

FOREWORD

PART ONE:

Contains Preliminary Procedures, describing game inspection, installation, and checkout.

PART TWO:

Adjustment procedures are given for Power Supply, Audio Volume, Selectable Options, Gun Sight Alignment and Optical Sensitivity Adjustment.

PART THREE:

Modes of Operation, describes the four CHEYENNE™ modes: Automatic Self-Diagnostic Test Mode, Manual Diagnostic Mode, Attract Mode.

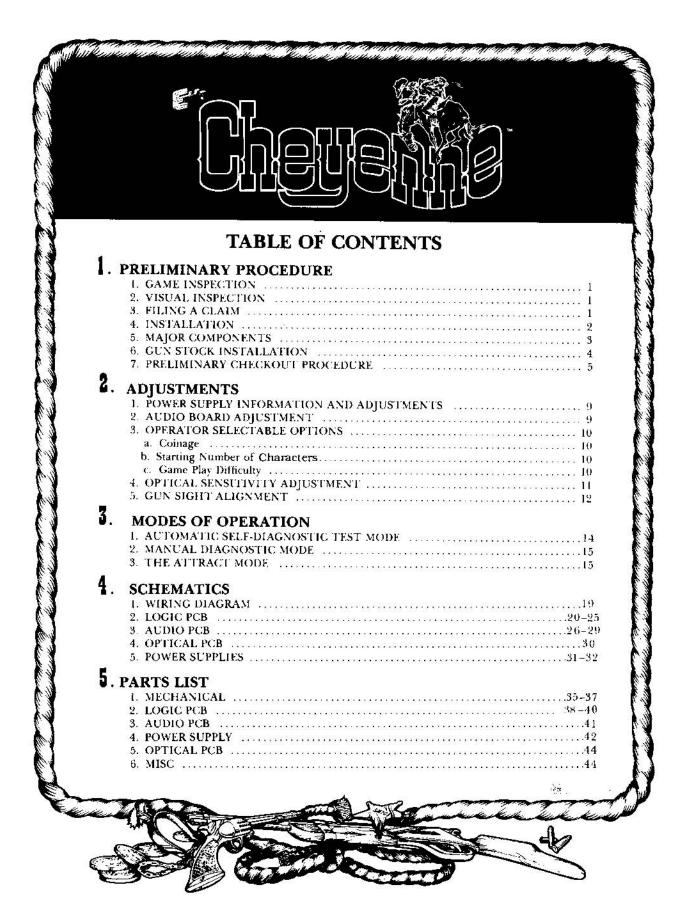
PART FOUR:

Contains the Electrical Schematics.

PART FIVE:

Contains the Mechanical and the Electronic Part Breakdown.

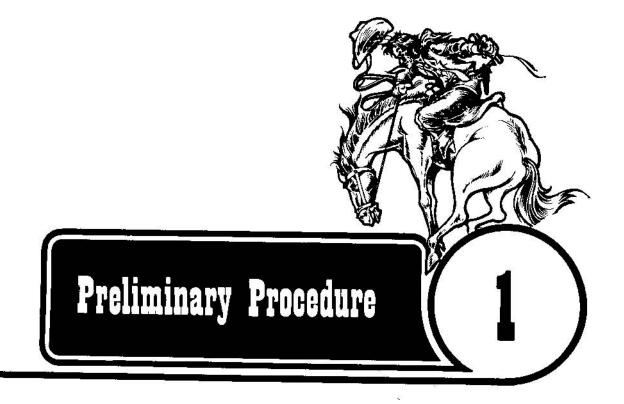






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PRELIMINARY PROCEDURE

GAME 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
 count 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.

VISUAL INSPECTION

- 1. Remove the rear and front access doors with the appropriate packaged key.
- 2. Examine each major and electrical component thoroughly for scrapes, dents, broken or missing parts and loosening screws.
- 3. Check for loose cable connectors.
- 4. Visually verify that all the integrated circuit devices (IC's) plugged into sockets are properly seated and that no IC pins are bent or misaligned.

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

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.

If warranted, a written claim must be filed with the carrier(s) involved. A detailed description of the damage(s) must be provided including copies of delivery receipt and/or bill of lading, inspection report and invoice.

The carrier(s) to which a claim has been filed against is required by law to respond to within thirty (30) days after receiving your claim and must reach a final disposition in the matter within one hundred twenty (120) days.

QUESTIONS

Exidy encourages technicians to use the toll-free customer service hotline for any questions they may have regarding CHEYENNE¹⁸. That number is (800) 538-8402.



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.
WEIGHT: 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 component. 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:

CAUTION:

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

DO NOT remove the AC ground prong from the plug. Doing so VOIDS YOUR WARRANTY!

MAJOR COMPONENTS

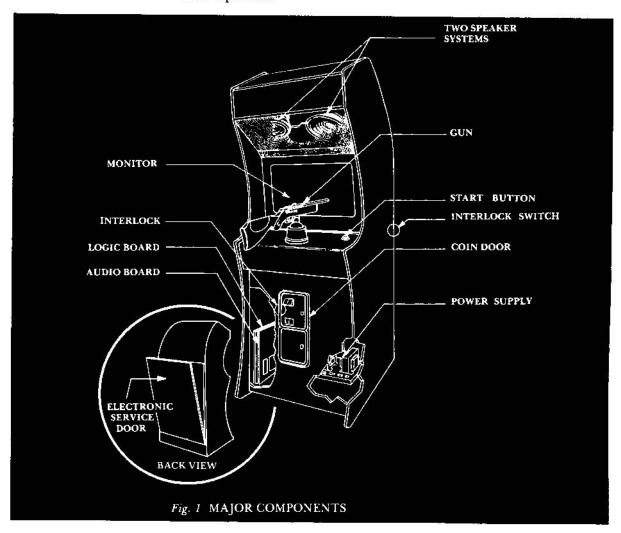
The Cheyenne sagame is a colorfully illustrated upright video game with high resolution graphics.

The major components of your Cheyenne game are illustrated in (See Fig. 1). These major components are the following:

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

The PCB assemblies are listed as follows:

- Game Logic PCB
- Power Supply PCB
- Audio PCB
- Photo Optic PCB



GUN STOCK INSTALLATION

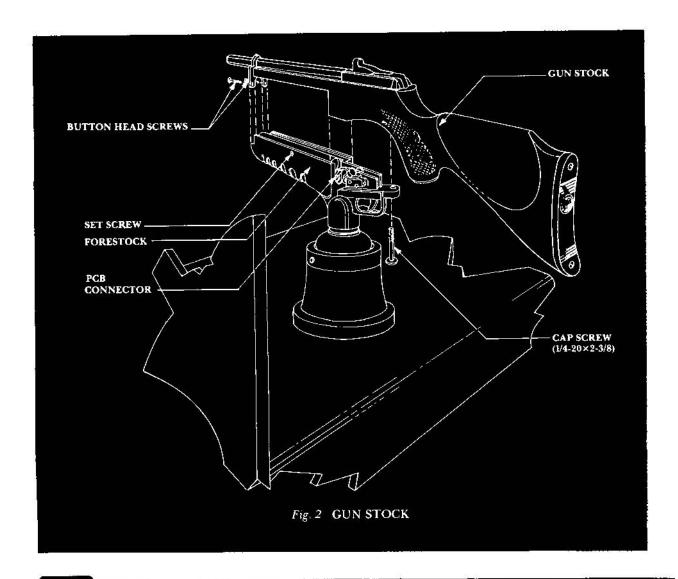
MECHANICAL

Gun Stock is detached from the forestock for shipping. To install $Cheyenne^{TM}$ gun stock, proceed as follows:

- 1. Locate the 3 mounting screws, packed inside shipping carton with Cheyenne Gun.
- 2. Loosen the 8/32 set screw in the FORESTOCK that secures down the OPTICAL TUBE ASSEMBLY.
- 3. Check that the gun optic PCB connector is in place.
- 4. Gently place gun stock onto forestock mount with the (2) 10-24×1 button head screws, and (1) 1/4-20×2 3/8 cap screws and secure gun stock to forestock (See Fig. 2).

NOTE:

Be sure to tighten down the set screw in FORESTOCK that secures the OPTICAL TUBE ASSEMBLY.



PRELIMINARY CHECK PROCEDURE

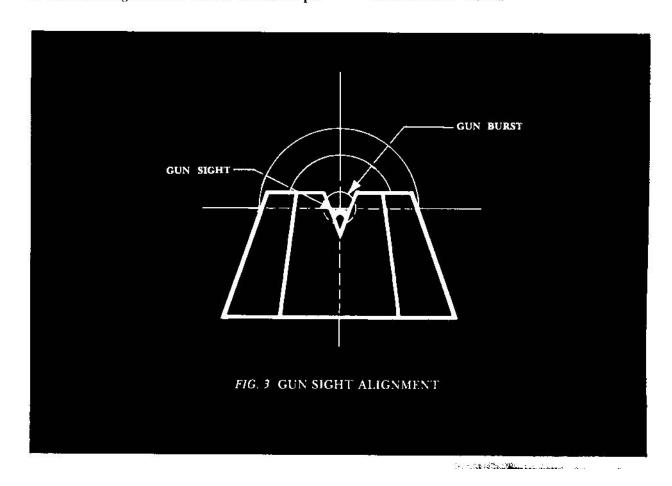
AFTER PROPERLY INSTALLING THE STOCK PROCEED AS FOLLOWS:

- Connect the power plug into 110 VAC 60 Hz outlet.
- 2. Three seconds after power-up there should be a burst of sound followed by the AUTO SELF DIAGNOSTIC TEST.
- 3. Following the AUTO SELF DIAGNOSTIC TEST the game will enter the ATTRACT MODE.
- 4. When AUTO SELF TESTS are completed and the gun stock is properly installed proceed with the GUN SIGHT ALIGNMENT.

GUN SIGHT ALIGNMENT

- Open the Coin Door to access the AC interlock switch, game will power down.
- 2. While holding down the START BUTTON pull

- out the interlock switch to restore power. After a burst of sound the screen should display the MANUAL DIAGNOSTIC MENU MODE.
- Be sure the index is pointing to GUN SIGHT ALIGNMENT, use the Start Button to index if not.
- 4. Pull gun trigger and a crosshair (+) will be displayed, release gun trigger.
- Aim the gun sight to center of crosshair, pull gun trigger once and gun sight will be aligned to the last burst.
- Press down the START BUTTON and return to the MANUAL DIAGNOSTIC MENU. With the START BUTTON move the index to EXIT MODE, press the GUN TRIGGER and return to the ATTRACT MODE.



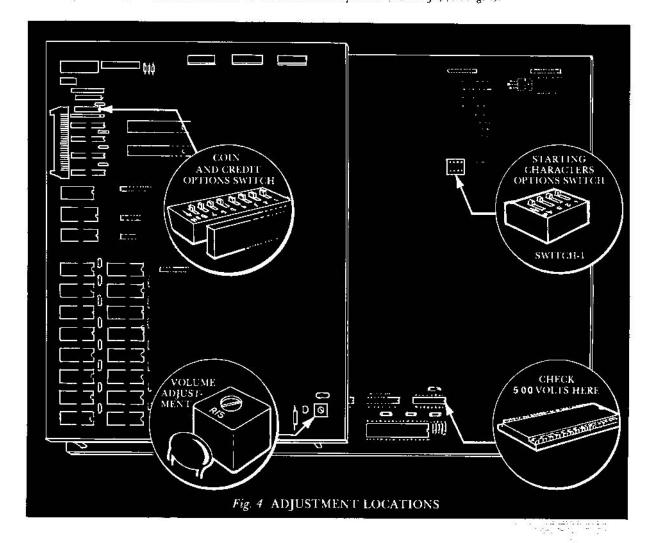


ADJUSTMENTS

I. POWER SUPPLY INFORMATION AND ADJUSTMENTS

ALL DC Power required to operate **Cheyenne™** is supplied by the Exidy Power Supply Module. These supply outputs are as follows:

CAUTION: Only certified technicians should make adjustments on all components of Cheyenne™. Only the +5v DC is adjustable. This must be adjusted to: +5.00 VDC as measured on the PCB near the microprocessor (location J2) (See Fig. 4).



II. AUDIO BOARD ADJUSTMENTS

Adjust R15 master audio volume control located at position T2 on the Audio Logic Board (See Fig. 4) and adjust audio level while game is in progress. This audio board rides piggyback on the logic board, mounted inside of the cabinet on the side wall (See Fig. 1).

III. OPERATOR SELECTABLE OPTIONS

Cheyenne™ has several selectable switch options controlled by an 8 position DIP SWITCH located at B1 of the AUDIO BOARD and a 4 position DIP SWITCH located at J19 of the LOGIC BOARD. Both switches are accessible through the rear door of the game.

		ITCH OPTI TION SWIT				
70 W 521	() = FACTO	RY SETTI	NGS		-
COD	LAGE	SWITCH	SWITCH	SWITCH	SWITCH	SWITCH
COIN	NAGE	1	5	6	7	8
FREE PLAY	r-	ON	OFF	OFF	OFF	OFF
1 COIN	— 1 CREDIT	OFF	OFF	OFF	OFF	OFF
@ 2 COINS	- 1 CREDIT	OFF	OFF	ON	OFF	OFF
3 COINS	- 1 CREDIT	OFF	ON	OFF	OFF	OFF
4 COINS	- 1 CREDIT	OFF	ON	ON	OFF	OFF
1 COIN	- 2 CREDITS	OFF	OFF	OFF	OFF	ON
2 COINS	- 2 CREDITS	OFF	OFF	ON	OFF	ON
3 COINS	- 2 CREDITS	OFF	ON	OFF	OFF	ON
4 COINS	- 2 CREDITS	OFF	ON	ON	OFF	ON
1 COIN	- 3 CREDITS	OFF	OFF	OFF	ON	OFF
2 COINS	- 3 CREDITS	OFF	OFF	ON	ON	OFF
3 COINS	- 3 CREDITS	OFF	ON	OFF	ON	OFF
4 COINS	— 3 CREDITS	OFF	ON	ON	ON	OFF
1 COIN	- 4 CREDITS	OFF	OFF	OFF	ON	ON
2 COINS	- 4 CREDITS	OFF	OFF	ON	ON	ON
3 COINS	- 4 CREDITS	OFF	ON	OFF	ON	ON
4 COINS	— 4 CREDITS	OFF	ON	ON	ON	ON
		SWITCH (OPTION SE	TTINGS	<u> </u>	
SE 38	4 PC	OSITION S	WITCH LO	CATION J	19	
GAME PLAY	DIFFICULTY	SWITCH 1	SWITCH 2	SWITCH 3	SWITCH 4	
1 EACH	(2004)	20020	200	J	-	
1 EASY		ON	ON			
@ 2 NORMAL	*	OFF	OFF			
3 HARD	FEIGURE	OFF	ON			
5 MOST DI	FFICULI	ON	OFF			
STARTING	CHARACTERS				: :	
2 CHARACT	ΓERS			OFF	ON	
@ 3 CHARAC1	TERS			OFF	OFF	
4 CHARACT	ΓERS			ON	OFF	
5 CHARACT	rene	I		ON	ON	

IV. OPTICAL SENSITIVITY ADJUSTMENT

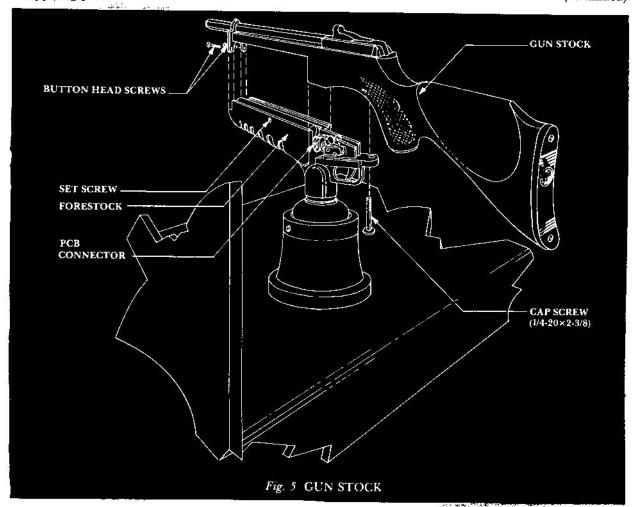
The Cheyenne uses an Optical Sensor PCB mounted in the forestock to monitor the scanning electron beam of the CRT. Gun positioning information from this Optical Sensor PCB is monitored by the Logic PCB. The Optic PCB sensitivity adjustment allows for monitor intensity, distance between gun and monitor and the electronic circuitry tolerance.

During game play each time the trigger is pulled there will be a white flash and a small dot is displayed wherever the gun is aimed. If for any reason the optic circuitry is not sensing the screen when the trigger is pulled the dot will not be displayed, and an audio warning sound will be heard. When this occurs, the optical sensor sensitivity should be readjusted.

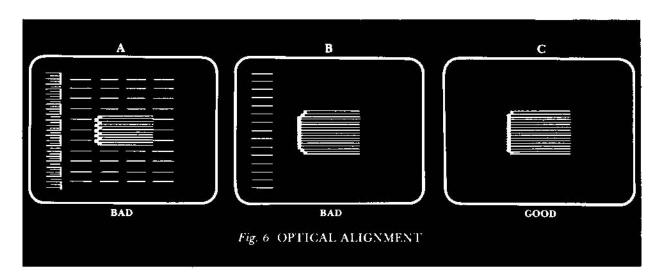
- 1. To access the optical electronics, remove the (2) button head screws and the (1) cap screw and gently lift the Gun Stock from the Forestock (See Fig. 5).
- 2. Select the MANUAL DIAGNOSTIC MODE. To enter this mode, hold down the Start Button while applying power.

- 3. Index the pointer to the CHECK INTERRUPTS test, pull gun trigger and execute. When test is complete it will return to the MANUAL DIAGNOSTIC MENU MODE.
- 4. Index the pointer to the OPTICAL ADJUST-MENT and pull Gun Trigger, a white screen should appear.
- If the screen should come up with wavering lines, repower the game and return to MANUAL DIAGNOSTIC MENU. Perform the CHECK INTERRUPTS, then index to the OPTICAL AD-JUSTMENT.

(continued)

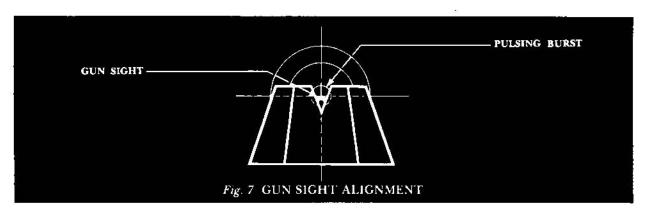


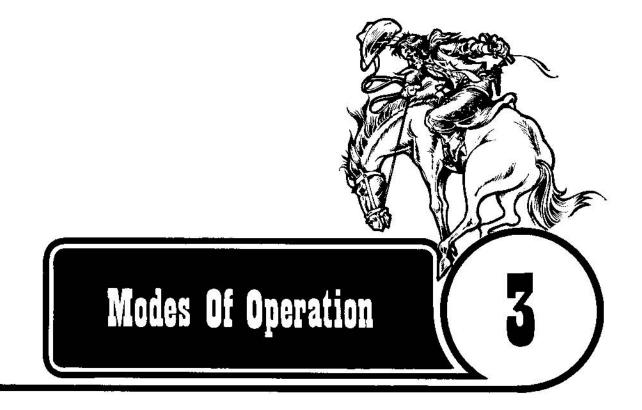
- 6. Aim the Gun to the enter of the screen, an orange rectangular pattern with a brown leading edge should be displayed (See Fig. 6-C).
- 7. Turn sensitivity control CCW until oscillation and an orange rectangular pattern are displayed (See Fig. 6-A). Now turn sensitivity control CW until oscillation diminishes just beyond this oscillation point (See Fig. 6-B), from this point turn sensitivity control CW approx. ¼ turn more. This should be the optimum setting.
- 8. The rectangular pattern should appear on the screen wherever you aim the Forestock (Optic), with the exception of approx. 2" to the extreme left of screen.
- Reinstall the Gun Stock Assembly. Refer to Cheyenne™ Stock Installation procedure (Page 4 Steps 2 & 3). This completes the optical check.



V. GUN SIGHT ALIGNMENT

- 1. Open the Coin Door to access the AC interlock switch, game will power down (See Fig. 1).
- While holding down the START BUTTON pull out the interlock switch to restore power. After a burst of sound the screen should display the MANUAL DIAGNOSTIC MENU MODE.
- 3. Be sure the index is pointing to GUN SIGHT
- ALIGNMENT, use the Start Button to index if not.
- 4. Pull Gun Trigger and a crosshair (+) will be displayed, release gun trigger.
- 5. Aim the Gun Sight to center of crosshair, pull Gun Trigger once and Gun Sight will be aligned to the last burst (See Fig. 7).





MODES OF OPERATION

CHEYENNE™ HAS FOUR MODES OF OPERATION:

- A. AUTO SELF DIAGNOSTIC TEST MODE
- B. MANUAL DIAGNOSTIC MODE
- C. ATTRACT MODE
- D. PLAY MODE

To bypass all diagnostics, press rifle trigger during the power-up sequence.

AUTO SELF DIAGNOSTIC TEST MODE

RAM TEST
SCREEN RAM TEST
CRC OF PROGRAM ROMS
CHECKSUM OF DATA BANK ROMS
AUDIO TEST
E² PROM

MANUAL DIAGNOSTIC MENU MODE

To access the manual diagnostic mode, hold down the START BUTTON on power-up. Once this mode is accessed, any of the listed selections may be indexed by the player start button and executed by the GUN TRIGGER.

GUN ALIGNMENT

Displays a crosshair (+) for gun sight alignment. Aim the GUN SIGHT at center of crosshair and fire gun once, the GUN SIGHT will be aligned to the last burst.

Press START BUTTON and return to the MANUAL DIAGNOSTIC MENU.

RAM TEST

Tests RAMS on logic board at locations A8 and A9.**

SCREEN RAM TEST

Tests RAMS on logic board at locations:**

B14-B21

C14-C21

D14-D21

E14-E21

CRC CHECK OF PROGRAM ROMS

Tests ROMS on logic board at locations A1, A3, A4, and A6.**

CHECKSUM OF DATA BANK ROMS

Tests ROMS on logic board at locations:*

B1, B3, B4, B6, B7, B8, B10

C8, C10, C11

D1, D3, D4, D6, D7, D8, D10,

E1, E3, E4, E6, E7, E8, E10, E11

AUDIO TEST

Tests the communication between logic and audio board.

NOTES:

* See Diagnostic Error Code FIG. 8 for suspected location of RAM or ROM.

** The Processor may not run dependent on the extent of chip failure of these locations.

CHECK INTERRUPTS

Tests for horizontal and vertical frame interrupts.

GRAY SCALE

Displays a graduated gray scale for monitor check or adjustments.

CROSSHATCH

Displays horizontal and vertical lines for monitor linearity and convergence checks or adjustments.

COLOR BARS AND BLOCKS

Displays a color visual test pattern utilizing the backround and moving object circuitry. The bars are produced by the backround circuitry and the blocks are produced by the moving object circuitry.

OPTICAL ADJUSTMENTS

Displays a rectangular pattern for adjusting the sensitivity of the Optical Sensing Circuitry.

RESET TO FACTORY SETTINGS

Sets the high score and also checks the E2

ROM*** located at B11 of the logic board. The E² PROM contains the high score table and gun alignment information. Running this diagnostic will reset the high score table. It will also require that the accuracy of the gun alignment be rechecked.

RESET HIGH SCORE TABLE TO ZERO

Resers all high scores on the high score table to zero. (Same as reset to factory set) except to zero.

EXIT

Returns game to the ATTRACT MODE.

FREE PLAY

For those wishing to demonstrate Cheyenne, a freeplay mode may be achieved by turning on switch #1 on audio board at location B1.

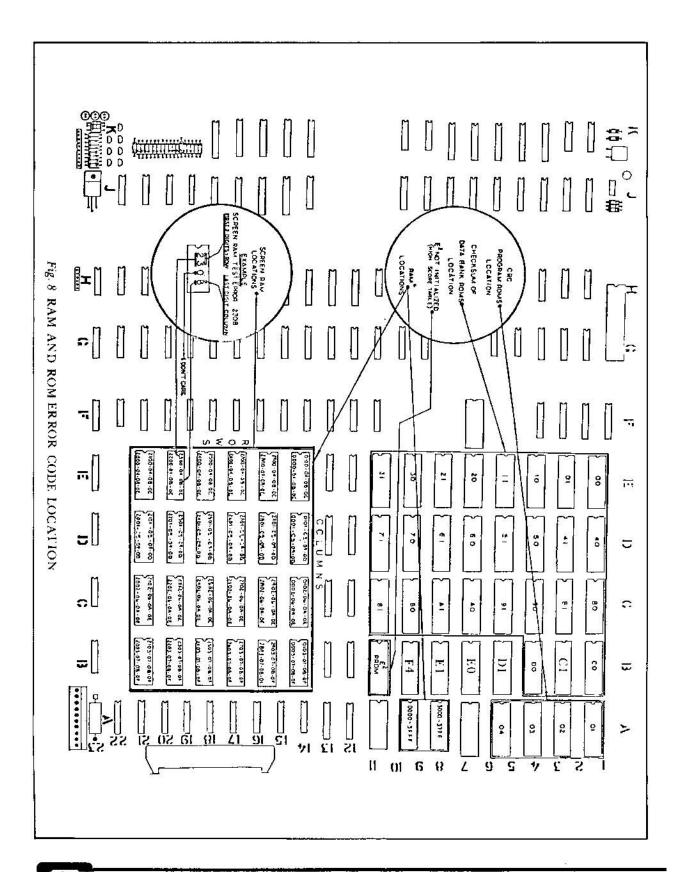
ATTRACT MODE

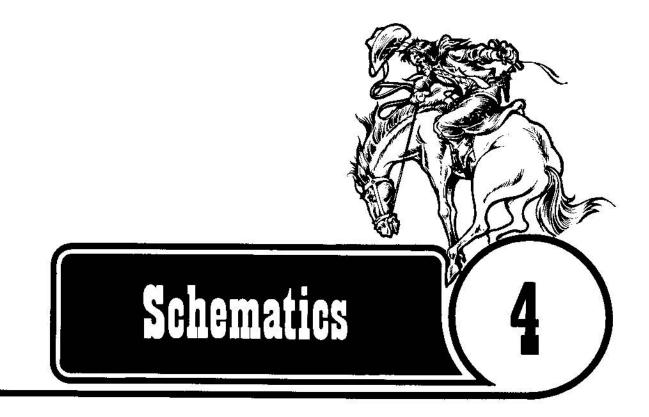
The attract mode appears after power-up auto self diagnostic and after every game. This mode will continue to display the attract mode repeatedly until a coin, and the start button is pressed.

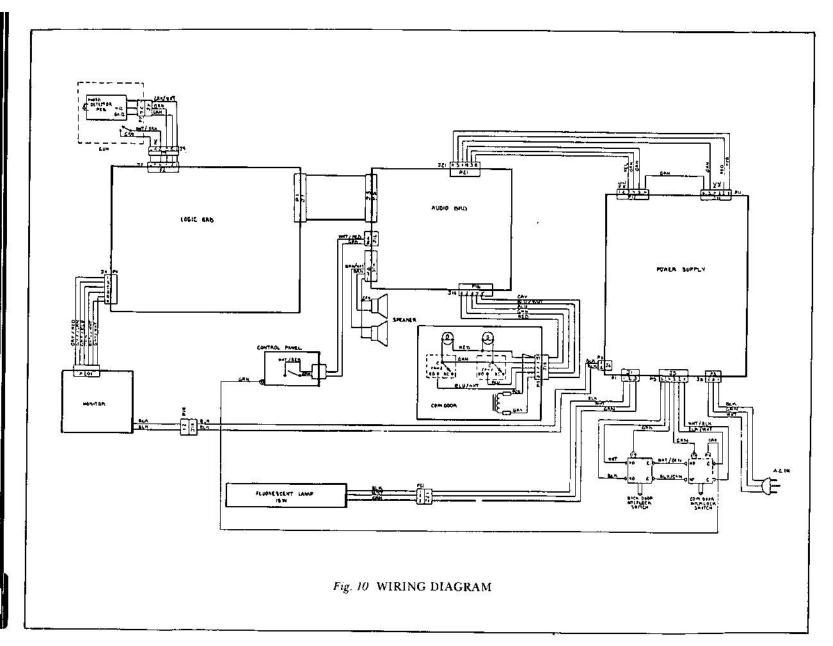
HIGH SCORE TABLE GAME SCENE COIN AND CREDIT INSTRUCTIONS GAME PLAY INSTRUCTIONS

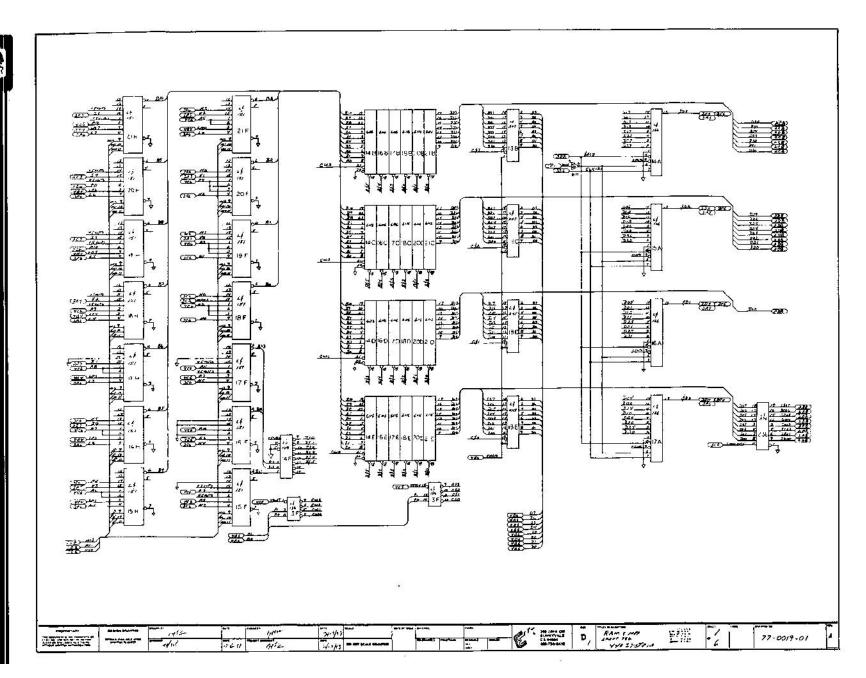
NOTE:

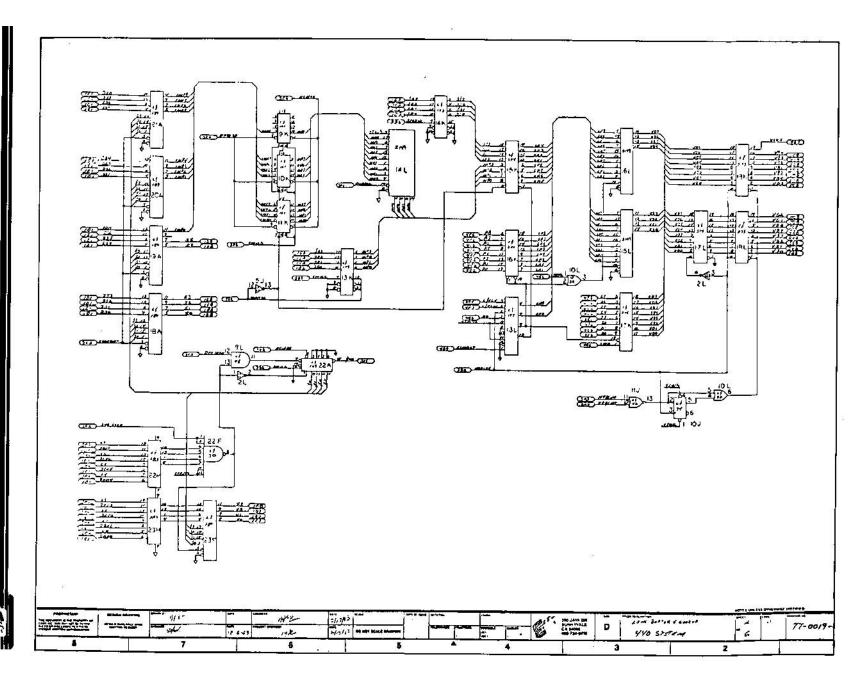
*** E² PROM = Electrically Erasable Programable READ ONLY MEMORY.



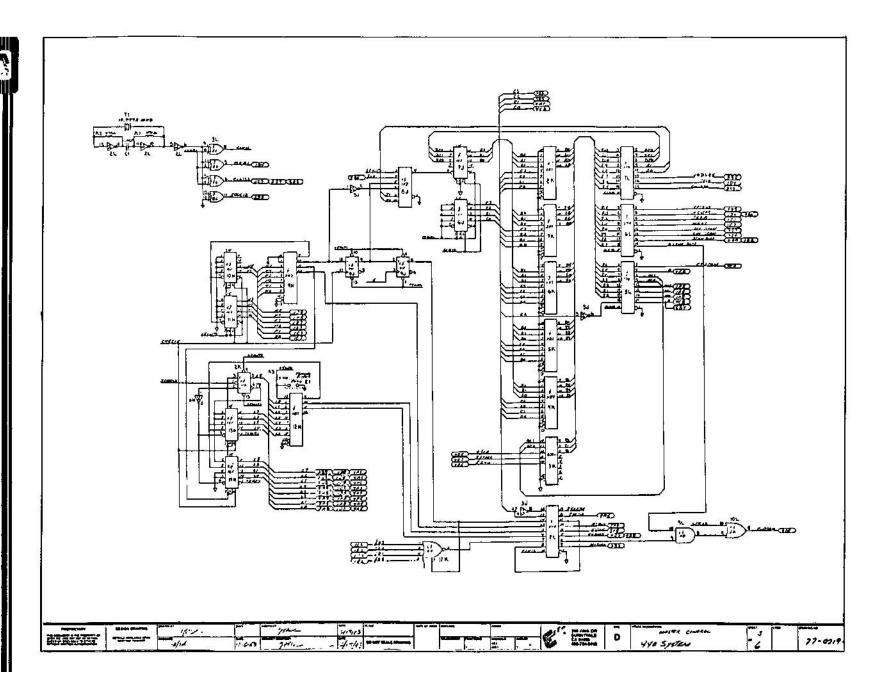


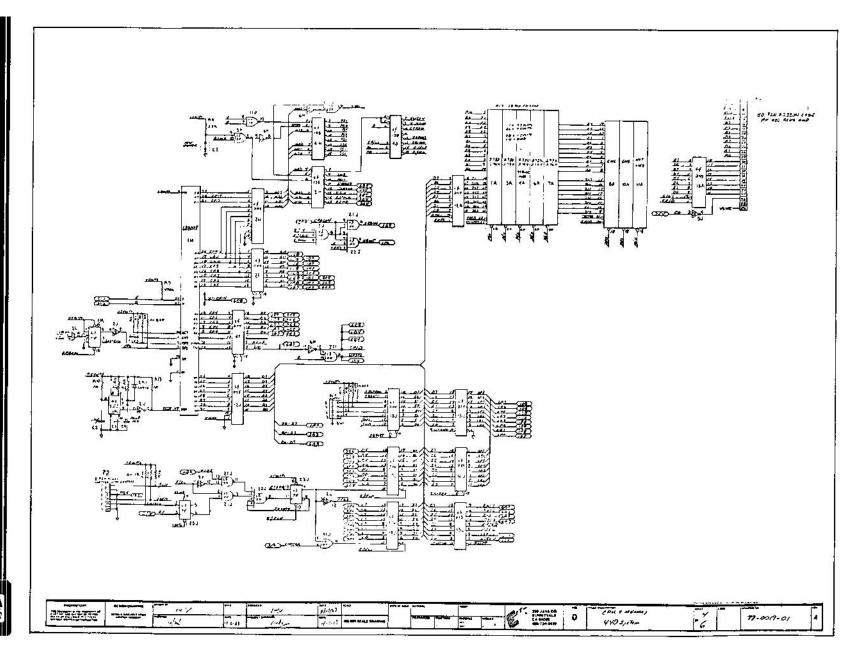


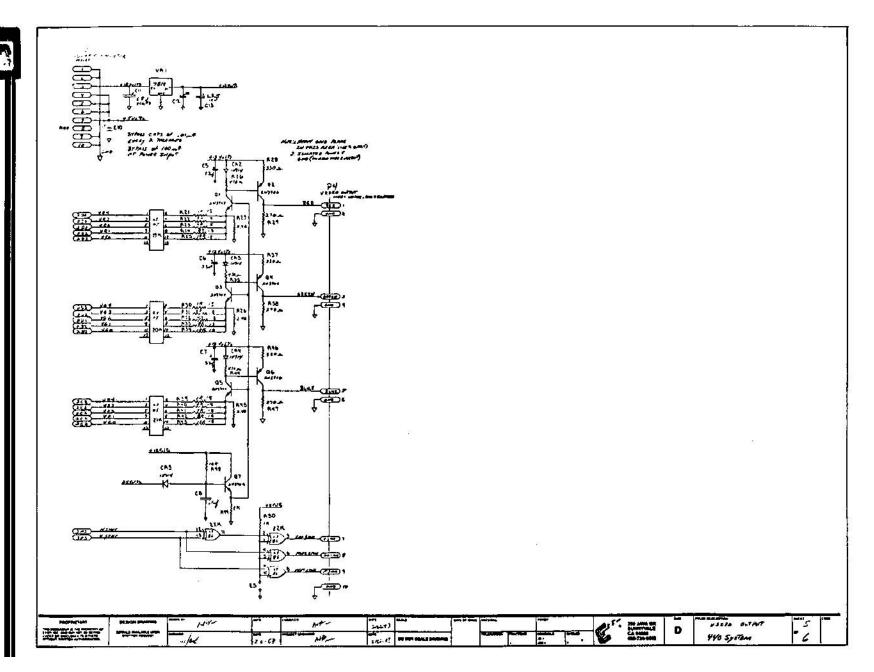


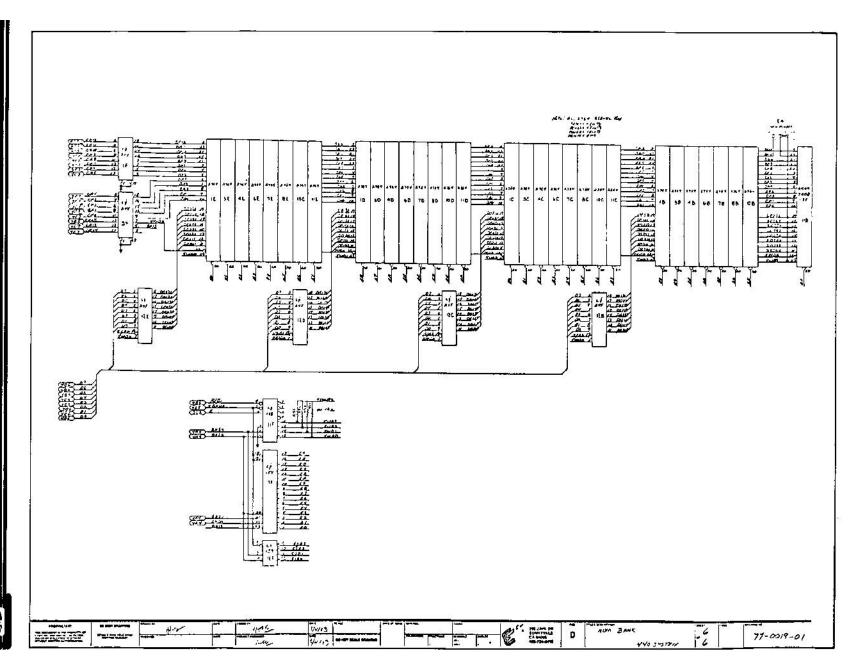


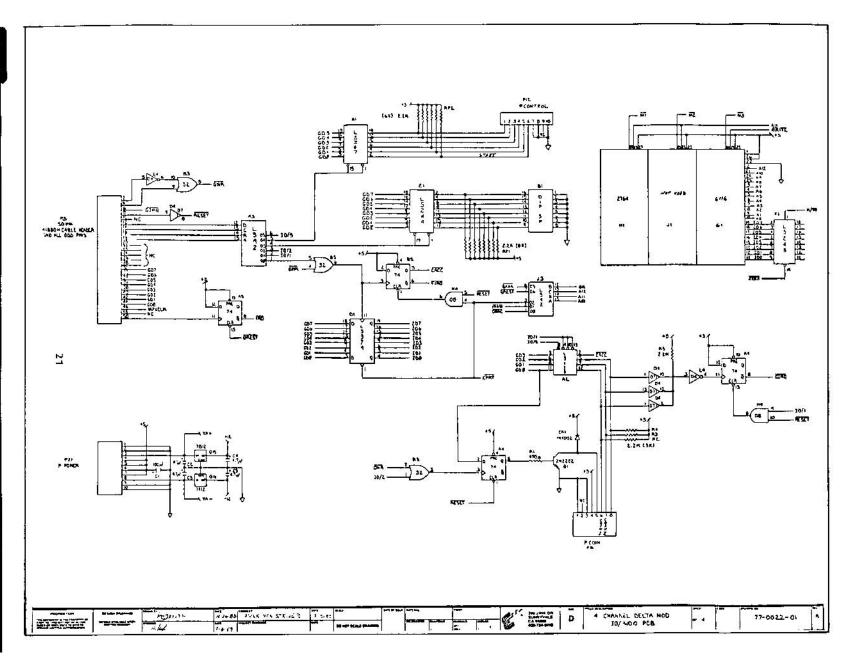


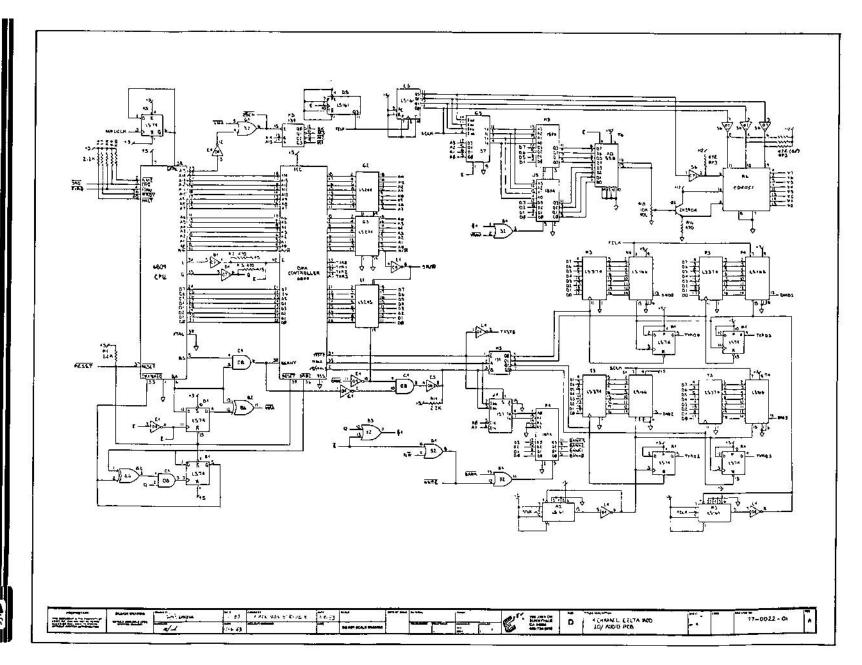


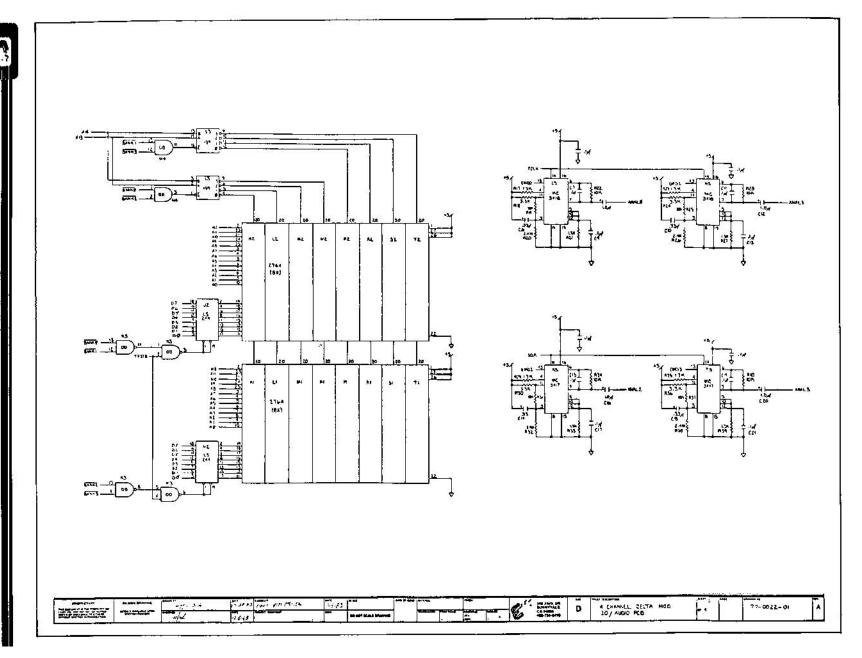


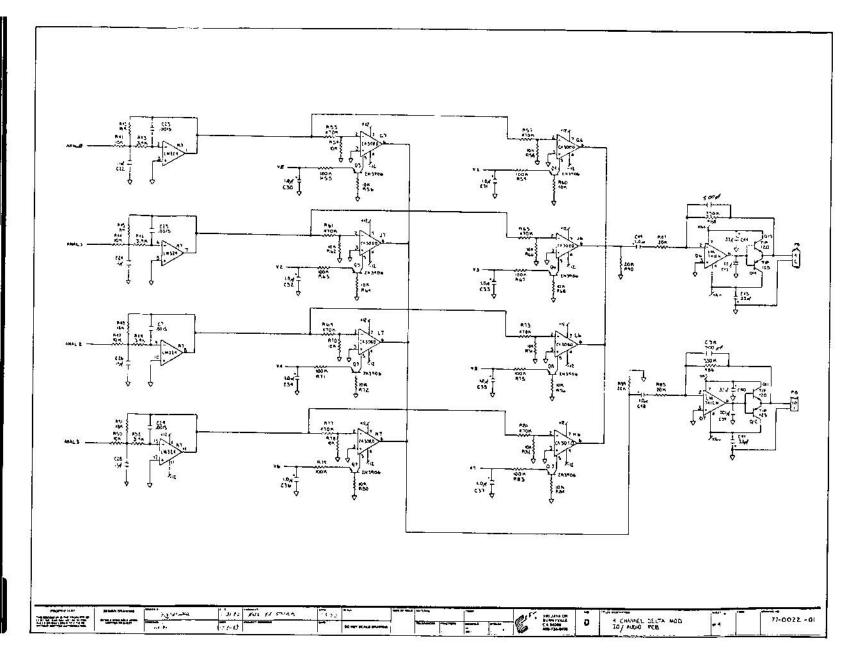


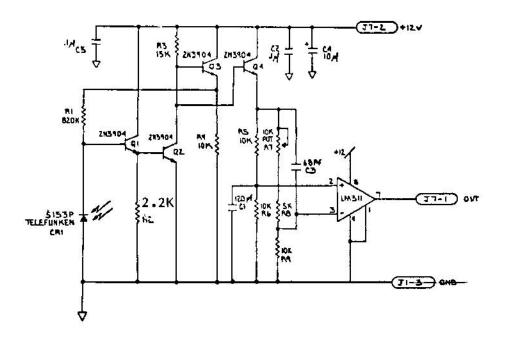






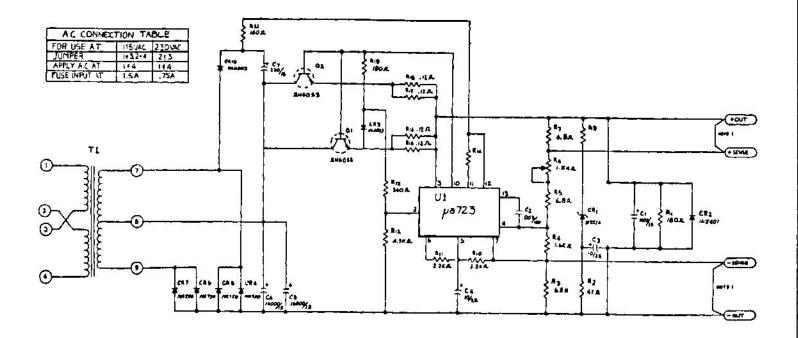


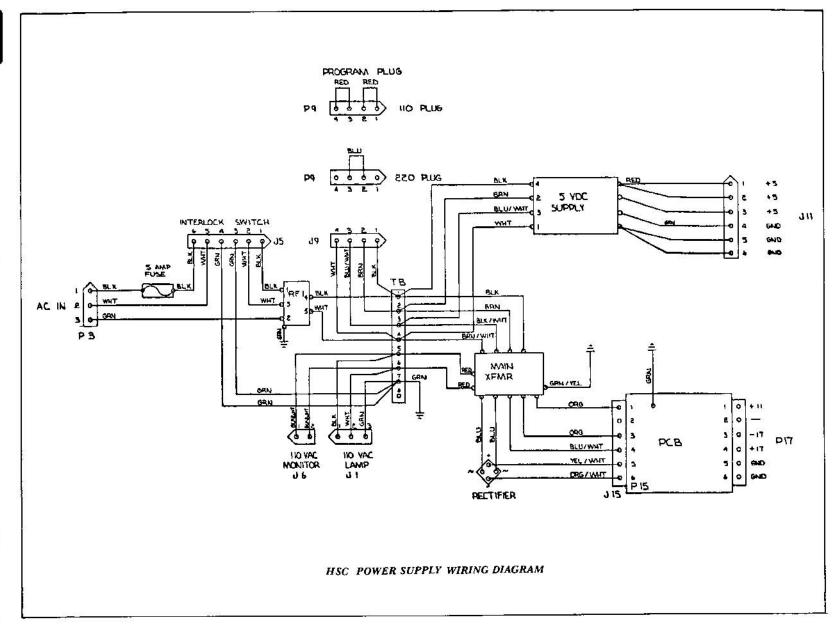




			m=	PART BUMBER			DESCRIP	THOM		QTY
e Mana	mp Ti lingti	10	(Sample		μη (/ /» ≃	0	TTEALBRINS	CA 94006		
OEC _			· 5	inflex)	260	HPLI	404-734-941			
nn oec	nurii a t	a		- POI	PHOTO DETECTOR P		R PC	CB		
ٱ₽₿	PEAN CAMACINA	n .		Part of		$\overline{}$	CHO 0441 00			•
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MOVECTION	-	MOUT			-	1640		rgn per	10.01	100









MECHANICAL PARTS

APPENDIX B:

The following is a list of parts with part numbers should you ever need to order replacement parts for your Cheyenne™. Replacement parts orders should be placed through your local "Exidy" Distributor.

PART NUMBER	DESCRIPTION
01-0111-00	ASSEMBLY LOCIC P. AUDIO DCB SET
01-0111-00	ASSEMBLY, LOGIC & AUDIO PCB SET
98-0006-00	ASSEMBLY, CABINET
74-0001-00	ASSEMBLY, REAR DOOR
65-0131-00	BRACKET, INTERLOCK REAR DOOR
65-0132-00	BRACKET, INTERLOCK COIN DOOR
48-5012-00	SWITCH INTERLOCK
48-3006-00	SWITCH, START BUTTON
95-0018-00	ASSEMBLY, FLUORESCENT FIXTURE
95-0019-00	BULB, FLUORESCENT 15W
95-0030-00	STARTER, FLUORESCENT
95-0017-00	SPEAKER 6×9
65-0114-00	GRILL, SPEAKER
00 011 00	ORIGE, STEARER
79'-0001-00	ASSEMBLY, 19" COLOR MONITOR
90-0101-00	ASSEMBLY, BEZEL
00 0.01	MOSEMBET, BEZEE
90-0096-00	ASSEMBLY, COIN DOOR
95-0036-00	COIN BOX ENCLOSURE
95-0035-00	COIN DOOR
95-0016-00	CASH BOX PLASTIC
95-0015-00	COIN COUNTER
90-0098-00	ASSEMBLY INTERNAL ARTWORK
80-0075-00	INTERNAL ARTWORK RIGHT & LEFT
80-0077-00	INTERNAL ARTWORK TOP
80-0078-00	INTERNAL ARTWORK BOTTOM
80-0106-00	OVERLAY, CONTROL PANEL
80-0110-00	DECAL, LEFT SIDE
80-0109-00	DECAL, RIGHT SIDE
80-0108-00	PLEX, MONITOR
65-0113-00	BRACKET, MONITOR
80-0107-00	PLEX, LOGO
65-0110-00	BRACKET, LOWER
65-0111-00	BRACKET, UPPER
80-0068-00	MIRROR
65-0113-00	BRACKET, MIRROR
51-2204-00	SCREW, #8 × 1/2 P.H.X.
	(continued)

HA	RN	ESS
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PART NUMBER	DESCRIPTION	
49-0067-05	ASSEMBLY, GUN	
49-0066-05	ASSEMBLY, FLUORESCENT LAMP	
49-0065-05	ASSEMBLY, 50 PIN RIBBON CABLE	
49-0064-05	ASSEMBLY, COIN DOOR	
49-0063-05	ASSEMBLY, CONTROL & COIN INTERFACE	
49-0062-05	ASSEMBLY SPEAKER	
49-0061-05	ASSEMBLY, INTERLOCK DIST.	
49-0060-05	ASSEMBLY, LAMP & MONITOR	
49-0059-05	ASSEMBLY, VIDEO	
49-0058-05	ASSEMBLY, D.C. SUPPLY	

GUN ASSEMBLY

PART NUMBER	DESCRIPTION
90-0091-00	ASSEMBLY, GUN MOUNT
75-0011-00	KNUCKLE MOUNT
75-0012-00	RING MOUNT
70-0048-00	PIVOT PIN
50-1103-27	SCREW, $6/32 \times 3/8$
90-0092-00	ASSEMBLY, FORE STOCK
95-0033-00	ROLL PINS $3/16 \times 1-1/4$
95-0034-00	SPRING, TRIGGER
75-0013-00	FORESTOCK, CASTING
70-0047-00	BUSHING, TRIGGER
70-0049-00	TUBE MOUNT
65-0125-00	TRIGGER PLATE
55-0004-00	NYLON SPACER 1/2 × 8 CLEARANCE
50-9905-00	SCREW, $256 \times 5/8$ P.H.X
50-2103-27	SCREW, $8/32 \times 3/8$
50-2104-00	SCREW, $8/32 \times 1/2$
50-2106-00	SCREW, $8/32 \times 3/4$
48-3005-00	SWITCH, MICRO #483005-001
37-0018-00	CLAMP, NYLON RICHO N-2
90-0093-00	ASSEMBLY, OPTIC TUBE
77-0020-05	ASSEMBLY PHOTO DETECTOR PCB
80-0076-00	PHOTO SENSOR HOLDER
80-0069-00	PLANO-CONVEX LENS 25MM \times 100MM F.L.
90-0113-00	ASSEMBLY, GUN STOCK
75-0015-00	CASTING, GUN BARREL
75-0016-00	CASTING, GUN STOCK
50-3105-26	ALLEN SCREW, $10-32 \times .625$
50-5418-15	ALLEN BOLT, $1/4-20 \times 2 1/4$

GUN ASSEMBLY

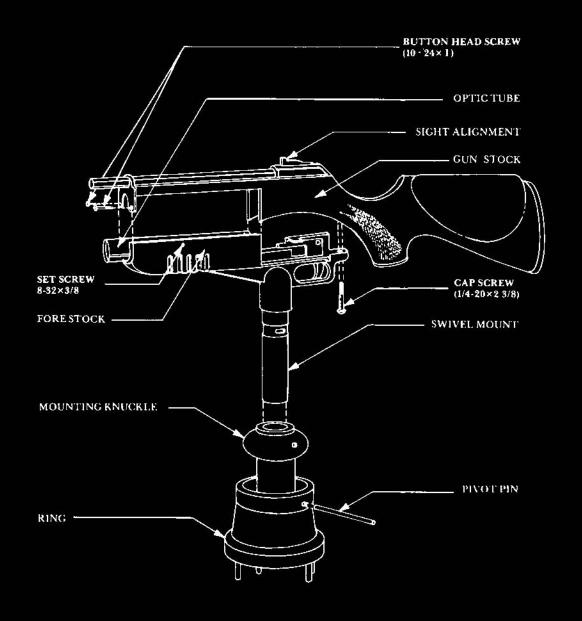
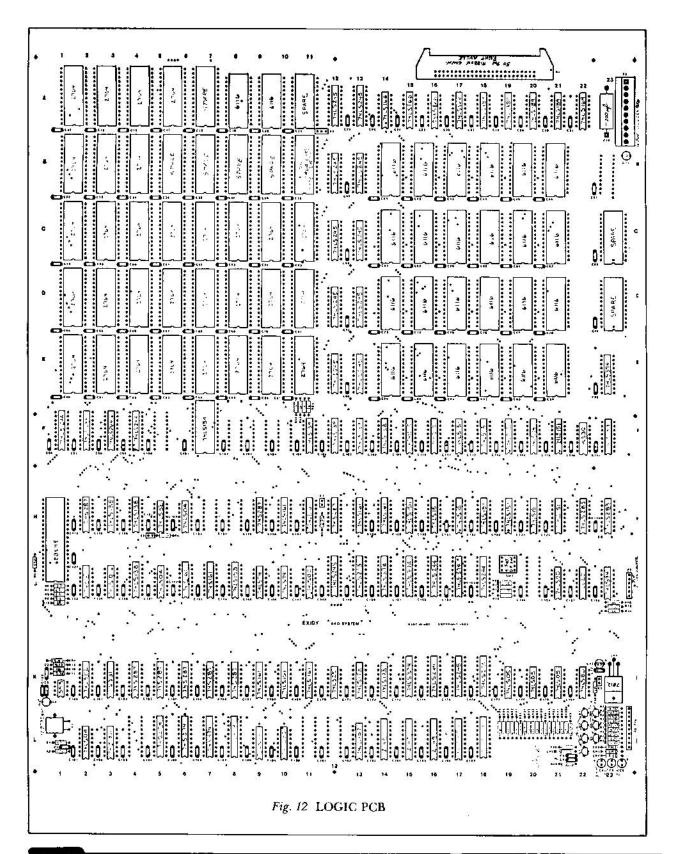


Fig. 11 GUN ASSEMBLY



LOGIC PCB DESCRIPTION LOGIC PCB BLANK LOGIC PCB SPACER, SNAP-IN CABLE, RIBBON 50 CONDUCTOR SWITCH, 4 POSITION DIP SOCKET, 16 PIN SOCKET, 24 PIN SOCKET, 28 PIN SOCKET, 28 PIN CONNECTOR, 50 PIN RIBBON CONNECTOR, 50 PIN RIBBON CONNECTOR, 10 POSITION INLINE CONNECTOR, 10 POSITION INLINE CONNECTOR, 10 POSITION MALE CRYSTAL, 12.979 MHZ LC., 2804 RAM (300NS) LC., 2149 RAM (35NS) LC., 2149 RAM (35NS) LC., 68B09E CPU 2MHZ LC., 6116

40-0021-06 40-0021-10 40-0061-00 CONNECTOR, 10 POSITION INLINE 40-0061-00 CONNECTOR, 10 POSITION INLINE 29-0005-00 CRYSTAL, 12-979 MHZ 28-0005-00 I.C., 2804 RAM (300NS) 28-0006-00 I.C., 2190 RAM (35NS) 27-0003-00 I.C., 68809E CPU 2MHZ 23-0045-00 I.C., 6116 22-0001-02 I.C., 74LS00 I.C., 74LS04 22-0003-02 I.C., 74LS04 22-0003-02 I.C., 74LS04 22-0007-02 I.C., 74LS08 22-0007-02 I.C., 74LS32 22-0011-02 I.C., 74LS32 22-0011-02 I.C., 74LS18 22-0011-02 I.C., 74LS18 22-0011-02 I.C., 74LS18 22-0014-02 I.C., 74LS18 22-0016-02 I.C., 74LS18 22-0016-02 I.C., 74LS166 I.C., 74LS161 22-0016-02 I.C., 74LS245 I.C., 74LS374 I.C., 74LS161 22-0011-02 I.C., 74LS161 22-0011-02 I.C., 74LS161 22-0011-02 I.C., 74LS166 I.C., 74LS166 I.C., 74LS166 I.C., 74LS166 I.C., 74LS160 I	41-0009-00	CONNECTOR, 50 PIN RIBBON	
40-0061-00 CONNECTOR, 10 POSITION MALE 29-0005-00 CRYSTAL, 12.979 MHZ 28-0005-00 I.C., 2804 RAM (300NS) 28-0006-00 I.C., 2149 RAM (35NS) 27-0003-00 I.C., NE555 25-0007-00 I.C., 68B09E CPU 2MHZ 23-0045-00 I.C., 6116 22-0001-02 I.C., 74LS00 22-0003-02 I.C., 74LS04 22-0007-02 I.C., 74LS02 22-0011-02 I.C., 74LS02 22-0011-02 I.C., 74LS12 22-0011-02 I.C., 74LS112 22-0011-02 I.C., 74LS139 22-0011-02 I.C., 74LS18 22-0011-02 I.C., 74LS16 22-0016-01 I.C., 74LS157 22-0016-01 I.C., 74LS157 22-0017-02 I.C., 74LS161 22-0017-02 I.C., 74LS161 22-0017-02 I.C., 74LS157 22-0011-02 I.C., 74LS161 22-0017-02 I.C., 74LS166 22-0020-02 I.C., 74LS166 22-0021-01 I.C., 74S374 22-0021-01 I.C., 74S86 22-0027-02 I.C., 74LS151 22-001-02 I.C., 74LS151 22-0027-02 I.C., 74LS151 22-0041-02 I.C., 74LS169 22-0044-02 I.C., 74LS244 22-0062-02 I.C., 74LS244 22-0062-02 I.C., 74LS244 22-0062-02 I.C., 74LS05 22-0063-02 I.C., 74LS30			
29-0005-00 28-0006-00 1.C., 2804 RAM (300NS) 28-0006-00 1.C., 2149 RAM (35NS) 27-0003-00 1.C., 68B09E CPU 2MHZ 23-0045-00 1.C., 6416 22-0001-02 1.C., 74LS00 22-0003-02 1.C., 74LS04 22-0005-02 1.C., 74LS0 22-0010-02 1.C., 74LS0 22-0010-02 1.C., 74LS10 22-0011-02 1.C., 74LS112 22-0012-02 1.C., 74LS112 22-0013-02 1.C., 74LS118 22-0014-02 1.C., 74LS18 22-0015-02 1.C., 74LS15 22-0016-01 1.C., 74LS16 22-0016-02 1.C., 74LS16 22-0017-02 1.C., 74LS16 22-0017-02 1.C., 74LS166 22-0020-02 1.C., 74LS166 22-0020-02 1.C., 74LS166 22-0021-01 1.C., 74LS374 22-0021-01 1.C., 74LS374 22-0021-01 1.C., 74LS374 22-0021-02 1.C., 74LS154 22-0021-02 1.C., 74LS154 22-0027-02 1.C., 74LS151 22-0041-02 1.C., 74LS151 22-0044-02 1.C., 74LS151 22-0044-02 1.C., 74LS169 22-0044-02 1.C., 74LS169 22-0044-02 1.C., 74LS283 1.C., 74LS30			
28-0005-00 28-0006-00 1.C., 2149 RAM (300NS) 27-0003-00 1.C., NE555 25-0007-00 1.C., 68809E CPU 2MHZ 23-0045-00 1.C., 74LS00 22-0001-02 1.C., 74LS00 22-0003-02 1.C., 74LS04 22-0005-02 1.C., 74LS08 22-0007-02 1.C., 74LS08 22-0010-02 1.C., 74LS02 22-0010-02 1.C., 74LS32 22-0011-02 1.C., 74LS12 22-0012-02 1.C., 74LS112 22-0013-02 1.C., 74LS138 22-0014-02 1.C., 74LS139 22-0016-01 1.C., 74LS166 22-0016-02 1.C., 74LS166 22-0020-02 1.C., 74LS166 22-0020-02 1.C., 74LS154 22-0011-02 1.C., 74LS166 22-0027-01 1.C., 74LS154 22-0027-01 1.C., 74LS154 22-0027-02 1.C., 74LS151 22-0041-02 1.C., 74LS151 22-0044-02 1.C., 74LS169 22-0044-02 1.C., 74LS283 22-0061-02 1.C., 74LS283 22-0061-02 1.C., 74LS283 22-0061-02 1.C., 74LS283 22-0061-02 1.C., 74LS283 22-0063-02 1.C., 74LS283 22-0063-02 1.C., 74LS283 22-0063-02 1.C., 74LS265 22-0063-02 1.C., 74LS265 22-0063-02 1.C., 74LS283 22-0063-02 1.C., 74LS283 22-0063-02 1.C., 74LS30			
28-0006-00 27-0003-00 1.C., 2149 RAM (35NS) 27-0003-00 1.C., NE555 25-0007-00 1.C., 68B09E CPU 2MHZ 23-0045-00 1.C., 6116 22-0001-02 21.C., 74LS00 22-0002-02 1.C., 74LS02 22-0005-02 1.C., 74LS08 22-0005-02 1.C., 74LS08 22-0010-02 1.C., 74LS120 22-0010-02 1.C., 74LS120 22-0012-02 1.C., 74LS112 22-0012-02 1.C., 74LS118 22-0014-02 1.C., 74LS138 22-0016-01 1.C., 74LS161 22-0016-02 1.C., 74LS161 22-0016-02 1.C., 74LS166 22-0020-02 1.C., 74LS166 22-0020-02 1.C., 74LS374 22-0021-01 1.C., 74LS374 22-0021-01 1.C., 74LS386 22-0021-02 1.C., 74LS386 22-0027-02 1.C., 74LS151 22-0010-02 1.C., 74LS161 22-0010-02 1.C., 74LS164 22-0021-01 1.C., 74LS366 22-0027-02 1.C., 74LS154 22-0021-02 1.C., 74LS164 22-0021-02 1.C., 74LS166 22-0024-02 1.C., 74LS169 22-0044-02 1.C., 74LS169 22-0044-02 1.C., 74LS283 22-0061-02 1.C., 74LS283 22-0061-02 1.C., 74LS283 22-0061-02 1.C., 74LS169 1.C., 74LS283 22-0061-02 1.C., 74LS244 22-0062-02 1.C., 74LS95 1.C., 74LS95 1.C., 74LS95 1.C., 74LS95 1.C., 74LS95			
27-0003-00			
25-0007-00		I.C., 2149 RAM (35NS)	
23-0045-00 22-0001-02 1.C., 74LS00 22-0002-02 1.C., 74LS02 22-0003-02 1.C., 74LS08 22-0005-02 1.C., 74LS08 22-0007-02 1.C., 74LS30 22-0010-02 1.C., 74LS32 22-0011-02 1.C., 74LS12 22-0012-02 1.C., 74LS18 22-0013-02 1.C., 74LS18 22-0015-02 1.C., 74LS139 22-0016-01 1.C., 74LS161 22-0016-02 1.C., 74LS161 22-0016-02 1.C., 74LS161 22-0010-02 1.C., 74LS161 22-0010-02 1.C., 74LS161 22-0017-02 1.C., 74LS166 22-0020-02 1.C., 74LS1566 22-0020-02 1.C., 74LS154 22-0021-01 1.C., 74S86 1.C., 74LS154 22-0027-01 1.C., 74LS151 22-0031-02 1.C., 74LS151 22-0041-02 1.C., 74LS169 22-0041-02 1.C., 74LS169 22-0044-02 1.C., 74LS169 22-0044-02 1.C., 74LS244 22-0062-02 1.C., 74LS244 22-0063-02 1.C., 74LS05 22-0063-02 1.C., 74LS05			
22-0001-02 22-0002-02 1.C., 74LS00 22-0003-02 1.C., 74LS04 22-0005-02 1.C., 74LS08 22-0007-02 1.C., 74LS32 22-0010-02 1.C., 74LS32 22-0011-02 1.C., 74LS12 22-0013-02 1.C., 74LS138 22-0014-02 1.C., 74LS139 22-0016-02 1.C., 74LS157 22-0016-02 1.C., 74LS161 22-0017-02 1.C., 74LS161 22-0017-02 1.C., 74LS157 22-0016-02 1.C., 74LS161 22-0017-02 1.C., 74LS161 22-0017-02 1.C., 74LS164 22-0020-02 1.C., 74LS157 22-0021-01 1.C., 74LS166 22-0020-02 1.C., 74LS166 22-0021-02 1.C., 74LS161 22-001-02 1.C., 74LS154 22-0021-02 1.C., 74LS166 22-0024-02 1.C., 74LS169 22-0044-02 1.C., 74LS169 22-0044-02 1.C., 74LS283 22-0061-02 1.C., 74LS283 22-0063-02 1.C., 74LS283 22-0063-02 1.C., 74LS265 22-0063-02 1.C., 74LS05		I.C., 68B09E CPU 2MHZ	
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22-0021-02 I.C., 74LS374 22-0022-02 I.C., 74LS154 22-0027-01 I.C., 74S86 22-0030-02 I.C., 74LS151 22-0041-02 I.C., 74LS10 22-0043-02 I.C., 74LS169 22-0044-02 I.C., 74LS283 22-0061-02 I.C., 74LS244 22-0062-02 I.C., 74LS30 22-0063-02 I.C., 74LS30		I.C., 74LS245	
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22-0063-02 I.C., 74LS30	22-0062-02		
(continued)	22-0063-02		
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PART NUMBER

77-0019-04

77-0019-05

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48-5016-00

44-1601-00

44-2401-00

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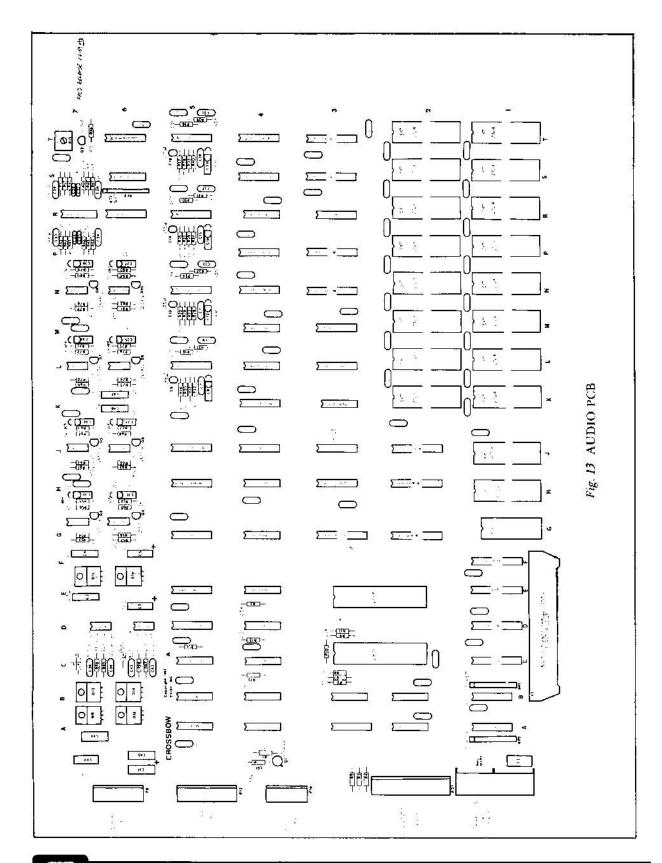
41-0009-00

LOGIC PCB

LOGIC PCB				
PART NUMBER	DESCRIPTION			
100				
22-0064-02	I.C., 74LS25			
22-0065-02	I.C., 74L\$153			
22-0066-02	LC., 741.S173			
22-0067-02	I.C., 74LS189			
22-0068-02	I.C., 74LS273			
21-0006-00	REGULATOR, 7812			
21-0007-00	TRANSISTOR, 2N3904			
21-0008-00	TRANSISTOR, 2N3906			
20-0008-00	DIODE, 1N914			
13-1062-00	CAPACITOR, 10UF			
13-1075-00	CAPACITOR, 100UF			
13-6844-00	CAPACITOR, 6.8µF DIP-TANT			
11-3305-02	CAPACITOR, 3.3µF			
10-1034-1	CAPACITOR, .01µF			
10-1044-1	CAPACITOR, .1µF			
02-1012-00	RESISTOR, 100 OHM			
02-1021-00	RESISTOR, 1K 1%			
02-1022-00	RESISTOR, 1K			
02-1032-00	RESISTOR, 10K			
02-1052-00	RESISTOR, IMEG			
02-1631-00	RESISTOR, 16K			
02-2021-00	RESISTOR, 2K 1%			
02-2222-00	RESISTOR, 2.2K			
02-2712-00	RESISTOR, 270 OHM			
02-3312-00	RESISTOR, 330 OHM			
02-3322-00	RESISTOR, 3.3K			
02-4021-00	RESISTOR, 4K 1%			
02-4712-00	RESISTOR, 470 OHM			
02-4722-00	RESISTOR, 4.7K			
02-8021-00	RESISTOR, 8K 1%			

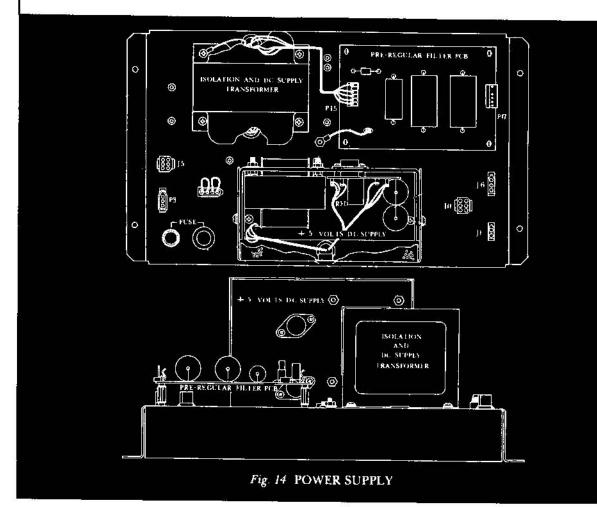
AUDIO PCB

PART NUMBER	DESCRIPTION	
	DESCRIPTION	
77-0022-04	AUDIO PCB BLANK	
77-0022-05	AUDIO PCB	
49-5002-00	SWITCH, 8 POSITION DIP	
44-1601-00	SOCKET, 16 PIN	
44-2401-00	SOCKET, 24 PIN	
44-2801-00	SOCKET, 28 PIN	
44-4001-00	SOCKET, 40 PIN	
41-0003-00	CONNECTOR, 10 PIN FEMALE	
40-0005-10	CONNECTOR, 10 PIN MOLEX	
40-0021-08	CONNECTOR, 8 POS. INLINE	
40-0021-10	CONNECTOR, 10 POS. INLINE	
40-0021-12	CONNECTOR, 12 POS. INLINE	
27-0004-00	I.C., MC3417L	
27-0006-00	I.C., AD558	
27-0007-00	LC., MC3418	
26-0005-00	I.C., 6844	
25-0008-00	I.C., 6809 CPU	
23-0045-00	I.C., 6116	
22-0001-02	IC., 74LS00	
22-0003-02	IC., 74LS04	
22-0004-00	IC., 7407	
22-0005-02	IC., 74LS08	
22-0010-02	IC., 74LS32	
22-0011-02	1C., 74LS74	
22-0014-02	IC., 74LS139	
22-0015-02	IC., 74LS155	
22-0016-02	IC., 74LS161	
22-0017-02	IC., 74LS166	
22-0020-02	IC., 74LS160	
22-0021-02	IC., 741.5245	
22-0026-00	IC., LM324	
22-0027-02	1C., 74LS86	
22-0028-00	IC., 4051	
22-0036-00	IC., 4031 IC., LM741	
22-0038-02	IC., 74LS367	
22-0039-02	IC., 74LS42	
22-0061-02	IC., 74LS42	
22-0067-02	IC., 74LS189A	
22-0071-00	IC., 7406	
22-0077-00	IC., CA3080	
21-0001-00	TRANSISTOR, TIP 120	
21-0002-00	TRANSISTOR, TIP 125	
21-0005-00	REGULATOR, 7912	
21-0006-00	REGULATOR, 7912 REGULATOR, 7812	
21-0007-00	TRANSISTOR, 2N3904	
21-0008-00	TRANSISTOR, 2N3904 TRANSISTOR, 2N3906	
21-0010-00	TRANSISTOR, 2N2222	
20-0001-00	DIODE, 1N4002	



POWER SUPPLY

PART NUMBER	DESCRIPTION	
90-0094-00	ASSEMBLY, POWER SUPPLY	7.77
32-0002-00	PLUS 5 VOLT REGULATED POWER SUPPLY	
130-0003-00	ASSEMBLY, TRANSFORMER	
90-0017-00	GROMMET	
77-0003-04	PRE-REGULATOR, PCB BLANK	
77-0003-04	PRE-REGULATOR, PCB	
65-0133-00	CHASSIS, POWER SUPPLY	
65-0134-00	PROTECTIVE COVER, +5 VOLT POWER SUPPLY	
58-0062-00	STANDOFF, PCB	
45-0012-00	TERMINAL, TAB	
40-0005-06	CONNECTOR, 6 PIN	
34-0002-00	FUSE HOLDER	
31-0001-00	FILTER, AC LINE	
20-0007-00	RECTIFIER, BRIDGE	



OPTICAL SENSOR PCB

à E	PART NUMBER	DESCRIPTION	
-			
	77-0020-04	DITOTO DUTTOTOR BOR BI AND	
	1931 1830.7832 - 1837.73	PHOTO DETECTOR PCB BLANK	
	77-0020-05	PHOTO DETECTOR PCB	
	22-0070-00	I.C., LM311	
	21-0007-00	TRANSISTOR, 2N3904	
	20-0012-00	DIODE, PHOTO (TELEFUNKEN 153P)	
	13-1062-00	CAPACITOR, 10µF	
	10-1044-1	CAPACITOR, .1µF	
	10-1201-02	CAPACITOR, 120PF CERAMIC DISC.	
	10-6800-02	CAPACITOR, 68PF CERAMIC DISC.	
	07-0004-00	CAPACITOR, VARIABLE 10K TEN TURN TRIMPOT	
	02-1032-00	RESISTOR, 10K	
	02-1532-00	RESISTOR, 15K	
	02-2222-00	RESISTOR, 2.2K	
	02-5022-00	RESISTOR, 5K	
	02-8242-00	RESISTOR, 820K	

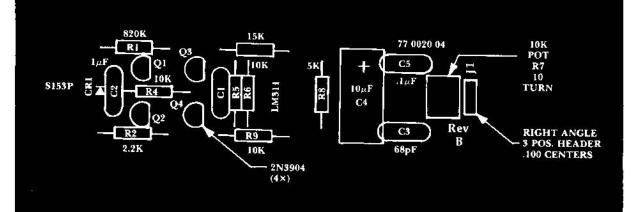


Fig. 15 OPTICAL PCB

MISCELLANEOUS

PART NUMBER	DESCRIPTION	**
00-0007-00	CHEYENNE™ MANUAL	
49-0069-05	AC POWER CORD	
35-0001-00	AC LINE FUSE 5 AMP	
135-0024-00	110 AC PROGRAM PLUG	
137-0025-00	220 AC PROGRAM PLUG	
5		X6