

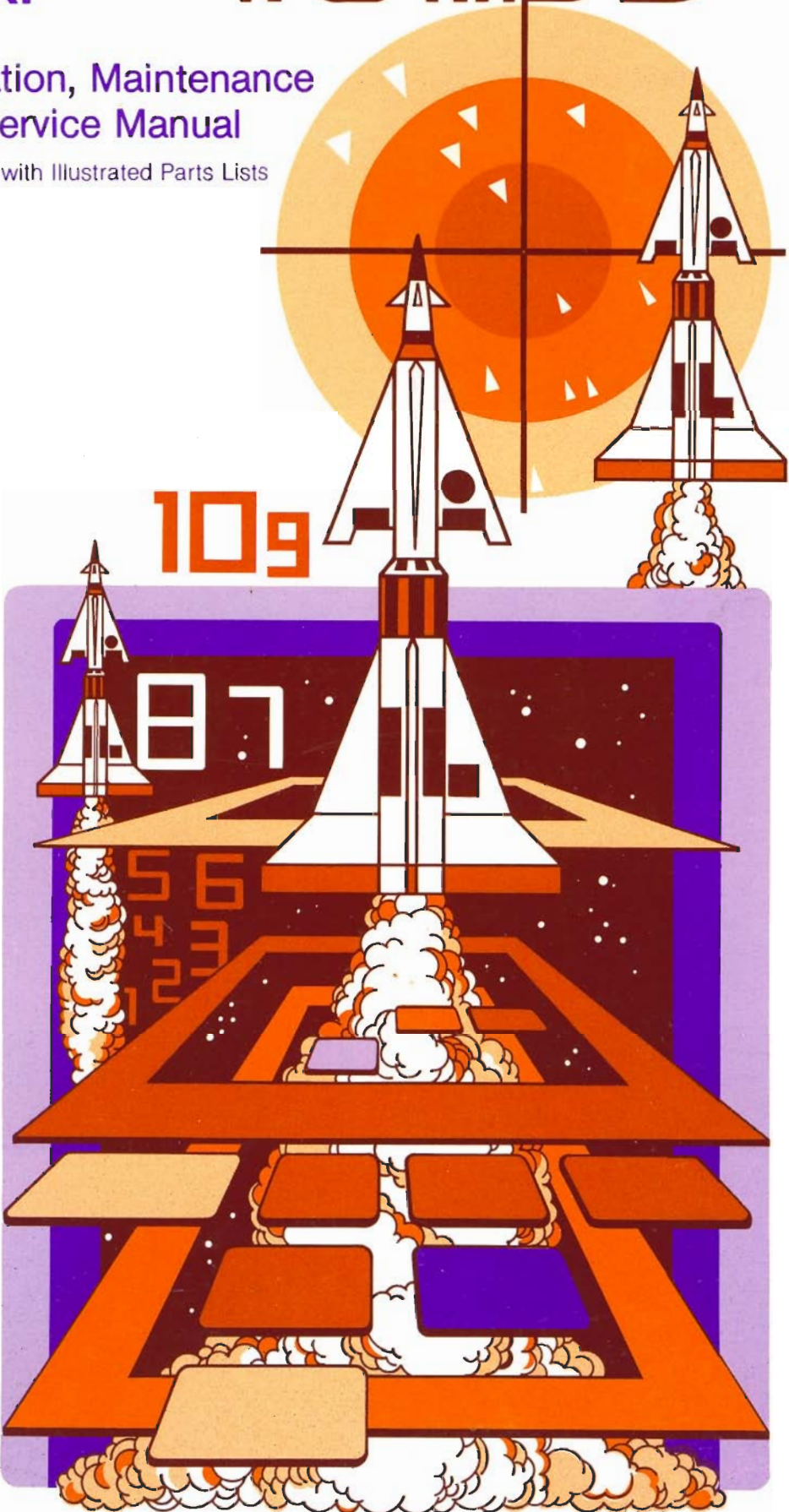
1980



MISILE

Operation, Maintenance
and Service Manual

Complete with Illustrated Parts Lists



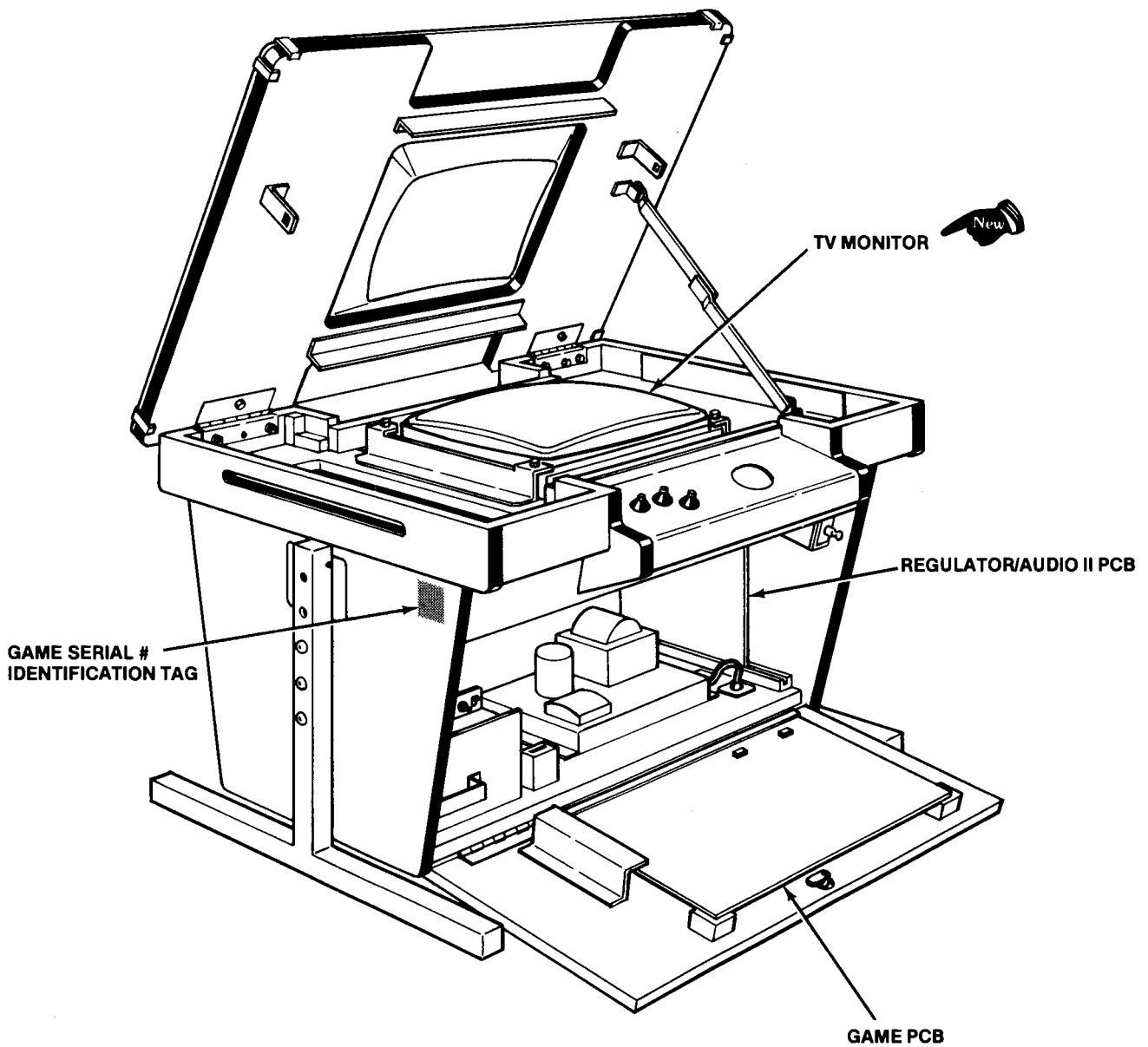
COCKTAIL

COMMANCHE

TM

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.

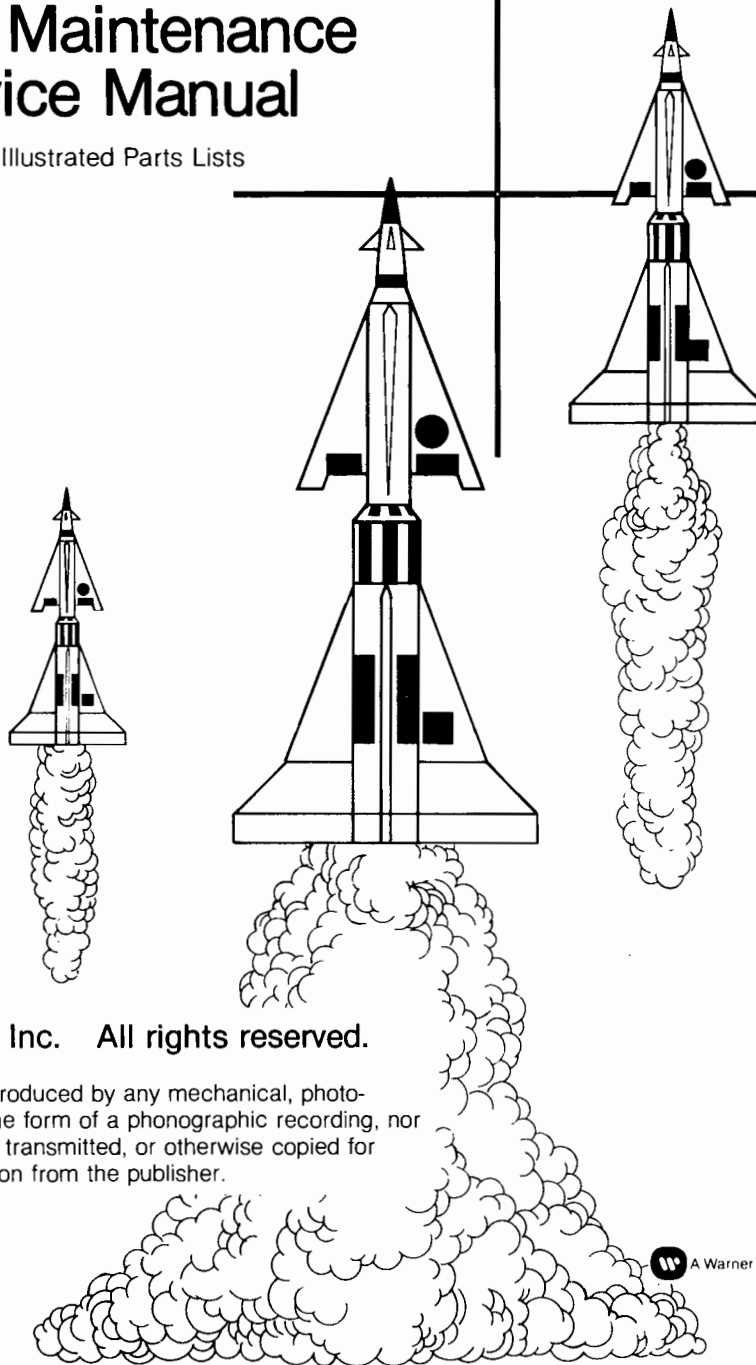


● **COCKTAIL**

MISSILE COMMAND™

**Operation, Maintenance
and Service Manual**

Complete with Illustrated Parts Lists



Published by:
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 A Warner Communications Company

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NOTE


If reading through this manual does not lead to solving a certain maintenance problem, call Tele-Help™ 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.


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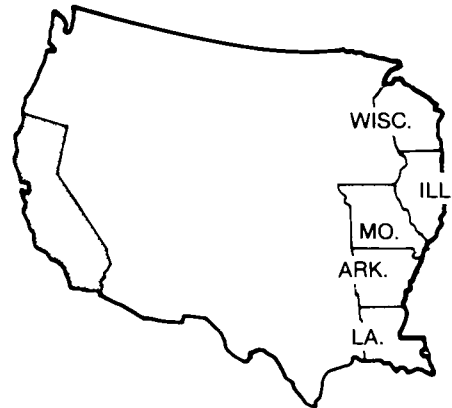
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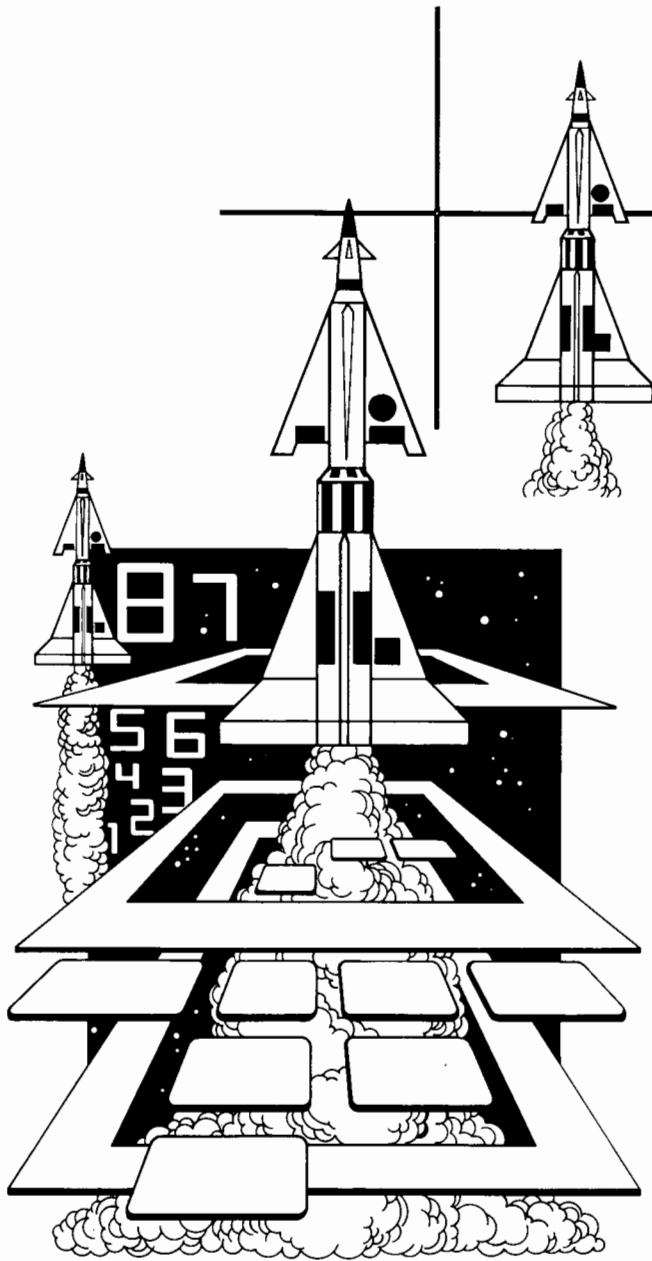
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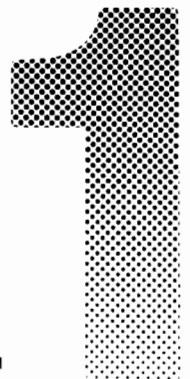


A. New Parts

The Cocktail Missile Command™ game has four 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:

- 14-Inch Color TV Monitor. Made to Atari specifications by either Matsushita or Sanyo, it has high reliability, a compact size, and should maintain its color convergence for a long period of time.
- Mini-Trak Ball™ Assembly. The widely used Trak Ball Assembly has been redesigned and scaled down for use in Atari's compact cocktail-table and Cabaret games.

Location Setup



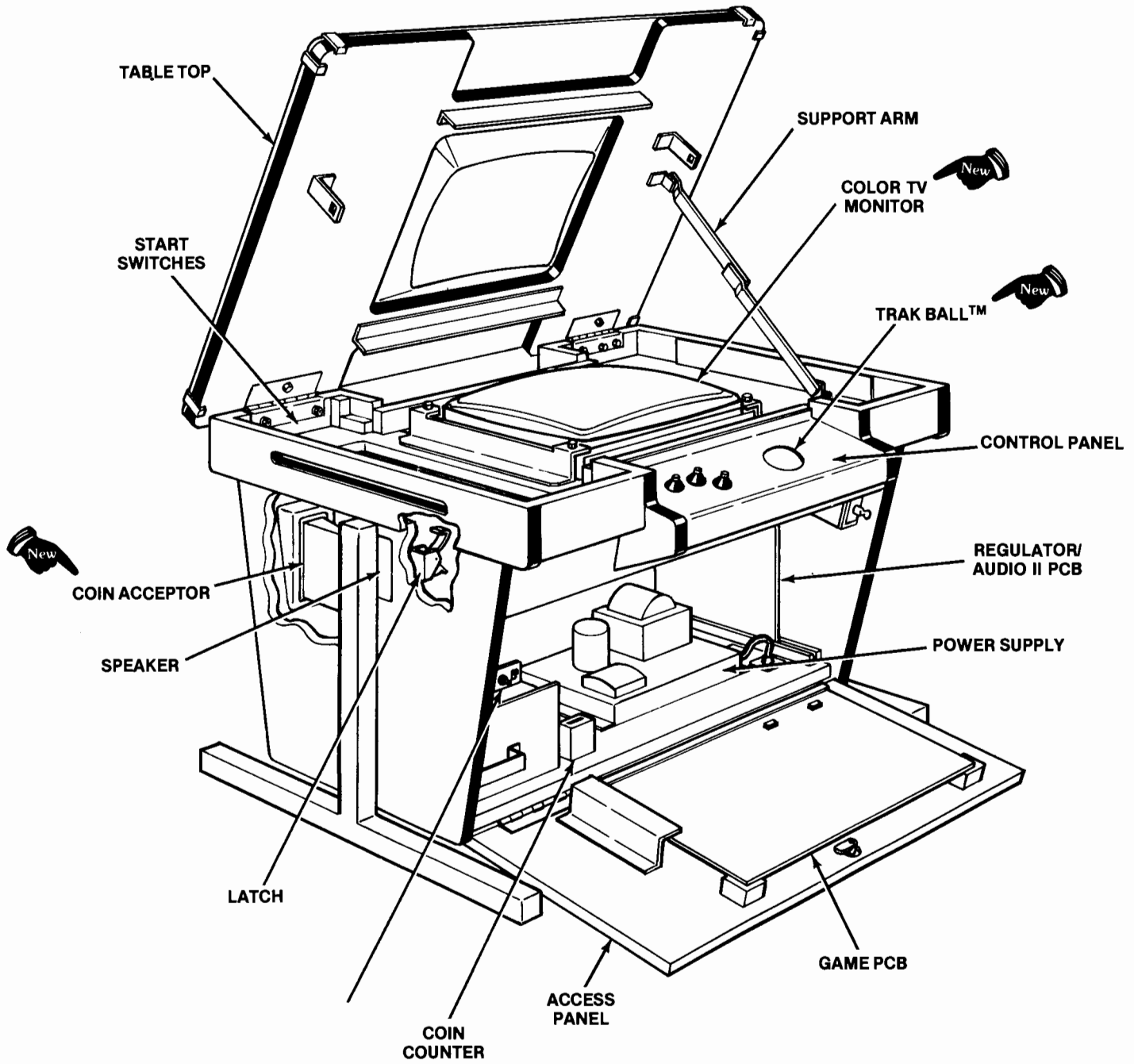


Figure 1 Overview of Game

- **Cocktail Table Cabinet.** This new cabinet design allows for adjustable height and easy access for servicing. The tempered-glass top eliminates the possibility of spilled liquids entering into the cabinet.
- **Coin Acceptor.** This is one of the first uses of this fixed-mounting coin acceptor.

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 in the page margin:



B. Opening the Game Cabinet

Refer to Figure 1 and do the following:



1. Unlock and open the access panel.
2. Reach inside and unfasten the hook-type latch on each end of the cabinet.
3. Lift the table top until the support arm locks into place.

The inside of the cabinet, excluding the two control panels, is fully accessible for servicing.

To close the cabinet, do the following:

1. Stand on the access-panel side of the cabinet and grasp the table top with your left hand.
2. With the right hand, press the button at the middle of the support arm and pull the support arm toward you.
3. **Gently** lower the table top to the closed position.
4. Reach inside the access panel and lock the two latches.
5. Close and lock the 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.

NOTE

Do not plug the game in yet!

1. Examine the exterior of the game cabinet for dents, chips, or broken parts.
2. Unlock and open the access panel of the cabinet and inspect the interior of the game as follows:
 - 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.**
 - Check that all plug-in integrated circuits on the game PCB are firmly seated in their sockets.



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!

- 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 subassemblies such as the power supply, control panel and TV monitor for secure mounting.

D. Game Installation

Figure 2 Installation Requirements

Power	100 watts
Temperature	0 to 38° C (32 to 100°F)
Humidity	Not over 95% relative
Space Required	60 × 81 cm (23¾ × 31¾ in.)
Game Height	61 to 71 cm (24 to 28½ in.)

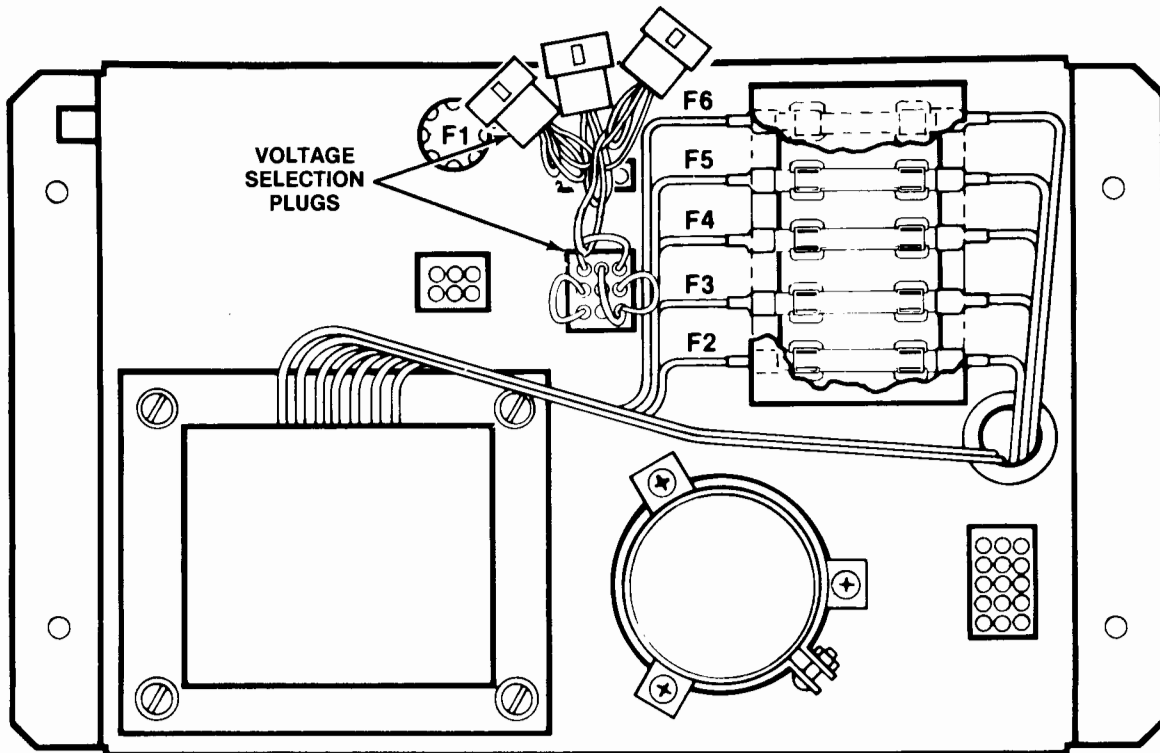


Figure 3 Power Supply

1. 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

2. Interlock and Power On/Off Switches

To minimize the hazard of electrical shock while working on the inside of the game cabinet, an inter-

lock switch has been installed (see Figure 4). This switch removes all AC line power from the game circuitry when the access panel is opened.

Check for proper operation of the interlock switch by doing the following:

- Unlock and open the access panel.
- Plug the AC line power cord into an AC outlet.
- Close the access panel.
- Set the power on/off switch to the on position. Within approximately 30 seconds the TV monitor should display a picture.
- Slowly open the rear access panel. The TV monitor picture should disappear when the panel is opened approximately 2.5 cm (1 inch). Close and lock the access panel.

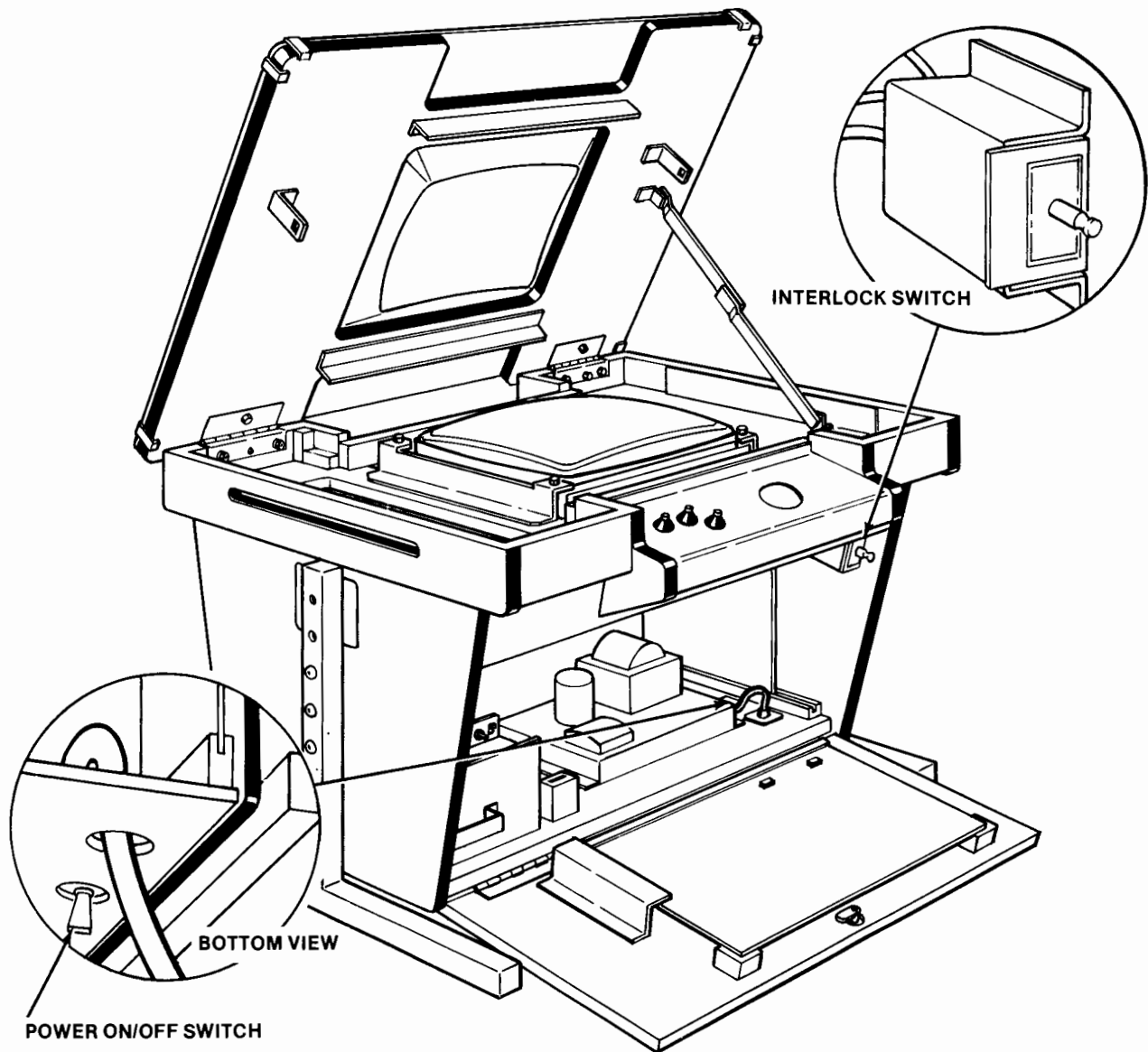



Figure 4 Interlock and Power On/Off Switches

E. Adjusting the Table Legs

 This cocktail-table game is designed for three adjustable heights, from 61 to 71 cm. The table may be set at 61, 66, or 71 cm. To adjust the table height, refer to Figure 5.

NOTE

To ensure cabinet strength, you **must** use all three bolts when attaching table legs. If you use only two bolts, you may break the cabinet wall when sliding the cabinet across the floor.

Before removing the table legs, *be sure* to support the game on its bottom surface with books or a tool chest, etc. An assistant can also hold one end of the game. Then change the position of the legs. *Atari does not recommend tilting the game up and standing it on its end!*

USE ALL THREE BOLTS
WHEN ATTACHING
TABLE LEGS!

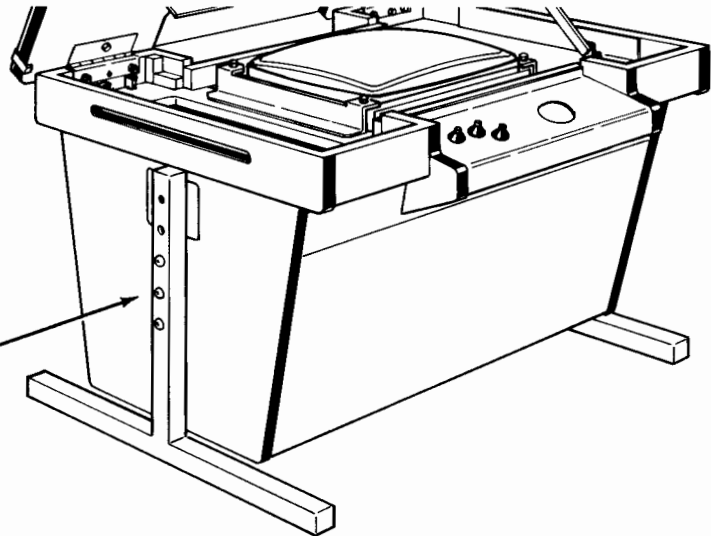


Figure 5 Adjusting the Table Legs

F. 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 7.

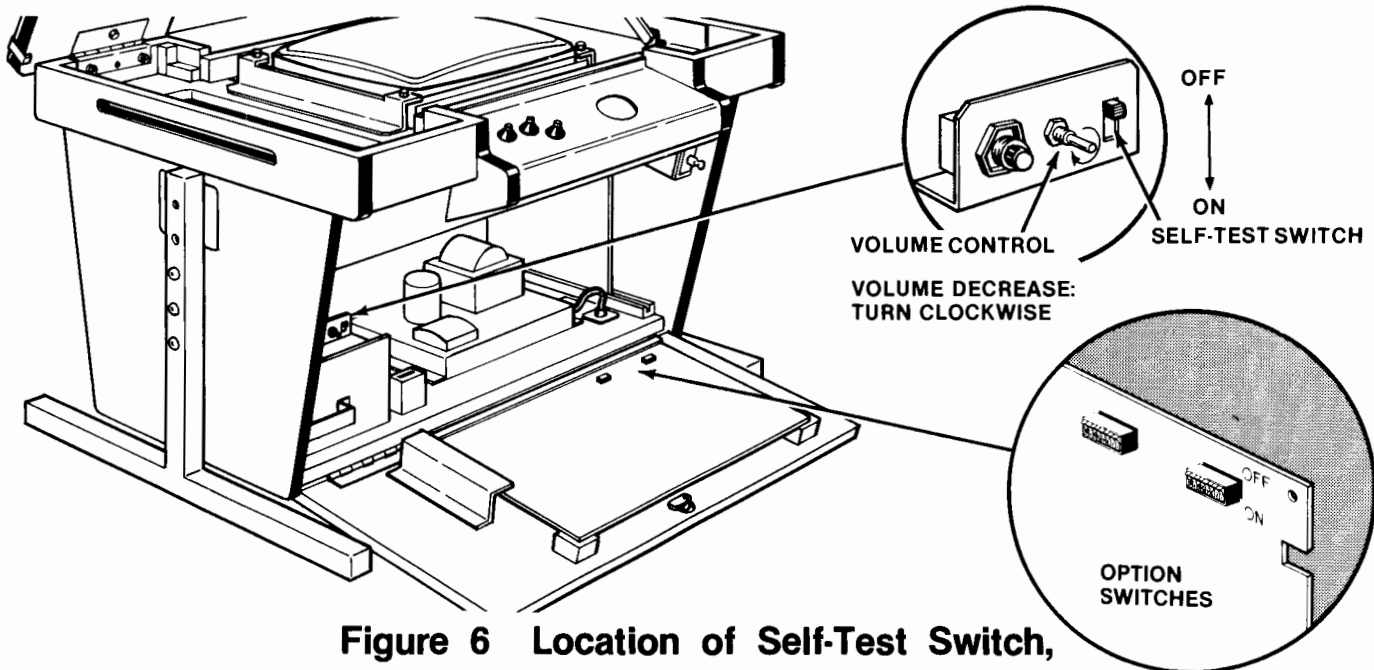


Figure 6 Location of Self-Test Switch, Volume Control and Option Switches

Figure 7 Self-Test Procedure

Instruction	Result if Test Passes	Result if Test Fails
<p>1. Set self-test switch to on position (see Figure 5). Note: entering self-test will set the HIGH SCORE TODAY display to 7500.</p>	<p>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:</p> <p style="text-align: center;"> ROM OK MAP OK RAM OK + </p> <p>...plus the options display—see Figure 8 for explanation. Both LED start buttons will also be lighted.</p>	<p>A continuous raspy tone means V BLANK is malfunctioning. Self-test will not continue.</p> <p>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.</p> <p>ROM failure is indicated by BAD ROM; see note 2 below.</p> <p>BAD MAP means bit-mapping hardware has failed.</p> <p>BAD CHIP means custom audio I/O chip at location P8/9 has failed.</p>
<p>2. Roll the player 1 Trak Ball control in all directions.</p> <p>Press any player 1 fire switch and screen will flip 180°. Roll player 2 Trak Ball in all directions.</p>	<p>The + moves around on the screen in directions corresponding to Trak Ball control—up to an invisible border along the screen’s edges.</p>	<p>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.</p>
<p>3. Press the following switches:</p> <ul style="list-style-type: none"> ● Coin switch trip wires ● Slam switch ● All six fire switches ● Player start buttons 	<p>A sound is heard as each switch is pressed. The background color also changes.</p>	<p>No sound or color changes are produced when pressing one of these switches: indicates a bad switch, loose harness wires, or loose connector.</p>
<p>4. Set self-test switch to off position.</p>		

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

<i>High beep in series of 8 tones:</i>	<i>Bad chip at location:</i>
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.

Figure 8 Option Switch Settings

To change toggle positions on the switch assemblies, 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.

Toggle Settings of 8-Toggle Switch on Game PCB (at R10)								Option
8	7	6	5	4	3	2	1	
						On	On	1 coin* for 1 play
						Off	On	Free play
						On	Off	2 coins* for 1 play \$
						Off	Off	1 coin* for 2 plays
Not Used			---	---	---			Switch positions are irrelevant for Cocktail Missile Command
	On	On						English language
	On	Off						French language
	Off	On						German language
	Off	Off						Spanish language

Toggle Settings of 8-Toggle Switch on Game PCB (at R8)								Option
8	7	6	5	4	3	2	1	
						Off	Off	Game starts with 7 cities
						On	On	Game starts with 6 cities \$
						Off	On	Game starts with 5 cities
						On	Off	Game starts with 4 cities
					On			No bonus credit
					Off			1 bonus credit for 4 successive coins \$
Not Used				---				Switch position is irrelevant for Cocktail Missile Command
	Off	Off	On					Bonus city every 8,000 points
	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

The format of the self-test display is as follows:

Bonus city every _____ points (line disappears if no bonus city is chosen)

+

Coinage setting

4, 5, 6, or 7 cities (always in English)

A B C D

A, B, C: Ignore these three displays for Cocktail Missile Command.
D is an "X" if switch 3 (of R8) is off.

An example of an actual option switch display is as follows:

BONUS CITY EVERY 10,000 POINTS

+

2 COINS 1 PLAY

6 CITIES

1 1 X

* In the U.S., a "coin" is defined as 25¢.

\$ Manufacturer's suggested settings

G. Game Play

Missile Command™ is a 1- or 2-player game with a color monitor. The game depicts an Armageddon-style war in which players defend their 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 almost always can 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- or two-player game. It ends when the 1 PLAYER START or 2 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 either 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 '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, the colorful buildings 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.

If the 2 PLAYER START pushbutton was pressed, at the beginning of each new wave of missiles the screen image will invert or turn 180° so the players can see it correctly. A flashing arrow indicates which score applies to the current player.

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.

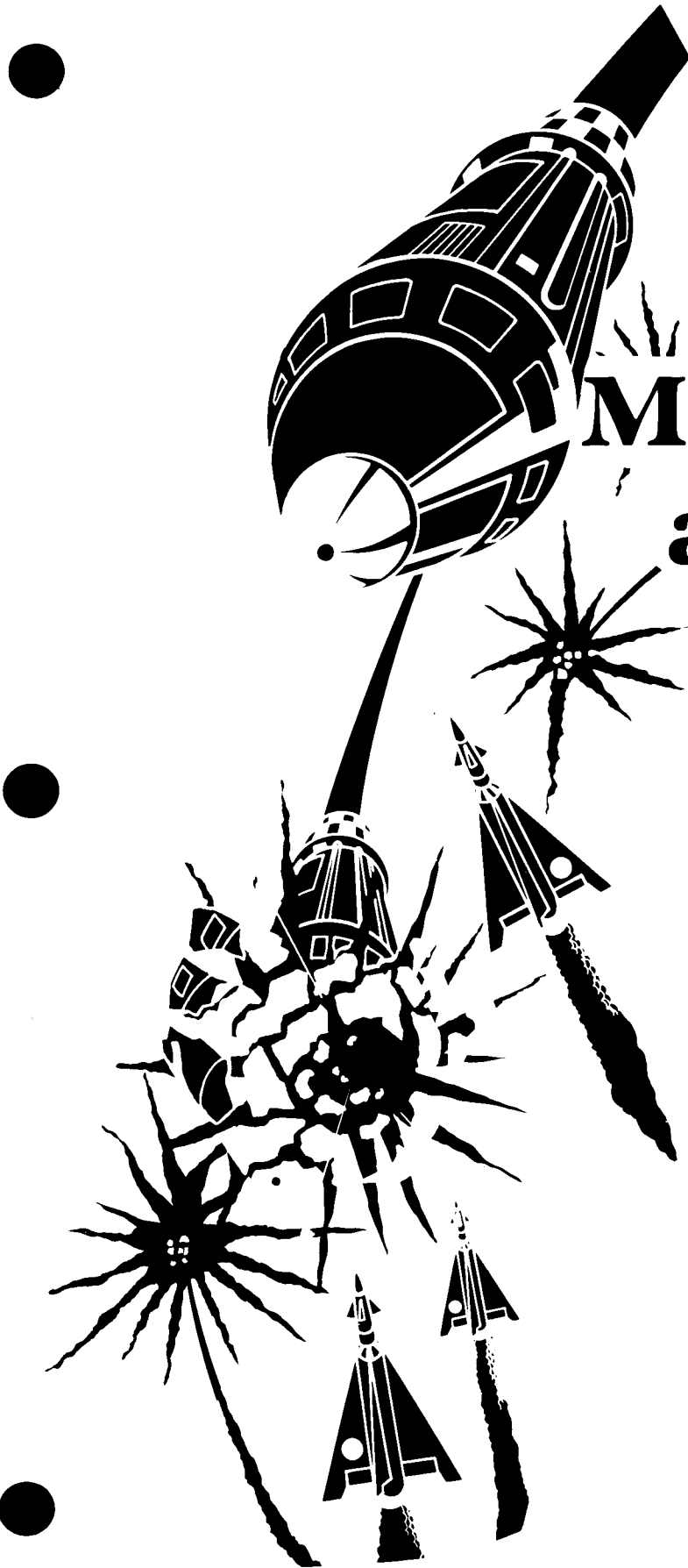
The general approach for getting high point scores is fairly quickly discovered: try to launch your ABMs when the enemy missiles have just appeared at the top of the screen. Then they are clustered together, where one ABM can usually destroy several enemy missiles.

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 Mini-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.







Maintenance and Repair

All games require certain maintenance to keep them in good working order. Clean, properly maintained games will attract players and earn more profits.

The most important maintenance item is running the self-test every time you collect money from the cash box. Just looking at a game will not tell you if Mini-Trak Ball™ controls or light-emitting-diode switches are broken, or if LEDs have burned out. The self-test will inform you of any of these possible problems.



Second, you should regularly clean the outside of the game and the coin mechanisms. In addition, you will need to regularly lubricate the Mini-Trak Ball control: for details see this chapter.



A. Cleaning

The exterior of the game cabinet and the metal and glass 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. The large monitor shield is made of tempered glass and should be scratch-resistant: if cleaned without abrasive substances, you should hardly ever have to replace it.

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. For the monitor fuse data, see the Matsushita TV monitor manual, TM-153, or the Sanyo TV monitor manual, TM-157.

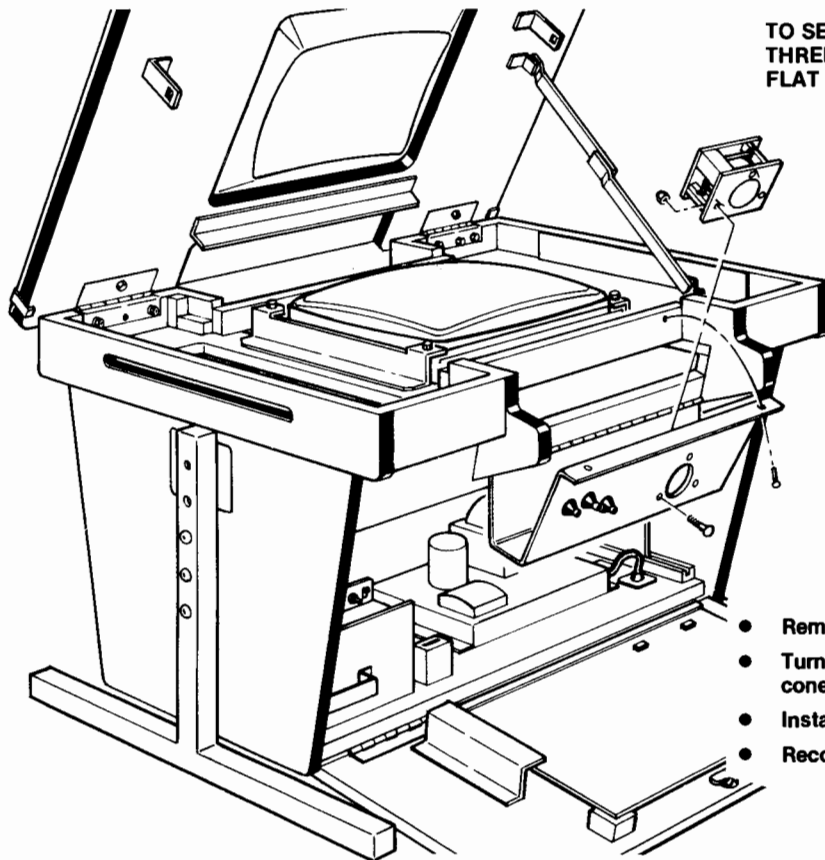
C. Opening the Control Panel

Prior to repairing or replacing any switch or the Mini-Trak Ball™ on the control panel, unplug the game. First open the game top. Then, to open the control panel, simply unscrew the two Allen-head screws at the top edge of the control panel. Once these screws are removed, the control panel will tilt towards you.

1. LED Switch Replacement

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 9.

1. Remove the wires from the suspected switch.
2. Set multimeter to ohms scale. Set ohms scale to $R \times 1$, then zero the meter.



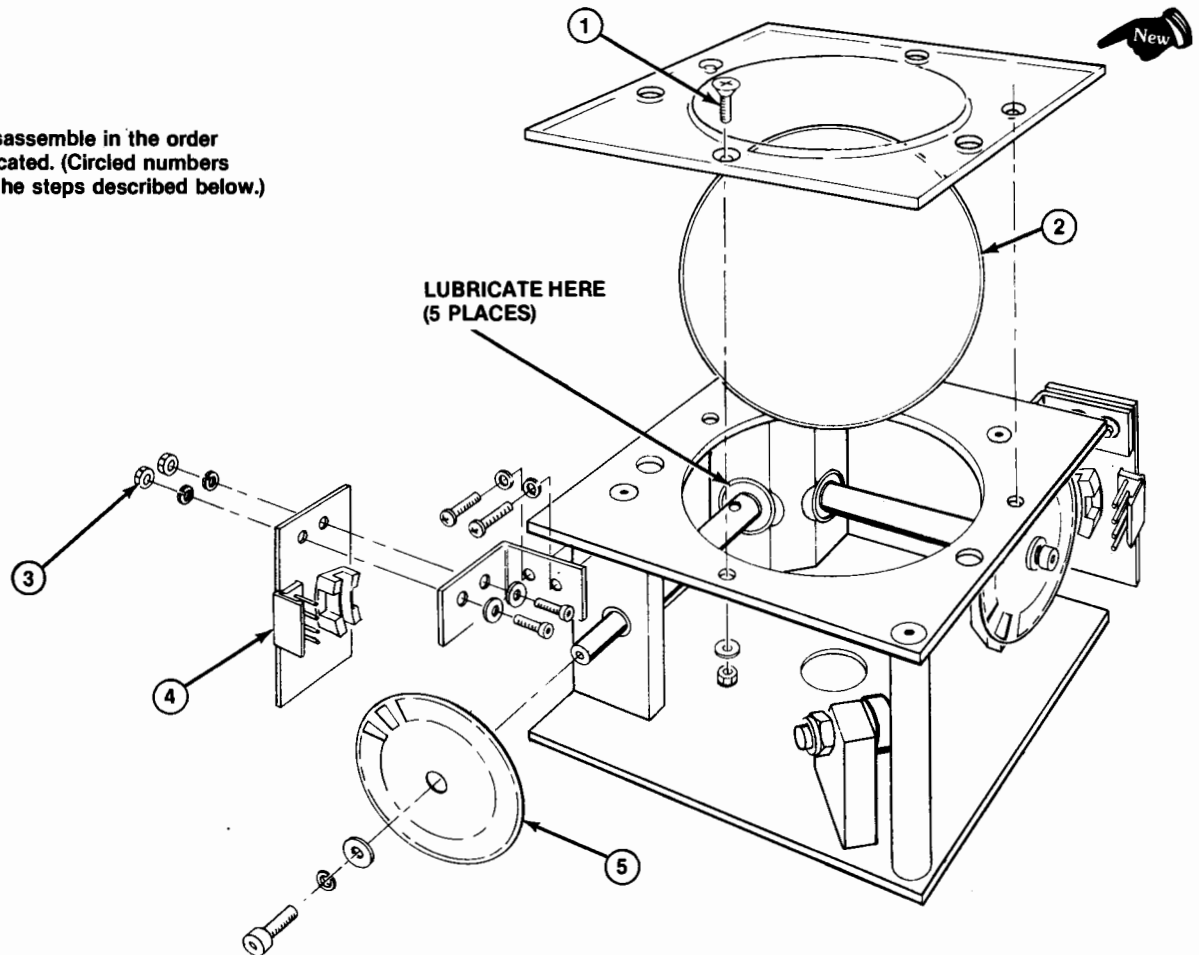
TO SERVICE OR REPLACE TRAK BALL ASSY., REMOVE THREE BLACK SCREWS, SELF-LOCKING HEX NUTS AND FLAT WASHERS.

To remove LED switch:

- Remove all wires from the faulty switch.
- Turn the switch counterclockwise while holding the black cone-shaped bushing on the outside of the control panel.
- Install a new switch using the reverse procedure.
- Reconnect the harness wires.

Figure 9 Opening the Control Panel and Replacing Switches

Disassemble in the order indicated. (Circled numbers match the steps described below.)



Ball Replacement

1. First remove the entire Mini-Trak Ball assembly from the control panel as shown in Figure 9. Now locate the three counter-sunk machine screws in the acrylic top plate; remove these screws, flat washers, and lock nuts. (When the assembly is installed, these three screws are right underneath the control panel.)
2. Lift off the acrylic top plate; remove and replace the ball.

Coupler PCB Replacement

3. Unplug the red connector on the coupler PCB. Remove the two socket-head machine screws, flat and lock washers, and hex nuts from the coupler PCB.
4. Remove the coupler PCB.
5. When replacing this PCB assembly, be certain that the black metal encoding wheel turns freely between the two halves of the red photosensor device.

Figure 10 Mini-Trak Ball™ Maintenance and Repair

2. Mini-Trak Ball™ Maintenance and Repair

3. Connect multimeter leads to appropriate LED switch contacts (see Figure 9 for designation of switch contacts).
4. Check contacts (push and release the switch button) for closed and open continuity.
5. If the contacts do not operate sharply or always remain closed or open, then replace the LED switch as outlined in the figure.

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 floor of the cabinet, next to the coin box. Use **only 2 drops** of 3-in-One® oil in each of the ball bearings. (Each Mini-Trak Ball™ control has five bearings.)

For further instructions on how to replace the ball or either coupler PCB, see Figure 10.

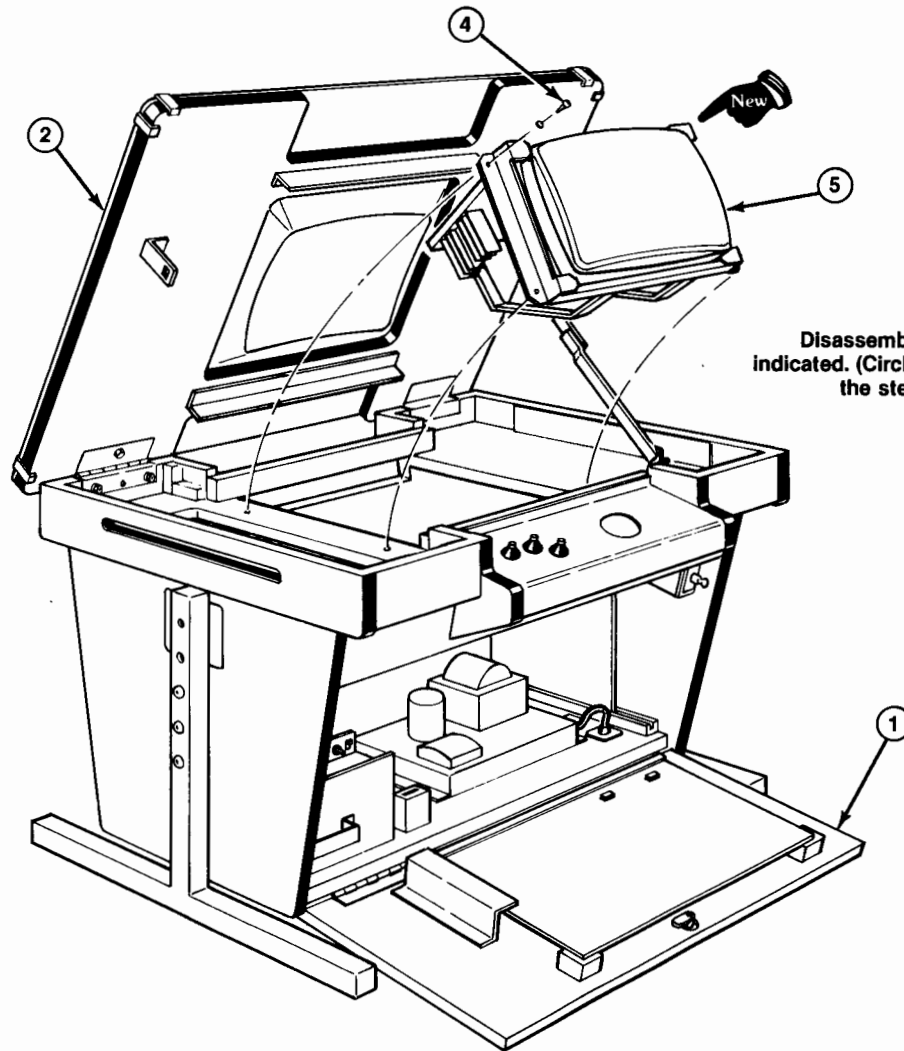
D. TV Monitor Removal

WARNING

High voltages may exist in any television monitor, even with power disconnected. Use extreme caution and do not touch electrical parts of the TV yoke area with your hands or with metal objects in your hands! If you drop the TV monitor and it breaks, **it will implode!** Shattered glass and the yoke can fly 6 feet or more from the implosion. Use care when replacing any TV monitor.

If you should need to remove the color TV monitor, follow steps 1 thru 5 below. Refer also to Figure 11.

1. Unlock and open the access panel.
2. Unfasten and open the table top.
3. Locate the 12-pin Molex connector between the game PCB and the TV monitor. Unplug this connector.
4. Locate the four Phillips-head screws (one at each corner of the TV monitor screen) that attach the TV monitor to the cabinet. Remove these screws.
5. Carefully lift the TV monitor chassis up and out of the cabinet.



Disassemble in the order indicated. (Circled numbers match the steps above.)

Figure 11 TV Monitor Removal

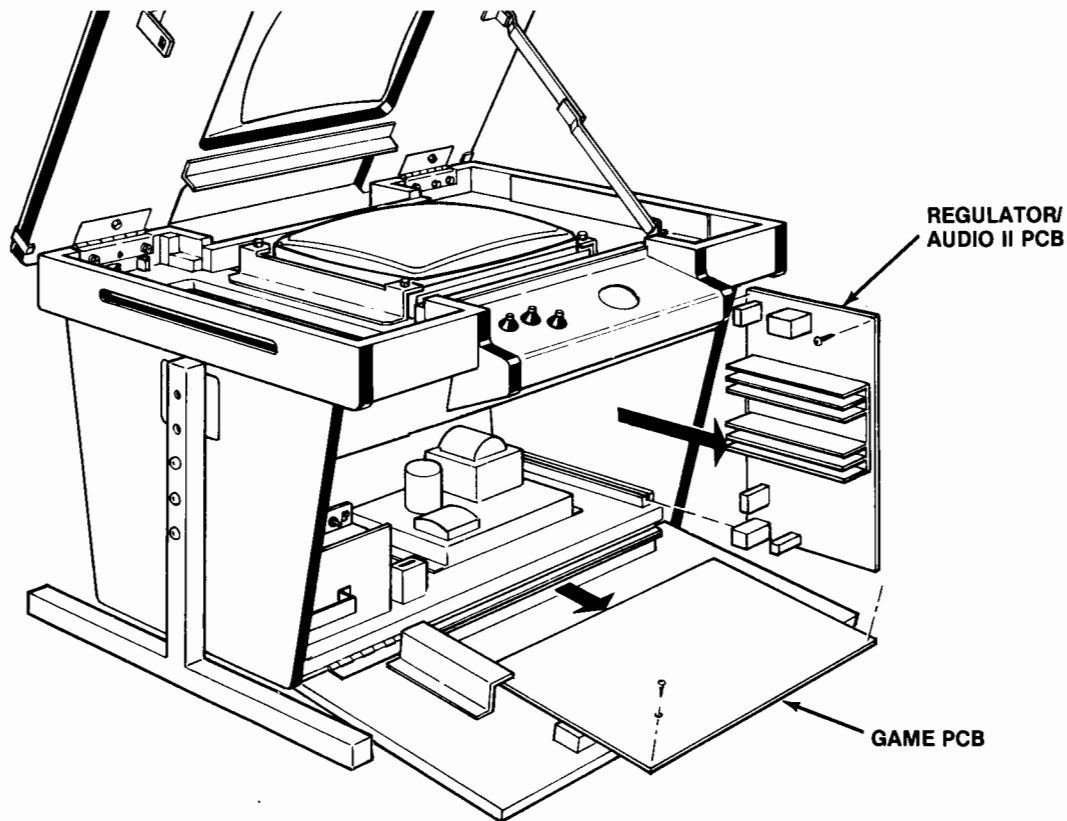


Figure 12 Game and Regulator/Audio II PCB Replacement

E. Printed-Circuit Board Replacement

You may wish to remove the game printed circuit board (PCB) or the Regulator/Audio II PCB for service or inspection. To do this, refer to Figure 12 and proceed as follows:

1. Game PCB Removal

- Unlock and open the access panel.
- Remove the 44-pin edge connector from the right side of the game PCB.
- Locate the Phillips-head screws that extend through the PCB and into the two wood blocks at the lock side of the access panel. Remove these two screws.
- Remove the PCB from the access panel by lifting up and pulling it out of the plastic PCB re-

tainer at the hinge side of the access panel.

- 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 wall of the cabinet by pulling it up and out of the wood slot.

F. 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 explains the functions of the circuits and defines inputs and outputs.

Atari's Cocktail 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 mechanism. These inputs are processed by the game PCB and output to the TV monitor, Regulator/Audio II PCB, loudspeakers, 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 speakers and is controlled by the volume control, mounted on the bracket inside the game.

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.

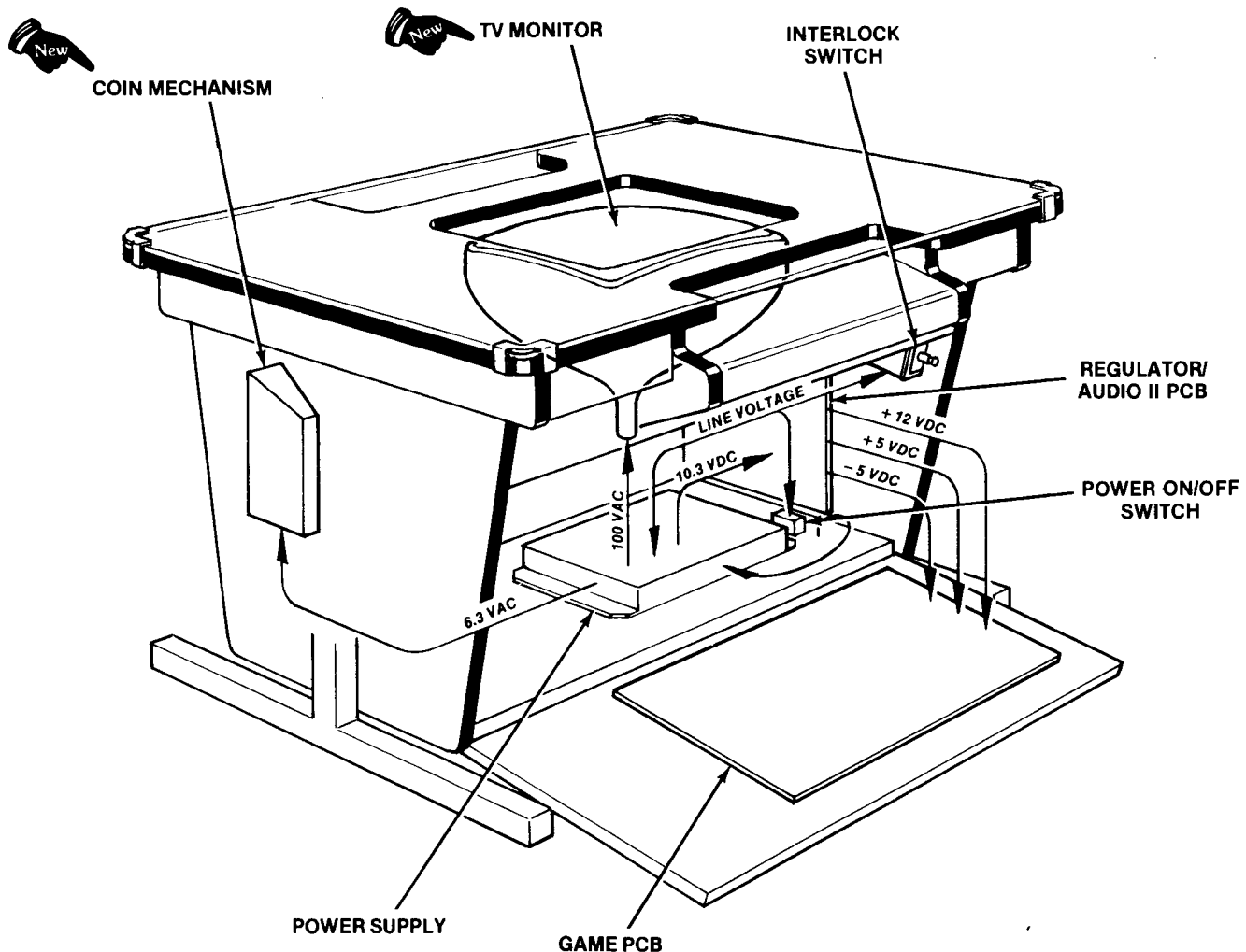


Figure 13 Power Distribution

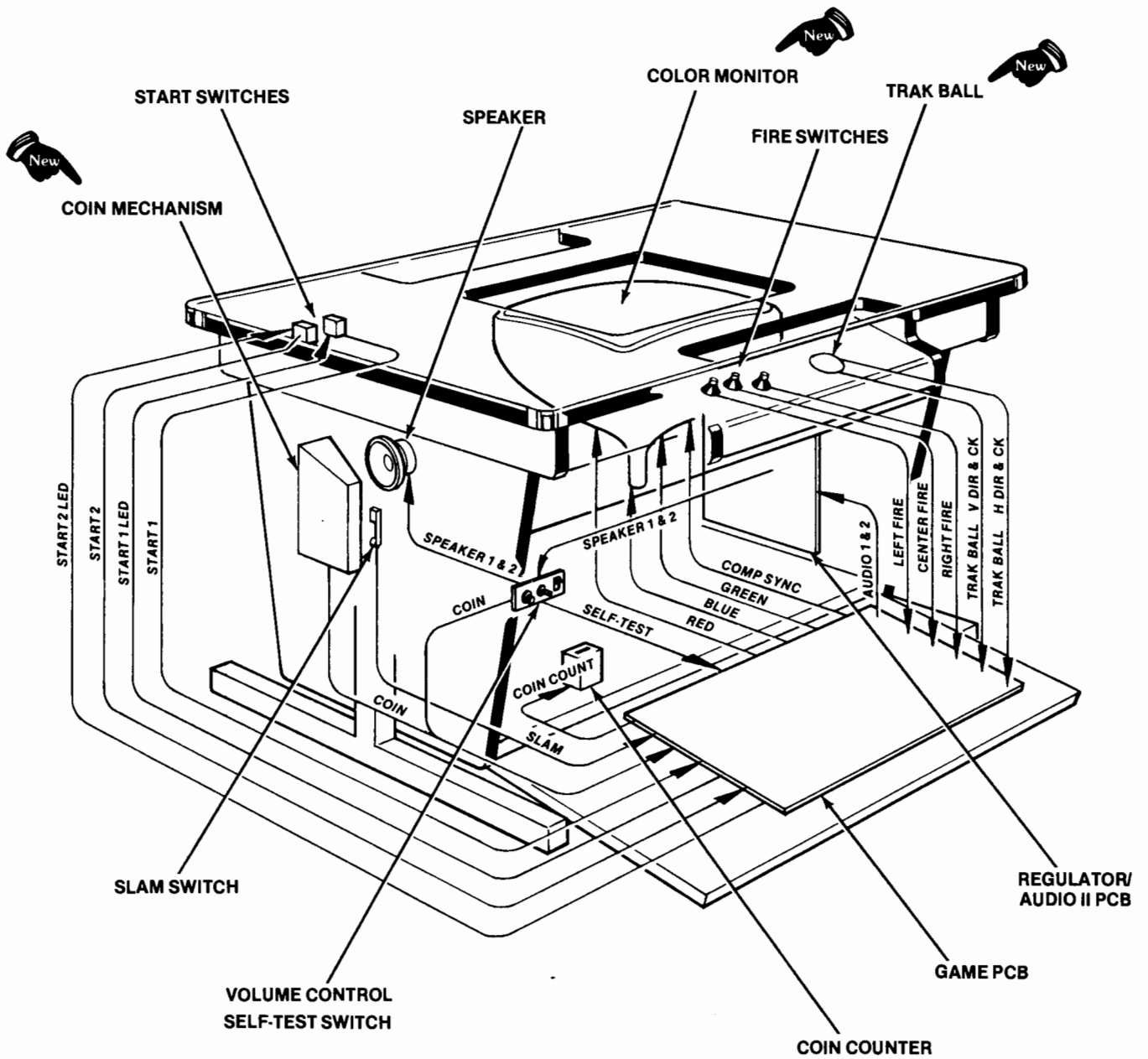
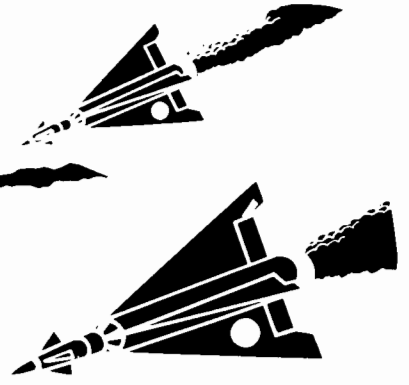


Figure 14 Signal Distribution



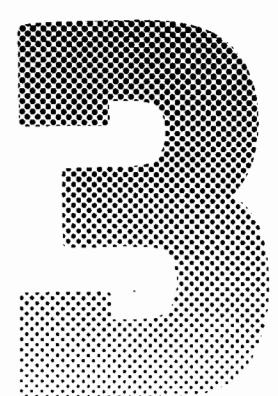


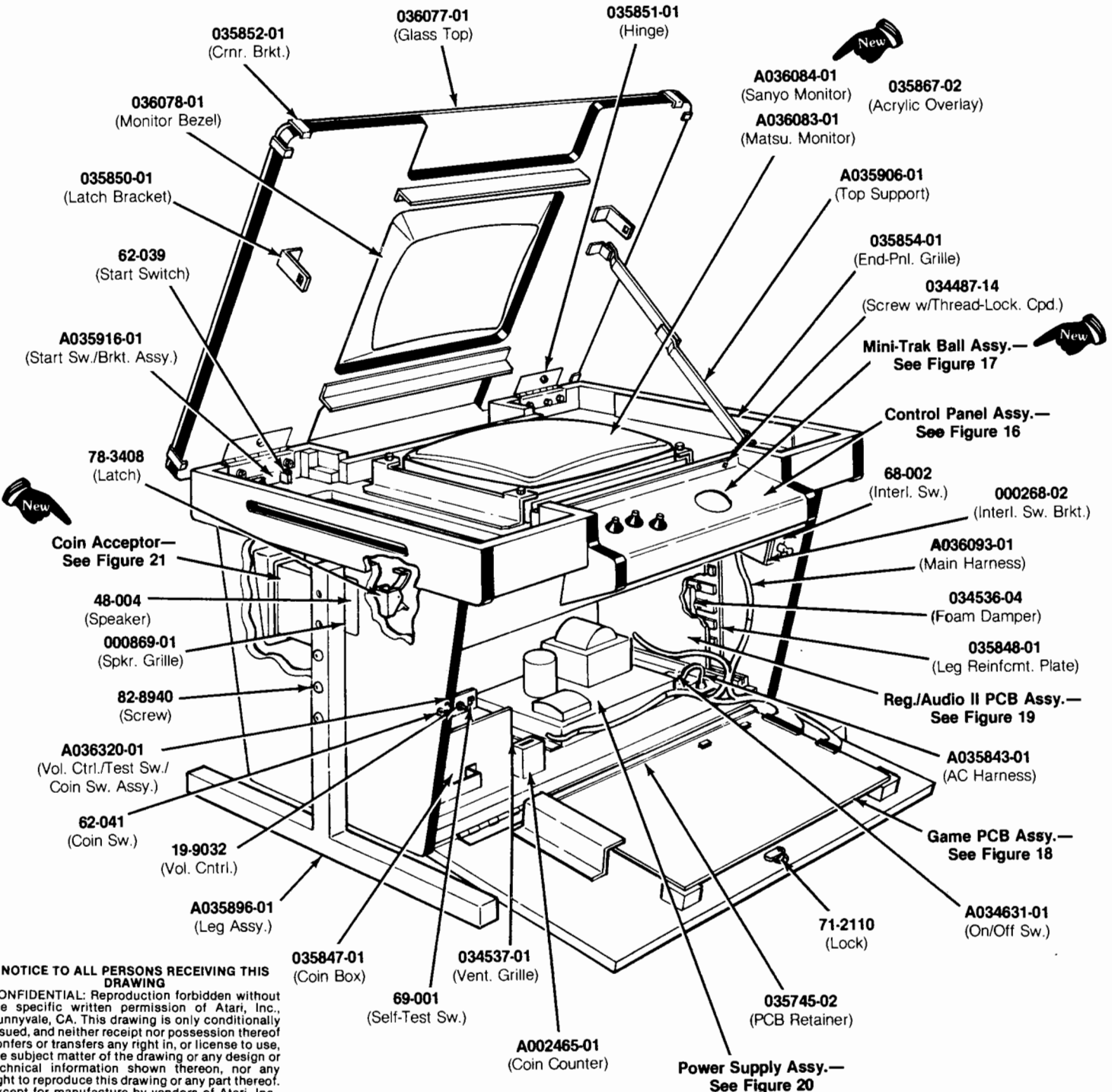
Illustrated Parts Lists

The purpose of this chapter is to provide you with the necessary information for ordering replacement parts for your game. Please note that, for simplicity, **common hardware has been deleted** from most of these parts lists. This includes screws, nuts, washers, bolts, etc.

The parts lists have been arranged in alphanumeric order. For example, all "A-" prefix numbers come first. Following this are numbers in sequence evaluated up to the hyphen, namely 00-thru 99-, then 000598- thru approximately 110000-.

When ordering parts from your distributor, give the part number, part name, applicable figure number of this manual, and serial number of your game. This will help to avoid confusion and mistakes in your order. We hope the results will be less downtime and more profit from your game.





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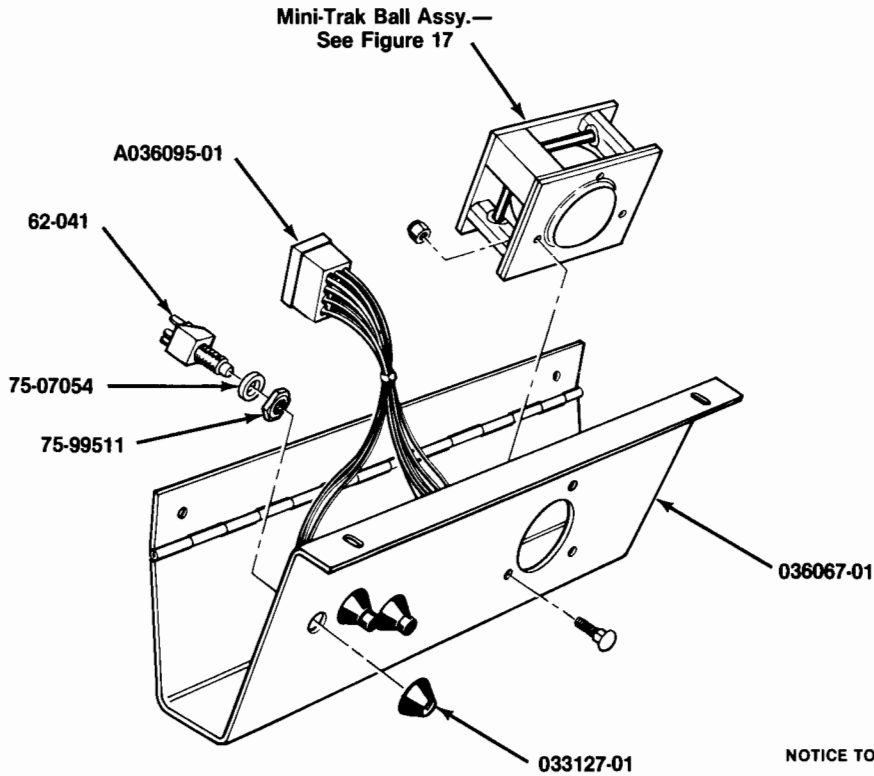
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Figure 15 Cabinet-Mounted Assemblies
A036080-xx B

Figure 15 Cabinet-Mounted Assemblies Parts List

Part No.	Description
A002465-01	Coin Counter
A007638-01	Slam Switch Assembly
A034631-01	15 Amp @ 125V (10 Amp @ 250V) DPDT Toggle Switch
A035843-01	AC Harness Assembly
A035896-01	Leg Assembly
A035906-01	Top Support Assembly
A035916-01	Start Switches/Bracket Assy. <i>(includes switches, stamped nuts, bushings and bracket)</i>
A035992-01	Strain-Relief Power Cord Assembly <i>(for use in USA and Japan)</i>
A036083-01	14" Matsushita Monitor Assembly <i>(includes adapter harness and steel side supports)</i>
A036084-01	14" Sanyo Monitor Assembly <i>(includes steel side supports)</i>
A036093-01	Main Harness
A036320-01	Volume Control/Test Switch/Coin Switch Assembly <i>(includes bracket)</i>
DP-152-01	Sheet 1 of Schematic Drawing Package
DP-152-02	Sheet 2 of Schematic Drawing Package
ST-152	Self-Test Label
TM-152	Technical Manual for Cocktail Missile Command™
TM-153	Manual for Matsushita 14" Color Monitor
TM-157	Manual for Sanyo 14" Color Monitor
19-9032	50-Ohm, 12½-Watt, Wirewound Rheostat <i>(Volume Control)</i>
48-004	16-Ohm, 4-Watt, 4-Inch High-Fidelity Loudspeaker
62-039	SPDT Momentary-Contact Pushbutton Start Switch with Red Light-Emitting Diode
62-041	SPDT Momentary-Contact Pushbutton Coin Switch <i>(for operator convenience)</i>
68-002	30-Amp. Interlock Switch
69-001	DPDT Slide Switch <i>(self-test)</i>
71-2110	Panel Cartridge Lock Mechanism
75-07017	Spacer for Mounting Printed-Circuit Boards
75-9910W0	15/32-32 Steel Stamped Nut <i>(for start switch)</i>
78-24012	5" Beaded Nylon Tie Wrap <i>(for securing edge connector to Game PCB)</i>
78-3408	Spring Draw Latch
78-6900402	Adhesive Foam Tape <i>(for glass top)</i>
82-8940	3/8-16 × 2½" Button-Head Hex Socket Machine-Thread Screw
000268-02	Interlock Switch Mounting Bracket
000869-01	Speaker Grille
007882-02	Interlock Switch Cover
033127-01	Black Molded Polycarbonate Switch Bushing
034487-14	10-32 × 7/8" Button-Head Hex-Head Machine-Thread Screw with Thread-Locking Compound
034536-04	Foam Vibration Damper
034537-01	Ventilation Grille
035745-02	18"-Long Plastic PCB Retainer
035845-01	Coin Box Lid
035847-01	Coin Box
035848-01	Leg Reinforcement Plate
035850-01	Latch Bracket
035851-01	Hinge
035852-01	Corner Bracket
035854-01	End-Panel Grille <i>(2 per game)</i>
035867-02	Bronze-Color Acrylic Overlay
035917-01	On/Off Switch Cover
036077-01	Glass Top with Graphics
036078-01	Cardboard Monitor Bezel

99-15012 Push Button 50¢
99-15001 Push Button 25¢



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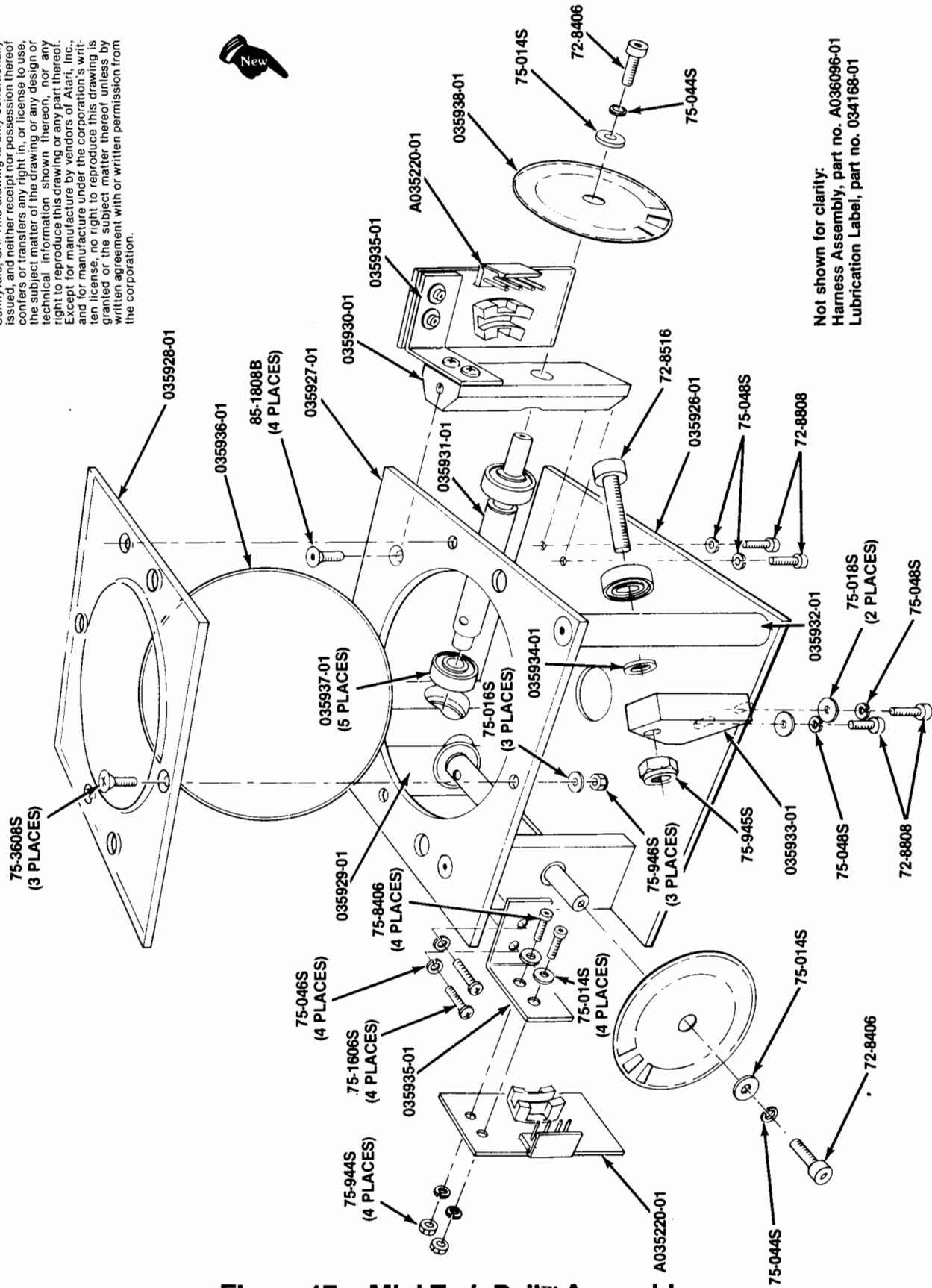
**Figure 16 Control Panel Assembly
 A036076-01 A**

Parts List

<i>Part No.</i>	<i>Description</i>
A036095-01	Control Panel Harness Assembly
62-041	Pushbutton Switch with Black Cap (3 per game)
75-07054	Flat Nylon Washer, 0.470" inside diameter × 0.968" outside diameter × 0.075" thick
75-99511	#10-24 Steel Stamped Nut
033127-01	Black Molded Switch Bushing
036067-01	Control Panel with Graphics



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**Figure 17 Mini-Trak Ball™ Assembly
 A035940-01 A**

Figure 17 Mini-Trak Ball™ Assembly Parts List



<i>Part No.</i>	<i>Description</i>
A035220-01	Coupler PCB Assembly
A036096-01	Harness Assembly
72-1606S	#6-32 × 3/8" Cross-Recessed Pan-Head Cadmium-Plated Steel Machine Screw
72-8406	#4-40 × 3/8" Hex Socket-Head Cap Alloy Steel Machine Screw
72-8516	1/4-20 × 1" Hex Socket-Head Cap Alloy Steel Machine Screw
72-8808	#8-32 × 1/2" Hex Socket-Head Cap Alloy Steel Machine Screw
75-014S	#4 Flat Plain SAE-Standard Zinc-Plated Steel Washer
75-016S	#6 Flat Plain SAE-Standard Zinc-Plated Steel Washer
75-018S	#8 Flat SAE-Standard Zinc-Plated Steel Washer
75-044S	#4 Zinc-Plated Steel Split Lock Washer
75-046S	#6 Zinc-Plated Steel Split Lock Washer
75-048S	#8 Zinc-Plated Steel Split Lock Washer
75-944S	#4-40 Self-Locking Steel/Polymer Hex Nut
75-945S	1/4-20 Self-Locking Steel/Polymer Hex Nut
75-946S	#6-32 Self-Locking Steel/Polymer Hex Nut
85-1808B	#8-32 × 1/2" Socket Cap Flat Countersunk-Head Black-Oxide Steel Screw
034168-01	Label with Lubrication Instructions
035926-01	Base Plate
035927-01	Top Plate (Metal)
035928-01	Top Plate (Acrylic)
035929-01	Corner Post
035930-01	End Post
035931-01	Roller Shaft
035932-01	Standoff
035933-01	Adjustable Post
035934-01	Spacer
035935-01	Angle Bracket
035936-01	Mini-Trak Ball™
035937-01	Bearing
035938-01	Encoding Wheel

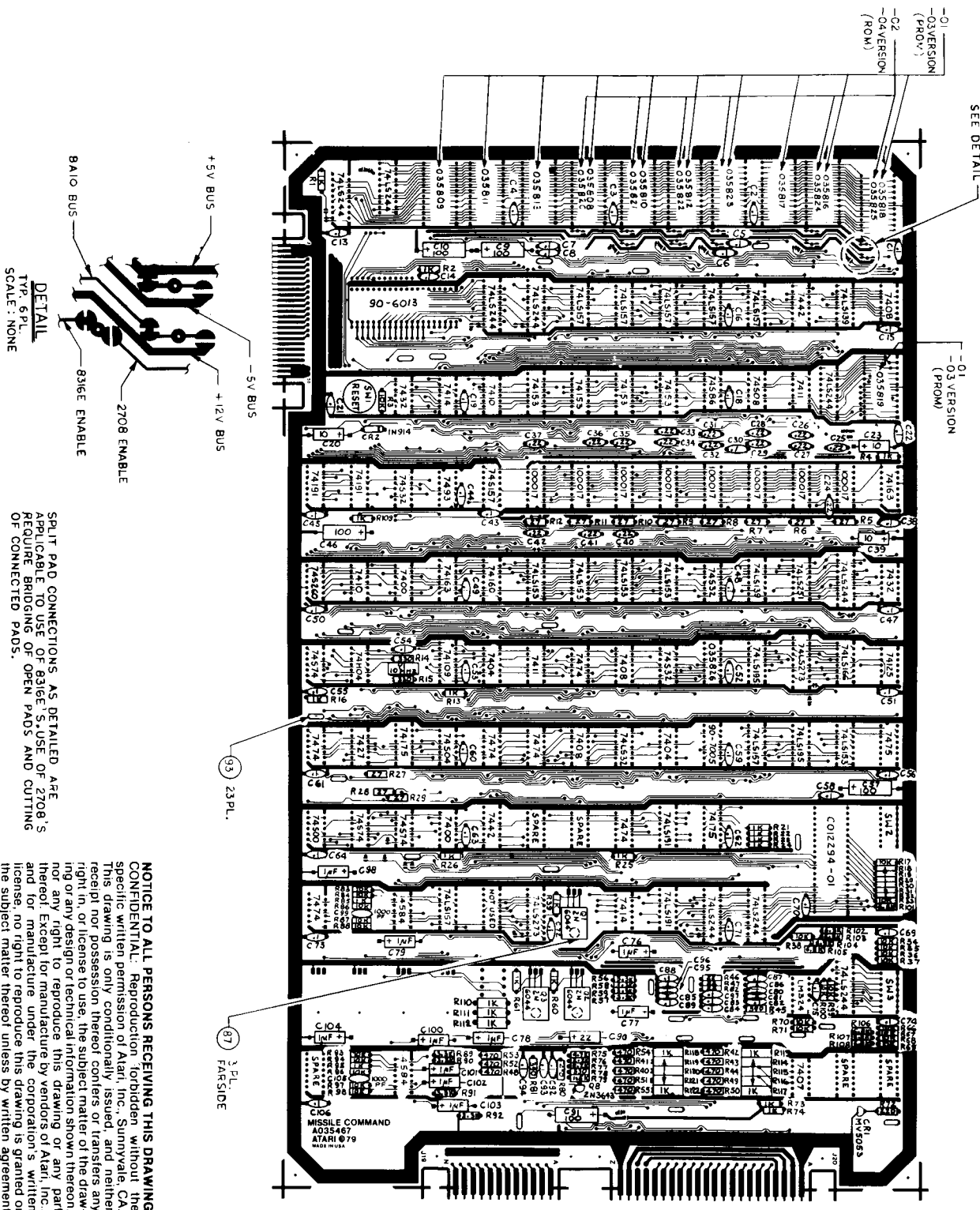


Figure 18 Game PCB Assembly
A035467-01 thru -04 D

Figure 18 Game PCB Assembly Parts List

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, 106)
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)
37-74S00	Type 74S00 Integrated Circuit (A8)
37-7404	Type 7404 Integrated Circuit (E6, K7)
37-74H04	Type 74H04 Integrated Circuit (B6)
37-74S04	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)
37-74S08	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 (B7)
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	Type 7442 Integrated Circuit (N2, E8)
37-7474	Type 7474 Integrated Circuit (H6, A7, E7, F7, J8, A9)
37-74S74	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 (D6)
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)
37-74S157	Type 74S157 Integrated Circuit (E4)
37-74160	Type 74160 Integrated Circuit (E5)

Figure 18 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)
37-74LS166	Type 74LS166 Integrated Circuit (P6)
37-74175	Type 74175 Integrated Circuit (L8)
37-74LS175	Type 74LS175 Integrated Circuit (C7)
37-74LS191	Type 74LS191 Integrated Circuit (K8, K9)
37-74191	Type 74191 Integrated Circuit (A4, B4)
37-74LS195	Type 74LS195 Integrated Circuit (M6, N7)
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)
37-74S260	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, $\pm .005\%$, Crystal (Y1)
90-6013	Microprocessor (C2)
90-7005	Random-Access Memory (L7)
020670-01	Test Point
035826-01	Programmable Read-Only Memory (L6)
400017-001	Random-Access Memory (F4, H4, J4, K4, L4, M4, N4, P4)
110000-102	1K Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R1, 2, 4, 13, 16, 21-26, 39, 60, 61, 73, 74, 85, 95, 109-122)
110000-103	10K Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R3, 17-20, 30-38, 66-71, 83, 84, 86-88, 93, 94, 96-100)
110000-152	1.5K Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R79)
110000-220	22 Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R46, 47, 82)
110000-221	220 Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R72)
110000-222	2.2K Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R76)
110000-332	3.3K Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R56-59, 89-92)
110000-270	27 Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R5-12, 27-29)
110000-331	330 Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R14, 15, 78)
110000-391	390 Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R45, 81)
110000-471	470 Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R40-44, 48-55, 80)
110000-472	4.7K Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R75)
110000-682	6.8K Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R101-108)
110000-822	8.2K Ohm, $\pm 5\%$, $\frac{1}{4}$ W Resistor (R77)
122004-224	.22 uf Ceramic-Disc 25V Radial-Lead Capacitor (C24-29, 31-37, 40-42)
137002-001	Type 74S86 Integrated Circuit (L3)
137149-001	Type 74LS11 Integrated Circuit (F6, N3)

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

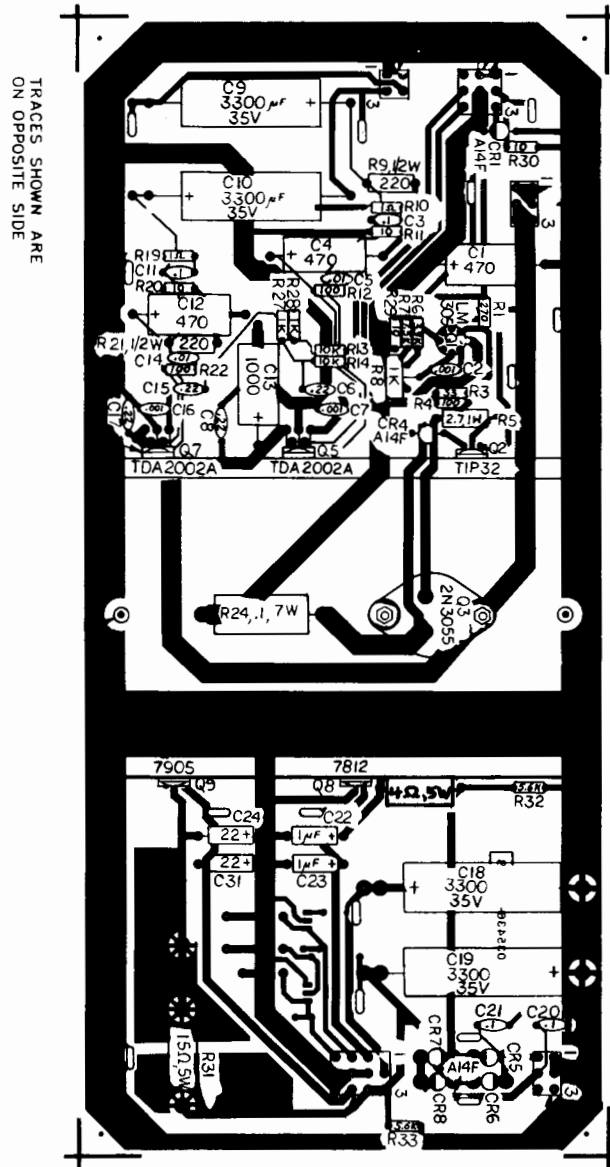
Figure 18 Game PCB Assembly, continued Parts List

Memory Components and Their Equivalents (Locations Shown in Bold)

-01 P.C. Boards (mostly PROMs)	-02 P.C. Boards (ROMs)	-03 P.C. Boards (mostly PROMs)	-04 P.C. Boards (ROMs)
035812-01 K/L1	035822-01 K/L1	035812-02 K/L1	035822-02 K/L1
035813-01 F1		035813-02 F1	
035823-01 L/M1	035823-01 L/M1	035823-02 L/M1	035823-02 L/M1
035816-01 N/P1	035824-01 N/P1	035816-02 N/P1	035824-02 N/P1
035817-01 M/N1		035817-02 M/N1	
035818-01 R1	035825-01 R1	035818-02 R1	035825-02 R1
035819-01 R3		035819-02 R3	
035808-01 H1	035820-01 H1	035808-02 H1	035820-02 H1
035809-01 D1		035809-02 D1	
035810-01 J/K1	035821-01 J/K1	035810-02 J/K1	035821-02 J/K1
035811-01 E1		035811-02 E1	

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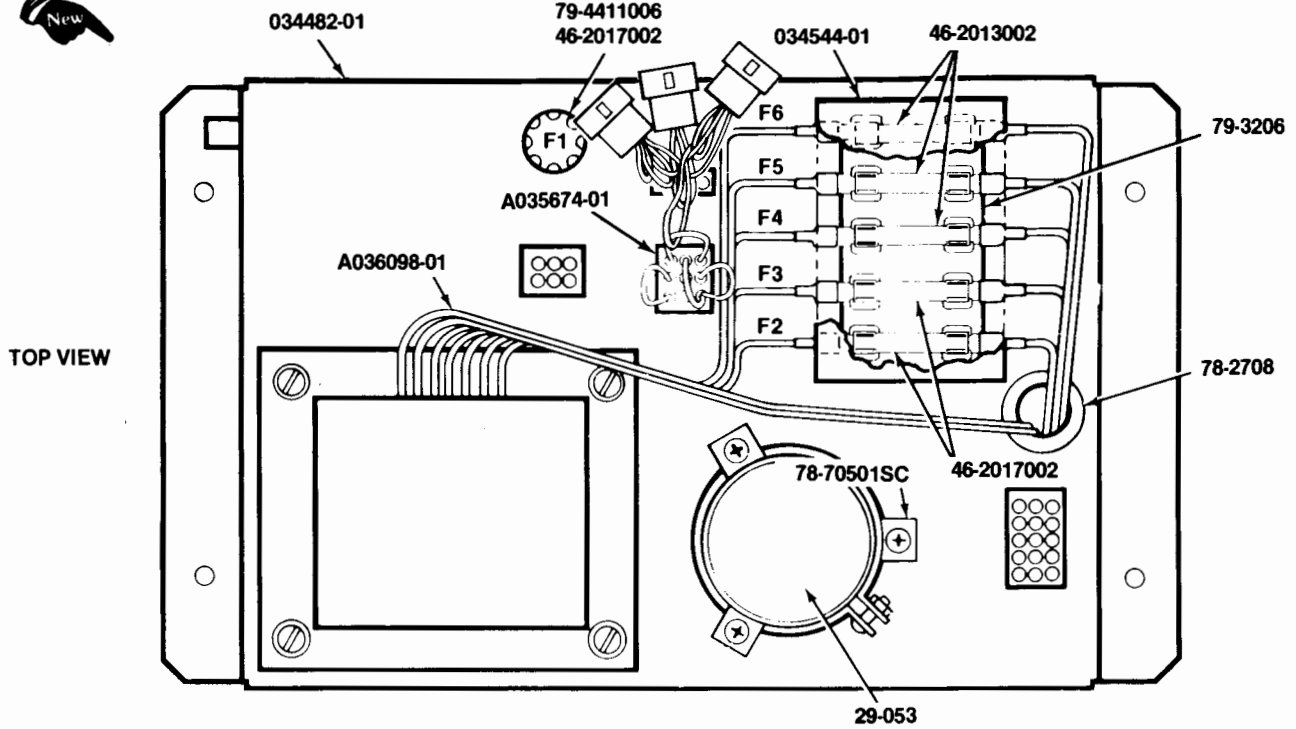
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**Figure 19 Regulator/Audio II PCB Assembly
A035435-02 B**

Figure 19 Regulator/Audio II PCB Assembly Parts List

Part No.	Description (Reference Designations and Locations in Bold)
12-52P7	2.7 Ohm, \pm 5%, 1W Resistor (R5)
16-54P0	4 Ohm, \pm 5%, 5W Wirewound Resistor (R25)
19-100P1015	.1 Ohm, \pm 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 uf 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)
37-7905	- 5V Voltage Regulator, Type 7905 (Q9)
72-1608C	#6-32 \times 1/2" Cross-Recessed Pan-Head Corrosion-Resistant Steel Machine Screw
75-F60405	#6-32 \times 1/4" Binder-Head Nylon Screw
75-99516	#6-32 Nut/Washer Assembly
78-16008	Thermally Conductive Compound (Q3)
78-16014	Thermally Conductive Compound (Q2, 5, 7-9)
79-58306	6-Position Connector Receptacle (J6, 9)
79-58308	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, \pm 5%, 1/4W Resistor (R10, 19)
110000-100	10 Ohm, \pm 5%, 1/4W Resistor (R11, 20, 29, 30)
110000-101	100 Ohm, \pm 5%, 1/4W Resistor (R4, 12, 22)
110000-102	1K Ohm, \pm 5%, 1/4W Resistor (R27, 28)
110000-103	10K Ohm, \pm 5%, 1/4W Resistor (R13, 14)
110000-271	270 Ohm, \pm 5%, 1/4W Resistor (R1)
110000-330	33 Ohm, \pm 5%, 1/4W Resistor (R3)
110000-392	3.9K Ohm, \pm 5%, 1/4W Resistor (R6)
110000-562	5.6K Ohm, \pm 5%, 1/4W Resistor (R32, 33)
110000-752	7.5K Ohm, \pm 5%, 1/4W Resistor (R7)
110001-221	220 Ohm, \pm 5%, 1/2W Resistor (R9, 21)
116000-220	22 Ohm, \pm 5%, 10W Wirewound Resistor (R31)
122004-224	.22 uf Ceramic-Disc 25V Capacitor (C6, 8, 15, 17)
137151-002	Type TDA2002A 8W Linear Audio Amplifier Integrated Circuit (Q5, 7)



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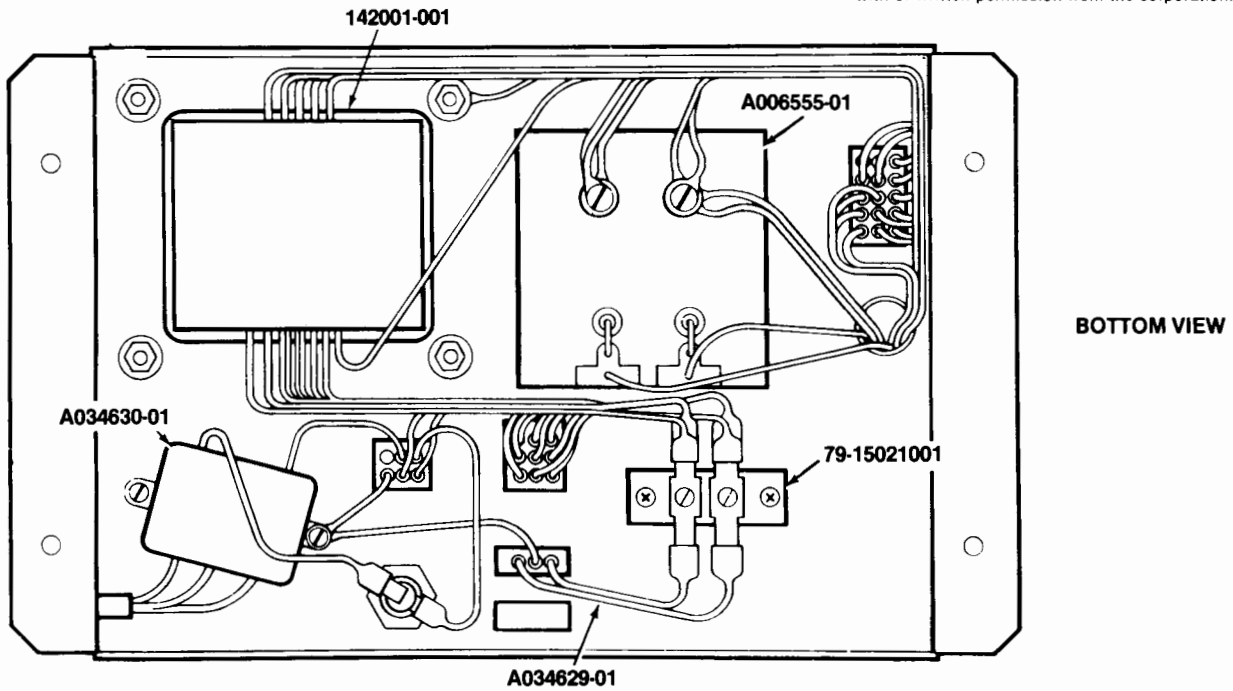

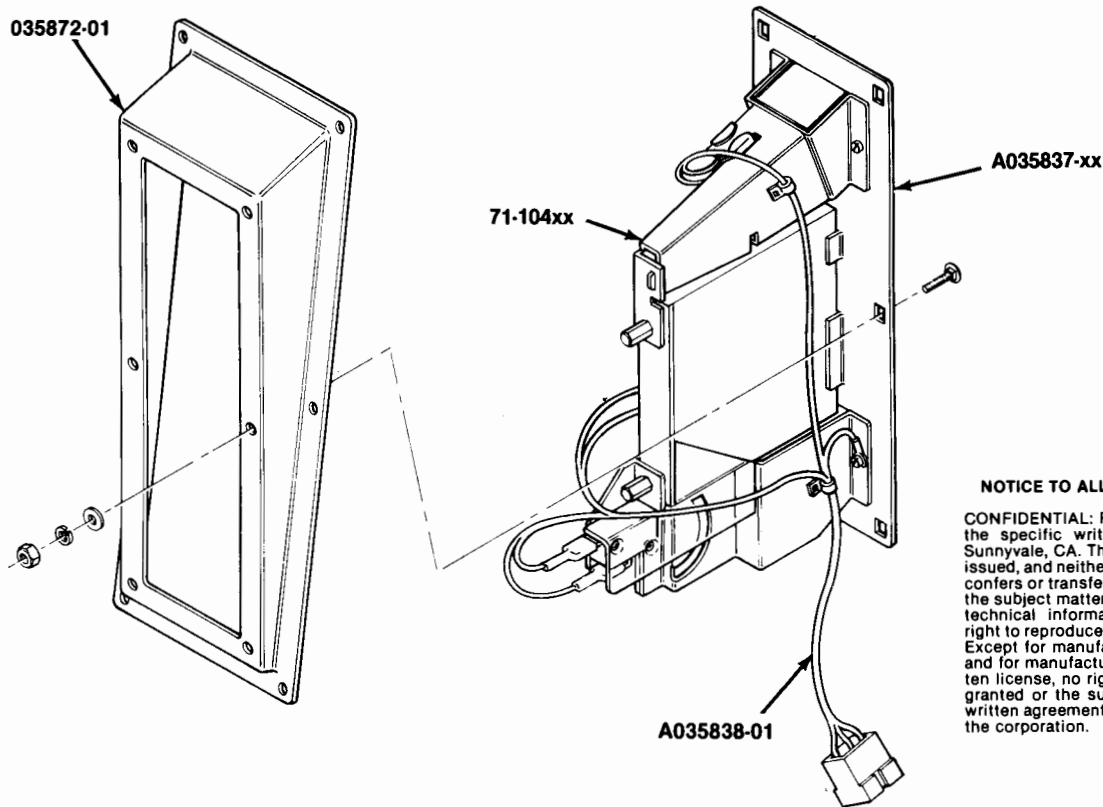


Figure 20 Power Supply Assembly for Color Raster-Scan Games
A036099-01 A

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

Part No.	Description
A006555-01	Rectifier Printed Circuit Board Assembly
A036098-01	Transformer and Harness Assembly <i>(includes Shielded Power Transformer)</i>
A034629-01	AC Harness Assembly
A034630-01	RFI Filter Assembly
A035674-01	Voltage Plug Assembly <i>(set of four plugs)</i>
29-053	26,000 uf 15V Electrolytic Capacitor
46-2013002	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
142001-001	Shielded Power Transformer Only <i>(with isolation windings)</i> 



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**Figure 21 Coin Acceptor Mount Assembly
 A035912-xx D**

Parts List

<i>Part No.</i>	<i>Description</i>
A035837-01	Coin Acceptor Face Plate (25¢)
A035837-02	Coin Acceptor Face Plate (100 Yen)
A035837-03	Coin Acceptor Face Plate (10 Pence)
A035837-04	Coin Acceptor Face Plate (1 DM)
A035837-05	Coin Acceptor Face Plate (2 DM)
A035837-06	Coin Acceptor Face Plate (100 Lire)
A035837-07	Coin Acceptor Face Plate (1 Kr Swedish)
A035837-08	Coin Acceptor Face Plate (20¢ Australian)
A035837-09	Coin Acceptor Face Plate (1 Fr French)
A035837-10	Coin Acceptor Face Plate (5 Fr Belgian)
A035838-01	Coin Mechanism Harness
035872-01	Coin Acceptor Mount
71-10425CU	Coin Acceptor (25¢)
71-104100YJ	Coin Acceptor (100 Yen)
71-10410PE	Coin Acceptor (10 Pence)
71-10401MG	Coin Acceptor (1 DM)
71-10402MG	Coin Acceptor (2 DM)
71-104100LI	Coin Acceptor (100 Lire)
71-10401KS	Coin Acceptor (1 Kr Swedish)
71-10420CA	Coin Acceptor (20¢ Australian)
71-10401FF	Coin Acceptor (1 Fr French)
71-10405FB	Coin Acceptor (5 Fr Belgian)

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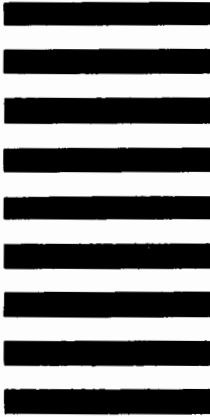


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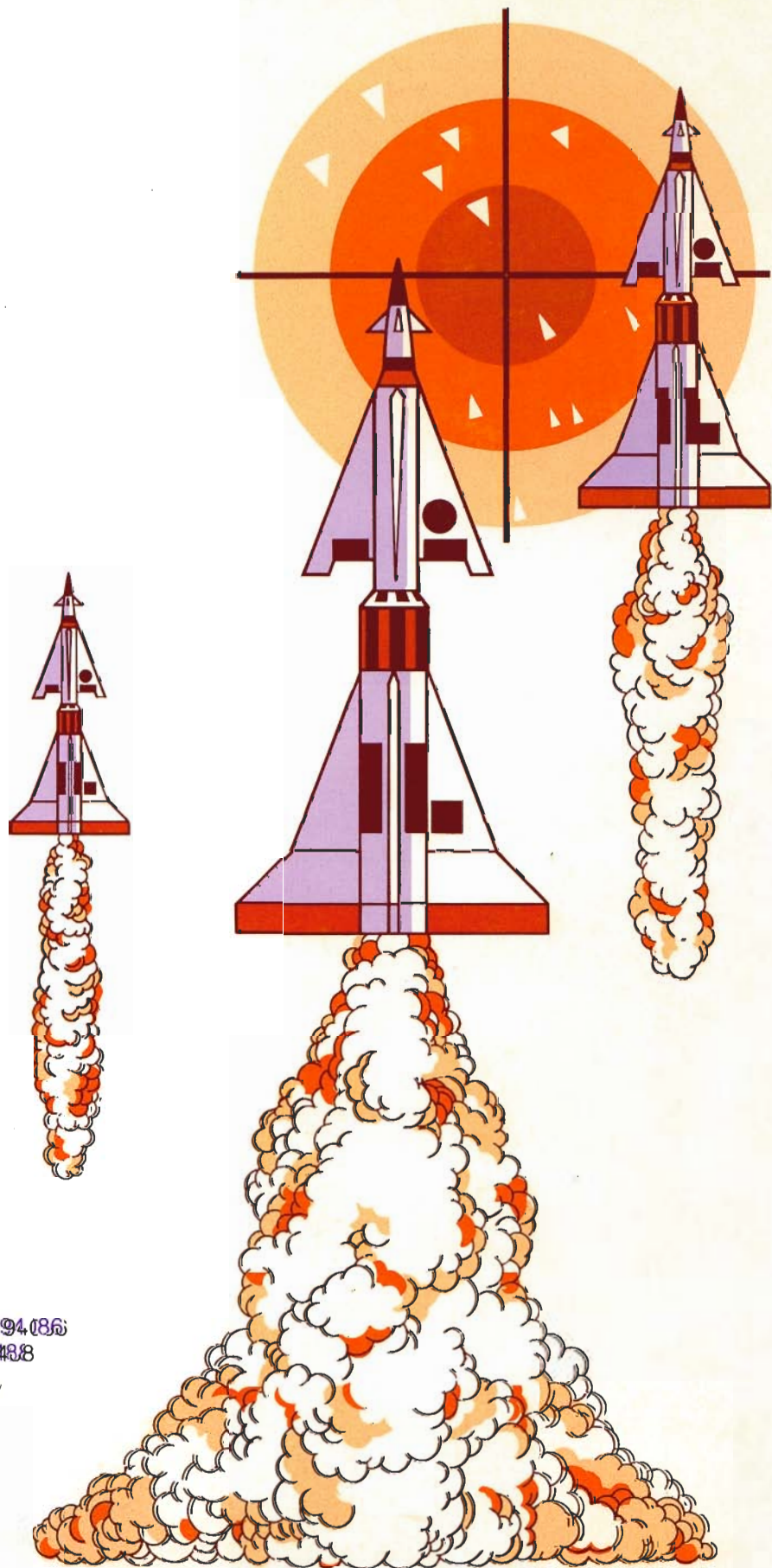
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