0	4 Ohm, ± 5%, 5W Wirewound Resistor (R25)
19-100P1015	.1 Ohm, ± 3%, 7W Wirewound Resistor (R24)
19-315102	1K Ohm Vertical PCB-Mounting Cermet Trimpot (R8)
24-250106	10 uf Aluminum Electrolytic Fixed Axial-Lead 25V Capacitor (C5, 15)
24-250108	1000 uf Aluminum Electrolytic Fixed Axial-Lead 25V Capacitor (C9, 10, 13)
24-250477	470 uf Aluminum Electrolytic Fixed Axial-Lead 25V Capacitor (C1, 4, 12)
24-250478	4700 uf Aluminum Electrolytic Fixed Axial-Lead 25V Capacitor (C29)
24-250108	1000 uf Aluminum Electrolytic Fixed Axial-Lead 25V Capacitor (C13)
24-250477	470 uf Aluminum Electrolytic Fixed Axial-Lead 25V Capacitor (C1, 4, 12)
24-350226	22 uf Aluminum Electrolytic Fixed Axial-Lead 35V Capacitor (C24, 31)
24-350338	3300 uf Aluminum Electrolytic Fixed Axial-Lead 35V Capacitor (C9, 10, 18, 19)
24-500105	1 of Aluminum Electrolytic Fixed Axial-Lead 50V Capacitor (C22, 23)
27-250102	.001 uf Ceramic-Disc 35V Radial-Lead Capacitor (C2, 7, 16)
27-250103	.01 uf Ceramic-Disc 25V Radial-Lead Capacitor (C5, C14)
29-088	.1 uf Ceramic-Disc 25V Radial-Lead Capacitor (C3, 11, 20, 21)
31-A14F	50V 2.5A Miniature Axial-Lead High-Current Rectifier (CR1, 4-8)
33-TIP32	PNP Power Transistor, Type TIP32 (Q2)
34-2N3055	NPN Silicon Transistor, Type 2N3055 (Q3)
37-LM305	5V Linear Voltage Regulator (Q1)
37-7812	+ 12V Voltage Regulator, Type 7812 (Q8)
37·79 05	- 5V Voltage Regulator, Type 7905 (Q9)
72-160 8C	#6-32 × ½ Cross-Recessed Pan-Head Corrosion-Resistant Steel Machine Screw
75-F604 05	#6-32 × 1/4 * Binder-Head Nylon Screw
75-9951 6	. #6-32 Nut/Washer Assembly
78-160 08	Thermally Conductive Compound (Q3)
78-16014	Thermally Conductive Compound (Q2, 5, 7-9)
79-5830 6	6-Position Connector Receptacle (J6, 9)
79-5830 8	9-Position Connector Receptacle (J7)
79-58346	12-Position Connector Receptacle (J10)
79-58354	4-Position Connector Receptacle (J8)
020670-01	Test Point
034531-01	Heat Sink
110000-010	1 Ohm, ± 5%, ¼W Resistor (R10, 19)
110000-100	10 Ohm, ± 5%, ¼W Resistor (R11, 20, 29, 30)
110000-101	100 Ohm, ± 5%, 1/4 W Resistor (R4, 12, 22)
110000-102	1K Ohm, ± 5%, ¼W Resistor (R27, 28)
110000-103	10K Ohm, ± 5%, 1/4 W Resistor (R13, 14)
110000-271	270 Ohm, ± 5%, 1/4 W Resistor (R1)
110000-330	33 Ohm, ± 5%, 1/4 W Resistor (R3)
110000-392	3.9K Ohm, ± 5%, ¼W Resistor (R6)
110000-562 -	5.6K Ohm, ± 5%, ¼W Resistor (R32, 33)
110000-752	7.5K Ohm, ± 5%, ¼W Resistor (R7)
110001-221	220 Ohm, ± 5%, ½W Resistor (R9, 21)
116000-220	22 Ohm, ± 5%, 10W Wirewound Resistor (R31)
122004-224	.22 uf Ceramic-Disc 25V Capacitor (C6, 8, 15, 17)
137151-00 2	Type TDA2002A 8W Linear Audio Amplifier Integrated Circuit (Q5, 7)

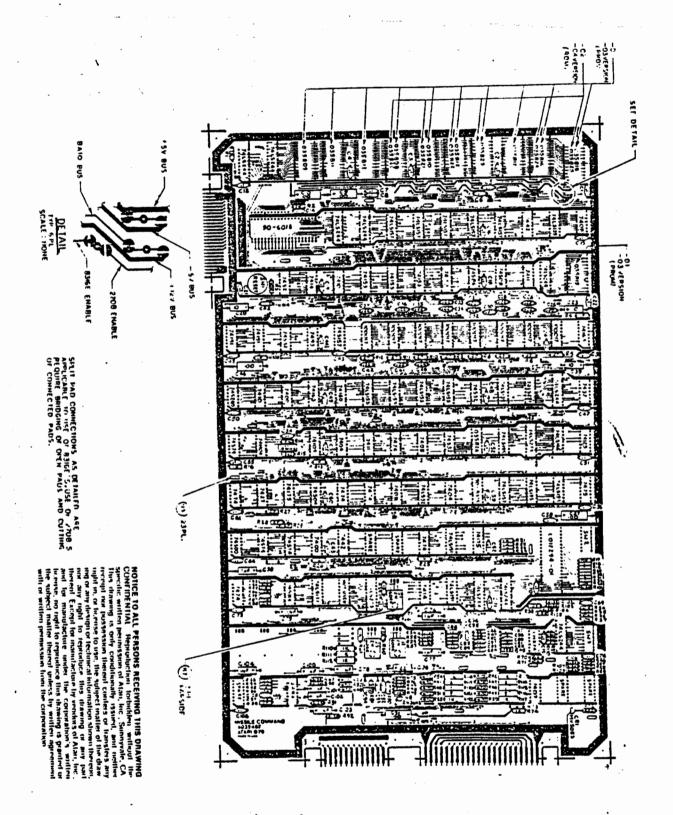
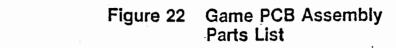


Figure 22 Game PCB Assembly A035467-01 thru -04 D



Part No.	Description (Reference Designations and Locations in Bold)
C012294-01	Audio I/O N-Channel MOS/LSI Custom Chip (P8/9)
21-101683	.068 uf, ± 10%, Radial-Lead Epoxy-Dipped 100V Mylar Capacitor (C65-68)
24-250105	1 uf Aluminum Electrolytic Fixed Axial-Lead 25V Capacitor (C76-79, 98, 100-104)
24-250106	10 uf Aluminum Electrolytic Fixed Axial-Lead 25V Capacitor (C20, 23, 39)
24-250107	100 uf Aluminum Electrolytic Fixed Axial-Lead 25V Capacitor (C9, 10, 46, 57, 91)
24-250226	22 uf Aluminum Electrolytic Fixed Axial-Lead 25V Capacitor (C90)
27-250103	.01 uf Ceramic-Disc 25V Radial-Lead Capacitor (C76-79)
28-101102	1000 pf Epoxy-Dipped 100V Radial-Lead Mica Capacitor (C99, 105)
29-088 .	.1 uf Ceramic-Disc 25V Radial-Lead Capacitor (C1-8, 13-16, 18, 19, 21, 22, 30, 38, 43-45, 47-56, 58-64, 69-75, 80-89, 92-97, 105)
31-1N914	75V Type-1N914 Switching Diode (CR2)
34-2N3643	Type 2N3643 NPN Switching Transistor (Q8)
34-2N6044	Type 2N6044 NPN Darlington Transistor (Q1-3)
37-4584B	Type 14584 Integrated Circuit (C9, C11)
37-7400	Type 7400 Integrated Circuit (C5, D8)
37-74500	Type 74S00 Integrated Circuit (A8)
37-7404	Type 7404 Integrated Circuit (E6, K7)
37-74H04	Type 74H04 Integrated Circuit (B6)
37-74804	Type 74S04 Integrated Circuit (D7)
37-7407	Type 7407 Integrated Circuit (N11)
37-74LS08	Type 74LS08 Integrated Circuit (H7)
37-7408	Type 7408 Integrated Circuit (R2, J6)
37-74508	Type 74S08 Integrated Circuit (M3)
37-74LS10	Type 74LS10 Integrated Circuit (E3)
37-7410	Type 7410 Integrated Circuit (B5)
37-74LS14	Type 74LS14 Integrated Circuit (D3)
37-7414	Type 7414 Integrated Circuit (J9)
37-7427	Type 7427 Integrated Circuit (87)
37-7432	Type 7432 Integrated Circuit (C3, R5)
37-74LS32	Type 74LS32 Integrated Circuit (J7)
37-74S32	Type 74S32 Integrated Circuit (C4, L5, K6)
37-7442 37-7474	Type 7442 Integrated Circuit (N2, E8) Type 7474 Integrated Circuit (H6, A7, E7, F7, J8, A9)
37-74874	Type 74S74 Integrated Circuit (A6, B8, C8)
37-7475	Type 7475 Integrated Circuit (R7)
37-7493	Type 7493 Integrated Circuit (D4)
37-74109	Type 74109 Integrated Circuit (D8)
37-74125	Type 74125 Integrated Circuit (R6)
37-74LS139	Type 74LS139 Integrated Circuit (P2, M5)
37-74LS153	Type 74LS153 Integrated Circuit (F5, H5, J5, K5, P7)
37-74153	Type 74153 Integrated Circuit (F3, H3, J3, K3)
37-74LS157	Type 74LS157 Integrated Circuit (H2, J2, K2, L2, M2, M7, D9)
37-74\$157	Type 74S157 Integrated Circuit (E4)
37-74160	Type 74160 Integrated Circuit (E5)



Figure 22 Game PCB Assembly, continued Parts List

Part No.	Description (Reference Designations and Locations in Bold)
37-74163	Type 74163 Integrated Circuit (D5)
37-74LS163A	Type 74LS163A Integrated Circuit (R4)
37-74LS168	Type 74LS166 Integrated Circuit (P6)
37-7417 5	Type 74175 Integrated Circuit (L8)
37-74LS175	Type 74LS175 Integrated Circuit (C7)
37-74LS191	Type 74LS191 Integrated Circuit (K8, K9)
37-7419 1 37-74LS19 5	Type 74191 Integrated Circuit (A4, B4) Type 74LS195 Integrated Circuit (M6, N7)
31-1463133	Type 7425135 Integrated Circuit (IMO, 147)
37-74LS244	Type 74LS244 Integrated Circuit (A/B1, E2, F2, P5, L9, M9, P10, B/C1, N/P3)
37-74LS251	Type 74LS251 Integrated Circuit (N5)
37-745260	Type 74S260 Integrated Circuit (A5)
37-74LS273	Type 74LS273 Integrated Circuit (N6, F9)
37-LM324	Type LM324 Integrated Circuit (N10)
38-MV5053	Type MV5053 Light-Emitting Diode (CR1)
62-001	SPST Pushbutton Switch (B3)
66-118P1T	8-Station Single-Throw, Dual-Inline-Package Bit Switch (R8, R10)
79-42C24	24-Contact Medium-Insertion-Force Integrated Circuit Socket (For -01 and -03 PCB Assemblies: D1, E1, F1, H1, J/K1, K/L1, L/M1, M/N1, N/P1, R1, R3; For -02 and -04 PCB Assemblies: H1, J/K1, K/L1, L/M1, N/P1, R1)
79-42C40	40-Contact Medium-Insertion-Force Integrated Circuit Socket (C2, P8/9)
81-4302	Nylon Snap-In Fastener
90-123	10.000 MHz, ±.005%, Crystal (Y1)
90-6013 .	Microprocessor (C2)
90-7005	Random-Access Memory (L7)
020670-01	Test Point
035826-01	Programmable Read-Only Memory (L6)
100017-001	Random-Access Memory (F4, H4, J4, K4, L4, M4, N4, P4)
110000-102	1K Ohm, ±5%, ¼W Resistor (R1, 2, 4, 13, 16, 21-26, 39, 60, 61, 73, 74, 85, 95, 109-122)
110000-103	10K Ohm, ±5%, ¼W Resistor (R3, 17-20, 30-38, 60-71, 83, 84, 86-88, 93, 94, 96-100)
110000-152	1.5K Ohm, ±5%, ¼W Resistor (R79)
110000-220	22 Ohm, ±5%, ¼W Resistor (R48, 47, 82)
110000-221	220 Ohm, ±5%, 1/4 W Resistor (R72)
110000-222	2.2K Ohm, ±5%, ¼W Resistor (R76)
110000-332	3.3K Ohm, ±5%, ¼W Resistor (R56-59, 89-92)
110000-270	27 Ohm, ±5%, 1/4 W Resistor (R5-12, 27-29)
110000-331	330 Ohm, ±5%, ¼W Resistor (R14, 15, 78)
110000-391	390 Ohm, ±5%, ¼W Resistor (R45, 81)
110000-331	470 Ohm, ±5%, 1/4 W Resistor (R40-44, 48-55, 80)
110000-472	4.7K Ohm, ±5%, ¼W Resistor (R75)
110000-682	6.8K Ohm, ±5%, 1/4W Resistor (R101-108)
110000-822	9.2K Ohm + E9/ 1/-VAI Panistan (DTD)
122004-224	8.2K Ohm, ±5%, ¼W Resistor (R77) 22 uf Ceramic Disc 25V Radial-Lead Capacitor (C24-29, 31-37, 40-42)
137002-001	Type 74S86 Integrated Circuit (L3)

For remaining memory components and their part numbers, see list on next page.

Figure 22 Game PCB Assembly, continued Parts List

Memory Components and Their Equivalents (Locations Shown in Bold)

	-01 P.C. E (mostly P		-02 P.C. E (ROM		-03 P.C. E (mostly P		-04 P.C. E (ROM	
-	035812-01 035813-01	K/L1	035822-01	K/L1	035812-02		035822-02	K/L1
	035823-01	UM1	035823-01	L/M1 ·	035823-02	⊔M1	035823-02	UM1
	035816-01 035817-01	N/P1 M/N1	035824-01	N/P1	035816-02 035817-02	N/P1 M/N1	035824-02	N/P1
	035818-01 035819-01	R1	035825-01	R1 .	035818-02 035819-02	R1 R3	035825-02	R1
	035808-01 035809-01	H1	035820-01	Н1	035808-02	H1 01	035820-02	Н1 .
	035810-01 035811-01	J/K1 E1	035821-01	J/K1	035810-02 035811-02	J/K1 E1	035821-02	J/K1

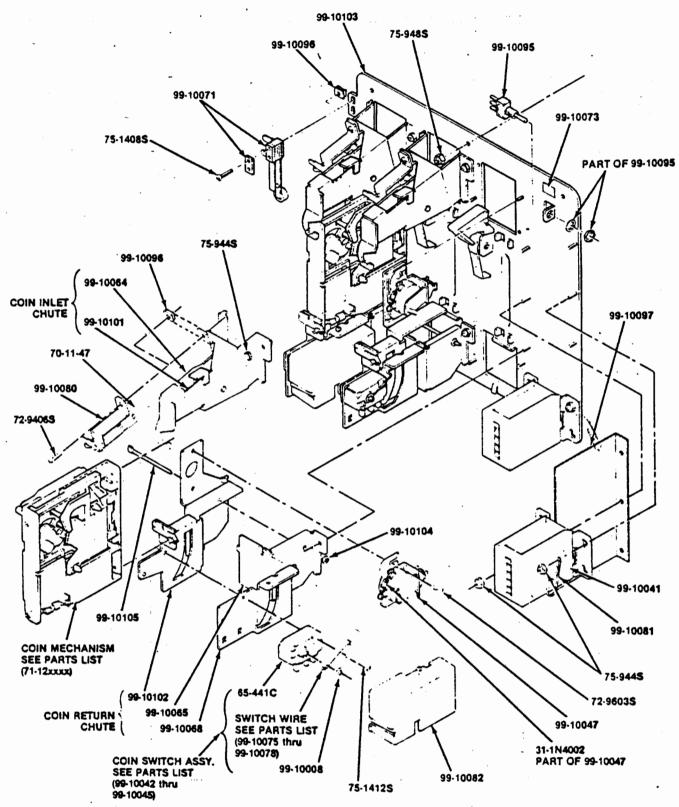


Figure 23 New Coin Door 71-10xxxx B

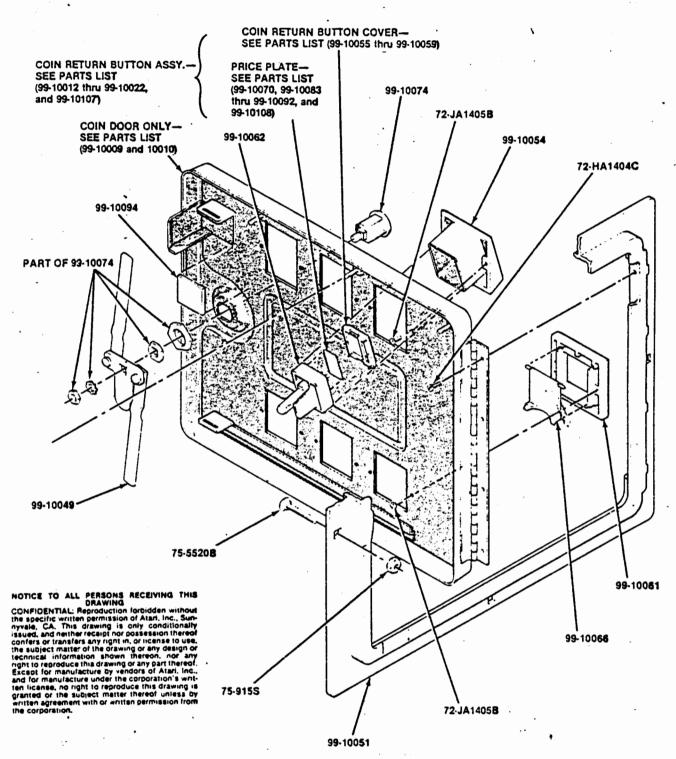


Figure 23 New Coin Door 71-10xxxx B

Figure 23 New Coin Door, continued Parts List

100V Sillcon Rectifler 1N4002 Dlode General-usage low-force ministure switch Ministure bayonet-base incandescent lamp, type #47 71-1201ADU V.S. \$1.00 coln mechanism 71-1201FCH Swiss 1 Fr coln mechanism 71-1205FB German 1 DM coln mechanism 71-1205FB The Colon German 2 DM coln mechanism 71-1205FB German 5 DM coln mechanism 71-1205FB The Colon German 5 DM coln mechanism 71-1205FB The Colon German 5 DM coln mechanism 71-1205FB The Colon German 5 DM coln mechanism 71-1210PE U.K. 10 P coln mechanism 71-1210PE U.S. 25° coln mechanism 71-1210DU The Colon German 5 DM coln return button assembly 99-10011 99-10014 German 1 DM coln return button assembly 99-10015 99-10016 German 5 DM coln return button assembly 99-10017 Belgian 5 Fr coln return button assembly 99-10019 Japanese Y100 coln return button assembly 99-10019 99-10010 Swiss 1 Fr coln return button assembly 99-10019 99-10010 Swiss 1 Fr coln return button assembly 99-10010 Swiss 1 Fr coln return button assembly 99-10011 Swiss 1 Fr coln return button assembly 99-10012 U.K. 10 P coln return button assembly 99-10014 German 5 DM coln return button assembly 99-10019 99-10010 Oln inlet chute assembly 99-10040 Coln inlet chute assembly 99-10041 Coln counter assembly 99-10043 Coln switch assembly for U.S. 25° and Belgian 5 Fr colns (silver wire) Coln switch assembly for U.S. 25° and Belgian 5 Fr coln silver wire) Coln s	Part No.	Description .
65-441C General-usage low-force miniature switch 70-11-47 Miniature bayonet-base incandescent lamp, type #47 71-1201ADU U.S. \$1.00 coin mechanism 71-1201MG German 1 DM coin mechanism 71-1202MG German 2 DM coin mechanism German 2 DM coin mechanism Relgian 5 Fr coin mechanism U.K. 10 P coin mechanism 11-120CA Australian 20° coin mechanism 11-120CU U.S. 25° coin mechanism 11-1210OU Japanese Y100 coin mechanism 11-1210OU Japanese Y100 coin mechanism 11-1210OU Japanese Y100 coin mechanism 72-14109B #445/16° Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-9406S #440x38° Slotted pan-head steel machine screw 8-29903S #6-32x316° Slotted truss-head steel machine screw 8-32x316° Slotted truss-head steel machine screw 8-32x316° Slotted pan-head steel machine screw 8-32x316° Slotted partern cadmium-plated steel hex nut 8-32x316° Slotted partern cadmium-plated steel hex nut 8-344S #8-32 Standard pattern cadmium-plated steel hex nut 8-344S #8-32 Standard pattern cadmium-plated steel hex nut 8-344S #8-32 Polymer self-locking steel hex nut 8-344S #8-32 Polymer self-locking steel hex nut 8-344S #8-32 Polymer self-locking steel hex nut 9-344S #8-32 Standard pattern cadmium-plated steel machine screw 8-344S #8-32 Polymer self-locking steel hex nut 9-344S #8-32 Standard pattern cadmium-plated steel machine screw 9-344S #8-32 Standard pattern cadmium-plated steel machine screw 9-344S #8-32 Standard pattern cadmium-plated steel machine screw 9-344S #8-32 Polymer self-locking steel hex nut 9-344S #8-32 Standard pattern cadmium-plated steel machine screw 9-344S #8-32 Standard pattern cadmium-plated steel hex nut 9-344S #8-32 Standard pattern cad	24 414000	100V Sillera Postillas (NV000 Diede
70-11-47 71-1201ADU U.S. \$1.00 coin mechanism 71-1201FCH Swiss 1 Fr coin mechanism 71-1201FCH Swiss 1 Fr coin mechanism 71-1201MG German 1 DM coin mechanism 71-1205FB Belgian 5 Fr coin mechanism 71-1205FB Belgian 5 Fr coin mechanism 71-1205MG German 2 DM coin mechanism 71-1205MG German 5 DM coin mechanism 71-1205MG German 5 DM coin mechanism 71-1210PE U.K. 10 P coin mechanism 71-1210PU U.K. 10 P coin mechanism 71-1210OUL Italian 100 Lire coin mechanism 71-1210OUL Italian 100 Lire coin mechanism 71-1210OVJ Japanese Y100 coin mechanism 71-1210OVJ #4x¼* Slotted pan-head thread-rolling tri-fluted "Tapitle" cadmium-plated screw 72-JA1405B #4x5/16* Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-JA1405B #4x5/16* Slotted truss-head steel machine screw 72-900S #6-3223/16* Slotted truss-head steel machine screw 72-900S #6-3223/16* Slotted truss-head steel machine screw 75-918S #8-32 Standard pattern cadmium-plated steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-940S #4-40x½* Slotted pan-head steel machine screw 75-5120B #4-40x½* Slotted pan-head steel machine screw 75-910COS	- · · · · ·	
71-1201ADU 71-1201FCH Swiss 1 Fr coin mechanism 71-1201MG German 1 DM coin mechanism 71-1205FB 71-1205FB German 2 DM coin mechanism 71-1205FB German 5 DM coin mechanism 71-1210PE U.K. 10 P coin mechanism 71-1210PE U.S. 25¢ coin mechanism 71-1210PE V.S. 25¢ coin mechanism V		
71-1201FCH Swiss 1 Fr coin mechanism 71-1202MG German 1 DM coin mechanism 71-1205FB Belgian 5 Fr coin mechanism 71-1205FB German 5 DM coin mechanism 71-1205MG German 5 DM coin mechanism 71-1210PE U.K. 10 P coin mechanism 71-1210PE U.K. 10 P coin mechanism 71-1210CA Australian 20¢ coin mechanism 71-122CU U.S. 25¢ coin mechanism 71-1210U Italian 100 Lire coin mechanism 71-12100VJ Japanese Y100 coin mechanism 71-12100VJ Japanese Y100 coin mechanism 72-HA1404C #x/x² Slotted pan-head thread-rolling tri-fluted "Taptite" cadmium-plated screw 72-JA1405B #4x5/16* Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-JA1405B #4x5/16* Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-JA1405B #4x5/16* Slotted truss-head steel machine screw 72-JA1405B #4x5/16* Slotted truss-head steel machine screw 72-JA1405B #4x5/16* Slotted truss-head steel machine screw 72-JA1405B #3-22-Jale* Slotted truss-head steel machine screw 75-915S #3-25 Standard pattern cadmium-plated steel hex nut 75-948S #3-32 Polymer self-locking steel hex nut 75-948S #3-32 Polymer self-locking steel hex nut 75-140S #4-40x1/x* Slotted pan-head steel machine screw 75-1412S #4-40x1/x* Slotted pan-head steel machine screw 75-5120B #3-20x1/x* Flound-head square-neck steel bolt with black finish 99-10008 Switch wire retainer 99-10010 3-Mech coin door only 99-10011 Inner panel 99-10011 U.S. \$1.00 coin return button assembly 99-10014 German 1 DM coin return button assembly 99-10015 German 2 DM coin return button assembly 99-10016 German 5 DM coin return button assembly 99-10017 Belgian 5 Fr coin return button assembly 99-10018 Swiss 1 Fr coin return button assembly 99-10010 U.K. 10 P coin return button assembly 99-10011 Liner coin return button assembly 99-10012 U.S. and seembly Coin counter assembly 99-10021 Coin switch assembly Coin counter assembly 99-10040 Coin inlet chute assembly 99-10040 Coin switch assembly 99-10040 Coin switch assembly 99-10040 Coin switch assembly		
71-1201MG German 1 DM coin mechanism 71-1205FB Belgian 5 Fr coin mechanism 71-1205FB Belgian 5 Fr coin mechanism 71-1210PE U.K. 10 P coin mechanism 71-1210PE U.K. 10 P coin mechanism 71-1210PE U.S. 25¢ coin mechanism 71-1220CA Australian 20¢ coin mechanism 71-1220CA J. 25¢ coin mechanism 71-12100U U.S. 25¢ coin mechanism 71-12100UJ Japanese Y100 coin mechanism 71-1210SHA1404C #4x¼² Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-940S #44-40x¾² Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-940S #4-40x¾² Slotted truss-head steel machine screw 72-940S #4-40x¾² Slotted truss-head steel machine screw 75-91SS #4-20 Standard pattern cadmium-plated steel hex nut 75-948S #8-32 Standard pattern cadmium-plated steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-140SS #4-40x¾² Slotted pan-head steel machine screw 75-1412S #4-40x¾² Slotted pan-head steel machine screw 75-1412S #4-40x¾² Slotted pan-head steel machine screw 75-15520B #¼²-20x1¼² Round-head square-neck steel bolt with black finish 99-10008 Switch wire retainer 99-10010 3-Mech coin door only 99-10011 Inner panel 99-10011 U.S. 25¢ coin return button assembly 99-10014 German 1 DM coin return button assembly 99-10015 German 2 DM coin return button assembly 99-10016 German 5 DM coin return button assembly 99-10017 Belgian 5 Fr coin return button assembly 99-10018 Swiss 1 Fr coin return button assembly 99-10019 Japanese Y100 coin return button assembly 99-10010 Jupanese Y100 coin return button assembly 99-10011 Jupanese Y100 coin return button assembly 99-10012 U.K. 10 P coin return button assembly 99-10014 Coin counter assembly 99-10040 Coin inter the button assembly 99-10041 Coin counter assembly 99-10042 Coin counter assembly 99-10042 Coin counter assembly 99-10040 Coin counter assembly		
71-1202MG German 2 DM coin mechanism 71-1205FB Belgian 5 Fr coin mechanism 71-120DFB U.K. 10 P coin mechanism 71-120DFB U.K. 10 P coin mechanism 71-120CA Australian 20¢ coin mechanism 71-1210DU U.S. 25¢ coin mechanism 71-1210DU Islain 100 Lire coin mechanism 71-1210DU Islain 100 Lire coin mechanism 71-1210DU Japanese Y100 coin mechanism 71-1210DU Japanese Y100 coin mechanism 72-HA1404C #4x¼* Slotted pan-head thread-rolling tri-fluted "Taptite" cadmium-plated screw 72-JA1405B #4x5/16* Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-JA1405B #4x5/16* Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-940SS #6-32x3/16* Slotted truss-head steel machine screw 72-940SS #6-32x3/16* Slotted truss-head steel machine screw 75-915S #4-20 Standard pattern cadmium-plated steel hex nut 88-32 Standard pattern cadmium-plated steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-1412S #4-40x4* Slotted pan-head steel machine screw 75-1412S #4-40x4* Slotted pan-head steel machine screw 75-1552DB #1/4-20x11/4* Round-head square-neck steel boit with black finish 99-10008 Switch wire retainer 99-10010 3-Mech coin door only 99-10011 U.S. 25¢ coin return button assembly 99-10011 U.S. 25¢ coin return button assembly 99-10014 German 1 DM coin return button assembly 99-10015 German 2 DM coin return button assembly 99-10016 German 5 DM coin return button assembly 99-10017 Belgian 5 Fr coin return button assembly 99-10019 Japanese Y100 coin return button assembly 99-10010 Australian 20¢ coin return button assembly 99-10010 Lix 10 P coin return button assembly 99-10020 Lix 10 P coin return button assembly 99-10040 Colin inlet chute assembly 99-10041 Coin counter assembly 99-10042 Coin counter assembly 99-10042 Coin counter assembly 99-10040 Coin counter assembly 99-10040 Coin counter assembly 99-10040 Coin counter assembly	71-1201FCH	Swiss 1 Fr coin mechanism
71-120SFB German 5 DM coin mechanism 71-1210PE U.K. 10 P coin mechanism V.K. 1100UL V.K. 110UL	71-1201MG	
71-1205MG German 5 DM coin mechanism 71-1210PE U.K. 10 P coin mechanism 71-1220CA Australian 20° coin mechanism 71-12100LI Italian 100 Lire coin mechanism 71-12100LJ Japanese 7100 coin mechanism 71-1210VJ Japanese 7100 coin mechanism 72-HA1404C #4x¼° Slotted pan-head thread-rolling tri-fluted "Taptite" cadmium-plated screw 72-JA1405B #4x5/16° Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-9406S #4-40x3/8° Slotted truss-head steel machine screw 72-9903S #6-32x3/16° Slotted truss-head steel machine screw 75-915S #¼-20 Standard pattern cadmium-plated steel hex nut 75-918S #8-32 Standard pattern cadmium-plated steel hex nut 75-944S #4-40 Polymer self-locking steel hex nut 75-948S #3-32 Polymer self-locking steel hex nut 75-1408S #4-40x½° Slotted pan-head steel machine screw 75-1412S #4-40x¾° Slotted pan-head steel machine screw 78-10009 2-Mech coin door only 99-10010 3-Mech coin door only 109-10011 Inner panel 10.S. \$1.00 coin return button assembly 109-10012 U.S. \$1.00 coin return button assembly 109-10015 German 1 DM coin return button assembly 109-10016 German 5 DM coin return button assembly 109-10017 Belgian 5 Fr coin return button assembly 109-10019 Japanese 7100 coin return button assembly 109-10010 Australian 20° coin return button assembly 109-10021 Australian 20° coin return button assembly 109-10021 Australian 20° coin return button assembly 109-10021 Australian 20° coin return button assembly 109-10040 Coin intel chute assembly 10040 Coin switch assembly for U.S. 25° and Belgian 5 Fr coins (silver wire)	71-1202MG	German 2 DM coin mechanism
71-1210PE U.K. 10 P coin mechanism. 71-1220CA 71-1225CU 71-1210UL 1 Italian 100 Life coin mechanism 71-12100UL 1 Japanese Y100 coin mechanism 72-HA1404C #4x¼* Slotted pan-head thread-rolling tri-fluted "Taptite" cadmium-plated screw 72-9408S #4x4½* Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-9408S #4-40x3/8* Slotted truss-head steel machine screw 72-9603S #5-32x3/16* Slotted truss-head steel machine screw 75-918S #5-32 Standard pattern cadmium-plated steel hex nut 75-918S #4-40 Polymer self-locking steel hex nut 75-944S #4-40 Polymer self-locking steel hex nut 75-1408S #4-40x½* Slotted pan-head steel machine screw 75-1412S #4-40x¼* Slotted pan-head steel machine screw 75-1520B #1/4-20x1¼* Round-head steel machine screw #4-40x¼* Slotted pan-head steel hex nut 75-948S #5-32 Polymer self-locking steel hex nut 75-948S #5-32 Notited pan-head steel machine screw #4-40x¼* Slotted pan-head steel machine screw #9-1001 #4-40x¼* Slotted pan-head steel machine screw #4-40x½* Slotted pan-head steel machin	71-1205FB	Belgian 5 Fr coin mechanism
71-1220CA 71-1225CU 71-12100LI 71-1210CI 71-1210C	71-1205MG	German 5 DM coin mechanism
71-1225CU 71-12100U 71-12100U 71-1210OYJ 72-HA1404C 84x1/4" Slotted pan-head thread-rolling tri-fluted "Taptite" cadmium-plated screw 72-JA1405B 72-9406S 72-9406S 72-9503S 8-32-316" Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-9505S 86-32-316" Slotted truss-head steel machine screw 75-915S 87-9255S 87-925S 8	71-1210PE	U.K. 10 P coin mechanism.
### 17-12100U ### 71-12100YJ Japanese Y100 coin mechanism ### 72-HA1404C ### 5Iotted pan-head thread-rolling tri-fluted "Taptite" cadmium-plated screw #### 72-HA1405B ### 75 Siotted pan-head thread-rolling tri-fluted "Plastite" black screw ### 72-9406S ### 75 Siotted pan-head thread-rolling tri-fluted "Plastite" black screw ### 72-9406S ### 75 Siotted truss-head steel machine screw ### 75-918S ### 75 Standard pattern cadmium-plated steel hex nut ### 75-918S ### 75 Standard pattern cadmium-plated steel hex nut ### 75-948S ## 75 Polymer self-locking steel hex nut ### 75-948S ## 75 Siotted pan-head steel machine screw ### 75-1408S ## 75 Siotted pan-head steel machine screw ### 75-1412S ## 75 Siot	71-1220CA	Australian 20¢ coin mechanism
77-12100YJ 72-HA1404C #4x4x** Slotted pan-head thread-rolling tri-fluted "Pastite" cadmium-plated screw 72-JA1405B #4x5/16* Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-9406S #4x40x38** Slotted truss-head steel machine screw 72-9603S #6-32x3/16* Slotted truss-head steel machine screw 75-915S #4x20 Standard pattern cadmium-plated steel hex nut 75-918S #8-32 Standard pattern cadmium-plated steel hex nut 75-944S #4-40 Polymer self-locking steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-948S #4-40x 1x** Slotted pan-head steel machine screw 75-1412S #4-40x 1x** Slotted pan-head steel machine screw 75-5520B #1x-20x11x** Round-head square-neck steel bolt with black finish 99-10008 Switch wire retainer 99-10009 92-Mech coin door only 99-10011 Juner panel 99-10012 U.S. 25c coin return button assembly 99-10014 German 1 DM coin return button assembly 99-10015 German 2 DM coin return button assembly 99-10016 German 5 DM coin return button assembly 99-10017 Belgian 5 Fr coin return button assembly 99-10018 Swiss 1 Fr coin return button assembly 99-10019 Japanese Y100 coin return button assembly 99-100101 Australian 20c coin return button assembly 99-10020 U.K. 10 P coin return button assembly 99-10021 Australian 20c coin return button assembly 99-10021 Australian 20c coin return button assembly 99-10021 Ocin return button assembly 99-10040 Coin intet chute assembly Coin counter assembly Coin counter assembly Coin switch assembly Coin counter ssembly Ocin counter assembly Coin switch assembly Coin sellon sellon 5 Fr coins (silver wire)	71-1225CU	U.S. 25¢ coin mechanism
72-HA1404C #4x1/4" Slotted pan-head thread-rolling tri-fluted "Taptite" cadmium-plated screw 72-JA1405B #4x5/16" Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-9406S #4-40x3/8" Slotted truss-head steel machine screw 72-9603S #6-32x3/16" Slotted truss-head steel machine screw 75-915S #1/4-20 Standard pattern cadmium-plated steel hex nut 75-918S #8-32 Standard pattern cadmium-plated steel hex nut 75-944S #4-40 Polymer self-locking steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-948S #4-40x 1/4" Slotted pan-head steel machine screw 75-1412S #4-40x 1/4" Slotted pan-head steel machine screw 75-5520B #1/4-20x11/4" Round-head square-neck steel bolt with black finish 99-10008 Switch wire retainer 99-10009 2-Mech coin door only 99-10010 3-Mech coin door only 101-1011 Inner panel 10-102 U.S. 25¢ coin return button assembly 109-10012 U.S. 25¢ coin return button assembly 109-10014 German 1 DM coin return button assembly 109-10016 German 2 DM coin return button assembly 109-10017 Belgian 5 Fr coin return button assembly 109-10018 Swiss 1 Fr coin return button assembly 10019 Japanese Y100 coin return button assembly 10010 Australian 20¢ coin return button assembly 10010 Japanese Y100 coin return button assembly 10011 Japanese Y100 coin return button assembly 10012 Australian 20¢ coin return button assembly 10013 Like Coin counter assembly 10014 Coin counter assembly 10015 Coin seturn button assembly 10016 Coin inter chute assembly 10017 Coin counter assembly 10018 Coin counter assembly 10019 Coin counter assembly 10020 Coin seturn button assembly 10021 Coin counter assembly 10031 Coin counter assembly 10041 Coin counter assembly 10042 Coin switch assembly for U.S. 25¢ and Belgian 5 Fr coins (silver wire)	71-12100LJ	italian 100 Lire coin mechanism
72-HA1404C #4x'/* Slotted pan-head thread-rolling tri-fluted "Taptite" cadmium-plated screw 72-JA1405B #4x5/16" Slotted pan-head thread-rolling tri-fluted "Plastite" black screw 72-9406S #4-40x3/8" Slotted truss-head steel machine screw 72-9603S #6-32x3/16" Slotted truss-head steel machine screw 75-915S #/4-20 Standard pattern cadmium-plated steel hex nut 75-918S #8-32 Standard pattern cadmium-plated steel hex nut 75-944S #4-40 Polymer self-locking steel hex nut 75-1408S #4-40x /* Slotted pan-head steel machine screw 75-1412S #4-40x /* Slotted pan-head steel machine screw 75-1520B #/4-20x11/4" Round-head square-neck steel bolt with black finish 99-10008 Switch wire retainer 99-10009 2-Mech coin door only 99-10010 3-Mech coin door only 99-10011 Inner panel 99-10012 U.S. 25° coin return button assembly 99-10014 German 1 DM coin return button assembly 99-10016 German 2 DM coin return button assembly 99-10017 Belgian 5 Fr coin return button assembly 99-10018 Swiss 1 Fr coin return button assembly 99-10019 Japanese Y100 coin return button assembly 99-10010 Australian 20° coin return button assembly 99-10020 U.K. 10 P coin return button assembly 99-10021 Australian 20° coin return button assembly 99-10021 Coin counter assembly 99-10022 Italian 100 Lire coin return button assembly 99-10042 Coin switch assembly 99-10041 Coin counter assembly 99-10042 Coin switch assembly Fr coins (silver wire)		Japanese Y100 coin mechanism
72-9406S #4-40x38" Slotted truss-head steel machine screw 72-9603S #6-32x3/16" Slotted truss-head steel machine screw 75-915S #/4-20 Standard pattern cadmium-plated steel hex nut 75-918S #8-32 Standard pattern cadmium-plated steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-140S #4-40x½" Slotted pan-head steel machine screw 75-1412S #4-40x½" Slotted pan-head steel machine screw 75-1412S #4-40x½" Round-head square-neck steel bolt with black finish 99-10008 Switch wire retainer 99-10009 2-Mech coin door only 99-10010 3-Mech coin door only 99-10011 Inner panel 99-10012 U.S. 25° coin return button assembly 99-10014 German 1 DM coin return button assembly 99-10015 German 2 DM coin return button assembly 99-10016 German 5 DM coin return button assembly 99-10017 Belgian 5 Fr coin return button assembly 99-10019 Japanese Y100 coin return button assembly 99-10019 Japanese Y100 coin return button assembly 99-10020 U.K. 10 P coin return button assembly 99-10021 Australian 20° coin return button assembly 99-10022 Italian 100 Lire coin return button assembly 99-10042 Coin switch assembly for U.S. 25° and Belgian 5 Fr coins (silver wire)		
72-9406S #4-40x38" Slotted truss-head steel machine screw 72-9603S #6-32x3/16" Slotted truss-head steel machine screw 75-915S #/4-20 Standard pattern cadmium-plated steel hex nut 75-918S #8-32 Standard pattern cadmium-plated steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-140S #4-40x½" Slotted pan-head steel machine screw 75-1412S #4-40x½" Slotted pan-head steel machine screw 75-1412S #4-40x½" Round-head square-neck steel bolt with black finish 99-10008 Switch wire retainer 99-10009 2-Mech coin door only 99-10010 3-Mech coin door only 99-10011 Inner panel 99-10012 U.S. 25° coin return button assembly 99-10014 German 1 DM coin return button assembly 99-10015 German 2 DM coin return button assembly 99-10016 German 5 DM coin return button assembly 99-10017 Belgian 5 Fr coin return button assembly 99-10019 Japanese Y100 coin return button assembly 99-10019 Japanese Y100 coin return button assembly 99-10020 U.K. 10 P coin return button assembly 99-10021 Australian 20° coin return button assembly 99-10022 Italian 100 Lire coin return button assembly 99-10042 Coin switch assembly for U.S. 25° and Belgian 5 Fr coins (silver wire)	72-JA1405B	#4x5/16" Siotted pan-head thread-rolling tri-fluted "Plastite" black screw
#6-32x3/16" Slotted truss-head steel machine screw 75-918S #/4-20 Standard pattern cadmium-plated steel hex nut 75-918S #8-32 Standard pattern cadmium-plated steel hex nut 75-944S #8-32 Polymer self-locking steel hex nut 75-948S #8-32 Polymer self-locking steel hex nut 75-1408S #4-40x½" Slotted pan-head steel machine screw 75-1412S #4-40x¾" Slotted pan-head steel machine screw 75-5520B #1/4-20x1¼" Round-head square-neck steel bolt with black finish 99-10008 Switch wire retainer 99-10009 2-Mech coin door only 99-10010 3-Mech coin door only 99-10011 Inner panel 99-10012 U.S. 25° coin return button assembly 99-10014 German 1 DM coin return button assembly 99-10015 German 2 DM coin return button assembly 99-10016 German 5 DM coin return button assembly 99-10017 Belgian 5 Fr coin return button assembly 99-10018 Swiss 1 Fr coin return button assembly 99-10019 Japanese Y100 coin return button assembly 99-10020 U.K. 10 P coin return button assembly 99-10021 Australian 20° coin return button assembly 99-10022 Italian 100 Lire coin return button assembly 99-10040 Coln inlet chute assembly 99-10041 Coin counter assembly 99-10042 Coln switch assembly for U.S. 25° and Belgian 5 Fr coins (silver wire)		
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99-10041 Coin counter assembly 99-10042 Coin switch assembly for U.S. 25¢ and Belgian 5 Fr coins (silver wire)	99-10040	Coin inlet chute assembly
99-10042 Coin switch assembly for U.S. 25¢ and Belgian 5 Fr coins (silver wire)		
99-10044 Coin switch assembly for U.S. \$1.00, German 2 DM, and Italian 100 Lire coins (gold wire)		

Figure 23 New Coin Door, continued Parts List

Part No.	Description
99-10045	Coin switch assembly for German 5 DM, U.K. 10 P, and Australian 20¢ coins (green wire)
99-10047	Lockout coil assembly
99-10048	Coin door harness assembly
99-10049	Locking arm assembly
99-10051	Coin door frame
00 10001	
99-10052	Coin return lever
99-10054	Coin button housing
99-10055	Coin return button cover for Japanese Y100 coin
99-10056	Coin return button cover for German 1 DM and Swiss 1 Fr coins
99-10057	Coin return button cover for U.S. 25¢ and Belgian 5 Fr coins
99-10058	Coin return button cover for LLS \$1.00 Gorman 2.0M and Italian 100 Lira coins
99-10059	Coin return button cover for U.S. \$1.00, German 2 DM, and Italian 100 Lire coins
	Coin return button cover for German 5 DM, U.K. 10 P, and Australian 20¢ coins
99-10061	Coin return bezel
99-10062	Coin return button
99-10063	Right half of coin inlet chute
99-10064	Left half of coin inlet chute
99-10065	Coin return box
99-10066	Coin return cover
99-10070	U.S. 25¢ price plate
99-10071	Slam switch assembly
33-10071	oran orange addition
99-10073	Test switch decal
99-10074	Lock assembly
99-10075	Black switch wire—for German 1DM, Swiss 1Fr and Japanese Y100 coins
99-10076	Silver switch wire—for U.S. 25¢ and Belgian 5Fr coins
99-10077	Gold switch wire—for U.S. \$1.00, German 2DM and Italian 100 Lire coins
99-10078	Green switch wire—for German 5DM, U.K. 10P and Australian 20¢ coins
99-10080	Miniature bayonet-base lamp socket
99-10081	Wire key holder
99-10082	Switch cover
99-10083	U.S. \$1.00 price plate
33-1000	C.C. \$1.00 pines plate
99-10084	German 1 DM price plate
99-10085	German 2 DM price plate
99-10086	German 5 DM price plate
99-10087	Belgian 5 Fr price plate
99-10088	Swiss 1 Fr price plate
00.10090	Innances V100 price plate
99-10089 99-10090	Japanese Y100 price plate
	U.K. 10 P price plate
99-10091 99-10092	Australian 20¢ price plate
99-10094	Italian 100 Lire price plate Fish paper insulation
33-10034	i isti papai ilisulation
99-10095	Toggle switch
99-10096	"U" type fastener
99-10097	Fish paper insulation
99-10101	Coin inlet chute sub-assembly
99-10102	Switch and lockout coil bracket sub-assembly
00.10103	lance appel with layers sub-secombly
99-10103 99-10104	Inner panel with levers sub-assembly
>r>+-1()1()Δ	Anti-penny-flip bar retainer
99-10105	Anti-penny-flip bar
99-10105 99-10107 99-10108	U.S. 50¢ coin return button assembly U.S. 50¢ price plate—for two quarters



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