

V€RSION-1.0





MANUAL OPERATORS

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390 Java Drive, Sunnyvale, California 94089-1271 Telephone: (408) 734-9410 Toll-free: (800) 538-8402 Telex: 357-499 (EXIDY MNTV)



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QUESTIONS

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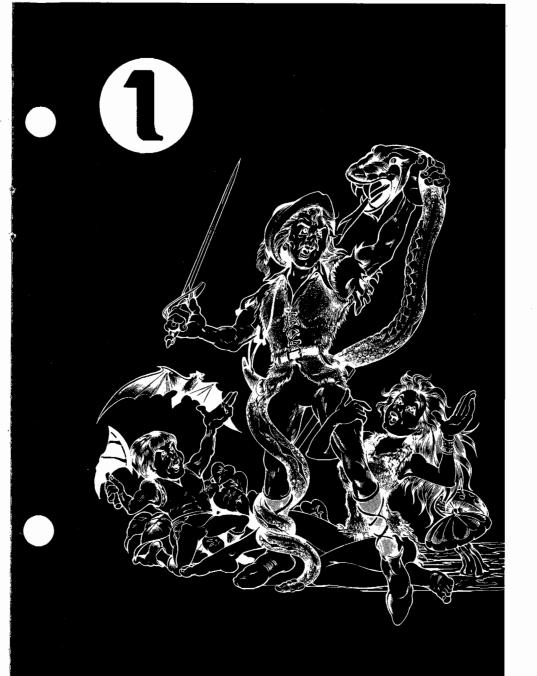
TRADEMARKS

Crossbow[™] is a trademark of Exidy, Inc.



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Game Set Up

GENERAL

This chapter describes your CrossbowTM game, the selected location for your game, and how to inspect it. It also outlines the preliminary set-up procedure.

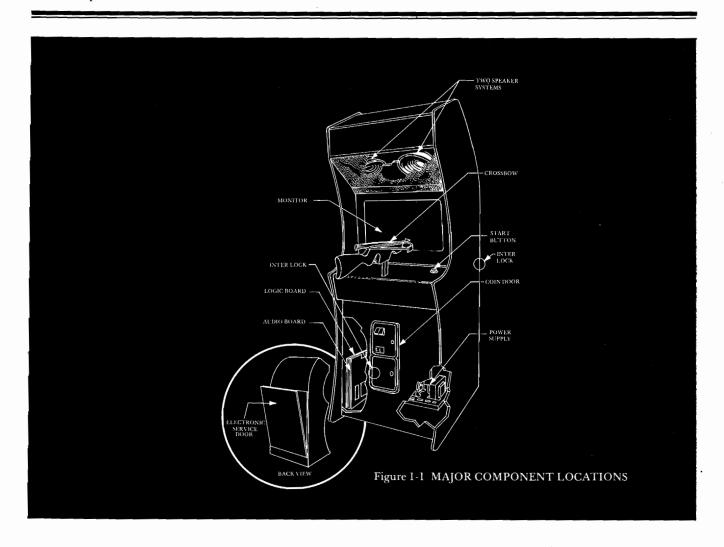
The Crossbow game is a colorfully illustrated upright video game with high Resolution graphics. A more detailed game play is located in the Game Description chapter of this manual.

The major components of your **Crossbow** game are illustrated in (ref. Fig. 1-1.) These major components are the following:

- Crossbow
- Coin Mechanism
- Monitor Chassis
- Power Supply Chassis
- Control Panel
- All PCB Assemblies
- Speakers

The PCB assemblies of the **Crossbow** game are contained in the game cabinet. These components are listed in the following:

- Game Logic PCB
- Power Supply PCB
- Audio PCB





INSPECTION

All EXIDY equipment is carefully packaged in well-padded cardboard containers to prevent damage during shipment. Before signing the delivery receipt, you should follow this procedure:

- Check for obvious damage and make certain that the physical piece count of the shipment matches the piece on the bill of lading. These two procedures should always be done before signing the delivery receipt.
- 2. Shortages and/or obvious damage to the packaging on any given shipment should be noted in writing on the delivery receipt before signing for the delivery.
- 3. If concealed damage is suspected on any shipment, those packages believed to contain the damaged goods should be opened in the presence of the delivery driver. If the goods have sustained concealed damage, a description of said damage should be noted in writing on the delivery receipt before signing for the delivery.
- 4. Never apply power to any game with noticeable damage.

FILING A CLAIM

TO FILE A CLAIM, FOLLOW THIS PROCEDURE:

- Any and all damaged freight, including packaging, should be retained by the consignee until a physical inspection of said freight can be made by a representative of the carrier involved.
- The Claims Manager for the carrier involved should be notified as soon as possible, after the damaged goods are received. Preferably, the carrier's Claims Manager should be notified within forty-eight (48) hours of receipt of the goods by the consignee.
- 3. If warranted, a written claim should be filed with the carrier involved. A detailed description of the damage(s) should be provided and copies of all supporting documents, including bill of lading and/or delivery receipt, inspection report, and invoice, should be attached.

4. The sooner a claim is filed, the better for all parties concerned. The carrier against which a claim is filed is required, by law, to respond to (acknowledge) that claim within thirty (30) days of receiving same and must reach a final disposition in the matter within one hundred twenty (120) days.

VISUAL INSPECTION

- 1. Remove the rear and front access doors with the appropriate packaged key. (ref. Fig. 1-1.)
- Examine each major and electrical component thoroughly for scrapes, dents, broken or missing parts and loose or missing screws.
- 3. Check for loose cable connectors.
- 4. Visually verify that all the integrated circuit devices (IC's) plugged into sockets are properly seated.

If you find any damage during this inspection, file a claim with the carrier. Send a complete report of the damage to EXIDY, INC.

INSTALLATION

Planning the location of the game should involve both physical and electrical considerations.

Such physical considerations concern the placement of the equipment with respect to these clearances:

HEIGHT: 80.00 inches, 203.2 cm. WIDTH: 25.25 inches, 65.1 cm. DEPTH: 35.00 inches, 88.9 cm.

An indoor, relatively dust-free environment is necessary, with proper conditions required of any electrical device. Electrical considerations include availability of an AC outlet with the correct voltage and frequency. You should consider the working space required for technicians and operators including access to the rear of the game.

NOTE:

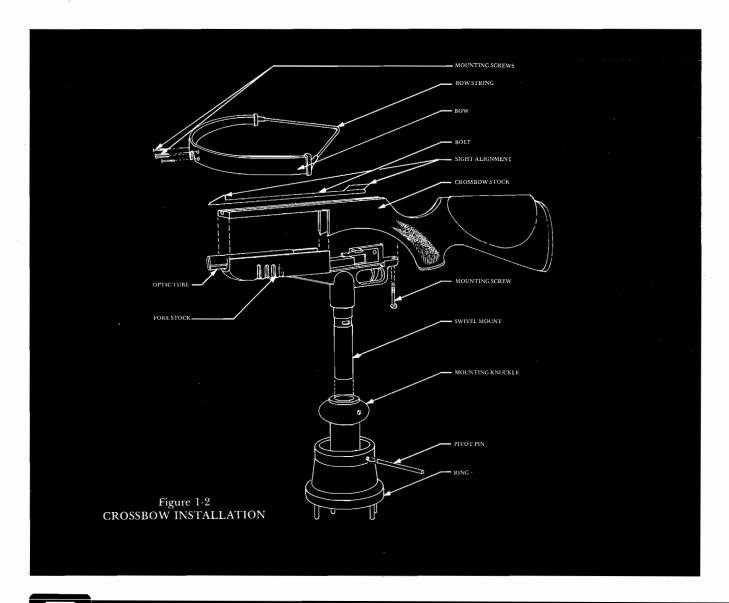
The cabinet must be within seven feet of an AC outlet. Be certain that a ground jack or terminal is available at the outlet.

CAUTION:

DO NOT remove the AC ground prong from the plug. Doing so may cause electrical shock.

CrossbowTM

The Crossbow is detached from Mounting for shipping. Locate Crossbow Stock and mount with three (3) mounting screws as illustrated. (Ref. Fig. 1-2)



PRELIMINARY CHECKOUT PROCEDURE

The **Crossbow** game, after it is properly installed, should be checked operationally by performing the following procedures:

- (a) PLUG IN THE AC JACK INTO THE AC OUTLET.
- (b) ALLOW 1 TO 2 MINUTES FOR CRT WARM-UP.

All DC Power required to operate $Crossbow^{TM}$ is supplied in the Exidy Power Supply Module. These supply outputs are as follows:

- +5VDC @ 9 amps
- + 18VDC @ 3 amps
- −18VDC @ 3 amps

CAUTION: Only certified technicians should make adjustments on all components of $Crossbow^{TM}$. Only the +5V DC is adjustable. This must be adjusted to: +5.00V DC +/-.1V as measured on the Main Logic PCB near the 6809E Microprocessor at location J2. (Ref Fig. 1-3) Measure at pins 7 and 14 of the 74LS05.

CROSSBOW SIGHT ALIGMENT PROCEDURE

This alignment is only necessary whenever the crossbow is disassembled or if it would require verification.

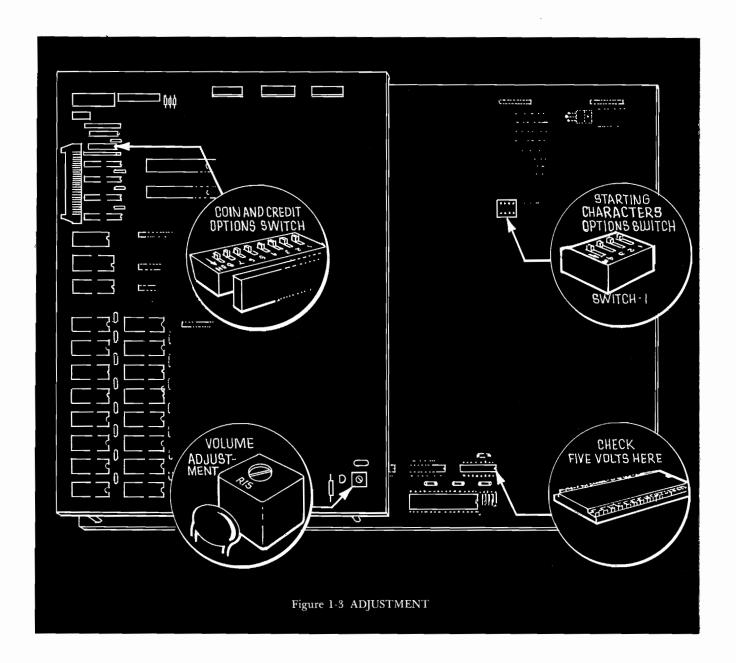
Proceed As Follows.

- POWER DOWN
- POWER UP
- HOLD DOWN START BUTTON TO DISPLAY MANUAL DIAGNOSTIC MODE.
- RELEASE START BUTTON WHEN DIAGNOSTIC APPEARS

Using Start Button Index to Gun Sight Alignment Test and enter mode by pressing gun trigger. Hold down gun trigger while aiming at crosshair (+) on screen. When both sight and crosshair are aligned release trigger and return to Manual Diagnostic Mode by pressing start button, index to exit and press gun trigger. The game will now be in the ATTRACT MODE.

AUDIO ADJUSTMENT

Locate R15 master audio gain pot located at position T2 of audio board (Ref. Fig. 1-3) and adjust audio level as game is in progress.



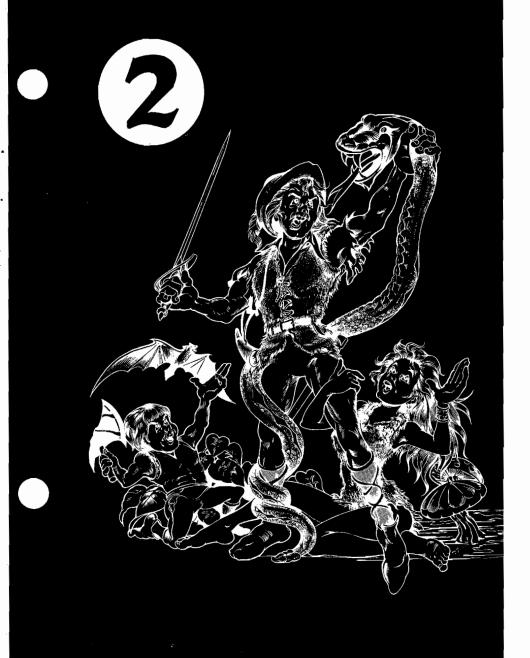
OPERATOR OPTION SWITCH

Crossbow[™] Game play has several selectable options on 8 and 4 position dip switches — Switch locations at B1 of audio board for 8 position and J19 of logic board for 4 position. Both switches are access-

able from back door of game. Factory setting of switches located at B1 & J19 are all set to off. (Ref. Fig. 1-3)

SWITCH OPTIONS SETTINGS 8 POSITION SWITCH LOCATION B1

COIN RATIO: COIN DOOR 2 AND TO COIN DOOR 1		SWITCH NUMBERS									
		1	2	3	4	5	6	7	8		
-1-1			- OFF	OFF	OFF						
2 - 1		− •	OFF	OFF	ON						
/V 3 · 1			OFF	ON	OFF						
4 - 1			OFF	ON	ON						
5 - 1			ON	OFF	OFF						
6 - 1		ļ	ON	OFF	ON						
7 - 1		1	ON	ON	OFF						
8 - 1			ON	ON	ON						
FREE PLAY		ON									
NORMAL "PAY" MODE		OFF									
		4									
COIN(S)	CREDIT(S)										
1	1					OFF	OFF	OFF	OFF		
2	1					OFF	ON	OFF	OFF		
3	1					ON	OFF	OFF	OFF		
4	1	1				ON	ON	OFF	OFF		
1	2					OFF	OFF	OFF	ON		
2	2					OFF	ON	OFF	ON		
3	2	ì				ON	OFF	OFF	ON		
4	2	ŀ				ON	ON	OFF	ON		
1	3	1				OFF	OFF	ON	OFF		
2	3					OFF	ON	ON	OFF		
3	3					ON ON	OFF ON	ON ON	OFF OFF		
4	3	1				OFF	OFF	ON	ON		
1	4					OFF	ON	ON	ON		
2 3	4					ON	OFF	ON	ON		
4	4					ON	ON	ON	ON		
	4 POSITION SWI	TCH	LOCA'	TION	T10						
	4 POSITION SWITCH LOCATION J19 SWITCH NUMBERS										
STARTING CHARACTERS		1		2		3 4					
3				-		OF		OF	F		
2						OFI		ON			
4						ON		OF:			
GAME PLAY DIFFICULTY						ON		ON			
	ASY	or	N	ON							
2 N	IORMAL (Factory Setting)	OF		OF							
	ARD	OF		ON							
4 <u>N</u>	OST DIFFICULT	OI	N	OF							



Game Description

GENERAL

Crossbow™ by Exidy is an adventure shooting game. The player, armed with a crossbow, is escorting a party of characters (men, women, and dwarves, Etc.) through various dangerous episodes. The object of the game is to protect these characters from dangers lurking within each level, to remove obstacles impeding their progress, and reach the evil master's dungeon. This is all accomplished by shooting a myriad of colorful targets.

CrossbowTM HAS FIVE MODES OF OPERATION

SYSTEM DIAGONOSTIC MODE

MANUAL DIAGNOSTIC MODE

ATTRACT MODE

READ-TO-PLAY MODE

PLAY MODE

To bypass all diagnostics on power up, press Crossbow trigger.

THE SYSTEM DIAGNOSTIC MODE

This mode on powerup will automatically perform the following tests.

AUDIO TEST

RAM TEST

SCREEN RAM TEST

CRC OF PROGRAM ROMS

CHECKSUM OF BANK ROMS

MANUAL DIAGNOSTIC MENU MODE

To access Manual Diagnostic Mode hold down the Start Button ON POWER UP. Once this mode is accessed any of the listed menu selections may be indexed by the player Start Button and excuted by the Crossbow trigger.

GUN ALIGMENT

RAM TEST

SCREEN RAM TEST

CRC CHECK PROGRAM ROMS

CHECK SUM BANK ROMS

AUDIO TEST

CHECK INTERRUPTS

GRAY SCALE

CROSSHATCH

COLOR BARS AND BLOCKS

OPTICAL ADJUSTMENT

RESET TO FACTORY SETTINGS OF VANITY MODE AND GUN SIGHT.

EXIT

ATTRACT MODE

The attract mode appears after power up diagnostics are successful and after every game. This mode will display these screen images repeatedly until a coin is inserted.

HIGH SCORE TABLE

DESERT OR VILLAGE GAME SCENE

CROSSBOW LOGO WITH COIN
INSTRUCTIONS

CROSSBOW GAME INSTRUCTIONS

READY-TO-PLAY MODE

The game is set into Ready-to-Play mode immediately after the coin or coins are inserted. The screen will still be in the Attract Mode Ready for Play.

PLAY MODE

Press the Start Button, the screen will display the game maps, and two or three colored boxes, Red, Green & Blue (Ref. Fig. 2-3). Each scene is begun by the player firing the Crossbow at a colored box and choosing the colored path he wishes his party to follow. If the party survives that level the player chooses where to go next by trial and error. The player must learn which colored path leads to each scene's unique element of danger. The adventure ends when all party members are killed.

Points are awarded for each target shot and are based on its difficulty level to be hit, bonus points are given at the end of each level for each surviving party member.

Surviving certain very difficult levels also awards the player with bonus members, increasing the size of his party.

Valuable treasures can be found in some scenes. The final goal is the Evil Master's Lair.





390 JAVA DRIVE,

SUNNYVALE,

CALIFORNIA 94089 Tel. (408) 734-9410

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