

Game Plan, Inc.

ATTACHIO MOUSE



02-30086

WARNING

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause interference to radio communications. As temporarily permitted by regulation it has not been tested for compliance [with the limits for Class A computing devices] pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference. Operation of this equipment in a residential area is likely to cause interference in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference.

MACHO MOUSE

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INSTALLATION

1. Visually inspect all connectors to ensure none have become loose or broken during shipment.
2. Install 4 provided leg levellers to bottom of cabinet and level cabinet.
3. The power is controlled by a switch located on top of the cabinet. Plug game into an A.C. only outlet 115v 60 cycle.

CAUTION

1. Do not install this game in places directly exposed to sunlight or excessive heat, to prevent rising internal temperatures.
2. Do not remove the A.C. ground prong from the plug.
3. High voltage runs through the monitor. Only persons familiar with safety measures should make any adjustments.
4. As with any solid state games, the power should be turned off before replacing any parts or disconnecting any plugs.
5. Always take the logic board(s) to your distributor for repair. Do not attempt to make any repairs with a volt-ohmmeter or other test equipment, as the internal voltage of such equipment may damage the circuitry.

TO REMOVE THE CONTROL PANEL FOR SERVICE:

1. Open coin box door.
2. Unplug control panel jack located to the left of coin box opening.
3. Unlatch (2) clamps located on each side of cabinet.
4. Remove control panel for service.

GAME DESCRIPTION

The following paragraphs describe the video images, sound effects, and game strategy.

RESET MODE

Whenever power is applied (or momentarily interrupted), or the slam switch is activated, the game does the following:

- 1). Puts up a test pattern and then goes into attract mode.
- 2). Erases any credits and sets all scores to zero.

ATTRACT MODE

After the power-up of MACHO MOUSE, the game will automatically cycle thru a sequence of video images that make of the attract mode.

This consists of:

- 1). MACHO MOUSE Screen
- 2). SIMULATED GAME PLAY Screen
- 3). SIMULATED BONUS ROUND Screen

COIN INPUT MODE

At all times, while power is on, regardless of the game conditions or the operator conditions, the computer will accept a coin input, and increment the coin counter. At any time during the attract mode should the credit counter be more than zero, the computer will cycle the START Screen.

GAME START MODE

At any point during the Start Screen, the computer scans the player start switches until one is pressed. Only then if the credit counter is equal or higher to number of players selected will the game initiate.

Upon game initialization, the computer subtracts the price of the selected game, resets the player scores to zero, and displays the game play sequence.

SINGLE PLAYER GAME

The game play sequence in MACHO MOUSE consists of 3 or 5 turns (operator selectable) beginning with a labyrinth of ladders, platforms water tanks, and collectible items. The goal of the game is to avoid snakes and cats as they pursue you and obtain all 9 items and return them to home base at the bottom level. Each turn lasts as long as the player can skillfully evade and outmaneuver the attacking cats and snakes. The player is allotted 5 bombs each life and level he can use to drop and detonate anywhere within the level. Bombs can affect the enemies, they can also end a player's turn if he touches the blast. During play, other ways to kill the enemies are:

1. Water Tanks; As MACHO MOUSE runs over the trap door, it opens for a short time. If any enemies wonder onto the open path, it will fall and the player will be awarded points.

2. Rocks; Upon the peaks of the right and left side of the level are a rock suspended above the ladder. When MACHO MOUSE touches either of these rocks, a sound tone is made and any enemies that collide with the rock will fall and be eliminated.

3. Getaway Platforms; If MACHO MOUSE runs onto a Getaway Platform, the platform will shift to another ladder or surface. If an enemy is tailing close, it may be caught off-guard and fall.

The player is awarded 100 points for any cats defeated, and 200 points for any snakes defeated. After a short time, more enemies will appear and a maximum of two snakes and three cats are allowed on the screen at a time.

As the player successfully retrieves all items, the remaining animals fall and collapse and the player is awarded their point values. The computer then re-draws a BONUS ROUND screen, similar to that of a slot machine. The player has three chances to match the characters with the formations shown below. If the player is lucky and wins any point value, the computer will award the player the respective point value and after an animation, will re-draw the next level with a new pattern to navigate.

The player can earn an extra MOUSE for scores over 5,000 or 10,000 points depending on the operator's selection.

As the player loses his last life, the message "GAME OVER" appears for a short time, and the computer will rewrite the player's score over the old highest score if his score is superior. Otherwise, the original score remains the same, and the game returns to the attract mode. The player's score will remain until another game begins.

TWO-PLAYER MODE

The play of MACHO MOUSE in a two-player game is identical to a single-player game but with the players alternating turns. The current player up is distinguished by the "PLAYER 1" or "PLAYER 2" message just below the score read-outs.

GAME OVER MODE

As mentioned in single-player mode, after the last player loses his final turn, the game over message is printed over the level, and any scores that exceed the current high score will replace it. The computer then re-draws the attract mode sequence, and begins it's attract routine.

OPERATOR OPTIONS

The standard options for MACHO MOUSE are:

<u>COINAGE</u>	<u>1 - 2 - 3</u>
2 coins 1 play	OFF OFF OFF
1 coin 1 play	ON OFF OFF *
1 coin 2 plays	OFF ON OFF
1 coin 3 plays	ON ON OFF
1 coin 4 plays	OFF OFF ON
1 coin 5 plays	ON OFF ON
1 coin 6 plays	OFF ON ON
1 coin 7 plays	ON ON ON

<u>NUMBER OF TURNS</u>	<u>4 - 5</u>
3	OFF OFF *
5	ON OFF

<u>BONUS TURN VALUE</u>	<u>6</u>
5,000	ON *
10,000	OFF

<u>GAME</u>	<u>7</u>
U/R	OFF *
T/T	ON

<u>IMPERVIOUS (TEST)</u>	<u>8</u>
TO ATTACKS	ON
NORMAL	OFF *

MONITOR SERVICE INSTRUCTIONS

K4600 IMPORTANT SERVICE SAFETY INFORMATION

WARNING: An isolation transformer must be used between the AC supply and the AC plug of the monitor before servicing or testing is performed since the chassis and the heat-sink are directly connected to one side of the AC line which could present a shock hazard.

The chassis of the monitor should never be connected to the ground. Before servicing is performed, read all the precautions labelled on the CRT and chassis.

X-RAY RADIATION WARNING NOTICE

WARNING: PARTS WHICH INFLUENCE X-RAY RADIATION IN HORIZONTAL DEFLECTION, HIGH VOLTAGE CIRCUITS AND PICTURE TUBE ETC. ARE INDICATED BY (★) IN THE PARTS LIST FOR REPLACEMENT PURPOSES. USE ONLY THE TYPE SHOWN IN THE PARTS LIST.

PRODUCT SAFETY NOTICE

WARNING: FOR CONTINUED SAFETY REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER RECOMMENDED PARTS. THESE PARTS ARE IDENTIFIED BY SHADING AND BY (Δ) ON THE SCHEMATIC DIAGRAM.

AVERTISSEMENT: POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

For replacement purposes, use the same type or specified type of wire and cable, ensuring that the positioning of the wires is followed (especially for H.V. and power supply circuits). Use of alternative wiring or positioning could result in damage to the monitor or in a shock or fire hazard.

The picture tube used, employs integral implosion protection and should be replaced with a tube of the same type number for continued safety.

When handling the CRT, shatter-proof goggles must be worn after completely discharging the high voltage circuit. Do not lift the picture tube by the neck.

PERFORMANCE AND OPERATING DATA

1. Apply a suitable power source to the monitor through an isolation transformer.
2. Apply a suitable signal source to the monitor PCB by means of P205.
3. Set up Controls.
All controls are preset at the factory, but may be adjusted to suit program material.

1.0 Supply

Voltage 108 VAC - 132 VAC

Frequency 50 Hz - 60 Hz

Note: Apply supply voltage through an isolation transformer with 1 Amp. capability.

2.0 High Voltage (EHT)

For 19"V models 25.5 ± 0.8 K.V. at 0 Beam

Note: Condition for above 1 (beam) = 0
A.C. = 120V

3. Service Set-Up Controls

- A. V. Adjustment VR501 set for 127V DC
- B. Vertical Size Cont = VR302
- C. Vertical Hold Cont = VR301
- D. Horizontal Hold Cont = VR351
- E. Horizontal Width Cont = L702
- F. Focus Control = VR702

- G. Screen Control = VR406
- H. Video Drive Controls - Red Drive = VR401
Green Drive = VR402
- I. CRT Cut Off Controls - Red Cutoff = VR403
Green Cutoff = VR404
Blue Cutoff = VR405

SERVICE INSTRUCTIONS

FOCUS

Adjust the Focus control (VR702), located on the HV unit (T701), for maximum over-all definition and fine picture detail.

+ 127V ADJUSTMENT (See Fig. 1)

The + 127V adj. control (VR501) is adjusted at the factory. However, if readjustment should be required, proceed as follows.

1. Operate monitor for at least 15 minutes at 120V AC line.
2. Connect Positive lead of V.T.V.M. to blue lead of TR502 negative lead to chassis ground.
3. Adjust VR501 to obtain + 127V reading.
4. After adjustment VR501 must be locked with a sealing varnish.

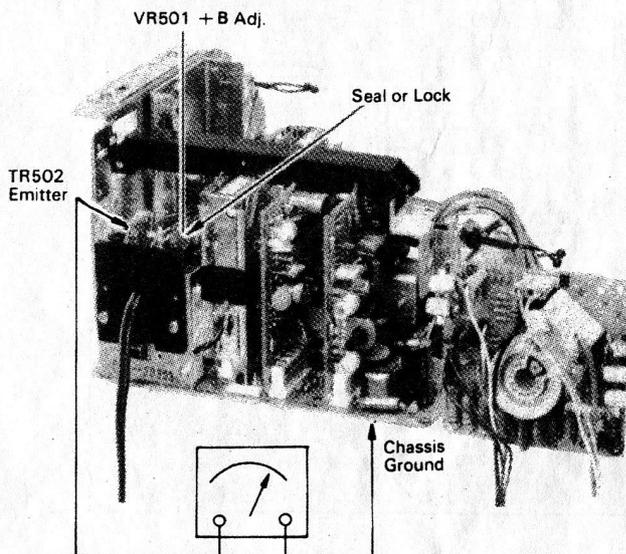


FIGURE 1

BLACK LEVEL CONTROL ADJUSTMENT

This control has been set at the factory and should not need further attention. If however when the game is connected a slight adjustment of VR201 may be necessary to obtain the proper black level (the black portion of the picture just extinguished).

VERTICAL SIZE (HEIGHT)

The vertical height control is a screw-driver adjustment. Location of this control is shown in Fig. 3. This control must be adjusted slowly, if necessary, until the picture or test pattern attains the correct vertical proportions.

CIRCUIT PROTECTION

A 3.0A pigtail fuse, mounted on the Main Board has been provided to protect the Power Output Circuit.

HORIZONTAL OSC. ALIGNMENT

(See Fig. 2)

A warm-up period of at least five minutes should be allowed before alignment is carried out. Set VR351 to center position.

Adjust L351 after grounding R328 plug. (TP32 of Vert/ Horiz. P.C. Board) through a 1uF/50V capacitor. Adjust L351 to obtain normal picture.

After adjustment, remove 1uF/50V capacitor.

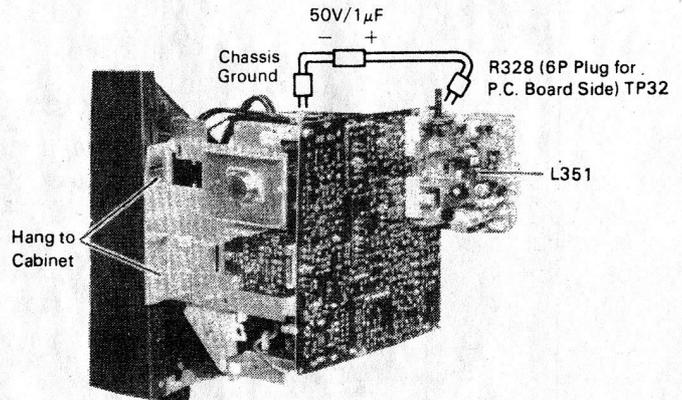


FIGURE 2

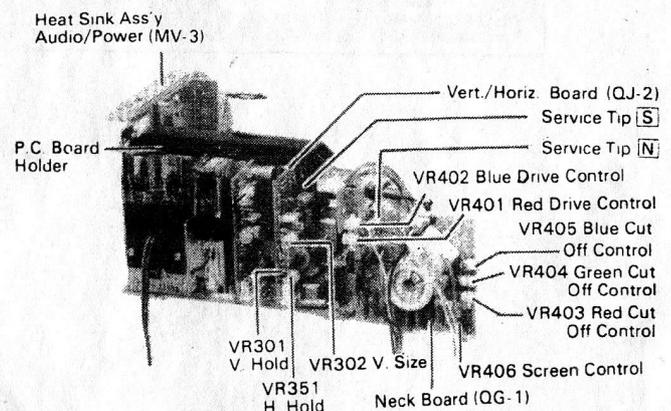
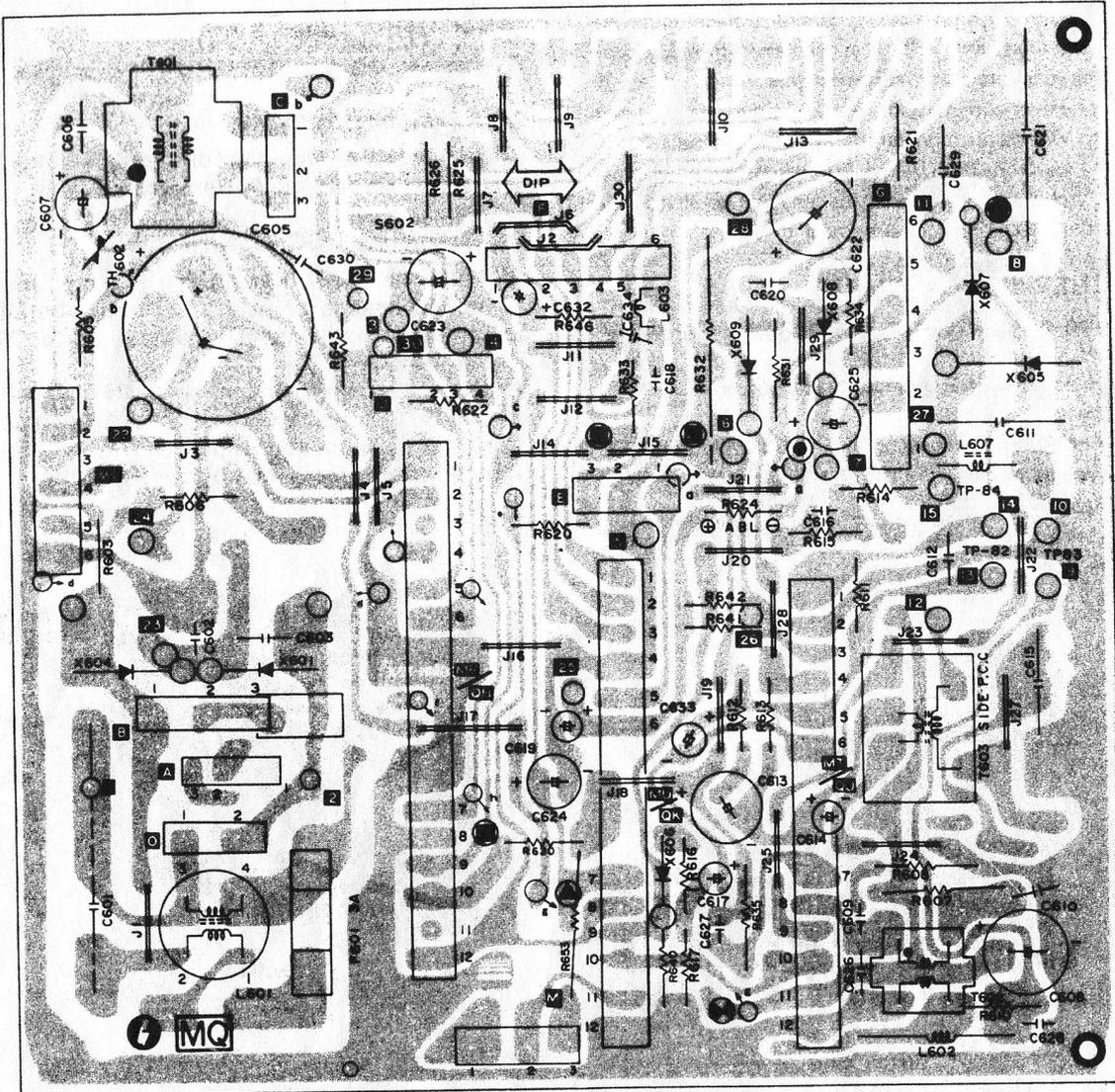


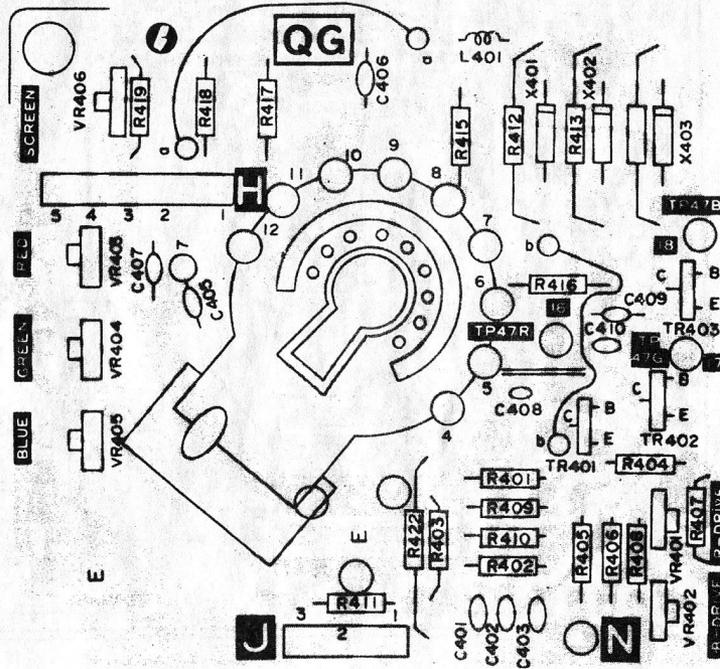
FIGURE 3

P.C. BOARD LAYOUT

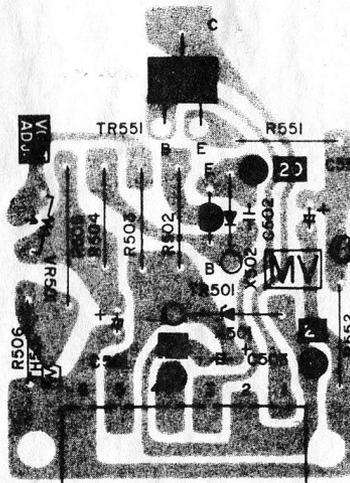


MAIN P.C. BOARD MQ-29

P.C. BOARD LAYOUT

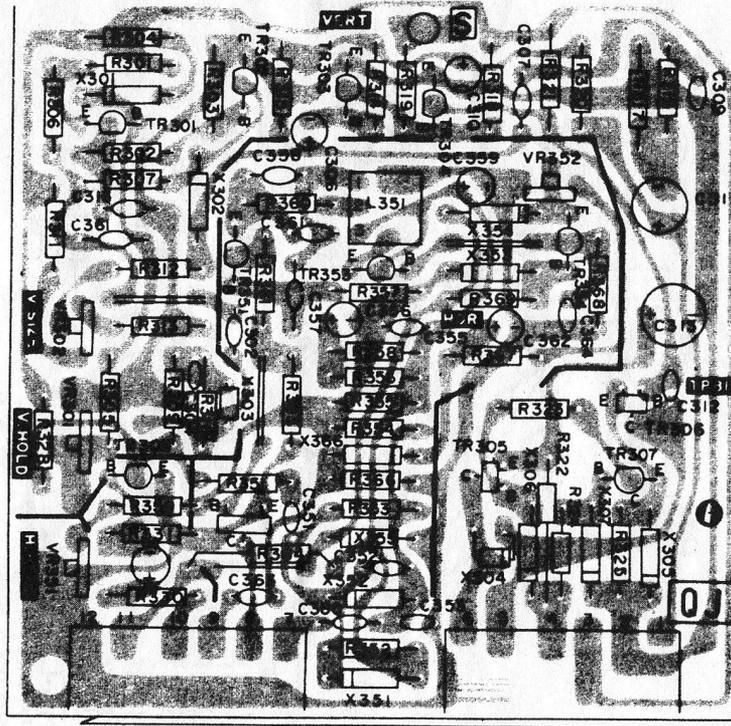


NECK P.C. BOARD MS/QG



POWER PC BOARD MV

P.C. BOARD LAYOUT



HORIZ/VERT P.C. BOARD MT/QJ

REPLACEMENT PARTS LIST

△ ★ SAFETY CRITICAL PARTS LIST

This receiver contains circuits and components included specifically for safety purposes.

For continued protection no changes should be made to the original design, and components shown in shaded areas of schematic, or △★ on parts list should be replaced with exact factory replacement parts.

The use of substitute parts may create a shock, fire, x-radiation or other hazard. Service should be performed by qualified personnel only.

MAIN BOARD (MQ-29)

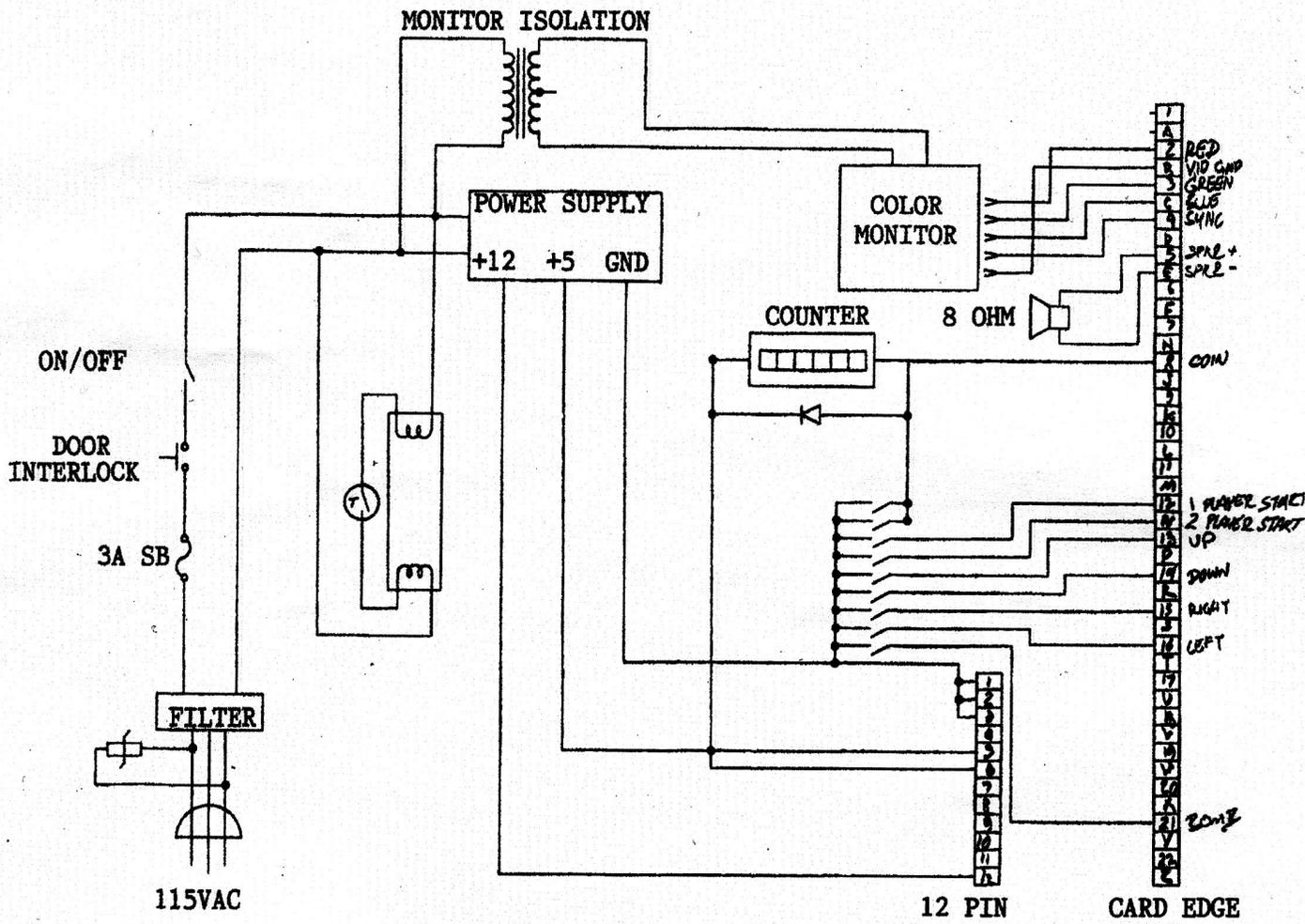
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
RESISTORS			CAPACITORS		
R603	340X3334-944	330k Ohm, ± 10%, 1/2W Carbon	△C601	203X1800-451	0.1 uF, 125V, ± 20% MM
R605	203X9014-584	1k Ohm, ± 5%, 1W M.O.	C602	80X0096-038	2200 pF, ± 10%, Z5F
R606	204X1425-021	470 Ohm, ± 10%, 5W W.W.	△C603	202X7810-214	2200 pF, 125V Ceramic
△ ★ R607	204X1450-508	2.7k Ohm, ± 10%, 5W W.W.	C604	80X0096-038	2200 pF, ± 10%, Z5F
R608	203X9014-603	1.2k Ohm, ± 5%, 1W M.O.	C608	203X0220-043	330 uF, 200V Electrolytic
R610	203X6500-246	22 Ohm, ± 5%, 1/8W Carbon	C605	203X1205-165	.0068 uF, 600V, ± 10% PP
R611	203X6700-562	1k Ohm, ± 5%, 1/2W Carbon	C607	203X0040-020	10 uF, 160V Electrolytic
R612	340X3471-944	470 Ohm, ± 10%, 1/2W Carbon	C608	203X0040-052	47 uF, 160V Electrolytic
R613	203X9010-757	1.2k Ohm, ± 5%, 1W M.O.	C609	202X7050-366	.0033 uF, 500V, ± 10% Ceramic
R614	203X5202-320	680k Ohm, ± 5%, 1/2W Comp.	C610	202X7050-483	.01 uF, 500V, ± 10% Ceramic
R615	203X5602-156	270k Ohm, ± 5%, 1/2W Comp.	C611	202X8140-022	100 pF, 3KV, ± 10% Ceramic
R616	203X6500-741	2.7k Ohm, ± 5%, 1/8W Carbon	C612	203X1201-047	.022 uF, 200V, ± 10% PP
R617	203X6501-088	68k Ohm, ± 5%, 1/8W Carbon	C613	203X0015-035	220 uF, 25V Electrolytic
R620	203X6500-508	270 Ohm, ± 5%, 1/8W Carbon	C614	203X0015-006	33 uF, 25V Electrolytic
R622	203X6500-689	1.5k Ohm, ± 5%, 1/8W Carbon	C615	203X1201-288	0.39 uF, 200V, ± 10% PP
R624	203X6205-843	1k Ohm, ± 5%, 1/2W Carbon	C616	202X8065-499	47 pF, 500V Ceramic
R630	203X5601-906	68k Ohm, ± 5%, 1/2W Carbon	C617	203X0025-019	1 uF, 50V Electrolytic
R631	203X9015-087	2.2 Ohm, ± 10%, 5W M.O.	C618	202X8000-577	82 pF, 50V, ± 5% Ceramic
R632	340X8121-731	120 Ohm, ± 5%, 5W Carbon	C619	203X0025-019	1 uF, 50V Electrolytic
R634	203X6000-002	2.2 Ohm, ± 5%, 1/8W Carbon	C620	203X1107-038	0.1 uF, 100V, ± 10% Mylar
R635	340X3682-944	6.8k Ohm, ± 5%, 1/2W Carbon	C621	202X9040-155	0.1 uF, 1.5KV, ± 20% Paper
R636	203X6500-645	1k Ohm, ± 5%, 1/8W Carbon	C622	203X0020-099	1000 uF, 35V Electrolytic
R640	203X6500-762	3.3k Ohm, ± 5%, 1/8W Carbon	C623	203X0015-053	470 uF, 25V Electrolytic
R641	203X6501-002	33k Ohm, ± 5%, 1/8W Carbon	C624	203X0015-021	100 uF, 25V Electrolytic
R642	203X6500-927	15k Ohm, ± 5%, 1/8W Carbon	C625	203X0040-020	10 uF, 160V Electrolytic
R643	203X5602-648	3.9M Ohm, ± 5%, 1/2W Comp.	C626	202X7050-009	100 pF, 500V, ± 10% Ceramic
R646	203X6500-468	180 Ohm, ± 5%, 1/8W Carbon	C627	202X8065-461	39 pF, 500V, ± 10% Ceramic
R647	340X5150-841	15 Ohm, ± 10%, 2W Carbon	C628	202X7000-327	2200 pF, 50V, ± 10% Ceramic
R648	340X2225-934	2.2M Ohm ± 5%, 1/4W Carbon	★C629	203X1270-470	6900 pF, 1.5KV, ± 5% PP
R649	340X3182-944	1.8k Ohm, ± 10%, 1/2W Carbon	C630	202X7810-214	2200 pF, 125V Ceramic
R650	340X3271-944	270 Ohm, ± 10%, 1/2W Carbon	C632	203X0005-029	470 uF, 6.3V Electrolytic
R651	340X5241-743	240 Ohm, ± 10%, 2W Carbon	C633	203X0315-033	2.2 uF, 50V Electrolytic
R652	340X3682-944	6.8k Ohm, ± 10%, 1/2W Carbon	C634	202X8000-164	6 pF, 50V, ± 0.5 pF Ceramic
			C637	202X8105-014	3 pF, 2 kV, ± 0.5 pF Ceramic
			C638	342X5632-040	.056 uF, 10% Mylar
SEMICONDUCTORS			MISCELLANEOUS		
TR601	200X3189-304	Transistor, 2SC1893	△F601	204X7120-062	Fuse (UL/CSA) 3A-125
X601	201X3130-109	Rectifier, (Si) RM-2AV 600V	J607	206X5003-960	Socket, 6 Pin
X602	66X0023-009	Rectifier, Power (Si) 500V PIV	P602	204X9600-260	Plug, 3 Pin (GT)
X603	66X0023-009	Rectifier, Power (Si) 500V PIV	P603	204X9600-254	Plug, 3 Pin (NM)
X604	66X0023-009	Rectifier, Power (Si) 500V PIV	P604	204X9600-298	Plug, 4 Pin (NM)
X605	200X8130-171	Diode (HS) SB-2CGL 1200V min.	P606	204X9600-351	Plug, 6 Pin (NM)
X606	201X2010-144	Diode (Si) IS2473-772	P607	204X9600-380	Plug, 6 Pin (GT)
X607	201X2100-119	Diode (HS) RC-2V 0.8 US	P608	204X9600-254	Plug, 3 Pin (NM)
X608	201X2130-234	Diode (HS) RU-2V	P610	204X9600-249	Plug, 2 Pin (GT)
X609	201X2130-234	Diode (HS) RU-2V	P611	204X9600-670	Plug, 2 Pin (NM)
X610	66X0023-009	Rectifier, Power (Si) 500V PIV	TH601	201X011-034	Thermistor
X611	66X0023-009	Rectifier, Power (Si) 500V PIV	TH602	201X022-007	Varistor
X612	66X0023-009	Rectifier, Power (Si) 500V PIV	J03	206X5019-207	Socket, 4 Pin
TRANSFORMERS & COILS			P201	204X9601-195	Plug, 6 Pin
△ L601	201X6000-112	Coil, Line Filter R-3	P202	204X9601-195	Plug, 6 Pin
L602	201X4600-042	Coil, Filter, 10 uH			
L603	201X4100-024	Coil, Peaking, 22 uH			
L607	201X4710-134	Coil, R-F Choke			
T601	201X9500-337	Transformer, Audio Output			
T602	201X1300-080	Transformer, Hor. Drive			
T603	202X1210-191	Transformer, Side PC			
L702	9A2795-001	Width Coil			

VERT/HOR BOARD (MT/QJ)

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
RESISTORS			CAPACITORS (CONT.)		
R301	203X6500-628	820 Ohm, ± 5%, 1/8W Carbon	C313	203X0025-087	47 uF, 50V Electrolytic
R302	203X6500-902	12k Ohm, ± 5%, 1/8W Carbon	C315	203X0015-082	10 uF, 25V Electrolytic
R303	203X6500-927	15k Ohm, ± 5%, 1/8W Carbon	C316	203X1100-220	3300 uF, 50V, ± 10% Mylar
R304	203X6500-886	10k Ohm, ± 5%, 1/8W Carbon	C317	202X8000-616	100 pF, 50V, ± 10% Ceramic
R305	203X6501-241	330k Ohm, ± 5%, 1/8W Carbon	C351	202X7000-281	1500 pF, 50V, ± 10% Ceramic
R306	203X6500-645	1k Ohm, ± 5%, 1/8W Carbon	C352	202X7000-247	1000 pF, 50V, ± 10% Ceramic
R307	203X6500-689	1.5k Ohm, ± 5%, 1/8W Carbon	C353	203X1100-573	0.022 uF, 50V, ± 10% Mylar
R309	203X6500-724	2.2k Ohm, ± 5%, 1/8W Carbon	C355	203X1100-858	0.1 uF, 50V, ± 10% Mylar
R310	203X6501-285	470k Ohm, ± 5%, 1/8W Carbon	C356	203X0015-105	4.7 uF, 25V Electrolytic
R311	203X6501-065	56k Ohm, ± 5%, 1/8W Carbon	C357	203X1201-013	0.015uF, 200V ± 10% PP
R312	203X6501-126	100k Ohm, ± 5%, 1/8W Carbon	C358	203X1201-034	0.018 uF, 200V, ± 10% PP
R313	203X6001-326	10k Ohm, ± 5%, 1/8W Carbon	C359	203X0040-013	4.7 uF, 160V Electrolytic
R314	203X6501-044	47k Ohm, ± 5%, 1/8W Carbon	C360	202X7000-482	0.01 uF, 50V, ± 10% Ceramic
R315	203X6500-628	820 Ohm, ± 5%, 1/8W Carbon	C361	203X1100-509	0.015 uF, 50V, ± 10% Mylar
R316	203X6500-420	120 Ohm, ± 5%, 1/8W Carbon	C362	203X0025-058	10 uF, 50V Electrolytic
R317	203X6206-441	2.2 Ohm, ± 5%, 1/2W Carbon	C363	203X1205-487	0.01 uF, 630V, ± 10% PP
R319	203X6500-169	100 Ohm, ± 5%, 1/8W Carbon	C364	202X7000-482	0.01 uF, 50V, ± 10% Ceramic
R320	203X6500-927	15k Ohm, ± 5%, 1/8W Carbon	SEMICONDUCTORS		
R321	203X6700-509	560 Ohm, ± 5%, 1/2W Carbon	TR301	200X4082-614	Transistor, 2SA826Q
R322	203X9100-121	22 Ohm, ± 5%, 2W M.O.	TR302	200X3174-006	Transistor, 2SC1740Q
R323	203X6500-689	1.5k Ohm, ± 5%, 1/8W Carbon	TR303	200X3174-006	Transistor, 2SA1740Q
R324	203X6500-988	27k Ohm, ± 5%, 1/8W Carbon	TR304	200X3174-006	Transistor, 2SC1740Q
R325	203X6500-326	47 Ohm, ± 5%, 1/8W Carbon	TR305	200X4049-081	Transistor, 2SA490YLBGLI
R328	203X6500-628	820 Ohm, ± 5%, 1/8W Carbon	TR306	200X3162-538	Transistor, 2SC1625YLBGLI
R330	203X6500-886	10k Ohm, ± 5%, 1/8W Carbon	TR307	200X3174-014	Transistor, 2SC1740R
R331	203X6501-209	220k Ohm, ± 5%, 1/8W Carbon	TR308	200X3174-006	Transistor, 2SC1740Q
R351	203X6500-724	2.2k Ohm, ± 5%, 1/8W Carbon	TR351	200X4085-415	Transistor, 2SA854Q
R352	203X6500-927	15k Ohm, ± 5%, 1/8W Carbon	TR352	200X3172-208	Transistor, 2SC1722BK5
R353	203X6500-944	18k Ohm, ± 5%, 1/8W Carbon	TR353	200X3174-006	Transistor, 2SC1740Q
R354	203X6500-783	3.9k Ohm, ± 5%, 1/8W Carbon	TR354	200X4082-614	Transistor, 2SA826Q
R355	203X6500-902	12k Ohm, ± 5%, 1/8W Carbon	X301	201X2010-144	Diode, (SI) IS2473-T72
R356	203X6500-561	470 Ohm, ± 5%, 1/8W Carbon	X302	201X2010-144	Diode, (SI) IS2473-T72
R357	203X6500-724	2.2k Ohm, ± 5%, 1/8W Carbon	X303	200X8000-026	Diode, (GE), IN60TVGL
R358	203X6500-666	1.2k Ohm, ± 5%, 1/8W Carbon	X304	200X8010-165	Diode (SI) ISS81
R359	203X6501-088	68k Ohm, ± 5%, 1/8W Carbon	X305	201X2010-165	Diode (SI) ISS81
R360	203X5500-471	27 Ohm, ± 5%, 1/4W Comp.	X306	201X2010-165	Diode (SI) ISS81
R361	203X6000-998	1.2k Ohm, ± 5%, 1/8W Carbon	X307	200X8010-102	Diode (SI) MA28W
R363	203X6500-666	1.2k Ohm, ± 5%, 1/8W Carbon	X308	200X8010-094	Diode (SI) IS2473
R364	203X9014-988	47k Ohm, ± 5%, 1W M.O.	X351	201X2010-144	Diode (SI) IS2473-T72
R365	203X6700-989	56k Ohm, ± 5%, 1/2W Carbon	X352	201X2010-144	Diode (SI) IS2473-T72
R366	203X6001-148	3.3k Ohm, ± 5%, 1/8W Carbon	X353	201X2010-144	Diode (SI) IS2473-T72
R367	340X2222-734	2.2k Ohm, ± 5%, 1/2W Carbon	X354	201X2010-144	Diode (SI) IS2473-T72
R368	203X6500-785	3.9k Ohm, ± 5%, 1/8W Carbon	X355	200X8220-851	Diode (Zener) RD10EBI
R369	203X6500-762	3.3k Ohm, ± 5%, 1/4W Carbon	X366	200X8100-130	Diode (HS) RU-1 0.3 US
R370	302X6100-961	1k Ohm, ± 5%, 1/4W Carbon	MISCELLANEOUS		
R371	203X6104-751	2.7k Ohm, ± 5%, 1/4W Carbon	J301	204X9300-958	Socket, 6 Pin
R383	340X2222-934	2.2k Ohm, ± 5%, 1/4W Carbon	J302	204X9300-958	Socket, 6 Pin
R384	340X2822-934	8.2k Ohm, ± 5%, 1/4W Carbon	P301	204X9601-195	Plug, 6 Pin
VR301	204X2122-093	Varistor, 250K Ohm, Vert. Hold	P302	204X9601-195	Plug, 6 Pin
VR302	204X2114-065	Varistor, 20K Ohm, Vert. Size	TH301	201X0000-534	Thermistor
VR351	204X2114-059	Varistor, 50K Ohm, Hor. Hold	TRANSFORMERS & COILS		
CAPACITORS			L351	201X5200-091	Coil, Horiz. Osc.
C301	203X1100-928	0.15 uF, 50V, ± 10% Mylar			
C302	203X1100-573	0.022 uF, 50V, ± 10% Mylar			
C304	203X1100-858	0.1 uF, 50V, ± 10% Mylar			
C306	203X0025-026	2.2 uF, 50V, Electrolytic			
C307	203X1100-928	0.15 uF, 50V, ± 10% Mylar			
C309	203X1100-858	0.1 uF, 50V, ± 10% Mylar			
C310	203X0010-011	22 uF, 16V Electrolytic			
C311	203X0020-099	1000 uF, 35V Electrolytic			
C312	202X7000-469	0.0082 uF, 50V, ± 10% Ceramic			

POWER BOARD (MV)

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
RESISTORS			SEMICONDUCTORS		
R501	204X1725-052	180 Ohm, ± 10%, 15W WW	TR501	200X3174-006	Transistor, 2SC1740Q
R502	203X6000-608	100 Ohm, ± 5%, 1/8W Carbon	★ TR502	200X3145-404	Transistor, 2SC1454
R503	203X6000-960	1k Ohm, ± 5%, 1/8W Carbon	TR551	200X3172-305	Transistor, 2SC1723
R504	203X6000-879	560 Ohm, ± 5%, 1/8W Carbon	X501	201X2230-042	Diode, (SI) Zener EQB01-06V
R505	203X9014-965	39k Ohm, ± 5%, 1W M.O.	X502	201X2010-144	Diode, (SI) IS2473-T72
R506	203X6500-842	6.8k Ohm, ± 5%, 1/8W Carbon	MISCELLANEOUS		
R551	203X6500-420	120 Ohm, ± 5%, 1/8W Carbon	J501	204X9300-958	Socket, 6 Pin
VR501	204X2050-001	Varistor Vert. Adj.	P501	204X9601-195	Plug, 6 Pin
CAPACITORS			TH501	201X0000-618	Thermistor
C501	203X0040-020	10 uF, 160V Electrolytic			
C502	202X7000-281	1500 pF, 50V, ± 10% Ceramic			



Used On	GAME PLAN Inc. 1515 W. Fullerton Ave Addison ILL. 60101		
PARTS MUST BE CLEAN AND FREE OF BURRS	Scale	Finish	Drawn By <i>[Signature]</i>
Tolerances Unless Specified	Date <i>07-83</i>	Am't	App. By
Fractional ± .015	Mat'l	Drawing Number	
Decimal ± .005	02-70154A		
Angles ± 1/2	MACHO MOUSE WIRING		
Screw Threads Class 2			
ISSUE	CHANGE	DATE	