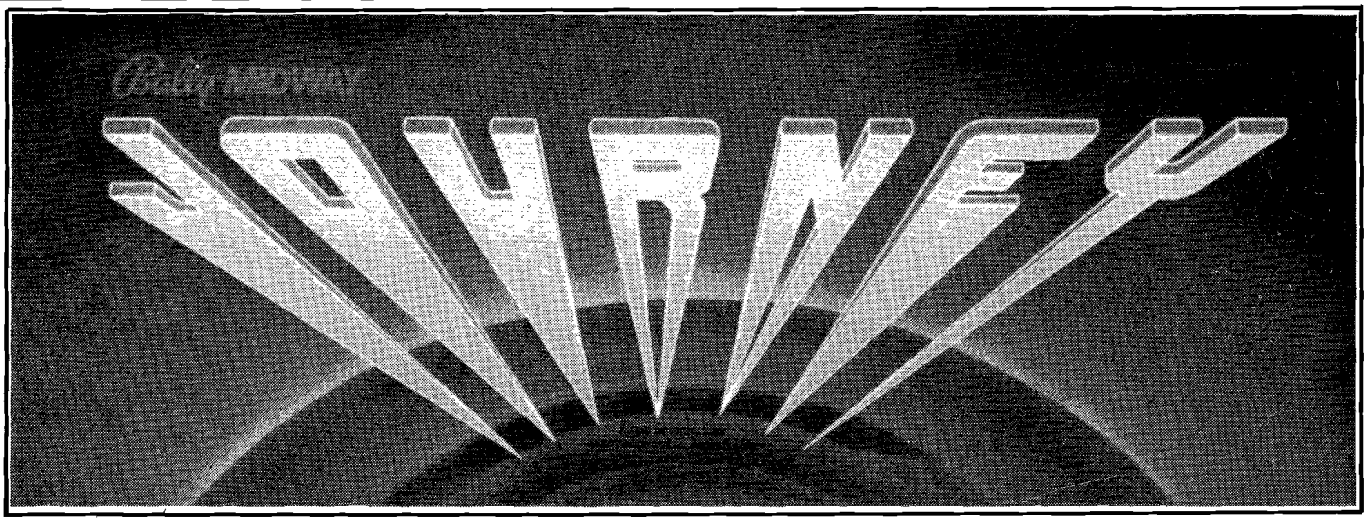
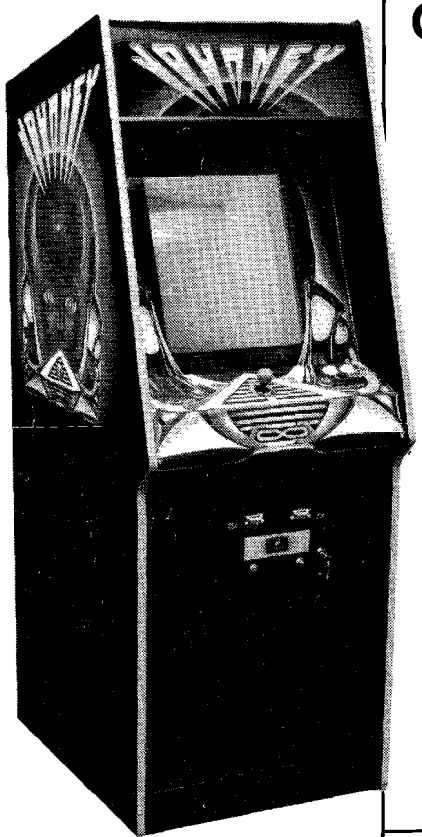
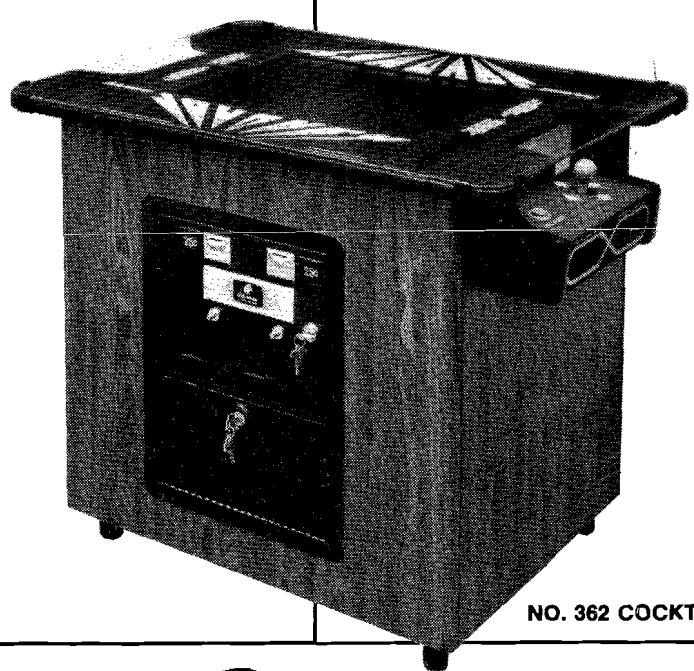
May 1983
GAME DESIGNED BY MARVIN GLASS & ASSOCIATES
Game Nos. 358 & 362



Parts and Operating Manual



NO. 358 UPRIGHT



NO. 362 COCKTAIL

Bally

MIDWAY MFG. CO.

10601 W. Belmont Avenue
Franklin Park, Illinois 60131
U.S.A.

Phone: (312) 451-9200 Cable Address: MIDCO Telex No.: 72-1596

FORM NO. 0358-00300-0000

WARNING

THIS GAME MUST BE GROUNDED. FAILURE TO DO SO MAY RESULT IN DESTRUCTION TO ELECTRONIC COMPONENTS.

WARNING: This equipment generates, uses, and can radiate radio frequency energy and if not and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a CLASS A computing device pursuant to SUBPART J of PART 15 of FCC RULES, which are designed to provide reasonable protection against such interference when operated in a commerical environment. 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.

ELECTRICAL BULLETIN: FOR ALL APPARATUS COVERED BY THE CANADIAN STANDARDS ASSOCIATION (CSA) STANDARD C22.2 NO. 1, WHICH EMPLOYS A SUPPLY CORD TERMINATED WITH A POLARIZED 2-PRONG ATTACHMENT PLUG.

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION: POUR PREVENIR CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR. UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

Printed in U.S.A.

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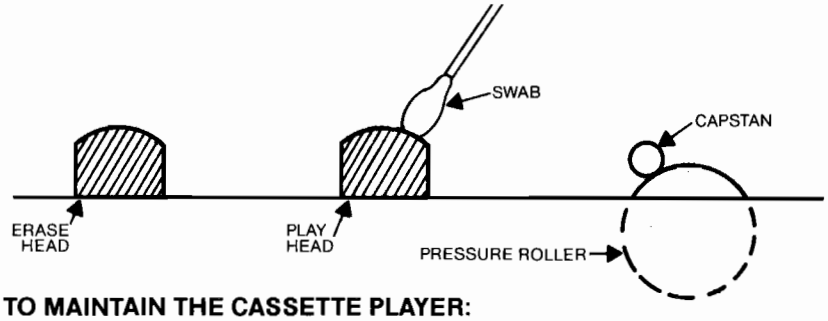
DESCRIPTION **PAGE**

CASSETTE PLAYER MAINTENANCE

PERIODIC CLEANING OF THE HEADS, CAPSTAN, AND PRESSURE ROLLER IS NECESSARY FOR GOOD SOUND QUALITY. (BUILD-UP OF IRON OXIDE PARTICLES WILL CAUSE DISTORTED SOUND.)



TO MAINTAIN THE CASSETTE PLAYER:

1. REMOVE THE TOP FRONT CLAMPING BRACKET (4 SCREWS).
2. EJECT THE CASSETTE BY PRESSING THE "STOP-EJECT" BUTTON TWICE.
3. CLEAN THE HEADS, CAPSTAN, AND PRESSURE ROLLER WITH A SMALL COTTON SWAB THAT HAS BEEN DIPPED IN HEAD CLEANER SOLUTION OR ALCOHOL. AS AN ALTERNATE, A HEAD CLEANER CASSETTE TAPE MAY ALSO BE USED. HEAD CLEANING TAPES AND SOLUTIONS ARE AVAILABLE IN LOCAL RECORD SHOPS.

CAUTION: NEVER USE ANY METAL OBJECT ON OR NEAR THE HEADS. DO NOT ALLOW ANY CLEANING MATERIAL TO FALL INTO THE PLAYER'S MECHANISM.

4. DO NOT ADJUST THE VOLUME CONTROL—IT HAS BEEN SET AT THE FACTORY.
5. REPLACE THE CASSETTE. HEED THE WARNING LABEL. THE CASSETTE MUST BE PLACED INTO THE CASSETTE COMPARTMENT WITH THE BALLY-MIDWAY IDENTIFICATION LABEL SIDE UP. IT WILL NOT WORK IF INSERTED INTO THE CASSETTE COMPARTMENT UP-SIDE-DOWN.
6. PRESS THE PLAY BUTTON (MARKED ►) UNTIL IT STAYS LATCHED IN THE DOWN POSITION.
7. IF PLAYER WAS REMOVED FROM CABINET, BE SURE TO RECONNECT THE EXTERNAL POWER AND SPEAKER JACKS TO THE SAME RECEPTACLES FROM WHICH YOU REMOVED THEM.
8. REINSTALL THE CLAMPING BRACKET (4 SCREWS).

NOTE: THE TAPE PLAYER MUST ALWAYS BE OPERATED IN THE HORIZONTAL POSITION ONLY!!

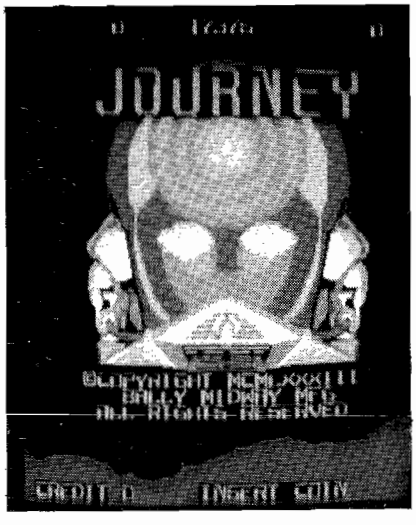
M051-00358-A 013

Journey

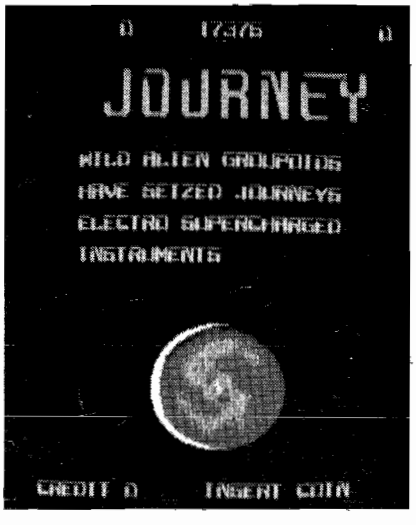
I. Game Operation

ATTRACT MODE

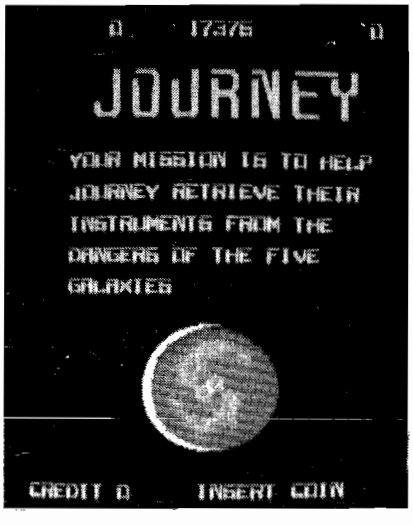
1. The Attract mode starts:
   - ☐ Just after power has been turned on to the game. (Self-Test switch is in the "OFF" position.
   - ☐ After a Self-Test has been completed and there are no more credits left in the games memory.
   - ☐ After a play has been finished, the score was not high enough to put the game into the High Score/Initial mode, and there are no more credits left in the games memory.
   - ☐ After the High Score/Initial mode when there are no more credits left in its memory.
   - ☐ In the Attract mode, the game will give the following displays **centered** on the monitor screen:



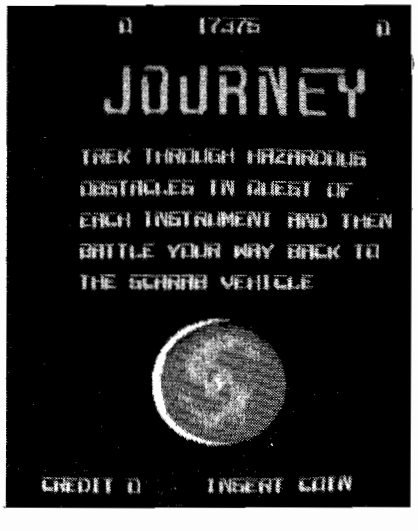
Attract Mode Display 1



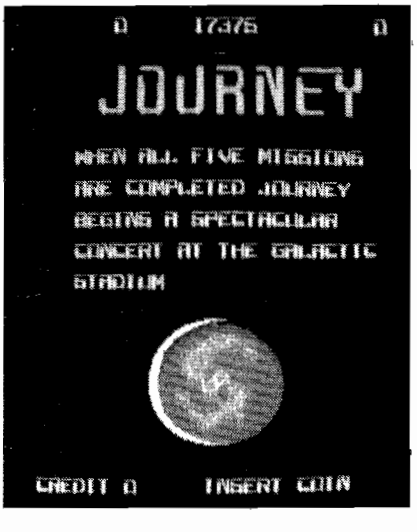
Attract Mode Display 2



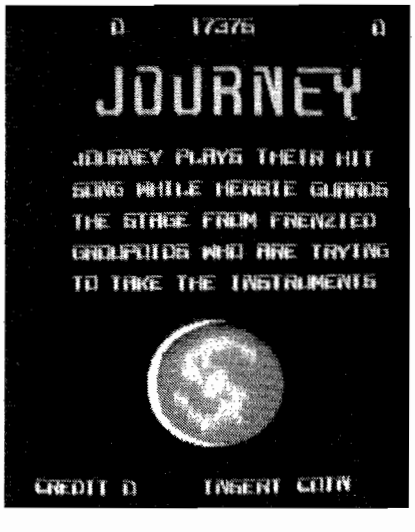
Attract Mode Display 3



Attract Mode Display 4

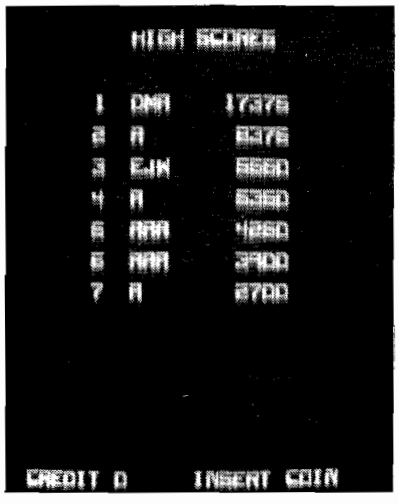


Attract Mode Display 5

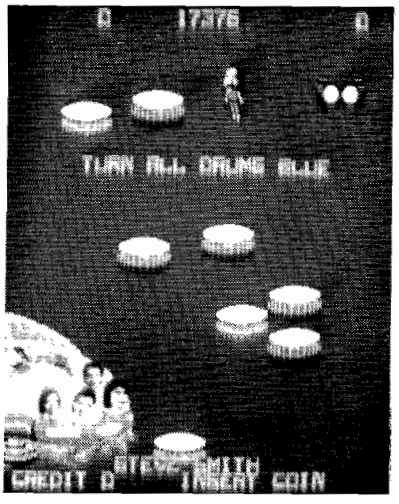


Attract Mode Display 6

Attract Mode Display 7

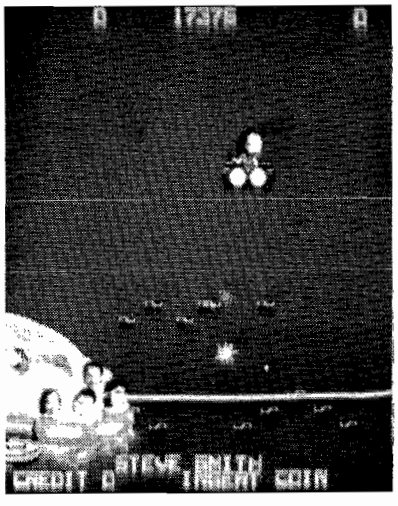


Attract Mode Display 8

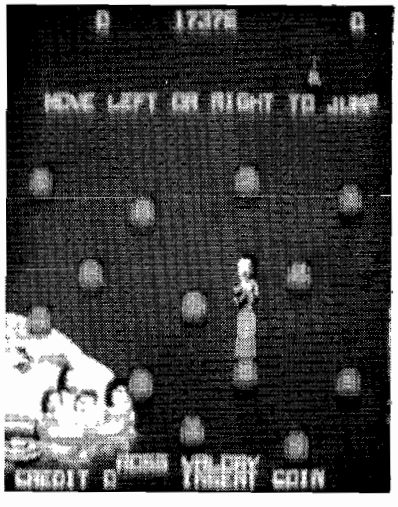


Attract Mode Display 9

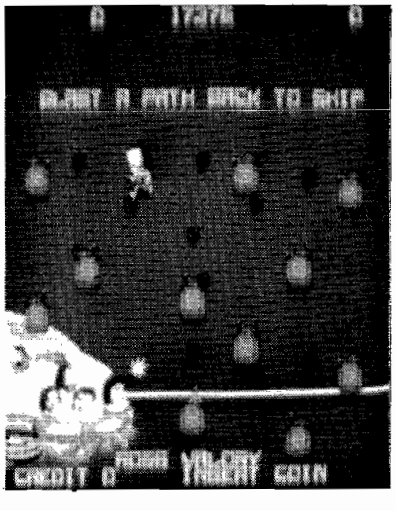
Attract Mode Display 10



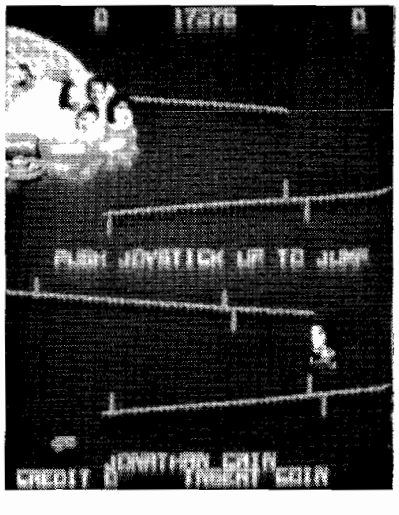
Attract Mode Display 11



Attract Mode Display 12

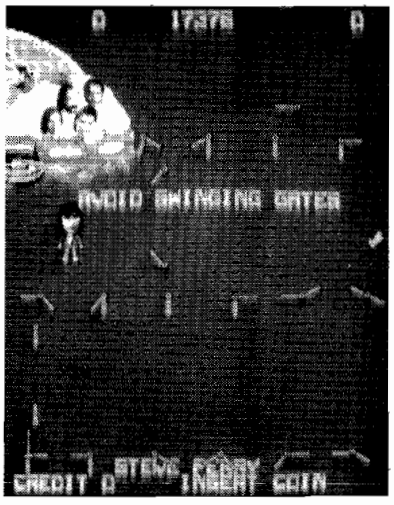


Attract Mode Display 13

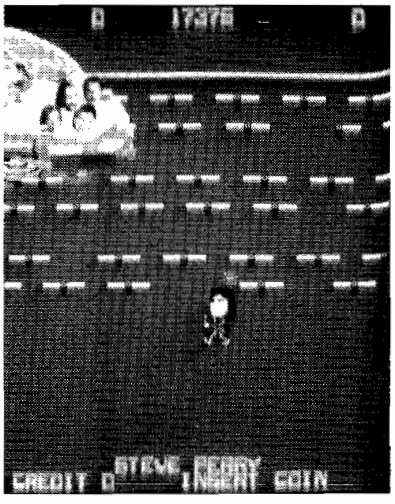


Attract Mode Display 14

Attract Mode Display 15



Attract Mode Display 16

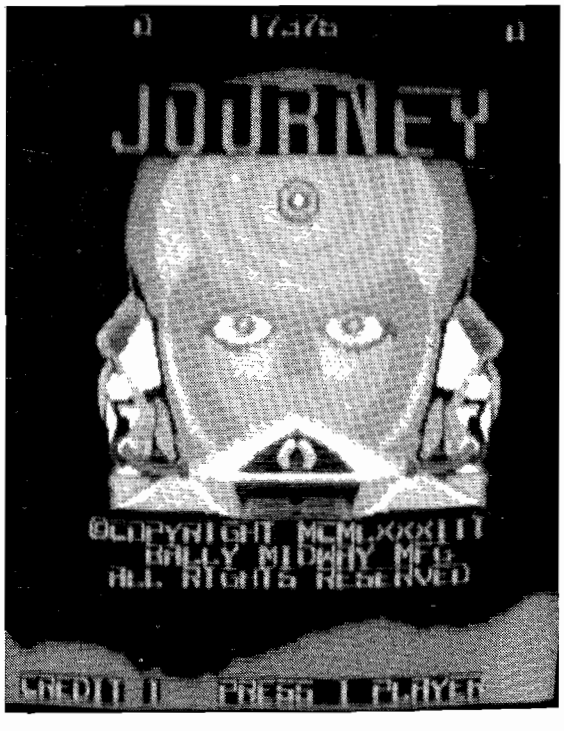


Attract Mode Display 17

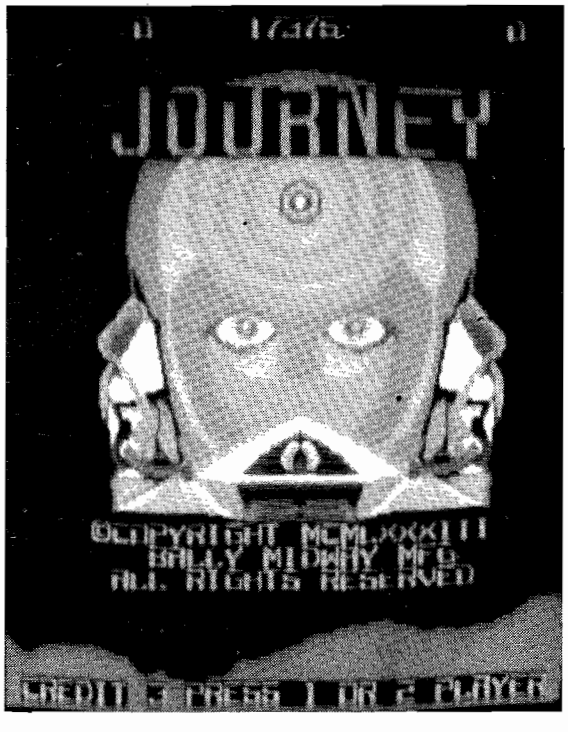
- No matter where the game is in the Attract mode sequence, it will immediately add the words "CREDIT ___" and "PRESS 1 PLAYER" or "PRESS 1 OR 2 PLAYER" to the bottom of this display and all other displays in the Attract mode sequence. These words will remain at the bottom of these displays in the Attract mode sequence until the "1 PLAYER" or the "2 PLAYER" start button is pressed.

READY-TO-PLAY MODE

1. The Ready-To-Play mode starts when enough coins have been accepted for a 1 or a 2 player game.
2. The Ready-To-Play mode ends when either the "1 PLAYER" or "2 PLAYER" push button is pressed.
3. In the Ready-To-Play mode, the game will give the below modified displays **centered** on the monitor screen:
4. If no START button is pressed, the displays will remain modified indefinitely as shown below.



Ready-To-Play Mode 1



Ready-To-Play Mode 2

PLAY MODE

1. The Play mode begins when either the "1 PLAYER" or the "2 PLAYER" START button is pressed.
2. The Play mode ends when all of your performers have been eliminated. When this happens, "GAME OVER" is written across the center of the monitor screen.
3. **ON THE SCREEN:** The game is made up of groups of 5 sequences for each rack. When play begins, all the performers run onto the screen and jump aboard their transport ship. The transport ship then lifts off and heads for a point in space that is at the center of a grouping of five planets. Each group members instrument is on a different planet.

   At the beginning of each sequence, when a "2 PLAYER" game has been selected, the game tells which player is up.

   Also indicated in each sequence of each rack is the number of players (1 or 2), a running total of the players score(s), and the highest game score to date.
4. **PLAY BEGINS:** From this point, the player has approximately 10 seconds to decide which planet he wants to take the transport ship to (which performers instrument he wants to retrieve). The transport ship is guided to the planet of your choice by using the control stick to direct its movement.
5. **OBSTACLES:** On each planet there are various obstacles that must be overcome in order for that particular performer to retrieve his instrument and make his way back to the transport ship.

   1st PLANET: The performer must pass between the turnstiles without touching them, get his instrument, and shoot his way back to the transport ship.

   2nd PLANET: Here the performer must leap onto the elevating pedestals, timing his assent to grab his instrument as it passes by him at the top of the screen, and shoot his way back to the transport ship.

   3rd PLANET: Here, the performer must leap the moving conveyor belt ridges without being touched to reach his instrument and then must shoot his way back to the transport ship.

   4th PLANET: With his jet pack, the performer must traverse the dangerous passages in this cavern to finally retrieve his instrument and then fight his way back to the transport ship.

   5th PLANET: The performer must jump from drum-head to drum-head, landing on all of them at least once in order to reach his instrument. He then must shoot his way back to the transport ship.
6. **PERFORMERS:** When on each of the five planets, the performers movements are controlled by the control stick on the games control panel. They can basically move in any direction.
7. **ALL INSTRUMENTS RETRIEVED:** All the performers now move to a stage and give a performance of their latest hit blockbuster. They will play as long as the bouncer (controlled by the player) can keep the excited fans from overrunning the stage. When this happens, play starts all over again in the next rack which will be more difficult to complete. The performers all have to retrieve their instruments again.
8. **SEQUENCES:** Play ends in any particular sequence when one of 3 things happens.

   a. The performer has a mishap and falls to the bottom of the screen.

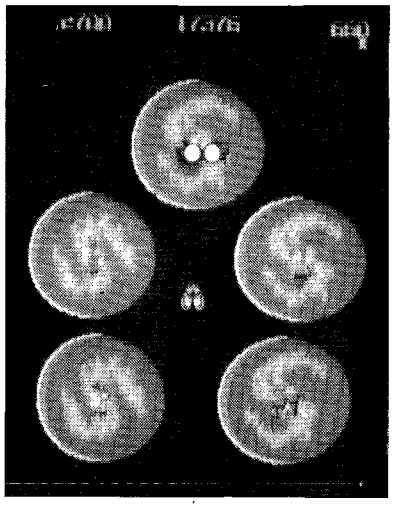
   b. The performer retrieves his instrument and shoots his way back to the transport ship.

   c. The excited fans storm the stage (play advances to the next rack of 5 sequences).
9. **MISHAP:** Play will begin again (if you have reserve performers left) in space, all performers are in the transport ship, and the player has approximately 10 seconds to pick the next planet he wants to try.

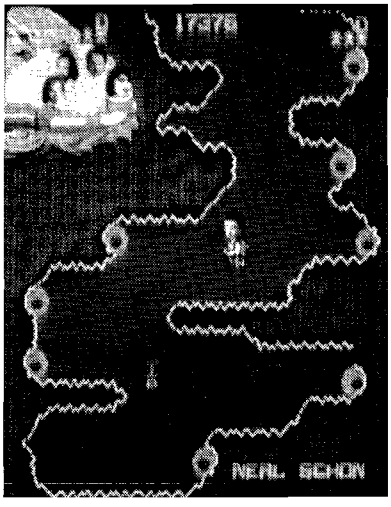
NOTE: You **cannot** pick a planet where the performer has already retrieved his instrument. These planets are indicated to the player by a wavey white ring around them.

If there are no more reserve performers left, "GAME OVER" is written across the screen.

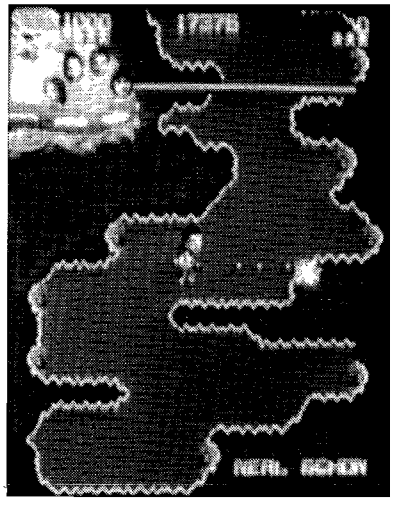
10. **TRANSPORT SHIP:** Your **ship** can move in **any direction** on the screen. Its movements are controlled by the control stick on the games control panel.
11. **FIRE CONTROL BUTTONS:** These control the rate of fire of your perfomer in; either left, right, up, or down directions (certain performers can only fire in certain directions). There are two fire control buttons on the Upright models to allow both left and right handed persons to play the game easily.
12. **CONTROL STICK:** By using the control stick you can position the transport ship/performer at any location you desire on the screen.
13. **BONUS PERFORMERS:** These can be awarded to the player as he reaches or passes certain preselected point values. This feature is adjustable by the games Owner/Operator.
14. **GAME ENDS:** When your last performer is eliminated. "GAME OVER" is written across the monitor screen.



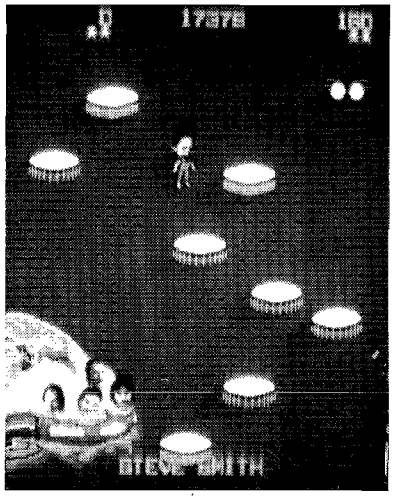
Play Mode Display 1



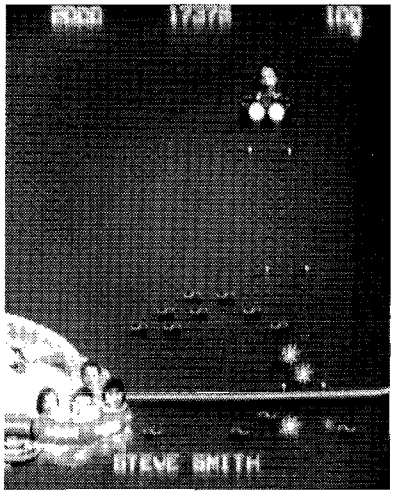
Play Mode Display 2



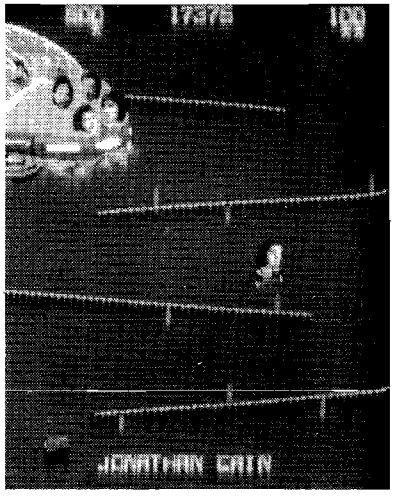
Play Mode Display 3



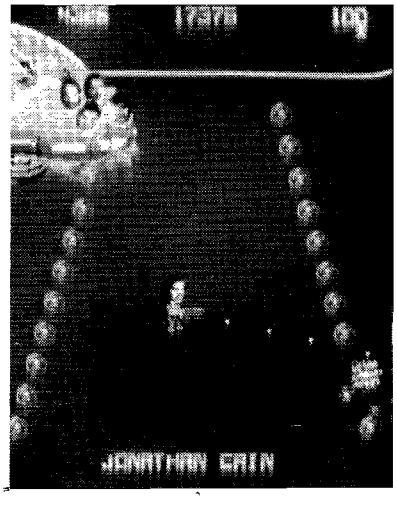
Play Mode Display 4



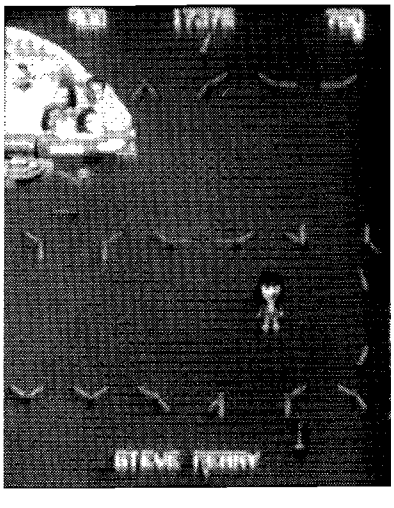
Play Mode Display 5



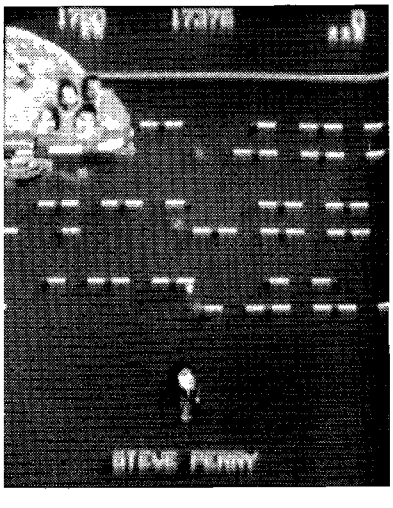
Play Mode Display 6



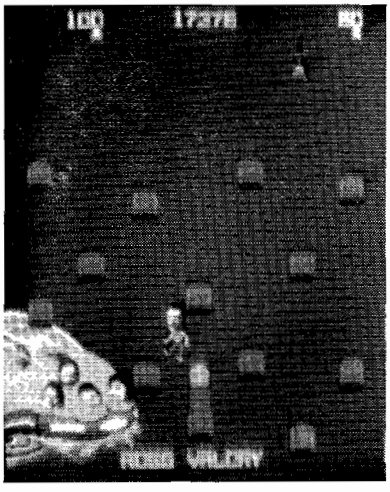
Play Mode Display 7



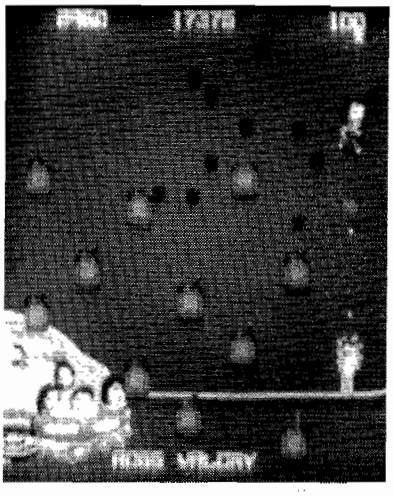
Play Mode Display 8



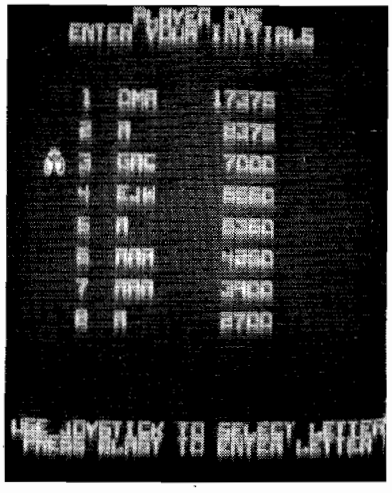
Play Mode Display 9



Play Mode Display 10



Play Mode Display 11

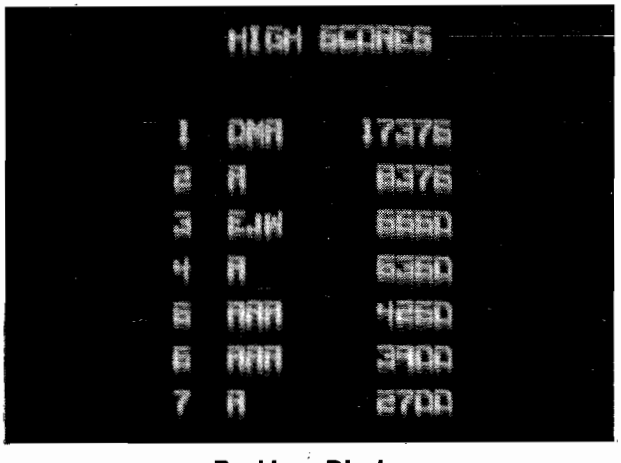


High Score/Initial Mode Display

15. **HIGH SCORE/INITIAL MODE:** If your score was high enough to become one of the ten best scores, the game will go into the High Score/ Initial mode immediately after the above display. If your score is not high enough to cause the game to go into the High Score/Initial mode, it will either go to the Attract mode (if there are no more credits left in its memory) or into the Ready-To-Play mode (if there are still credits left in its memory). In the High Score/Initial mode, the game gives a display which looks like that shown in the above right figure.

Follow the ON-SCREEN instructions to enter your initials next to your score in the league of the best ten players to date.

When you've printed out your last initial, move the cursor opposite the "END" word and activate the same control you did to enter your initials. This tells the game you are through printing out your initials. The game will then give the following **rankings** display showing your score opposite your ranking and your initials. See Figure below.



Rankings Display

NOTE: If you don't tell the game you are through printing out your initials as instructed above, the game will automatically go into the **rankings** display after a short wait.

After the High Score/Initial mode, the game will either go to the Attract mode (if there are no more credits left in its memory) or into the Ready-To-Play mode (if there are still credits left in its memory).

16. Most of the above holds true in the "2 PLAYER" mode also. But there are a few minor differences.

TWO PLAYER OPERATION

The Upright and Cocktail Table models all have two player operation.

In the two player mode, the rules of play are the same as in the single player mode. There are some additional rules, however:

1. In the Upright models, the players must take turns at the controls.
2. In the Cocktail Table model, each player has his own set of individual controls. The picture will flip to face you when it is your turn. (When it is not your turn, your set of controls will have **no** effect on the game.)
3. Your turn lasts until your performer is eliminated. At this point, the game will do one of several things depending on whether or not the eliminated performer was your last or if you still have others remaining in reserve.

ELIMINATED PERFORMER - OTHERS REMAINING IN RESERVE

- ☐ The game stops and "PLAYER ___" is displayed on the screen.
- ☐ Next, the other players planets and transport ship appear on the monitor screen and game play begins for the other player.

ELIMINATED PERFORMER - NO OTHERS REMAINING IN RESERVE

- ☐ Game displays: "PLAYER ___" "GAME OVER" on the monitor screen.
- ☐ Next, the other players planets and transport ship appear on the monitor screen and game play begins for the other player.
- ☐ After the last players last performer is eliminated, and if either or both scores were high enough, it goes into the High Score/Initial mode.

  If neither players score was high enough to cause the game to go into the High Score/Initial mode, the game will either go to the Attract mode (if there are no more credits left in its memory) or into the Ready-To-Play mode (if there are still credits left in its memory).

RACK ADVANCE

Your **new** game is equipped with a RACK ADVANCE feature that can allow you to view and/or play the higher racks for test purposes. It is activated in the following manner:

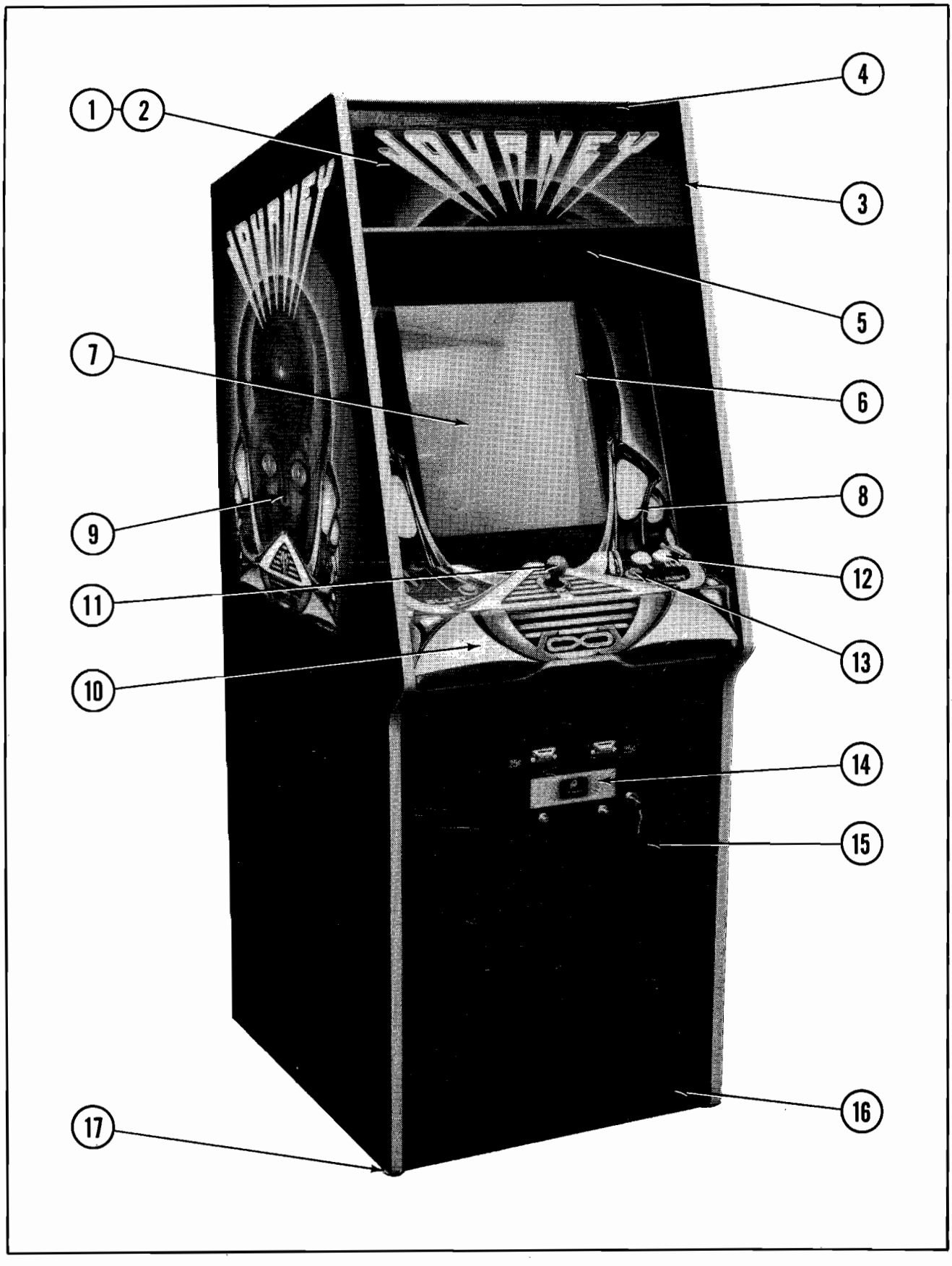
1. Turn the power to the game on.
2. Open the coin door.

NOTE: COCKTAIL TABLE MODELS ONLY - gently pull out the plunger on the Safety Interlock Switch located just inside the coin door.

3. Using the Test Credit Button, put a credit on the game.
4. Press the "1 PLAYER" start button.
5. **Immediately** set the games Self-Test switch to the "ON" position.
6. By pressing **both** the "1 PLAYER" and "2 PLAYER" start buttons at the **same** time (ONLY WHEN THE TRANSPORT SHIP IS IN THE CENTER OF THE 5 PLANETS), the game will advance to the next rack.
7. When finished, set the Self-Test switch back to the "OFF" position, and close and lock the coin door.

II. Illustrated Parts Breakdown

NO. 358—JOURNEY UPRIGHT—FRONT

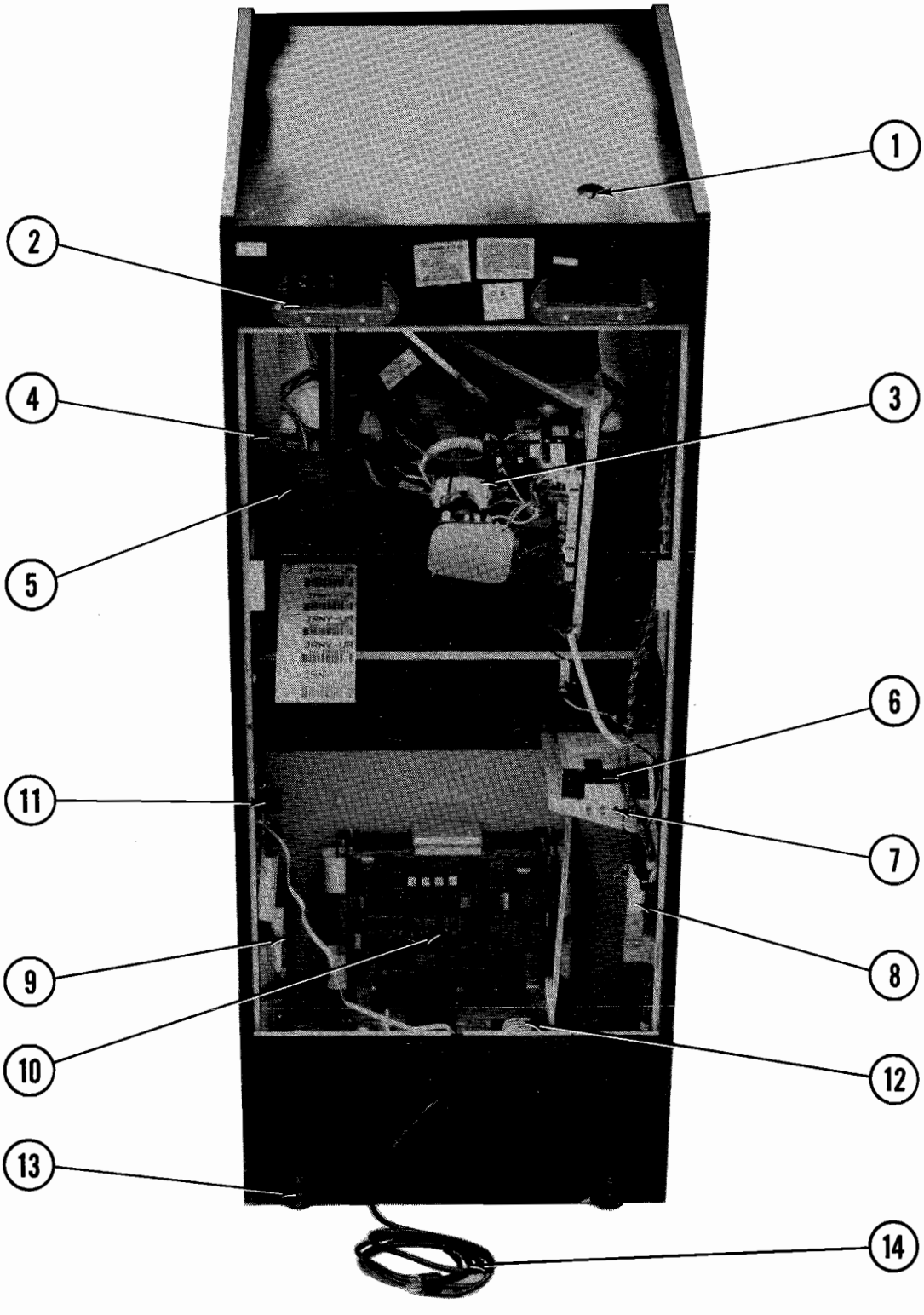


NO. 358—JOURNEY UPRIGHT—FRONT—PARTS LIST

*ORDER BY PART NUMBER **ONLY***

ITEM	PART NO.	DESCRIPTION
1	0358-00900-00XF	DECORATIVE HEADER - 23"x8½"x3/16"
2	A595-00011-0000	HEADER FLUOR. LIGHT ASSY.
3	0537-00903-0064	GLASS CHANNEL - 6⅞" (2 REQ'D.)
4	0574-00903-0100	HEADER RETAINING BRKT. (2 REQ'D.)
	0017-00101-0138	#8x⅝ TORX TAMPER RESISTANT SCREW (10 REQ'D.)
	0017-00009-0522	LONG ARM KEY T—20 (FOR ABOVE SCREW)
5	0017-00009-0393	BLACK SPEAKER GRILL W/SLOTS (2 REQ'D.)
	0017-00003-0430	6"x9" SPEAKER—4OHM, 9W. (2 REQ'D.)
	0017-00101-0127	#8-32x1½ CARRIAGE BOLT (8 REQ'D.)
	0017-00103-0061	#8-32 HEX NUT W/SEMS (8 REQ'D.)
6	0557-00900-0000	T.V. BEZEL
7	0333-00902-0000	DIFFUSER PLEXI
	0508-00901-0000	PLEXI—GLASS MTG. CLIPS (4 REQ'D.)
	0017-00101-0017	#6x½ BLACK SLT. HEX HD. SCREW (4 REQ'D.)
8	0358-00901-00XF	MAIN VIEWING GLASS—23"x20⅞"x3/16"
9	0358-00903-0200	DECAL—LEFT SIDE
	0358-00903-0100	DECAL—RIGHT SIDE (NOT SEEN)
10	A358-00013-0000	OVERLAY—CONTROL SHELF PLATE ASSY.
	A358-00014-0000	CONTROL SHELF PLATE WELDMENT ASSY.
	0358-00902-0000	DECORATIVE CONTROL SHELF ASSY.
	0358-00101-0100	CONTROL SHELF MTG. BRKT.—RIGHT
	0358-00101-0200	CONTROL SHELF MTG. BRKT.—LEFT
	0555-00901-0000	PLASTIC LOCATING PIN (4 REQ'D.)
	0017-00009-0534	BASSICK CLAMP (3 REQ'D.)
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. SCREW (10 REQ'D.)
	0639-00924-0000	CONTROL SHELF STRAP
11	A982-00017-0000	CONTROL ASSEMBLY
	A303-00010-0000	CONTROL SHELF CABLE ASSY.
12	0017-00042-0260	PUSH BUTTON ASSY.—WHITE (2 REQ'D.)
13	0017-00042-0256	PUSH BUTTON ASSY.—RED (2 REQ'D.)
	0017-00032-0093	PUSH BUTTON SWITCH W/HOLDER (4 REQ'D.)
	0017-00103-0054	⅝-11 PAL NUT (4 REQ'D.)
14	A090-00300-11BK	U.S.A. 25¢ DOUBLE COIN DOOR ASSY.
	A982-00015-0000	COIN DOOR CABLE ASSY.
15	0090-00002-04BK	LARGE COIN DOOR FRAME
	0017-00101-0121	#6-32x5/16 PHIL. TRS. HD. SCR. (3 REQ'D.) (MOUNTS COIN DOOR TO FRAME)
16	0935-00906-0100	KICK PLATE—23" LG.
17	0017-00102-0048	⅜-16x2" LEG LEVELERS (4 REQ'D.)
	0017-00103-0026	⅜-16 LEG LEVELER HEX NUTS (4 REQ'D.)

NO. 358—JOURNEY UPRIGHT—REAR ACCESS



NO. 358—JOURNEY UPRIGHT—REAR ACCESS—PARTS LIST

*ORDER BY PART NUMBER **ONLY***

ITEM	PART NO.	DESCRIPTION
1	A945-00038-0000	ON—OFF SWITCH & PLATE ASSY.
2	0894-00916-0000	PLASTIC PULL & VENT (2 REQ'D.)
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (8 REQ'D.)
3	0017-00003-0339	ELECTROHOME—19" COLOR DUAL SYNC. HORIZ. MTG. MONITOR (OR)
3	0017-00003-0439	WELLS—GARDNER—19" COLOR DUAL SYNC. HORIZ. MTG. MONITOR (OR)
3	0017-00003-0454	ZENITH—19" COLOR DUAL SYNC. HORIZ. MTG. MONITOR
4	0349-00101-0000	MONITOR SUPPORT RAIL (2 REQ'D.)
	0555-00901-0000	PLASTIC LOCATING PIN (4 REQ'D.)
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (8 REQ'D.)
5	0349-00100-0000	MONITOR MTG. ANGLE BRKT. (2 REQ'D.)
	0017-00101-0082	#10x¾ UNSLOT HEX HD. BOLT (4 REQ'D.)
	0017-00104-0011	#10 EXT. WASHER (4 REQ'D.)
	0017-00101-0144	#10-24x⅝ SLT. HEX W/WASHER SCR. (4 REQ'D.)
6	0017-00009-0543	CASSETTE TAPE RECORDER
	0017-00003-0482	POWER PLUG
	0358-00904-0000	RECORDED AUDIO CASSETTE
7	A358-00015-0000	WELDED SUPPORT BRKT. ASSY.
	0358-00103-0000	RECORDER CLAMPING BRKT.—REAR
	0358-00104-0000	RECORDER CLAMPING BRKT.—FRONT
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (16 REQ'D.)
8	A088-00016-0000	INTERLOCK SWITCH & SPRING BRKT. ASSY.
	0303-00904-0000	INTERLOCK SWITCH COVER
9	A082-90412-D000	POWER SUPPLY P.C. BOARD ASSY.
	0624-00902-0100	P.C. SUPPORT BRKT.-12" LG. (2 REQ'D.)
	0624-00902-0500	P.C. SUPPORT BRKT.—6½" LG. (2 REQ'D.)
	0317-00102-0000	P.C. MTG. BRACE BRKT. (4 REQ'D.)
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (10 REQ'D.)
	0017-00104-0037	#8 FLAT WASHER (10 REQ'D.)
10	A358-00018-0000	CARD RACK ASSY. W/BOARDS
	A084-90913-A358	SOUND P.C. BRD. ASSY.
	A639-00060-0000	SHIELD & BARRIER ASSY.
	0017-00101-0134	#6-32x¼ PHIL. RND. HD. M.S. (4 REQ'D.)
	A084-91475-A358	SUPER C.P.U. P.C. BRD. ASSY.
	A358-00016-0000	SHIELD & SPACER ASSY.—INNER
	A084-91464-A358	SUPER VIDEO P.C. BRD. ASSY.
	A358-00017-0000	SHIELD & SPACER ASSY.—OUTER
	0017-00101-0153	#6-32x1" PHIL. PAN HD. M.S. (8 REQ'D.)
11	A084-91496-B000	DUAL POWER AMP. P.C. BOARD ASSY.
12	A945-00020-0000	POWER CHASSIS ASSY.-125VA, 115V.
13	A961-00007-0000	CASTER ASSEMBLY (2 REQ'D.)
14	A945-00019-0000	LINE CORD ASSY.

NO. 358—JOURNEY UPRIGHT—REAR ACCESS—PARTS LIST (Continued)

ORDER BY PART NUMBER ***ONLY***

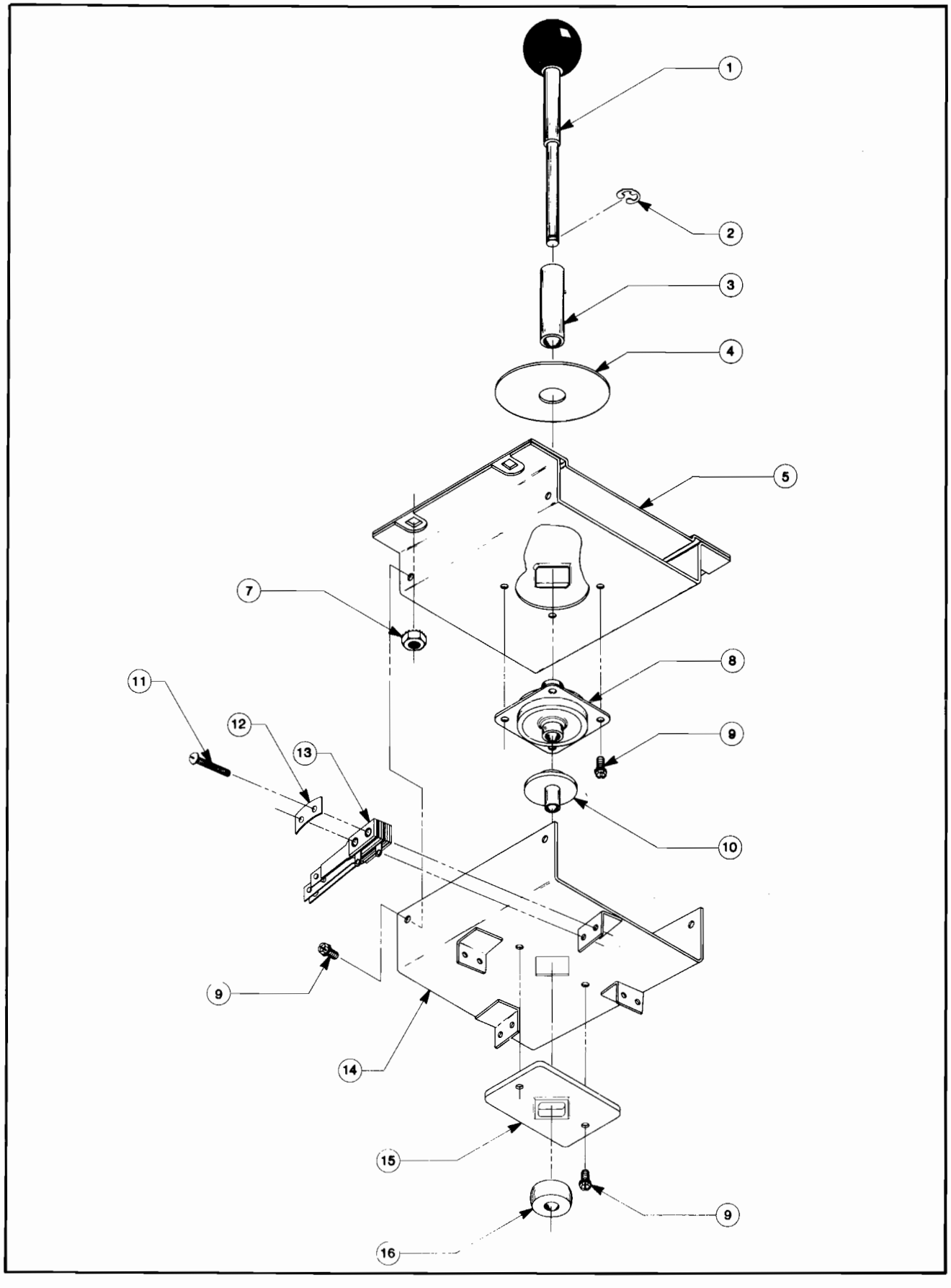
ITEM	PART NO.	DESCRIPTION
		ADDITIONAL PARTS LIST
	A950-00004-0000	COIN BOX ASSY.
	A950-00006-0000	WIRE COIN BOX CRADLE ASSY.
	0950-00105-0000	COIN BOX COVER
	0950-00104-0000	COIN BOX HANDLE
	0950-00101-00XF	COIN DEFLECTOR
	0950-00900-0000	LARGE PLASTIC COIN BOX
	0950-00103-0000	COIN BOX DIVIDER—OPTIONAL
	0017-00101-0142	¼-20x1⅜ BLACK RND. HD. BOLT (4 REQ'D.)
	0017-00104-0014	⅞" DISH WASHER (4 REQ'D.)
	0017-00103-0018	¼-20 HEX NUT (4 REQ'D.)
	A097-00009-0000	BACK DOOR LOCK ASSY.
	0017-00009-0490	5⅝" SQR. BACK DOOR VENT GRILL (4 REQ'D.)
	A358-00008-0000	MASTER CABLE ASSY. W/BRKT.
	A358-00010-0000	HIGH VOLTAGE CABLE ASSY.
	A941-00008-0000	LOW VOLTAGE CABLE ASSY.
	A337-00018-0000	VIDEO CABLE ASSY.
	A337-00019-0000	AUDIO CABLE ASSY.

JOURNEY—CONTROL ASSEMBLY—ALL VERSIONS —PARTS LIST

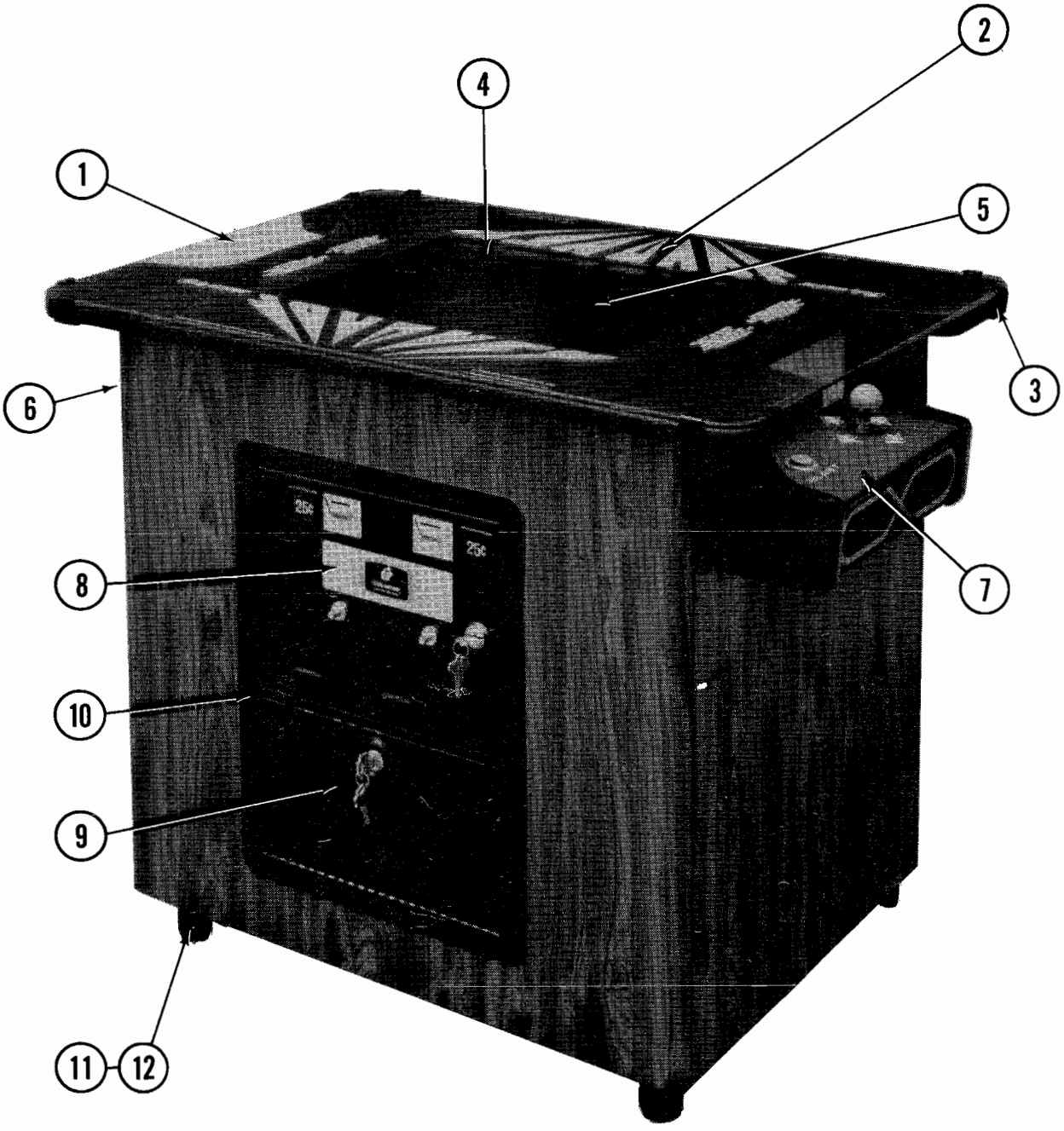
ORDER BY PART NUMBER ***ONLY***

ITEM	PART NO.	DESCRIPTION
1	A932-00022-0000	BALL & SHAFT ASSEMBLY
2	0017-00100-0025	¼ E-RING
3	0921-00702-0000	STOP SPACER
4	0921-00902-0000	SLIDE PLATE
5	A982-00019-0000	PIVOT PLATE WELD ASSY.
7	0017-00103-0061	#8-32 HEX NUT W/SEMS (4 REQ'D.)
8	0932-00902-0000	GROMMET
9	0017-00101-0598	#8-32x5/16 SLT. HEX HD. M.S. (10 REQ'D.)
10	0962-00904-0000	SLEEVE
11	0017-00101-0527	#5-40x⅝ SLT. RND. HD. SCR. (8 REQ'D.)
12	0020-00202-0000	SWITCH PLATE (4 REQ'D.)
13	A932-00009-0000	SWITCH ASSEMBLY (4 REQ'D.)
14	A316-00019-0000	STOP PLATE & SWITCH BRKT. ASSY.
15	0932-00905-0000	WEAR PLATE
16	0921-00700-0000	ACTUATOR

JOURNEY — CONTROL ASSEMBLY — ALL VERSIONS



NO. 362—JOURNEY COCKTAIL—FRONT

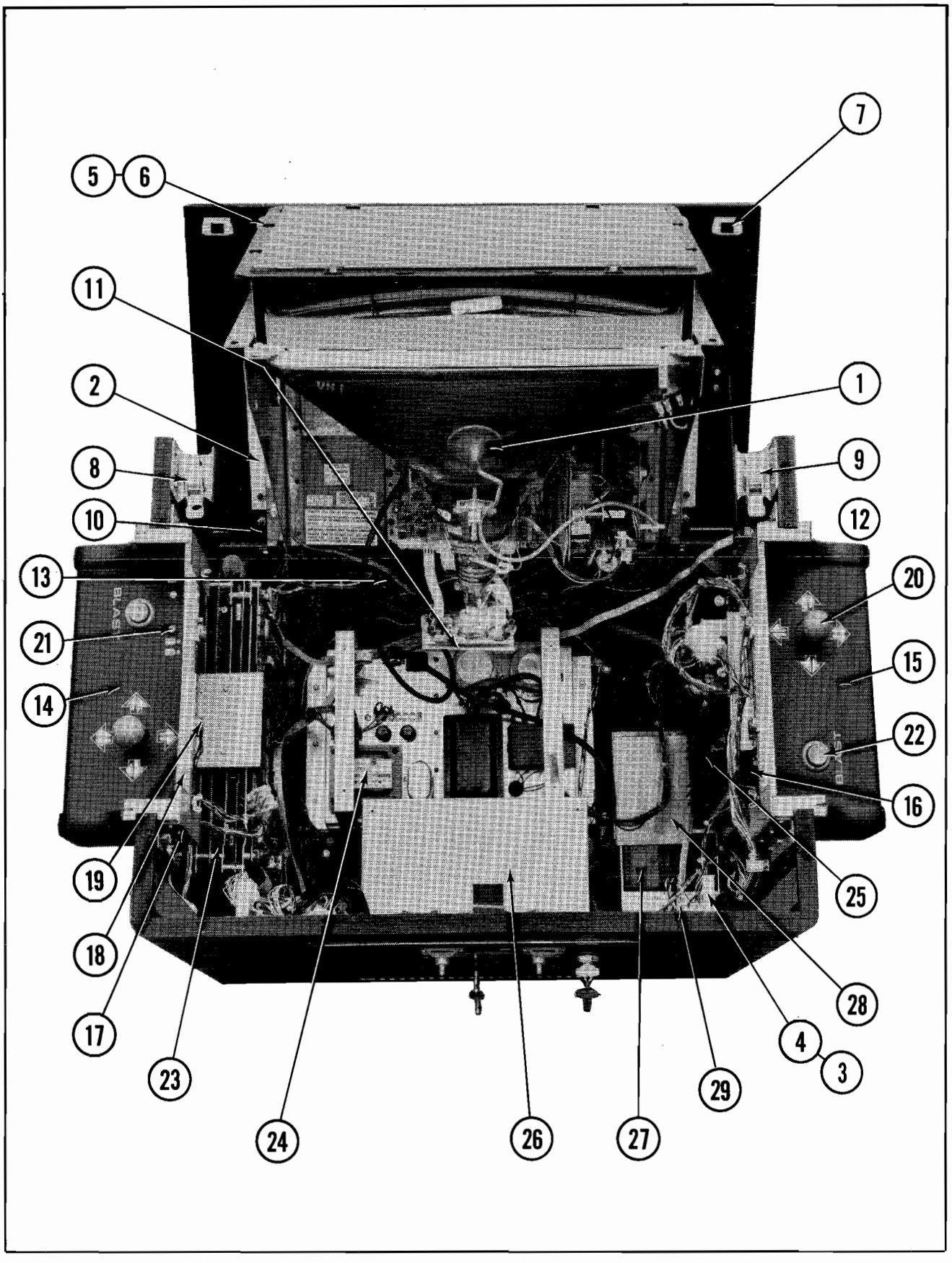


NO. 362—JOURNEY COCKTAIL—FRONT—PARTS LIST

*ORDER BY PART NUMBER **ONLY***

ITEM	PART NO.	DESCRIPTION
1	0311-00901-0000	COVER GLASS
2	0362-00903-0000	DECORATIVE ARTWORK UNDERLAY
3	0311-00101-00XF	CORNER GLASS CLIP (4 REQ'D.)
	0017-00101-0126	#10-32x¾ HEX BUTTON HD. SCREW (4 REQ'D.)
4	0017-00042-0314	19" BEZEL - INJECTION MOLDED
	0311-00100-0000	BEZEL MTG. BRKT. (2 REQ'D.)
5	0333-00902-0000	DIFFUSER
	0508-00901-0000	PLEXI-GLASS MTG. CLIP (4 REQ'D.)
	0017-00101-0124	#6x¼ UNSLOT. HEX HD. M.S. (4 REQ'D.)
6	A362-00004-0100	CONTROL SHELF ASSY. - PLYR. #1 (NOT SEEN)
7	A362-00004-0200	CONTROL SHELF ASSY. - PLYR. #2
8	A090-00300-11BK	U.S.A. 25¢ DOUBLE COIN DOOR ASSY.
	A982-00015-0000	COIN DOOR CABLE ASSY.
9	A090-00605-0000	COIN BOX DOOR & LOCK ASSY.
10	A090-00603-00XF	COIN DOOR FRAME ASSY.
	0017-00101-0121	#6-32x5/16 PHIL. TRS. HD. SCR. (4 REQ'D.) (MOUNTS COIN DOOR TO FRAME)
11	0311-00900-0000	LEG (4 REQ'D.)
	0017-00101-0769	#10x¾ SLT. HEX HD. WOOD SCREW (20 REQ'D.)
12	0017-00102-0048	⅜-16x2" LEG LEVELERS (4 REQ'D.)
	0017-00103-0026	⅜-16 LEG LEVELER HEX NUTS (4 REQ'D.)

NO. 362—JOURNEY COCKTAIL—INTERIOR ACCESS



NO. 362—JOURNEY COCKTAIL—INTERIOR ACCESS—PARTS LIST

*ORDER BY PART NUMBER **ONLY***

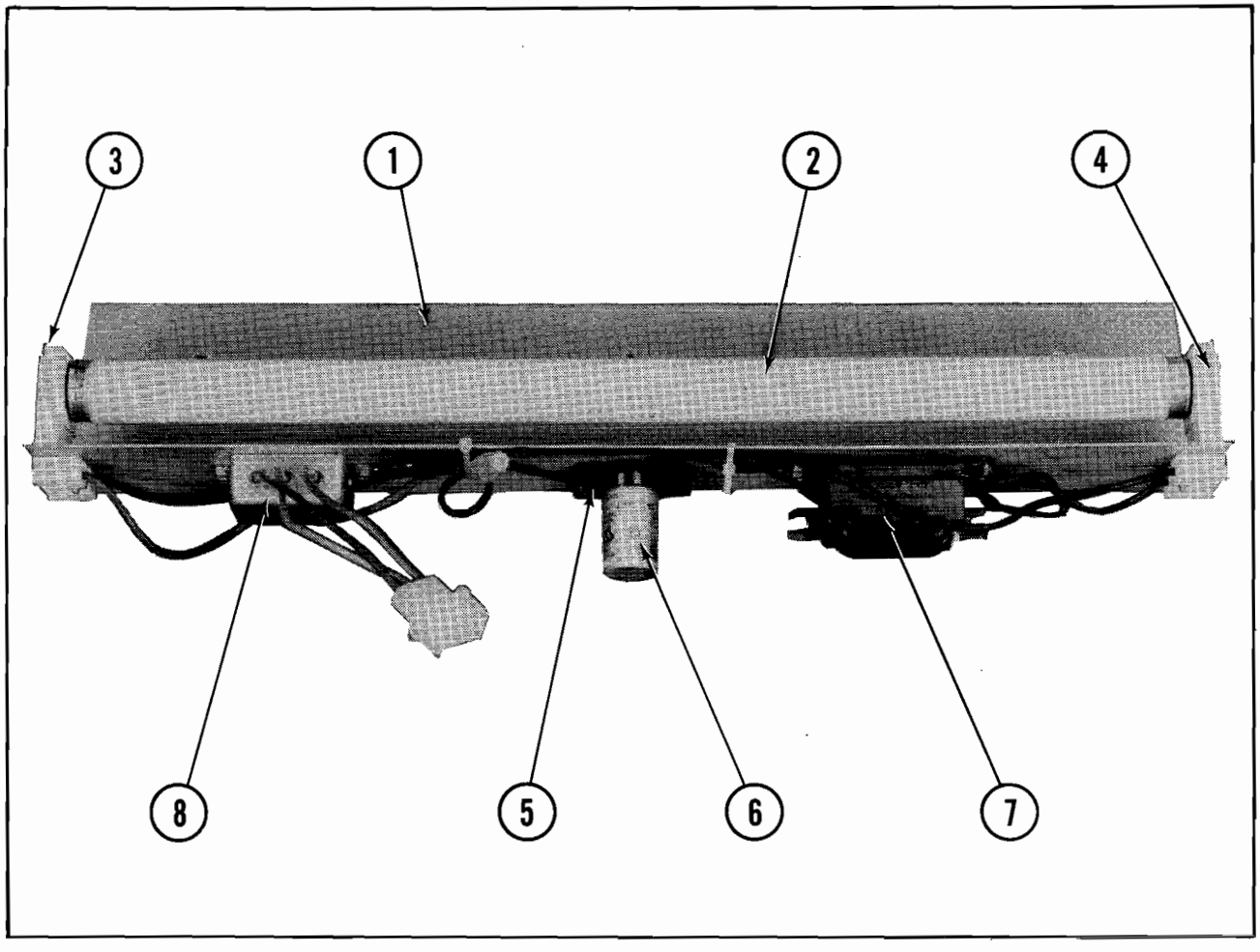
ITEM	PART NO.	DESCRIPTION
1	0017-00003-0339	ELECTROHOME—19" COLOR DUAL SYNC. HORIZONTAL MTG. MONITOR (OR)
1	0017-00003-0439	WELLS—GARDNER—19" COLOR DUAL SYNC. HORIZONTAL MTG. MONITOR (OR)
1	0017-00003-0454	ZENITH—19" COLOR DUAL SYNC. HORIZ. MTG. MONITOR
2	0311-00109-0000	HORIZONTAL MONITOR MTG. BRKT. (2 REQ'D.)
3	0610-00132-00ZN	STRIKE (2 REQ'D.) (NOT SEEN)
4	0017-00009-0534	BASSICK CLAMP (2 REQ'D.)
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (8 REQ'D.)
5	0311-00103-00XF	CATCH (2 REQ'D.)
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (6 REQ'D.)
6	0311-00104-00XF	CATCHER PLATE (2 REQ'D.)
7	0311-00106-0000	STRIKE—BACK PANEL (2 REQ'D.)
8	A311-00009-0100	CLAMP & BRKT. ASSY.—R.H.
9	A311-00009-0200	CLAMP & BRKT. ASSY.—L.H.
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (8 REQ'D.)
10	0311-00102-0000	SELF MORTISE HINGE (2 REQ'D.)
	0017-00101-0156	#10-32x1¼ BLACK RND. HD. CARRIAGE BOLT (8 REQ'D.)
	0017-00103-0081	#10-32 HEX NUT W/SEMS (8 REQ'D.)
11	0311-00902-0000	MONITOR SHIELD (NOT SEEN)
12	A311-00007-0000	LATCH SLIDE ASSY.
	0889-00112-0000	SLIDE CATCH
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (2 REQ'D.)
13	0017-00003-0430	6"x9" SPEAKER—4 OHM, 10W. (2 REQ'D.)
	0017-00009-0393	BLACK SPEAKER GRILL W/SLOTS (2 REQ'D.)
	0017-00101-0127	#8-32x1½ BLACK RND. HD. CARRIAGE BOLT (8 REQ'D.)
	0017-00103-0061	#8-32 HEX NUT W/SEMS (4 REQ'D.)
14	A362-00011-0100	DECORATIVE OVERLAY & PANEL ASSY.—PLYR. #1
	A362-00010-0000	CONTROL PANEL WELDMENT ASSY.
	0362-00900-0100	OVERLAY—PLAYER #1
15	A362-00011-0200	DECORATIVE OVERLAY & PANEL ASSY.—PLYR. #2
	A362-00010-0000	CONTROL PANEL WELDMENT ASSY.
	0362-00900-0200	OVERLAY—PLYR. #2
16	A362-00012-0000	BOTTOM PLATE & HINGE ASSY. (2 REQ'D.)
	0017-00101-0341	#6x¼ PHIL. TRS. HD. SCR. (6 REQ'D.)
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (18 REQ'D.)
17	0362-00100-0000	LOCATING BRKT. (4 REQ'D.)
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (20 REQ'D.)
18	0362-00901-0000	LIGHT SHIELD (2 REQ'D.)
	0017-00101-0740	#8-32x⅜ WING SCREW (4 REQ'D.)
19	0017-00031-0044	WEDGE BASE LAMP SOCKET (4 REQ'D.)
	0017-00003-0219	#194 WEDGE BASE LAMP—14V., 27A. (4 REQ'D.)
	0017-00101-0555	#6-32x5/16 SLT. HEX HD. M.S. (4 REQ'D.)
20	A982-00017-0000	CONTROL ASSY. (2 REQ'D.)
	A317-00010-0100	CONTROL SHELF CABLE ASSY.—PLYR. # 1
	A317-00010-0200	CONTROL SHELF CABLE ASSY.—PLYR. #2
21	0017-00032-0106	PUSH BUTTON SWITCH (2 REQ'D.)
22	0017-00042-0256	PUSH BUTTON ASSY.—RED (2 REQ'D.)
	0017-00032-0093	PUSH BUTTON SWITCH W/HOLDER (2 REQ'D.)
	0017-00103-0054	⅝-11 PAL NUT (2 REQ'D.)

NO. 362—JOURNEY COCKTAIL—INTERIOR ACCESS—PARTS LIST (Continued)

*ORDER BY PART NUMBER **ONLY***

23	A358-00018-0000	CARD RACK ASSY. W/BOARDS
	A084-90913-A358	SOUND P.C. BRD. ASSY.
	A639-00060-0000	SHIELD & BARRIER ASSY.
	0017-00101-0134	#6-32x¼ PHIL. RND. HD. M.S. (4 REQ'D.)
	A084-91475-A358	SUPER C.P.U. P.C. BRD. ASSY.
	A358-00016-0000	SHIELD & SPACER ASSY.—INNER
	A084-91464-A358	SUPER VIDEO P.C. BRD. ASSY.
	A358-00017-0000	SHIELD & SPACER ASSY.—OUTER
	0017-00101-0153	#6-32x1" PHIL. PAN HD. M.S. (8 REQ'D.)
24	A945-00020-0000	POWER CHASSIS ASSY.—125VA., 115V.
	A945-00033-0000	MAGNETIC SHIELD & LABEL ASSY.
25	A084-90412-D000	POWER SUPPLY P.C. BOARD ASSY.
	0624-00902-0200	P.C. SUPPORT BRKT.—10" LG. (2 REQ'D.)
	0624-00902-0500	P.C. SUPPORT BRKT.—6½" LG. (2 REQ'D.)
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (12 REQ'D.)
	0017-00104-0037	#8 FLAT WASHER (12 REQ'D.)
26	A090-00606-0000	CASH BOX & PULL ASSY.
	0090-00189-0000	CASH BOX ENCLOSURE
	A945-00038-0000	ON—OFF SWITCH & PLATE ASSY. (LOCATED UNDER ITEM #26)
	A775-00013-0000	FAN ASSY. (LOCATED UNDER ITEM #26)
27	0017-00009-0534	CASSETTE TAPE RECORDER
	0358-00904-0000	RECORDED AUDIO CASSETTE
28	A362-00013-0000	CLAMPING BRKT. WELDMENT ASSY.
	0017-00101-0141	#8x11/16 UNSLOT HEX HD. M.S. (4 REQ'D.)
29	A084-91496-B358	DUAL POWER AMP P.C.B.
		ADDITIONAL PARTS LIST
	A362-00007-0000	MASTER CABLE 2/BRKT. ASSY.
	A362-00009-0000	HIGH VOLTAGE CABLE ASSY.
	A362-00014-0000	LOW VOLTAGE CABLE ASSY.
	A580-00011-0000	VIDEO SIGNAL CABLE ASSY.
	A945-00019-0000	LINE CORD ASSY.
	A088-00018-0000	INTERLOCK SWITCH & BRKT. ASSY.

JOURNEY - HEADER FLOURESCENT FIXTUTRE ASSY.

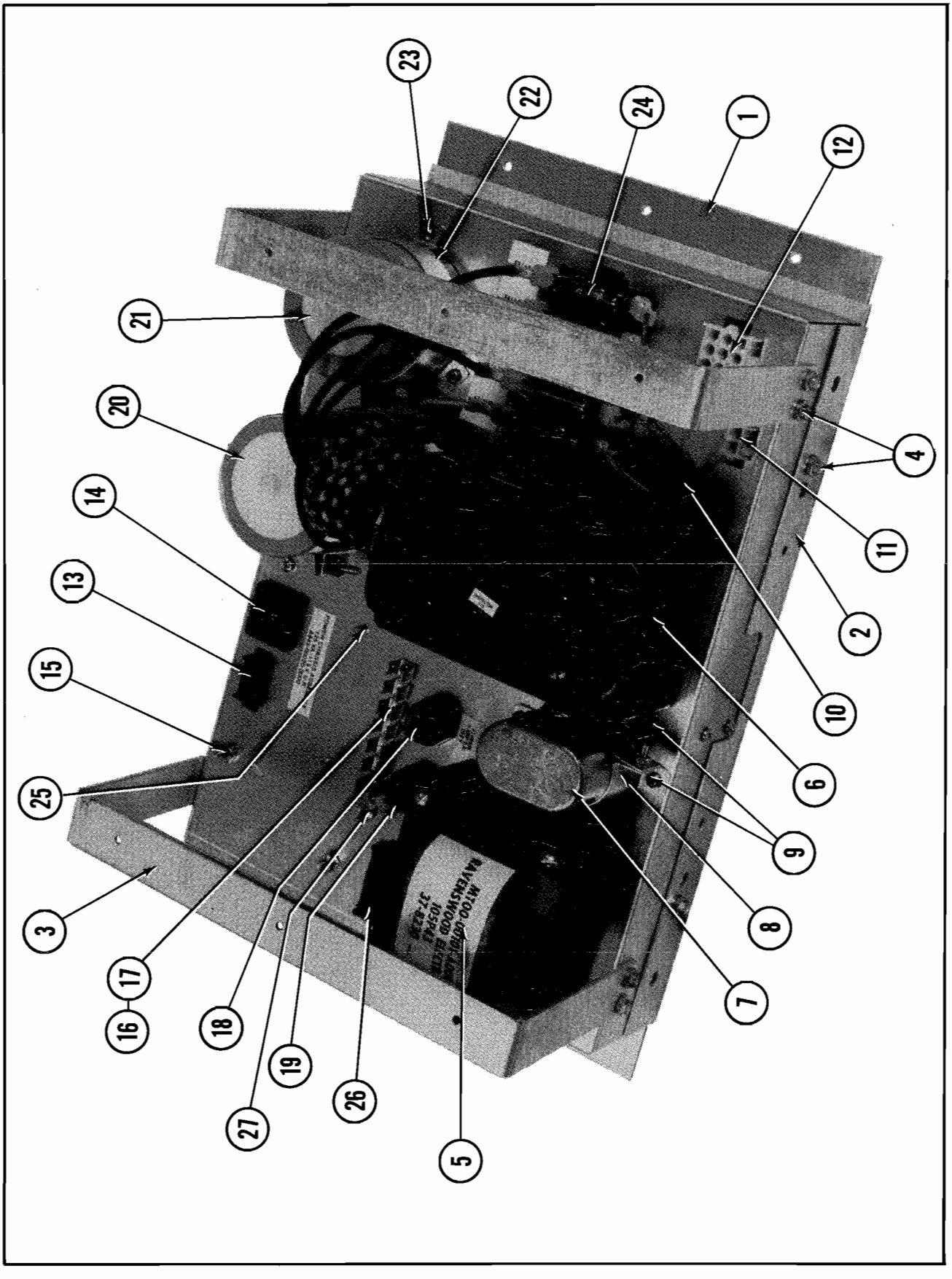


JOURNEY - HEADER FLOURESCENT FIXTUTRE ASSY. - PARTS LIST

*ORDER BY PART NUMBER **ONLY***

ITEM	PART NO.	DESCRIPTION
1	0595-00105-0000	FLUORESCENT BRKT.
2	0017-00003-0043	18" COOL WHITE FLUORESCENT LAMP
3	0017-00003-0445	LAMP LOCKS (2 REQ'D.)
4	0017-00031-0036	FLUORESCENT SOCKET (2 REQ'D.)
5	0017-00003-0412	FLUORESCENT STARTER HOLDER W/LEADS
	0017-00101-0573	#6-32 x 1/2 PHIL. RND. HD. M.S. (4 REQ'D.)
	0017-00104-0009	#6 EXT. WASHER (4 REQ'D.)
6	0017-00003-0019	FLUORESCENT STARTER
7	0017-00003-0026	BALLAST
	0017-00101-0598	#8-32 x 5/16 SLT. HEX HD. SCR. (4 REQ'D.)
8	A961-00042-0000	LINE FILTER ASSY.

JOURNEY — POWER CHASSIS ASSY. — 125VA., 115V.

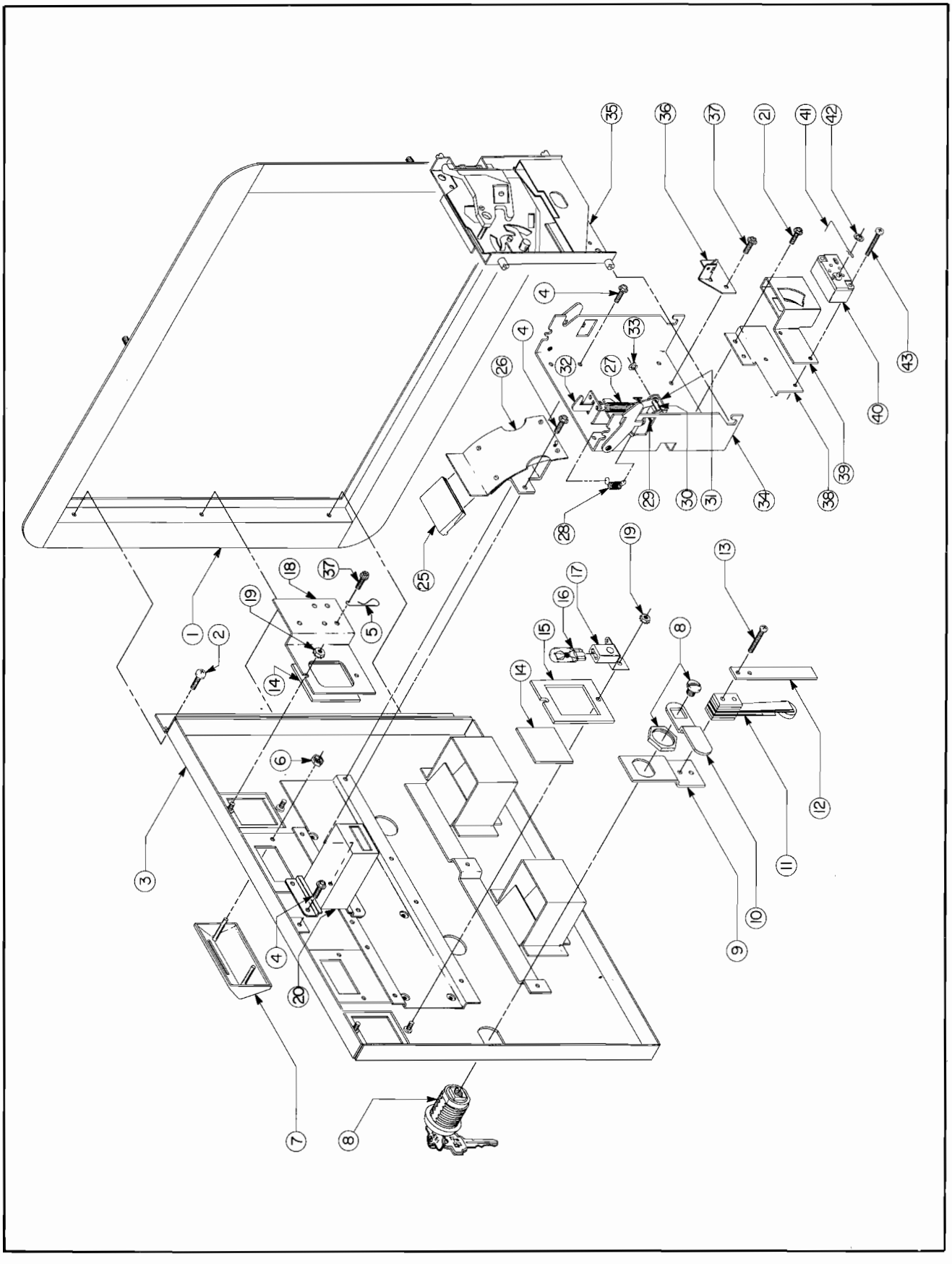


JOURNEY—POWER CHASSIS ASSY.—125VA., 115V.—PARTS LIST

*ORDER BY PART NUMBER **ONLY***

ITEM	PART NO.	DESCRIPTION
1	A945-00046-00XF	CHASSIS & PARTITION ASSY.
2	A945-00029-0100	MTG. PLATE & BARRIER ASSY.
3	0945-00107-01XF	STRAP (2 REQ'D.)
4	0017-00101-0123	#8 x 1/4 UNSLOT. HEX HD. SCR. (12 REQ'D.)
5	MT00-00101-A000	ISOLATION TRANSFORMER W/O SHIELD ASSY. — 115V., 50/60 HZ.
	0017-00103-0061	#8-32 HEX NUT W/SEMS (4 REQ'D.)
6	MT00-00099-A000	POWER TRANSFORMER ASSY. — 115V., 60 HZ.
	0017-00103-0084	#6-32 HEX NUT W/SEMS (4 REQ'D.)
7	0175-181T4-GXJK	CAPACITOR — 3.5 M.F., 440V.
8	0017-00009-0535	CLAMP
	0017-00101-0565	#6-32 x 7/16 SLT. PAN HD. SCR.
	0017-00103-0084	#6-32 HEX NUT W/SEMS
9	0017-00101-0067	#6 x 3/8 PHIL. PAN HD. SCR. (11 REQ'D.)
10	0945-00902-0000	SNAP BUSHING (3 REQ'D.)
11	0017-00021-0297	2 POSITION CONNECTOR
12	A945-00030-0100	CONNECTOR & CABLE ASSY. #1
13	A945-00030-0200	CONNECTOR & CABLE ASSY. #2
14	A945-00021-0000	CONVENIENCE OUTLET ASSY.
15	0017-00101-0573	#6-32 x 1/2 PHIL. RND. HD. SCR. (2 REQ'D.)
	0017-00103-0084	#6-32 HEX NUT W/SEMS (2 REQ'D.)
	A945-00025-0000	FILTER ASSEMBLY — 125V. — UNDER CHASSIS (NOT SEEN)
16	0017-00021-0510	TERMINAL STRIP
17	0017-00101-0140	#4-40 x 5/16 PHIL. PAN HD. SCR. (2 REQ'D.)
18	0017-00003-0263	SLO-BLO FUSE — 4A., 250V.
19	0017-00003-0005	FUSE — 2A., 250V.
	0017-00003-0444	QUICK CONN. FUSEHOLDER (2 REQ'D.) — FOR ABOVE FUSES
20	0945-00816-1902	CAPACITOR — 100,000 M.F.
21	0945-00816-1901	CAPACITOR — 55,000 M.F.
	0017-00104-0107	#10 FLAT WASHER (4 REQ'D.)
	0017-00103-0081	#10-32 HEX NUT W/SEMS (4 REQ'D.)
22	0017-00009-0422	CLAMP (2 REQ'D.)
	0017-00101-0758	#8-32 x 3/4 PHIL. RND. HD. SCREW (2 REQ'D.)
	0017-00103-0061	#8-32 HEX NUT W/SEMS (2 REQ'D.)
23	0017-00101-0067	#6 x 3/8 PHIL. PAN HD. SCR. (6 REQ'D.)
24	0945-00904-0000	5 POSITION FUSE HOLDER
	0017-00003-0263	SLO-BLO FUSE — 4A., 250V.
	0017-00003-0217	SLO-BLO FUSE — 2.5A., 250V. (2 REQ'D.)
	0017-00003-0007	SLO-BLO FUSE — 3A., 250V. (2 REQ'D.)
	0945-00903-0000	FUSE HOLDER BARRIER
	A945-00022-0000	HEATSINK & DIODE ASSY.
	0017-00101-0067	#6 x 3/8 PHIL. PAN HD. SCR. (2 REQ'D.)
25	0017-00101-0780	#6 x 1/2 PHIL. PAN HD. SCREW (2 REQ'D.)
	0017-00021-0629	5 POSITION TERMINAL STRIP — (UNDER CHASSIS)
	A945-00019-0000	LINE CORD ASSY. — 115V. (NOT SHOWN)
26	A945-00030-0500	CONNECTOR & CABLE ASSY.
27	0017-00101-0660	#10-32 x 3/4 PAN HD. SCREW
	0017-00104-0107	#10 FLAT WASHER
	0017-00103-0081	#10-32 HEX NUT W/SEMS

FRONT DOOR ASSEMBLY - U.S.A. 25¢

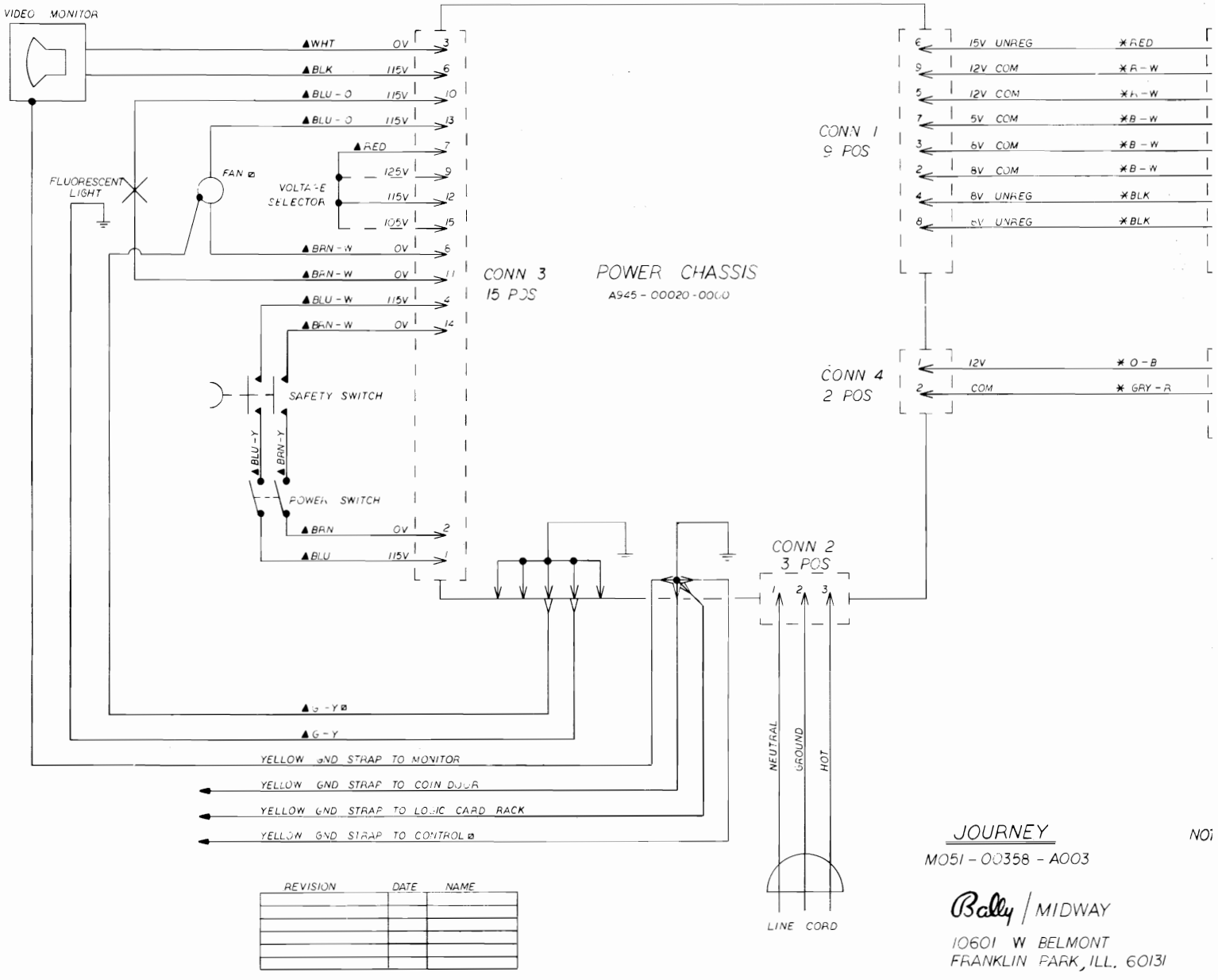


FRONT DOOR ASSEMBLY — U.S.A. 25¢ — PARTS LIST

*ORDER BY PART NUMBER **ONLY***

ITEM	PART NO.	DESCRIPTION
1	0090-00002-04BK	DOUBLE ENTRY COIN DOOR FRAME
2	0017-00101-0121	#6-32 x 5/16 PHIL. TRS. HD. SCR. (3 REQ'D.)
3	A090-00073-02BK	DOUBLE ENTRY COIN DOOR W/DRESS PLATE
4	0017-00101-0123	#8 x 1/4 UNSLOT. HEX HD. SCREW (12 REQ'D.)
5	0017-00007-0019	KEY HOOK
6	0017-00103-0059	PUSH NUT (4 REQ'D.)
7	0090-00912-0000	COIN ENTRY PLATE — 25¢ (2 REQ'D.)
8	A097-00005-0000	DOOR LOCK & KEY W/SCREW & NUT (OR)
8	A097-00006-0000	DOOR LOCK & KEY W/SCREW & NUT
9	0090-00128-00XF	DOOR TILT SWITCH BRKT.
10	0017-00005-0041	DOOR CAM
11	A090-00095-0000	DOOR TILT SWITCH
12	0090-00126-03XF	SWITCH BACK-UP PLATE
13	0017-00101-0525	#5-40 x 9/16" PHIL. HD. M.S. (2 REQ'D.)
	A090-00096-0000	DOOR TILT SWITCH & BRKT. ASSY. (ITEMS 9 & 11 THRU 13)
14	0090-00903-9500	25¢ WINDOW (2 REQ'D.)
15	0090-00143-00XF	COIN PLEX RETAINER
16	0017-00003-0219	12 VOLT LAMP — G.E. #194 (2 REQ'D.)
17	0017-00031-0048	WEDGE SOCKET W/BRKT. (2 REQ'D.)
18	A090-00100-0000	BRKT. ASSY.
19	0017-00103-0084	#6-32 HEX NUT W/SEMS (4 REQ'D.)
20	A090-00089-0000	COIN METER W/DIODE
21	0017-00101-0124	#6 x 1/4 UNSLOT. HEX HD. SCR. (4 REQ'D.)
25	0090-00911-0000	INSULATOR (2 REQ'D.)
26	A090-00112-0000	COIN CHUTE & INSULATOR ASSY. (2 REQ'D.)
27	0010-00134-0000	SPRING
28	0010-00181-0000	SPRING
29	0017-00007-0083	1/8 x 1-5/8 ROLL PIN
30	0090-00129-00XF	PIVOT POST
31	0090-00167-00XF	PIVOT LEVER
32	0090-00182-00XF	REJECT LEVER
33	0017-00100-0018	E-RING
	A090-00088-0000	REJECT LEVER ASSY. (2 REQ'D.) (ITEMS 30 THRU 33)
34	A090-00105-0000	COIN ACCEPTOR FRAME ASSY. (2 REQ'D.)
35	0017-00005-0003	COIN ACCEPTOR W/STRING CUTTER (2 REQ'D.) (OR)
35	0017-00005-0211	COIN ACCEPTOR W/ANTI STRING DEVICE (2 REQ'D.) (OR)
35	0017-00005-0214	COIN ACCEPTOR W/STRING CUTTER (2 REQ'D.)
36	A090-00064-0000	ANTI-PENNY DEVICE
37	0017-00101-0099	#6 x 1/4 SLT. HEX HD. M.S. (2 REQ'D.)
38	0090-00162-00XF	COIN SWITCH MTG. BRKT.
39	0017-00005-0203	COIN SWITCH CHUTE
40	0017-00005-0195	COIN SWITCH
41	0010-00599-0000	COIN SWITCH WIRE
42	0017-00007-0015	PUSH-ON RING
	A090-00059-0400	COIN SWITCH & WIRE ASSY. (ITEMS 40 THRU 42)
43	0017-00101-0147	#4-40 x 3/4 PHIL. PAN. HD. M.S. (2 REQ'D.)
	A090-00077-0000	COIN GUIDE & SWITCH ASSY. (ITEMS 38 THRU 43)

III. Wiring Diagrams & Schematics



REVISION	DATE	NAME

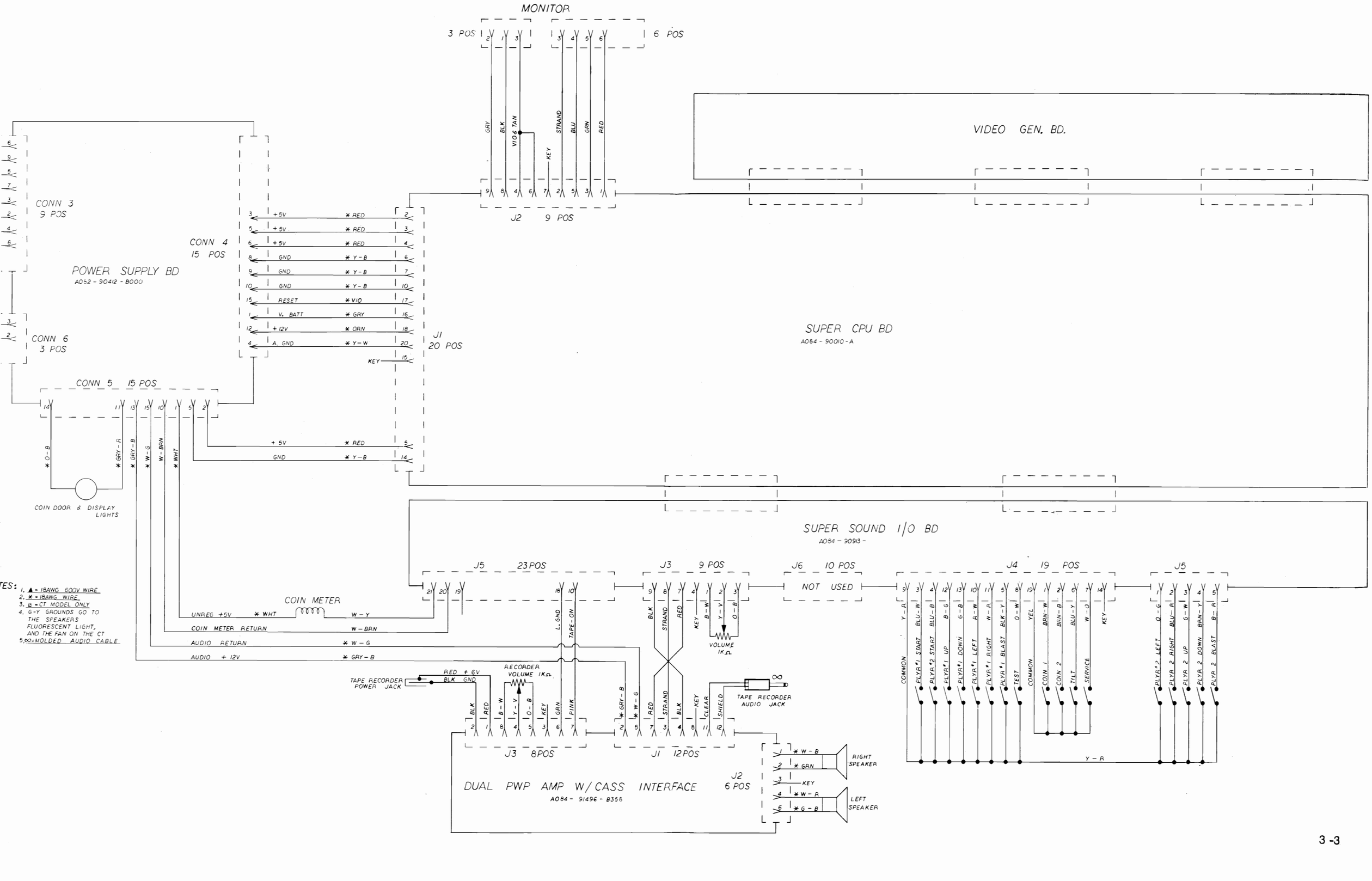
JOURNEY

M051 - 00358 - A003

NOT

Bally / MIDWAY

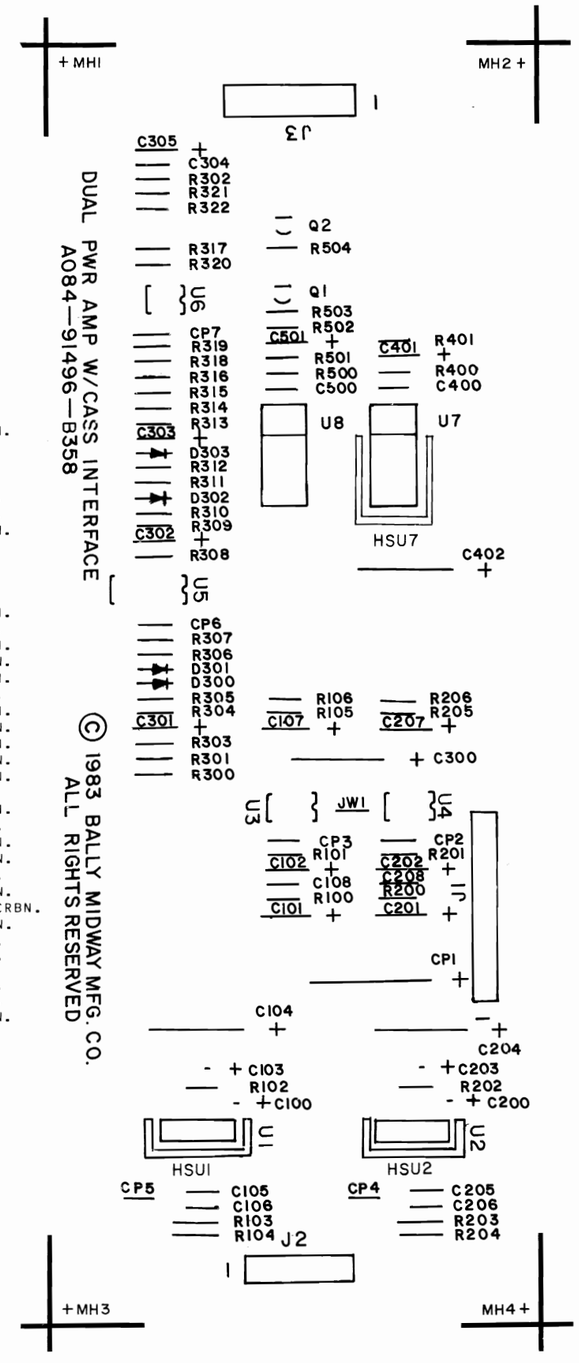
10601 W BELMONT
FRANKLIN PARK, ILL. 60131



NOTES:
1. ▲ = 18AWG 600V WIRE
2. * = 18AWG WIRE
3. Ω = CT MODEL ONLY
4. G-Y GROUNDS GO TO THE SPEAKERS FLUORESCENT LIGHT, AND THE FAN ON THE CT
5. ∞ = MOLDED AUDIO CABLE

DESIGNATION LIST

DESIGNATION NO.	DESCRIPTION
C100-C102	4.7 MF TANT.
C103	22 MF TANT.
C104	470 MF ELECT.
C105,C106	.1 MF CER.
C107	1 MF TANT.
C108	680 PF CER.
C200-C202	4.7 MF TANT.
C203	22 MF TANT.
C204	470 MF ELECT.
C205,C206	.1 MF CER.
C300	100 MF ELECT.
C301-C303	10 MF TANT.
C304	.1 MF CER.
C305	10 MF TANT.
C400	.1 MF CER.
C401	4.7 MF TANT.
C402	100 MF ELECT.
C500	.1 MF CER.
C501	1 MF TANT.
CP1	220 MF ELECT.
CP3-CP7	.1 MF CER.
R100	8.2K OHM 1/4W 5% CRBN.
R101	3K OHM 1/4W 5% CRBN.
R102	82 OHM 1/4W 5% CRBN.
R103,R104	1 OHM 1/2W 5% CRBN.
R105	24K OHM 1/4W 5% CRBN.
R106	75K OHM 1/4W 5% CRBN.
R200	8.2K OHM 1/4W 5% CRBN.
R201	3K OHM 1/4W 5% CRBN.
R202	82 OHM 1/4W 5% CRBN.
R203,R204	1 OHM 1/2W 5% CRBN.
R300-R303	1M OHM 1/4W 5% CRBN.
R304	220K OHM 1/4W 5% CRBN.
R305	33K OHM 1/4W 5% CRBN.
R306	4.7M OHM 1/4W 5% CRBN.
R307	2.7M OHM 1/4W 5% CRBN.
R308	1.5M OHM 1/4W 5% CRBN.
R309	82K OHM 1/4W 5% CRBN.
R310	1.5K OHM 1/4W 5% CRBN.
R311	160K OHM 1/4W 5% CRBN.
R312	620K OHM 1/4W 5% CRBN.
R313	1.5K OHM 1/4W 5% CRBN.
R314	1.5M OHM 1/4W 5% CRBN.
R315	1M OHM 1/4W 5% CRBN.
R316	220K OHM 1/4W 5% CRBN.
R317	10K OHM 1/4W 5% CRBN.
R318	5.6M OHM 1/4W 5% CRBN.
R319	4.7M OHM 1/4W 5% CRBN.
R320	220 OHM 1/4W 5% CRBN.
R321	1.6K OHM 1/4W 5% CRBN.
R322	390 OHM 1/4W OHM 5% CRBN.
R400	1.5K OHM 1/4W 5% CRBN.
R401	240 OHM 1/4W 5% CRBN.
R500	220 OHM 1/4W 5% CRBN.
R501	39 OHM 1/4W 5% CRBN.
R502	10K OHM 1/4W 5% CRBN.
R503	560 OHM 1/4W 5% CRBN.
R504	1.5K OHM 1/4W 5% CRBN.
D300-D303	1N4148
Q1	2N4403 OR 2N2905
Q2	2N3904
U1,U2	MB3730
U3	MC3340
U5	LM3900
U6	4N28
U7	LM317T
U8	7805
H.S.U1,H.S.U2	HEATSINK ASSY
H.S.U7	HEATSINK
J1	8 PIN KK. 156 OMIT PIN 3
J2	6 PIN KK. 156 OMIT PIN 3
J3	12 PIN KK. 156 OMIT PIN 8
JW1	JUMPER WIRE
MH1-MH4	1/4" SPACER FOR #8 SCREW
MHU8	SNAP
DUAL PWR AMP W/CASS INTFC.	A080-91496-B358



CROSS REFERENCE LIST

DESCRIPTION	QTY	DESIGNATION NO.	PART NOS.
680 PF AX. CER.	1	C108	0358-00800-0002
.1 MF 50V AX. CER.	12	C105-C106,C205-C206,C304,C400,C500,CP3-CP7	0986-00800-1100
1 MF 20V AX. TANT.	2	C107,C501	0986-0800-1400
4.7 MF 25V RD. TANT.	7	C100-C102,C200-C202,C401	0986-00800-3100
10 MF 25V AX. TANT.	4	C301-C303,C305	0986-00800-0700
22 MF 16V RD. TANT.	2	C103,C203	0986-00800-1600
100 MF 16V AX. ELECT.	2	C300,C402	0358-00800-0000
220 MF 25V AX. ELECT.	1	CP1	0986-00800-3200
470 MF 6V AX. ELECT.	2	C104,C204	0986-00800-1700
1 OHM 1/2W 5%	4	R103,R104,R203,R204	0062-026B3-1XXX
39 OHM 1/4W 5%	1	R501	0062-080B3-1XXX
82 OHM 1/4W 5%	2	R102,R202	0062-104B3-1XXX
220 OHM 1/4W 5%	2	R320,R500	0062-133B3-1XXX
240 OHM 1/4W 5%	1	R401	0062-135B3-1XXX
390 OHM 1/4W 5%	1	R322	0062-150B3-1XXX
560 OHM 1/4W 5%	1	R503	0062-162B3-1XXX
1.5K OHM 1/4W 5%	4	R310,R313,R400,R504	0062-187B3-1XXX
1.6K OHM 1/4W 5%	1	R321	0062-189B3-1XXX
3K OHM 1/4W 5%	2	R101,R201	0062-201B3-1XXX
8.2K OHM 1/4W 5%	2	R100,R200	0062-223B3-1XXX
10K OHM 1/4W 5%	2	R317,R502	0062-227B3-1XXX
24K OHM 1/4W 5%	1	R105	0062-245B3-1XXX
33K OHM 1/4W 5%	1	R305	0062-251B3-1XXX
75K OHM 1/4W 5%	1	R106	0062-269B3-1XXX
82K OHM 1/4W 5%	1	R309	0062-271B3-1XXX
160K OHM 1/4W 5%	1	R311	0062-285B3-1XXX
220K OHM 1/4W 5%	2	R304,R316	0062-291B3-1XXX
620K OHM 1/4W 5%	1	R312	0062-313B3-1XXX
1M OHM 1/4W 5%	5	R300-R303,R315	0062-323B3-1XXX
1.5M OHM 1/4W 5%	2	R308,R314	0062-331B3-1XXX
2.7M OHM 1/4W 5%	1	R307	0062-343B3-1XXX
4.7M OHM 1/4W 5%	2	R306,R319	0062-355B3-1XXX
5.6M OHM 1/4W 5%	1	R318	0062-359B3-1XXX
1N4148	4	D300-D303	0986-00801-0200
2N3904	1	Q2	0358-00802-0001
2N4403 OR 2N2905	1	Q1	0358-00802-0000
4N28	1	U6	0358-00804-0000
7805	1	U8	0358-00803-0001
LM317T	1	U7	0358-00803-0000
LM3900	1	U5	0986-00803-4900
MB3730	2	U1,U2	0066-188XX-XX4X
MC3340	1	U3	0358-00803-0002
6 PIN KK156 OMIT PIN 3	1	J2	3000-16367-0613
8 PIN KK156 OMIT PIN 3	1	J1	3000-16367-0810
12 PIN KK156 OMIT PIN 8	1	J3	3000-16367-1213
JUMPER WIRE	1	JW1	0986-00804-4000
HEATSINK	1	HSU7	0358-00804-0001
HEATSINK ASSY	2	HSU1,HSU2	A986-00010-0000
SNAP	1	MHU8	0017-00007-0134
1/4" SPACER FOR #8 SCREW	4	MH1-MH4	0017-00042-0320
DUAL PWR AMP W/CASS INTFC.	1		A080-91496-B358

REVISIONS

PROJECT ENG: C.MEDNICK		USED ON JOURNEY	Bally / MIDWAY MFG. CO. FRANKLIN PK. ILL.
DO NOT SCALE DWG	HEAT TREAT	SCALE FULL	NO. REQ'D 1 PER
DIM. TOLERANCES UNLESS SPECIFIED: CONCENTRICITY T.I.R. .003, FRACTIONAL ± 1/64, DECIMAL ± .005, HOLE DIA + .002 .000	DRN. TBB	MAT'L	DUAL PWR AMP W/CASS INTERFACE ASSEMBLY DWG A084-91496-B358
	CKD.	FINISH	PART NO. M051 - 00358 - B008
	DATE 04/05/83		

J1
11 R CASS
12 R CSH
9 L CASS
10 L CSH
4 L AUDIO
3 L SHLD
7 R AUDIO
6 R SHLD
8 KEY
1 N.U
2 VAUDIO
5 VAUDIO RET

+9.2V
R106 75K
C107 1MF
U3 MC 3340
R105 24K
C108 680PF
R206
C207
U4 MC 3340
R205
C208
C 300 100MF
JW1
RF CASS
LF CASS
R200 8.2K
R201 3K
R202 82
C201 4.7MF
C202 4.7MF
C200 4.7MF
U2 3730
C203 22
C204 470MF
C205 0.1MF
R204 1, 1/2W
R203 1, 1/2W
C206 0.1MF
VAUDIO
RF CASS
R100 8.2K
R101 3K
R102 82
C101 4.7MF
C102 4.7MF
C100 4.7MF
U1 3730
C103 22MF
C104 470MF
C105 0.1MF
R104 1, 1/2W
R103 1, 1/2W
C106 0.1MF

J2
L+ 4
L- 6
R+ 1
R- 2
KEY 3
N.U. 5

J3
L.GND 6
TAPE ON 7
+9.2V
R302 1M
R321 1.6K
CV+ 8
CVS 4
0.1MF C304
C305 10MF
KEY 3
R322 390
CV- 5
+CASS 1
-CASS 2

R320 220
4N28 (6PIN DIP)
U6
R316 220K
R317 10K
R318 5.6M
R319 4.7M
U5 LM 3900
R313 1.5K
R314 1.5M
D303 IN4148
R311 160K
R312 620K
R310 1.5K
C303 10MF
R315 1M
D302 IN4148
R309 82K
R308 1.5M
C302 10MF
R307 2.7M
U5 LM 3900
R306 4.7M
D300 IN4148
R305 33K
D301 IN4148
R304 220K
C301 10MF
CASS ON
R300 1M
U5 LM 3900
R301 1M
R303 1M

U7 LM317 T
U8 7805
CP1 220MF
CP2-CP7 0.1MF
C400 0.1MF
R400 1.5K
R401 240
C401 4.7MF
C402 100MF
C500 0.1MF
R501 39
R500 220
C501 1MF
R502 10K
R503 560
R504 1.5K
Q1 2N2905 OR 2N4403
Q2 2N3904

NOTE:
ALL RESISTORS ARE 1/4 W, 5% UNLESS OTHERWISE NOTED.

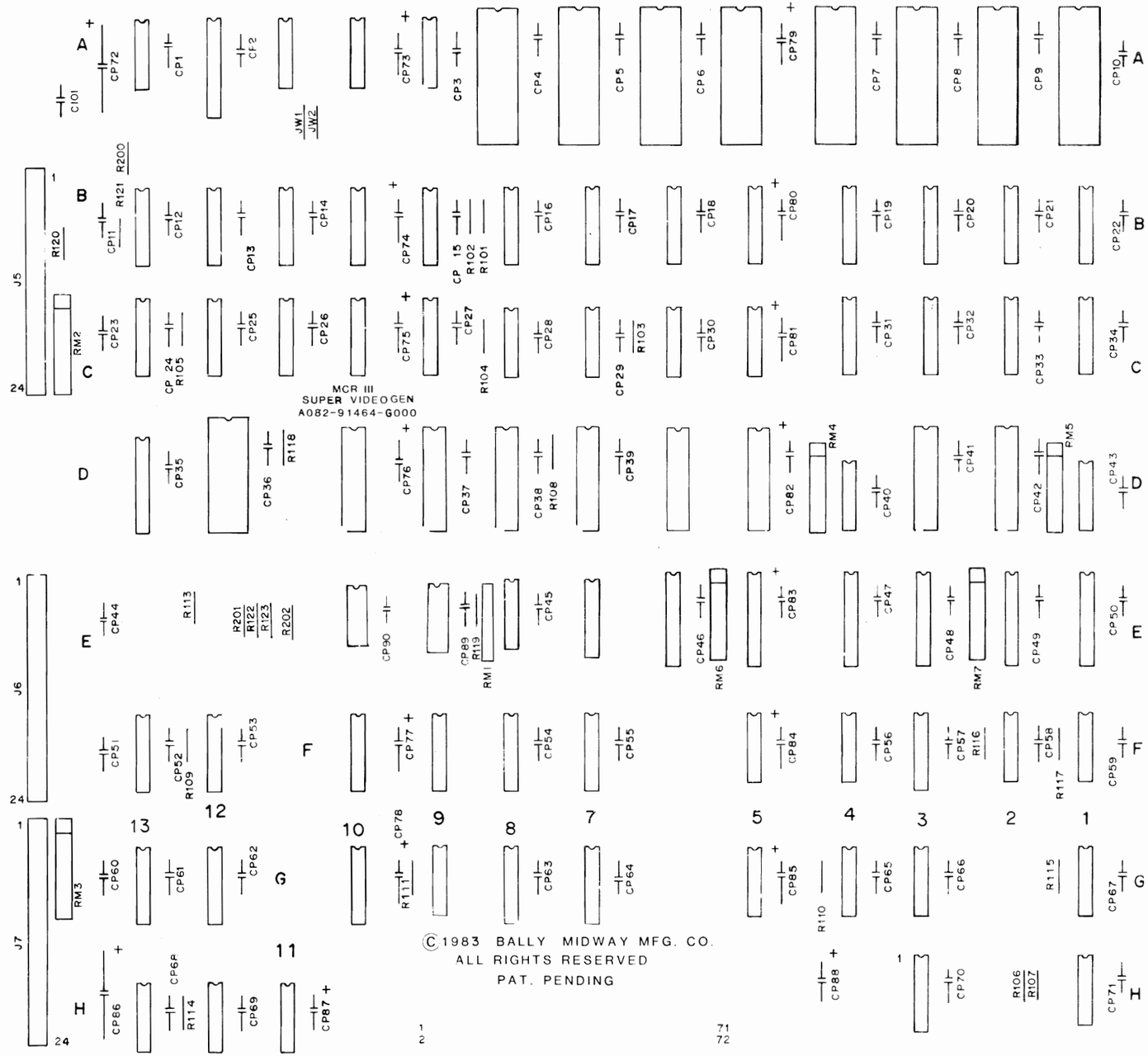
REVISIONS

PROJECT ENG: C. MEDNICK			USED ON JOURNEY	Bally / MIDWAY MFG. CO. FRANKLIN PK., ILL.
DO NOT SCALE DWG.	HEAT TREAT	SCALE FULL	NO. REQ'D 1PER	
DIM. TOLERANCES UNLESS SPECIFIED DRN. TBB CKD. DATE 04/07/83	MAT'L.	DUAL PWR AMP W/CASS INTERFACE SCHEMATIC DWG A084-91496-B358		PART NO. M051 - 00358 - B009
	FINISH			

DESIGNATION LIST

DESIGNATION	DESCRIPTION
C101	.01 MF AX CER
CP1-CP71	.01 MF AX CER
CP72,CP86	100 MF AX ELECT.
CP73-CP85,CP87, CP88	10 MF 25V AX TANT.
CP89,CP90	.01MF AX. CER.
R101-R111,R113-R121	1K OHM 1/4W
R122,R123	560 OHM 1/4W
R200	100 OHM 1/4W
R201,R202	82 OHM 1/4W
RM1	82 8 PIN SIP
RM 2	1K 10 PIN SIP
RM 3	1K 10 PIN SIP
RM 4	1K 9 PIN SIP
RM 5	1K 9 PIN SIP
RM 6	1K 9 PIN SIP
RM 7	1K 9 PIN SIP
IC 1A	EPROM
IC 2A	EPROM
IC 3A	EPROM
IC 4A	EPROM
IC 5A	EPROM
IC 6A	EPROM
IC 7A	EPROM
IC 8A	EPROM
IC 9A	74LS86
IC 10A	74LS86
IC 11A	74LS174
IC 12A	74LS273
IC 13A	74S04
IC 1B	74LS194
IC 2B	74LS194
IC 3B	74LS194
IC 4B	74LS194
IC 5B	74LS194
IC 6B	74LS194
IC 7B	74LS194
IC 8B	74LS194
IC 9B	74LS161
IC 10B	74LS174
IC 11B	74LS174
IC 12B	74S283
IC 13B	74S283
IC 1C	74LS258
IC 2C	74LS258
IC 3C	74LS258
IC 4C	74LS258
IC 5C	74LS00
IC 6C	74LS04
IC 7C	74LS74
IC 8C	74LS30
IC 9C	74LS169
IC 10C	74LS169
IC 11C	74LS169
IC 12C	74LS169
IC 13C	74S133

DESIGNATION	DESCRIPTION
IC 1D	7420
IC 2D	93479
IC 3D	93479
IC 4D	7420
IC 5D	93479
IC 6D	93479
IC 7D	93422
IC 8D	93422
IC 9D	93422
IC 10D	93422
IC 12D	STAT. RAM
IC 13D	74LS245
IC 1E	74LS374
IC 2E	74LS374
IC 3E	74LS374
IC 4E	74LS374
IC 5E	74LS374
IC 6E	74LS374
IC 7E	74LS258
IC 8E	74LS00
IC 9E	74S161
IC 10E	74S04
IC 1F	74LS74
IC 2F	74LS74
IC 3F	74LS157
IC 4F	74LS00
IC 5F	74LS32
IC 7F	74LS283
IC 8F	74LS175
IC 9F	74LS157
IC 10F	74LS157
IC 12F	74LS157
IC 13F	74LS157
IC 1G	74LS74
IC 3G	74S08
IC 4G	74LS30
IC 5G	74LS30
IC 7G	74LS283
IC 8G	74LS174
IC 9G	74LS10
IC 10G	74LS157
IC 12G	74LS157
IC 13G	74LS157
IC 1H	74LS32
IC 3H	74LS258
IC 11H	7420
IC 12H	7420
IC 13H	74LS74
ICS1A-ICS8A	28 PIN SOCKET
ICS D2,D3,D5-D10	22 PIN SOCKET
ICS D12	24 PIN SOCKET
J5,J6,J7	KK100 RT. ANGLE 24 PIN CONN.
JW 1, JW2	JUMPER WIRE
MCR III SUPER VIDEO GEN.	A082-91464-G000



CROSS REFERENCE LIST

DESCRIPTION	QTY	DESIGNATION NO.	PART NOS.
CAP .01MF	74	C101,CP1-CP71, CP89,CP90	0986-00800-2500
CAP 10MF	15	CP73-CP85,CP87, CP88	0986-00800-2400
CAP 100MF	2	CP72,CP86	0986-00800-1800
82 OHM 1/4 W RES.	2	R201,R202	0062-104B3-1XXX
100 OHM 1/4 W RES.	1	R200	0062-110B3-1XXX
1K OHM 1/4 W RES.	20	R101-R111,R113-R121	0062-179B3-1XXX
560 OHM 1/4W RES.	2	R122,R123	0062-162B3-1XXX
8 PIN SIP 82 OHM	1	RM1	0333-00804-0004
9 PIN SIP 1K OHM	4	RM4-RM7	0304-00804-0002
10 PIN SIP 1K OHM	2	RM2,RM3	0986-00804-1000
74LS00	3	C5,F4,E8	0304-00803-0010
74S04	2	A13,E10	0304-00803-0011
74LS04	1	C6	0304-00803-0012
74S08	1	G3	0304-00803-0037
74LS10	1	G9	0304-00803-0014
7420	4	D1,D4,H11,H12	0304-00803-0015
74LS30	3	C8,G4,G5	0304-00803-0016
74LS32	2	F5,H1	0304-00803-0017
74LS74	5	C7,F1,F2,G1,H13	0304-00803-0018
74LS86	2	A9,A10	0304-00803-0019
74S133	1	C13	0304-00803-0020
74LS157	8	F3,F9,F10,F12,F13, G10,G12,G13	0304-00803-0021
74S161	1	E9	0304-00803-0038
74LS161	1	B9	0304-00803-0022
74LS169	4	C9-C12	0304-00803-0023
74LS174	4	A11,B10,B11,G8	0304-00803-0024
74LS175	1	F8	0304-00803-0025
74LS194	8	B1-B8	0304-00803-0026
74LS245	1	D13	0304-00803-0027
74LS258	6	C1-C4,E7,H3	0304-00803-0028
74LS273	1	A12	0304-00803-0029
74S283	2	B12,B13	0304-00803-0039
74LS283	2	F7,G7	0304-00803-0030
74LS374	6	E1-E6	0304-00803-0031
93422	4	D7-D10	0304-00803-0032
93479	4	D2,D3,D5,D6	0304-00803-0033
STAT. RAM	1	D12	0304-00803-0034
28 PIN SOCKET	8	ICS A1-A8	0986-00804-0300
22 PIN SOCKET	8	ICS D2,D3,D5,D6, D7-D10	0986-00804-0700
24 PIN SOCKET	1	ICS D12	0986-00804-1600
KK100 RT. ANGLE 24 PIN CONN.	3	J5,J6,J7	0986-00804-4700
JUMPER WIRE	2	JW1,JW2	0986-00805-0200
MCR III SUPER VIDEO GEN.			A082-91464-G000

REVISIONS

PROJECT ENG: R. PLOUSSARD			USED ON JOURNEY	Bally / MIDWAY MFG. CO. FRANKLIN PK. ILL.
DO NOT SCALE DWG.	HEAT TREAT	SCALE FULL	NO. REQ'D 1 PER	
DIM. TOLERANCES UNLESS SPECIFIED: DRN TBB; CKD. RAT; DATE 04/25/83	MAT'L.	FINISH	SUPER VIDEO GEN. MCR III ASSY DWG A082-91464-G000	PART NO. M051-00358-A011

J5 (24 PIN RIBBON CABLE)

1-3	GND
4-6	+5V
7	NOT USED
8	COL 3
9	NOT USED
10	NOT USED
11	RSEL0
12	+5V
13	FLIP
14	MOVE BUF
15	6.14
16	DV0
17	DV1
18	DV2
19	DV3
20	DV4
21	DV5
22	DV6
23	DV7
24	DV8

J6 (24 PIN RIBBON CABLE)

1	GND
2	BμRD
3	GND
4	BμD0
5	BμD1
6	BμD2
7	BμD3
8	BμD4
9	BμD5
10	BμD6
11	BμD7
12	GND
13	BμA0
14	BμA1
15	BμA2
16	BμA3
17	BμA4
18	BμA5
19	BμA6
20	BμA7
21	BμA8
22	GND

72 PIN TEST CONN. (EDGE)

1,3	GND
2,4	+5V
5	CK
6	NOT USED
7	V BLANK
8	FLIP
9	BμD0
10	BμD1
11	BμD2
12	BμD3
13	BμD4
14	BμD5
15	BμD6
16	BμD7
17	VID 0
18	VID 1
19	VID 2
20	VID 3
21	MOVE BUF
22	NOT USED
23	BμA8
24	DV0
25	BμA0
26	BμA1
27	BμA2
28	BμA3
29	BμA4
30	BμA5
31	BμA6
32	BμA7
33	DV1
34	DV2
35	DV3
36	DV4
37	DV5
38	DV6
39	DV7
40	DV8
41-42	NOT USED
43	H3
44	H4
45	H5
46	H6
47	H7
48	H8
49	COL0
50	COL1
51	6.14
52	BμRD
53	RSEL0
54	WSEL0
55	START
56	NOT USED
57	NOT USED
58	NOT USED
59	NOT USED
60	NOT USED
61	GND
62	NOT USED
63	GND
64	NOT USED
65	GND
66	NOT USED
67	GND
68	NOT USED
69-72	GND

J7 (24 PIN RIBBON CABLE)

1	NOT USED
2	COL 0
3	COL 1
4	COL 2
5	V BLANK
6	H3
7	H4
8	H5
9	H6
10	H7
11	H8
12	GND
13	VID 0
14	VID 1
15	VID 2
16	VID 3
17	WSEL0
18	GND
19-21	+5V
22-24	GND

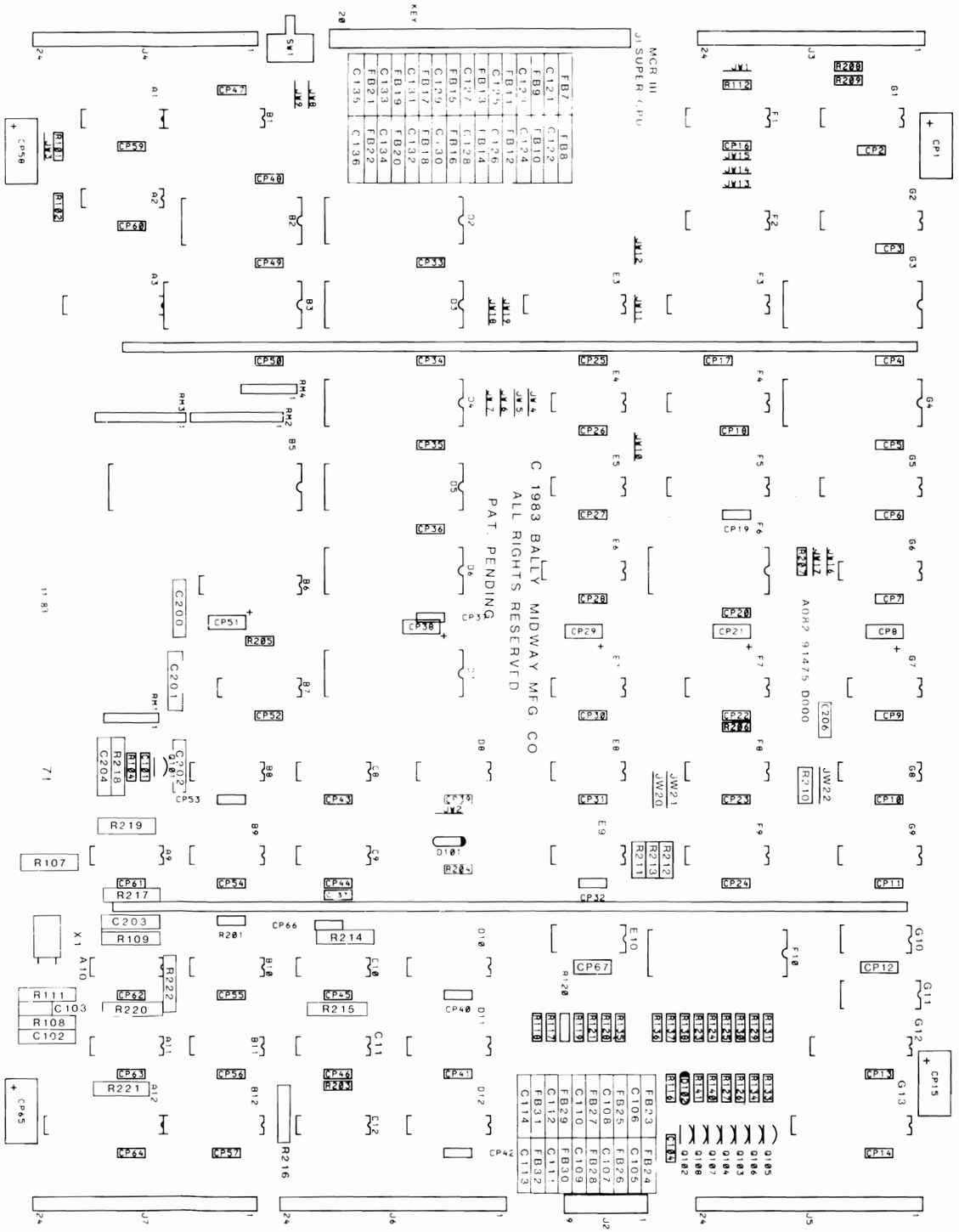
23	CK
24	GND

PROJECT ENG.	R. PLOUSSARD	USED ON	MCR III
		NEXT ASSY	NO REQD. I PER
DRAWN	DATE 04/13/83	TITLE	SCHEMATIC DWG. SUPER VIDEO GEN. MCR III A082-91464-6000
		REVISIONS	
			MIDWAY MFG. CO.
		PART NO	M051-00304-6006

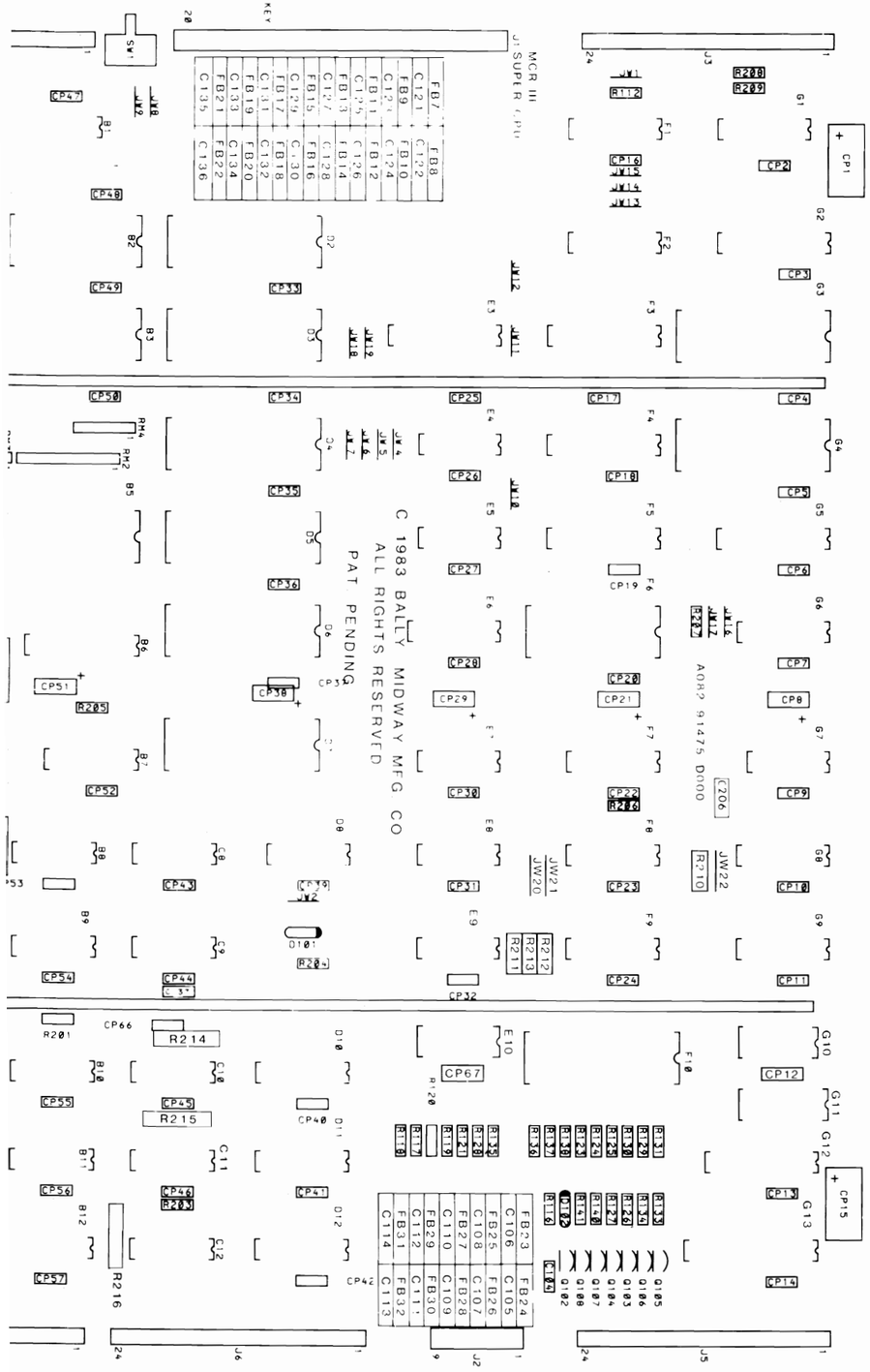
DESCRIPTION LIST

DESIGNATION NO.	DESCRIPTION
C101	33PF AX CER.
C102	0.1MF AX CER.
C103	0.1MF MYLAR
C104	390PF AX CER.
C105-C110	47PF AX CER.
C111-C114	820PF AX CER.
C121-C137	390PF AX CER.
C200	820PF AX CER.
C201,C202	390PF AX CER.
C203	100PF AX CER.
C204	0.1MF AX CER.
C206	100PF AX CER.
CP1	470MF 16V ELECT. AX.
CP2-CP7	0.01MF 50V AX CER.
CP8	10.MF 25V AX TANT.
CP9-CP14	0.01MF 50V AX CER.
CP15	470MF 16V ELECT. AX.
CP16-CP20	0.01MF 50V AX CER.
CP21	10 MF
CP22-CP28	0.01 MF
CP29	10 MF
CP30-CP37	0.01 MF
CP38	10 MF
CP39-CP50	0.01 MF
CP51	10 MF
CP52-CP57	0.01 MF
CP58	470 MF 16V ELECT AX.
CP59-CP64	0.01 MF
CP65	470 MF
CP66	0.1 MF 50V AX CER.
CP67	0.01 MF
R101	4.7K OHM 1/4W CRBN.
R102	1K OHM 1/4W CRBN.
R104	82K OHM 1/4W CRBN.
R107	1K OHM 1/4W CRBN.
R108	330 OHM 1/4W CRBN.
R109	1K OHM 1/4W CRBN.
R111	330 OHM 1/4W CRBN.
R112	4.7K OHM 1/4W CRBN.
R116	1K OHM 1/4W CRBN.
R117,R118	560 OHM 1/4W CRBN.
R119	100 OHM 1/4W CRBN.
R120	820 OHM 1/4W CRBN.
R121	470 OHM 1/4W CRBN.
R123	510 OHM 1/4W CRBN.
R124	1K OHM 1/4W CRBN.
R125	2K OHM 1/4W CRBN.
R126,R127	10 OHM 1/4W CRBN.
R128	470 OHM 1/4W CRBN.
R129	1K OHM 1/4W CRBN.
R130	510 OHM 1/4W CRBN.
R131	2K OHM 1/4W CRBN.
R133,R134	10 OHM 1/4W CRBN.
R135	470 OHM 1/4W CRBN.
R136	510 OHM 1/4W CRBN.
R137	1K OHM 1/4W CRBN.
R138	2K OHM 1/4W CRBN.
R140,R141	10 OHM 1/4W CRBN.
R201	1K OHM 1/4W CRBN.
R203-R207	1K OHM 1/4W CRBN.
R208,R209	4.7K OHM 1/4W CRBN.
R210	1K OHM 1/4W CRBN.
R211-R213	3.9K OHM 1/4W CRBN.
R214-R217	82 OHM 1/4 CRBN.
R218	62 OHM 1/4 CRBN.
R219	82 OHM 1/4 CRBN.
R220	47 OHM 1/4 CRBN
R221,R222	82 OHM 1/4 CRBN.
RM1	4.7K 6 PIN SIP
RM2,RM3	4.7K 10 PIN SIP
RM4	4.7K 6 PIN SIP
D101	1N5817
D102	4148
Q101	2N4403
Q102	2N4123
Q103-Q108	MPSA70
A1	74LS161
A2	74LS367
A3	74LS245
A9,A10	74S74
A11	74S04
A12	H-T

DESIGNATION NO.	DESCRIPTION
B1	74LS244
B2	CMOSRAM
B3	MK3882
B5	MK3880
B6	74LS244
B7	74LS133
B8	74LS32
B9	74S04
B10	74LS74
B11	74LS32
B12	V&H-T
C8	74LS08
C9	74LS74
C10	74S04
C11,C12	74LS20
D2	EPROM
D3	EPROM
D4	EPROM
D5	EPROM
D6	EPROM
D7	EPROM
D8	74LS04
D10-D12	74LS157
E3	NVR CONTROLLER
E4,E5	74LS32
E6	74LS138
E7	74LS86
E8	74LS27
E9	74LS04
E10	7406
F1	4053
F2	4017
F3	74LS245
F4,F5	74LS273
F6	6116
F7	74LS174
F8,F9	74LS157
F10	93419
G1	74LS153
G2	74LS273
G3	EPROM
G4	EPROM
G5	74LS273
G6	74LS153
G7	74LS86
G8	74LS174
G9	74LS157
G10	7408
G11	74LS157
G12	CUSTOM IC
G13	V-T GEN.
FB7-FB32	FERRITE BEAD
ICSA12	8 PIN IC SOCKET
ICSA12A	16 PIN IC SOCKET
ICSB2	24 PIN IC SOCKET
ICSB3	28 PIN IC SOCKET
ICSB5	40 PIN IC SOCKET
ICSB12	20 PIN IC SOCKET
ICSD2-D7	28 PIN IC SOCKET
ICSE3	20 PIN IC SOCKET
ICSF6	24 PIN IC SOCKET
ICSF10	28 PIN IC SOCKET
ICSG3,ICSG4	28 PIN IC SOCKET
ICSG12	20 PIN IC SOCKET
ICSG13	8 PIN IC SOCKET
ICSG13A	16 PIN IC SOCKET
J1	FMD. HDR..156 C
	OMIT 15
J2	FMD. HDR..100 C
	OMIT 3
J3-J7	KK100 RT ANGLE 24
	PIN
JW1-JW22	ZERO OHM RESISTORS
J3-J7	FLEX-PAC JUMPER
SW1	SWITCH PC MOUNTING
CRYSTAL	19,968 MHZ CRYSTAL
BB1,BB2	BUS BAR



DESCRIPTION	QTY
33PF AX CER.	1
47 PF AX CER.	6
100 PF AX CER.	2
390 PF AX CER.	20
820 PF AX CER.	5
0.01MF 50V AX CER.	57
0.1MF 100V MYLAR	1
0.1MF 50V AX CER.	3
10MF 25V AX TANT.	5
470 MF 16V AX ELECT.	4
10 OHM 1/4W CRBN.	6
47 OHM 1/4W CRBN.	1
62 OHM 1/4W CRBN.	1
82 OHM 1/4W CRBN.	7
100 OHM 1/4W CRBN.	1
330 OHM 1/4W CRBN.	2
470 OHM 1/4W CRBN.	3
510 OHM 1/4W CRBN.	3
560 OHM 1/4W CRBN.	2
820 OHM 1/4W CRBN.	1
1K OHM 1/4W CRBN.	14
2K OHM 1/4W CRBN.	3
3.9K OHM 1/4W CRBN	3
4.7K OHM 1/4W CRBN.	4
82K OHM 1/4W CRBN.	1
4.7K 6 PIN SIP	2
4.7K 10 PIN SIP	2
1N5817	1
4148	1
2N4403	1
2N4123	1
MPSA70	6
74S04	3
74LS04	2
7406	1
7408	1
74LS08	1
74LS20	2
74LS27	1
74LS32	4
74S74	1
74LS74	2
74LS86	2
74LS133	1
74LS138	1
74LS153	2
74LS157	7



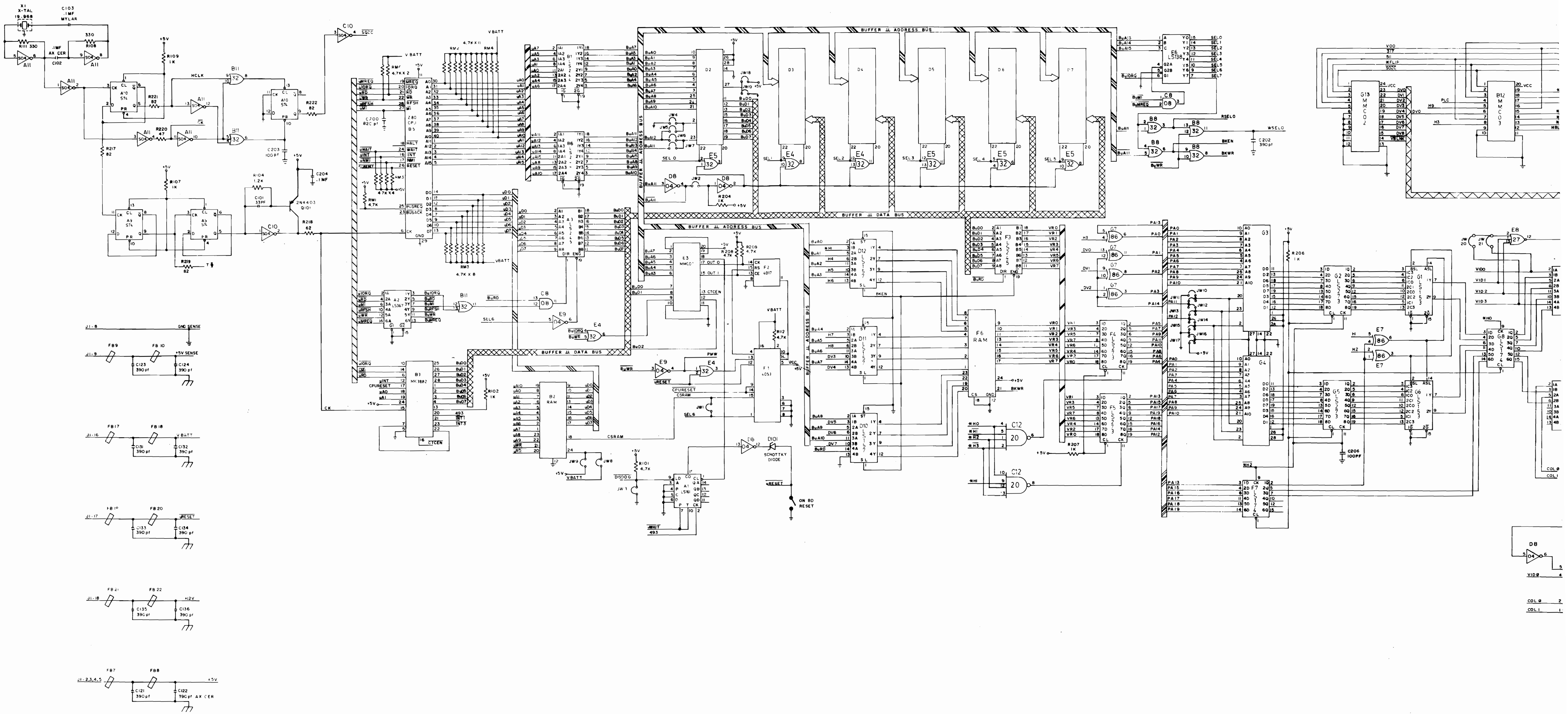
CROSS REFERENCE LIST

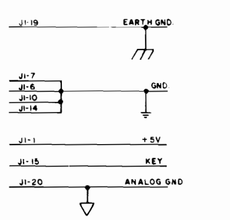
DESCRIPTION	QTY	DESIGNATION NO.	PART NOS.
33PF AX CER.	1	C101	0986-00800-0300
47 PF AX CER.	6	C105-C110	0986-00800-2800
100 PF AX CER.	2	C203,C206	0986-00800-1000
390 PF AX CER.	20	C104,C121-C137, C201,C202	0986-00800-3000
820 PF AX CER.	5	C111-C114,C200	0986-00800-3501
0.01MF 50V AX CER.	57	CP2-CP7,CP9-CP14 CP16-CP20,CP22-CP28,CP30-CP37, CP39-CP50,CP52-CP57,CP59-CP64, CP67	0986-00800-2200
0.1MF 100V MYLAR	1	C103	0986-00800-0100
0.1MF 50V AX CER.	3	C102,CP66,C204	0986-00800-0200
10MF 25V AX TANT.	5	CP8,CP21,CP29, CP38,CP51	0986-00800-3400
470 MF 16V AX ELECT.	4	CP1,CP15,CP58, CP65	0986-00800-3300
10 OHM 1/4W CRBN.	6	R126,R127,R133, R134,R140,R141	0062-051B3-1XXX
47 OHM 1/4W CRBN.	1	R220	0062-086B3-1XXX
62 OHM 1/4W CRBN.	1	R218	0062-095B3-1XXX
82 OHM 1/4W CRBN.	7	R214-R217,R219,R221, R222	0062-104B3-1XXX
100 OHM 1/4W CRBN.	1	R119	0062-110B3-1XXX
330 OHM 1/4W CRBN.	2	R108,R111	0062-144B3-1XXX
470 OHM 1/4W CRBN.	3	R121,R128,R135	0062-156B3-1XXX
510 OHM 1/4W CRBN.	3	R123,R130,R136	0062-159B3-1XXX
560 OHM 1/4W CRBN.	2	R117,R118	0062-162B3-1XXX
820 OHM 1/4W CRBN.	1	R120	0062-174B3-1XXX
1K OHM 1/4W CRBN.	14	R102,R107,R109, R116,R124,R129, R137,R201,R203-R207,R210	0062-179B3-1XXX
2K OHM 1/4W CRBN.	3	R125,R131,R138	0062-193B3-1XXX
3.9K OHM 1/4W CRBN	3	R211-R213	0304-207B3-1XXX
4.7K OHM 1/4W CRBN.	4	R101,R112,R208, R209	0062-211B3-1XXX
82K OHM 1/4W CRBN.	1	R104	0062-271B3-1XXX
4.7K 6 PIN SIP	2	RM1,RM4	0986-00804-2400
4.7K 10 PIN SIP	2	RM2,RM3	0986-00804-4600
1N5817	1	D101	0986-00801-0300
4148	1	D102	0986-00801-0100
2N4403	1	Q101	0986-00802-0200
2N4123	1	Q102	0986-00802-0100
MPSA70	6	Q103-Q108	0986-00802-0300
74S04	3	A11,B9,C10	0986-00803-0400
74LS04	2	D8,E9	0986-00803-1007
7406	1	E10	0304-00803-0035
7408	1	G10	0304-00803-0036
74LS08	1	C8	0986-00803-1006
74LS20	2	C11,C12	0986-00803-1004
74LS27	1	E8	0986-00803-9500
74LS32	4	B8,B11,E4,E5	0986-00803-0600
74S74	1	A9,A10	0986-00803-1500
74LS74	2	B10,C9	0986-00803-1005
74LS86	2	E7,G7	0986-00803-9900
74LS133	1	B7	0986-00803-1002
74LS138	1	E6	0986-00803-1900
74LS153	2	G1,G6	0986-00803-1000
74LS157	7	D10-D12,F8,F9, G9,G11	0986-00803-9700

DESCRIPTION	QTY	DESIGNATION NO.	PART NOS.
74LS161	1	A1	0986-00803-1003
74LS174	2	F7,G8	0986-00803-9800
74LS244	2	B1,B6	0986-00803-0800
74LS245	2	A3,F3	0986-00803-0900
74LS273	4	F4,F5,G2,G5	0986-00803-1001
MK3880	1	B5	0986-00803-7800
MK3882	1	B3	0986-00803-7700
4017	1	F2	0986-00803-8700
4053	1	F1	0986-00803-2000
COMS RAM	1	B2	0986-00803-8100
6116	1	F6	0986-00803-1008
93419	1	F10	0986-00803-9600
H-T GEN.	1	A12	0986-00803-8900
V-T GEN.	1	G13	0986-00803-9000
V&H GEN.	1	B12	0986-00803-9100
MISC. CUSTOM	1	G12	0986-00803-9200
NVR CONTROLLER	1	E3	0986-00804-3200
EPROM	1	D2	
EPROM	1	D3	
EPROM	1	D4 ROM/EPROM	
EPROM	1	D5 OPTIONS KIT	
EPROM	1	D6	
EPROM	1	D7	
EPROM	1	G3	
EPROM	1	G4	
8 PIN IC SOCKET	2	ICSA12,ICSG13	0986-00804-3600
16 PIN IC SOCKET	2	ICSA12A,ICSG13A	0986-00804-3700
20 PIN IC SOCKET	3	ICSB12,ICSE3, ICSG12	0986-00804-3800
24 PIN IC SOCKET	2	ICSB2,ICSF6	0986-00804-3400
28 PIN IC SOCKET	10	ICSB3,ICSD2-ICSD7,ICSF10, ICSG3,ICSG4,	0986-00804-3900
40 PIN IC SOCKET	1	ICSB5	0986-00804-3500
FMD. HDR. .156 C OMIT 15	1	J1	3000-16366-0902
FMD. HDR. .156 C OMIT 3	1	J2	3000-16387-2010
KK100 RT ANGLE 24 PIN CONN.	5	J3-J7	0986-00804-4700
ZERO OHM RESISTORS	22	JW1-JW22	0986-00804-4000
SWITCH PC MTG.	1	SW1	0986-00804-3100
19,968 MHZ CRYSTAL	1	XTAL	0986-00804-4900
BUS BAR	2	BB1,BB2	0986-00804-4100
FLEX-PAC	5	J3-J7	0986-00804-4800
FERRITE BEAD	26	FB7-FB32	0316-00804-0002
MCR III SUPER CPU BD.			A082-91475-D000

REVISIONS

PROJECT ENG: R.PLOUSSARD		USED ON JOURNEY	Bally / MIDWAY MFG. CO. FRANKLIN PK. ILL.
DO NOT SCALE DWG.	HEAT TREAT	SCALE FULL	NO. REQ'D
DIM. TOLERANCES UNLESS SPECIFIED DRN. TBB CKD. RLP DATE 04/28/83	MAT'L.	FINISH	SUPER CPU MCR III ASSY DWG A082-91475-D000
			PART NO. M051-00358-A010





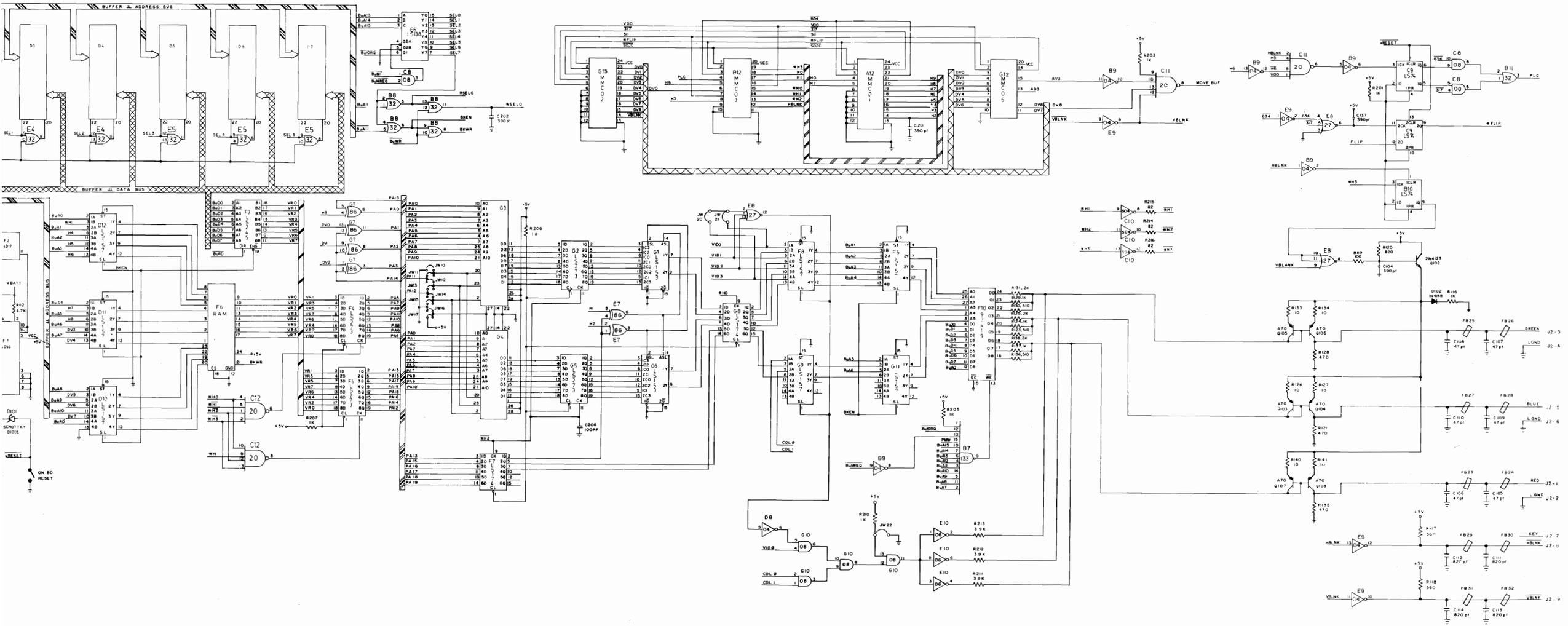
72 PIN TEST CONNECTOR

Pin	Signal	Pin	Signal	Pin	Signal
1	L GND	25	µA0	49	µNMI
2	+5V	26	µA1	50	µINT
3	L GND	27	µA2	51	µMI
4	+5V	28	µA3	52	µBUSACK
5	+12V	29	µA4	53	µRD
6	N.U	30	µA5	54	µWR
7	+12V	31	µA6	55	µRESET
8	VBATT	32	µA7	56	TΦ
9	µD0	33	DISDOG	57	N.U.
10	µD1	34	N.U.	58	µHALT
11	µD2	35	FLIP	59	µWAIT
12	µD3	36	N.U.	60	HBLNK
13	µD4	37	µIORQ	61	VBLNK
14	µD5	38	µMREQ	62	N.U.
15	µD6	39	µBUSREQ	63	L GND
16	µD7	40	µRFSH	64	RED
17	VID 0	41	µA8	65	L GND
18	VID 1	42	µA9	66	GREEN
19	VID 2	43	µA10	67	L GND
20	VID 3	44	µA11	68	BLUE
21	MOVE BUF	45	µA12	69	L GND
22	INT 1	46	µA13	70	+5V
23	INT 3	47	µA14	71	L GND
24		48	µA15	72	+5V

Pin	J3	J4	J5	J6	J7	J2
1	L GND	A GND	L GND	L GND	N.U.	RED
2	L GND	A GND	L GND	BuRD	COL Ø	L GND
3	L GND	BuA7	L GND	L GND	COL 1	GREEN
4	+5V	BuA6	+5V	BuDØ	N.U.	L GND
5	+5V	BuA5	+5V	BuD1	VBLANK	BLUE
6	+5V	BuA4	+5V	BuD2	H3	L GND
7	N.U	BuA3	N.U.	BuD3	H4	KEY
8	N.U	BuA2	N.U	BuD4	H5	HBLNK
9	N.U	BuA1	N.U.	BuD5	H6	VBLNK
10	BuD0	BuA0	N.U	BuD6	H7	
11	BuD1	+12V	RSELO	BuD7	H8	
12	BuD2	+12V	+5V SENSE	L GND	L GND	
13	BuD3	µWAIT	FLIP	BuA0	VID 0	
14	BuD4	BuIORQ	MOVE BUF	BuA1	VID 1	
15	BuD5	N.U.	634	BuA2	VID 2	
16	BuD6	BuRD	DV0	BuA3	VID 3	
17	BuD7	BuWR	DV1	BuA4	WSEL 0	
18	N.U.	N.U.	DV2	BuA5	N.U.	
19	FLIP	+5V	DV3	BuA6	+5V	
20	µRESET	+5V	DV4	BuA7	+5V	
21	N.U	+5V	DV5	BuA8	+5V	
22	N.U	L GND	DV6	L GND	L GND	
23	N.U.	L GND	DV7	CK	L GND	
24	N.U.	L GND	DV8	L GND	L GND	

NOTES

A = ANALOG
E = EARTH
L = LOGIC
N.U. = NOT USED

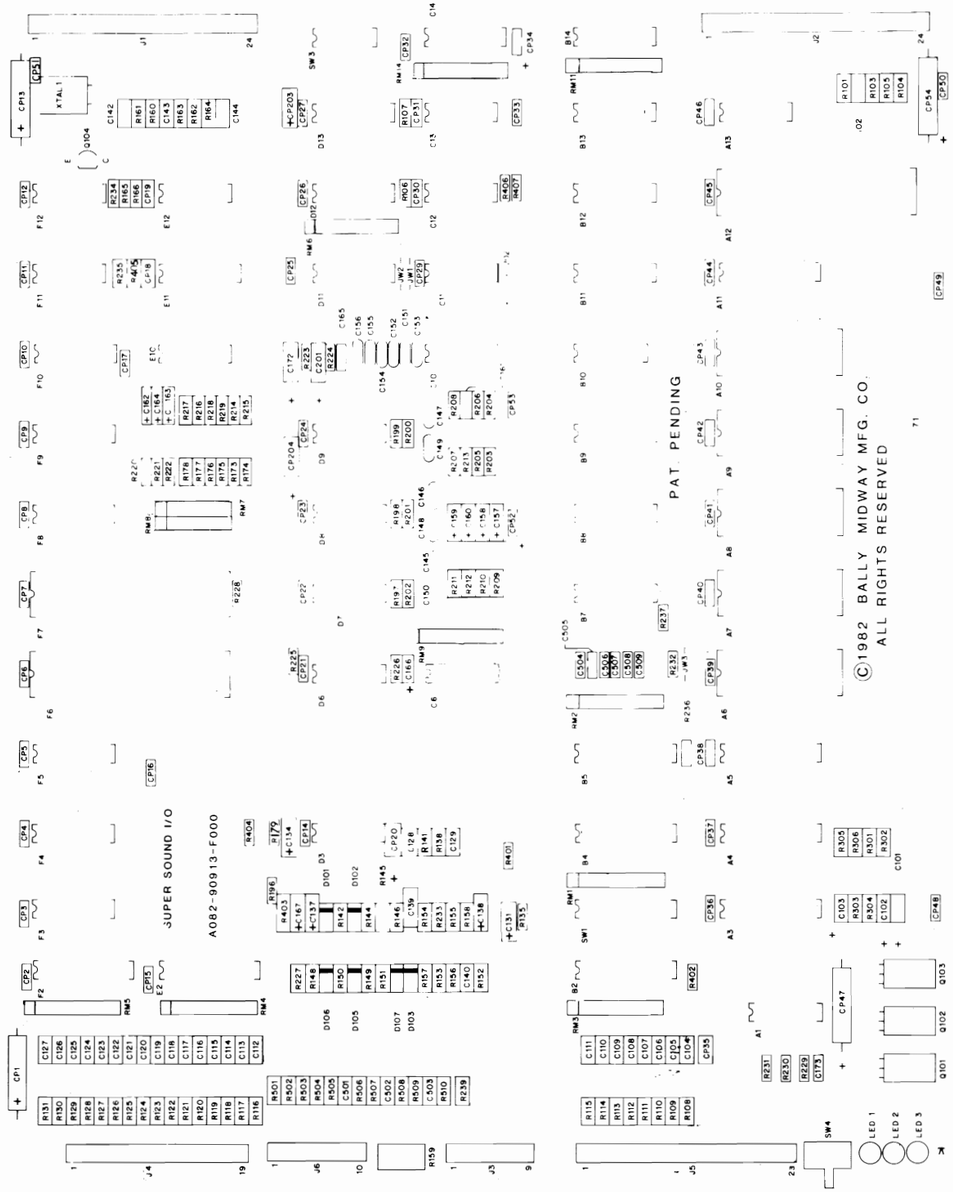


PROJECT ENG R. A. PLOUSSARD		USED ON JOURNEY	REVISIONS
	SIZE FULL	NO REQ'D 1(ONE)	Bally / MIDWAY MFG. CO. FRANKLIN PK. ILL.
04/15/83	SUPER CPU MCR III SCHEMATIC DWG A082-91475-D000		PART NO M051-00304-D008

DESIGNATION LIST

DESIGNATION NO.	DESCRIPTION
C101-C103	10 MF 25V AX. TANT.
C104-C127	.1 MF 50V AX. CER.
C128	47 PF 50V AX. CER.
C131	10 MF 25V AX. TANT.
C134,C137	1 MF 20V AX. TANT.
C138	10 MF 25V AX. TANT.
C139	.047 MF 100V MYLAR
C140	.01 MF 50V AX. CER.
C142	100 PF 50V AX. CER.
C143	.1 MF 50V AX. CER.
C144	33 PF 50V AX. CER.
C145-C156	.0022 MF 100V 10% MYLAR
C157-C159	1 MF 20V AX. TANT.
C161	330 PF 50V AX. CER.
C162-C164	1 MF 20V AX. TANT.
C165	330 PF 50V AX. CER.
C166,C167	10 MF 25V AX. TANT.
C172	10 MF 25V AX. TANT.
C173	.01 MF 50V AX. CER.
C501-C509	.1 MF 50V AX. CER.
CP1	470 MF 16V AX. ELECT.
CP2-CP12	.01 MF 50V AX. CER.
CP13	470 MF 16V AX. ELECT.
CP14-CP19	.01 MF 50V AX. CER.
CP20	10 MF 25V AX. TANT.
CP21-CP27	.01 MF 50V AX. CER.
CP29-CP33	.01 MF 50V AX. CER.
CP34	10 MF 25V AX. TANT.
CP35-CP46	.01 MF 50V AX. CER.
CP47	470 MF 16V AX. ELECT.
CP48-CP51	.01 MF 50V AX. CER.
CP52,CP53	10 MF 25V AX. TANT.
CP54	470 MF 16V AX. ELECT.
CP202-CP204	10 MF 25V AX. TANT.
R101-R107	4.7K OHM 1/4W 5% CRBN.
R108-R131	220 OHM 1/4W 5% CRBN.
R135	33K OHM 1/4W 5% CRBN.
R138,R141	180K OHM 1/4W 5% CRBN.
R142	100K OHM 1/4W 5% CRBN.
R144,R145	620K OHM 1/4W 5% CRBN.
R146	10K OHM 1/4W 5% CRBN.
R148	100K OHM 1/4W 5% CRBN.
R149,R150	620K OHM 1/4W 5% CRBN.
R151	10K OHM 1/4W 5% CRBN.
R152	1MEG. OHM 1/4W 5% CRBN.
R153	1K OHM 1/4W 5% CRBN.
R154	1MEG. OHM 1/4W 5% CRBN.
R155,R156	10K OHM 1/4W 5% CRBN.
R157,R158	1.2K OHM 1/4W 5% CRBN.
R160,R161	330 OHM 1/4W 5% CRBN.
R162	220 OHM 1/4W 5% CRBN.
R163	1.2K OHM 1/4W 5% CRBN.
R164	22 OHM 1/4W 5% CRBN.
R165,R166	4.7K OHM 1/4W 5% CRBN.
R173-R178	5.6K OHM 1/4W 5% CRBN.
R179	24K OHM 1/4W 5% CRBN.
R196	24K OHM 1/4W 5% CRBN.
R197-R202	5.6K OHM 1/4W 5% CRBN.
R203-R208	33K OHM 1/4W 5% CRBN.
R209-R211	13K OHM 1/4W 5% CRBN.
R213	27K OHM 1/4W 5% CRBN.
R214-R219	33K OHM 1/4W 5% CRBN.
R220-R222	13K OHM 1/4W 5% CRBN.
R224	27K OHM 1/4W 5% CRBN.
R225,R226	4.7K OHM 1/4W 5% CRBN.
R227	1K OHM 1/4W 5% CRBN.
R228	4.7K OHM 1/4W 5% CRBN.
R231	300 OHM 1/4W 5% CRBN.
R232	4.7K OHM 1/4W 5% CRBN.
R233	3K OHM 1/4W 5% CRBN.
R234,R235	4.7K OHM 1/4W 5% CRBN.
R239	100 OHM 1/4W 5% CRBN.
R301-R306	2.7K OHM 1/4W 5% CRBN.
R401	1K OHM 1/4W 5% CRBN.
R402	4.7K OHM 1/4W 5% CRBN.
R403,R404	33K OHM 1/4W 5% CRBN.
R405-R407	4.7K OHM 1/4W 5% CRBN.
R501-R509	220 OHM 1/4W 5% CRBN.
R510	2.7K OHM 1/4W 5% CRBN.
RM1	4.7K OHM 10 PIN S.I.P.
RM2-RM5	2.7K OHM 10 PIN S.I.P.
RM7	4.7K OHM 8 PIN S.I.P.
RM8	820 OHM 8 PIN S.I.P.
RM9	1.8K OHM 10 PIN S.I.P.
RM14	4.7K OHM 10 PIN S.I.P.

DESIGNATION NO.	DESCRIPTION
D101-D103	1N4148
D105-D107	1N4148
Q101-Q103	T1P110
Q104	2N4403
ICA1	7406
ICA3,A4	74LS273
ICA5	74LS374
ICA6	1K X 8 RAM
ICA7	ROM/EPROM 0
ICA8	ROM/EPROM 1
ICA9	ROM/EPROM 2
IC10	ROM/EPROM 3
ICA11	74LS245
ICA12	Z-80 CPU
ICA13	74LS08
ICB2,B4,B5	74LS244
ICB7,B8	74LS138
ICB9	74LS670
ICB10	74LS32
ICB11	74LS670
ICB12,B13	74LS138
ICB14	74LS174
ICC6	7407
ICC10	MC3403
ICC11	74LS04
ICC12	MC14024
ICC13	7427
ICC14	74LS367
ICD3	LM3900
ICD6	74LS02
ICD7-D9	MC14016
ICD11	74190
ICD12	PROMSB2A
ICD13	74166
ICE2	74LS244
ICE10	MC3403
ICE11	74161
ICE12	74126
ICF2	74LS244
ICF3-F5	74LS191
ICF6,F7	AY-3-8910
ICF8-F10	74LS191
ICF11	7474
ICF12	74S04
ICSA6-ICSA10	24 PIN IC SOCKET
ICSA12	40 PIN IC SOCKET
ICSD12	16 PIN IC SOCKET
ICSF6,F7	40 PIN IC SOCKET
J1,J2	24 PIN KK100 RT. ANGLE
J3	9 PIN KK100 RT. ANGLE OMIT 4
J4	19 PIN KK100 RT. ANGLE OMIT 14
J5	23 PIN KK100 RT. ANGLE OMIT 19
J6	10 PIN KK100 RT. ANGLE OMIT 8
JW1,JW2	JUMPER WIRE
LED 3	YELLOW LED
SW1	10 POSITION DIP
SW3	8 POSITION DIP
SW4	PUSHBUTTON S.W.
XTAL 1	16 MHZ XTAL
MHQ101-MHQ103	SNAP
A080-90913-F000	SUPER SND. I/O BD.



DESCRIPTION
33 PF 50V 5% AX. CER.
47 PF 50V AX. CER.
100 PF 50V 5% AX. CER.
330 PF 50V AX. CER.
.0022 MF 100V 10% MYLAR
.047 MF 100V MYLAR
.01 MF 50V AX. CER.
.1 MF 50V AX. CER.
1 MF 20V AX. TANT.
10 MF 25V AX. TANT.
470 MF 16V AX. ELECT.
22 OHM 1/4W 5% CRBN.
100 OHM 1/4W 5% CRBN.
220 OHM 1/4W 5% CRBN.
300 OHM 1/4W 5% CRBN.
330 OHM 1/4W 5% CRBN.
1K OHM 1/4W 5% CRBN.
1.2K OHM 1/4W 5% CRBN.
2.7K OHM 1/4W 5% CRBN.
3K OHM 1/4W 5% CRBN.
4.7K OHM 1/4W 5% CRBN.
5.6K OHM 1/4W 5% CRBN.
10K OHM 1/4W 5% CRBN.
13K OHM 1/4W 5% CRBN.
24K OHM 1/4W 5% CRBN.
27K OHM 1/4W 5% CRBN.
33K OHM 1/4W 5% CRBN.
100K OHM 1/4W 5% CRBN.
180K OHM 1/4W 5% CRBN.
620K OHM 1/4W 5% CRBN.
1 MEG. OHM 1/4W 5% CRBN.
820 OHM 8 PIN S.I.P.
1.8K OHM 10 PIN S.I.P.
2.7K OHM 10 PIN S.I.P.
4.7K OHM 8 PIN S.I.P.
4.7K OHM 10 PIN S.I.P.

ON

M
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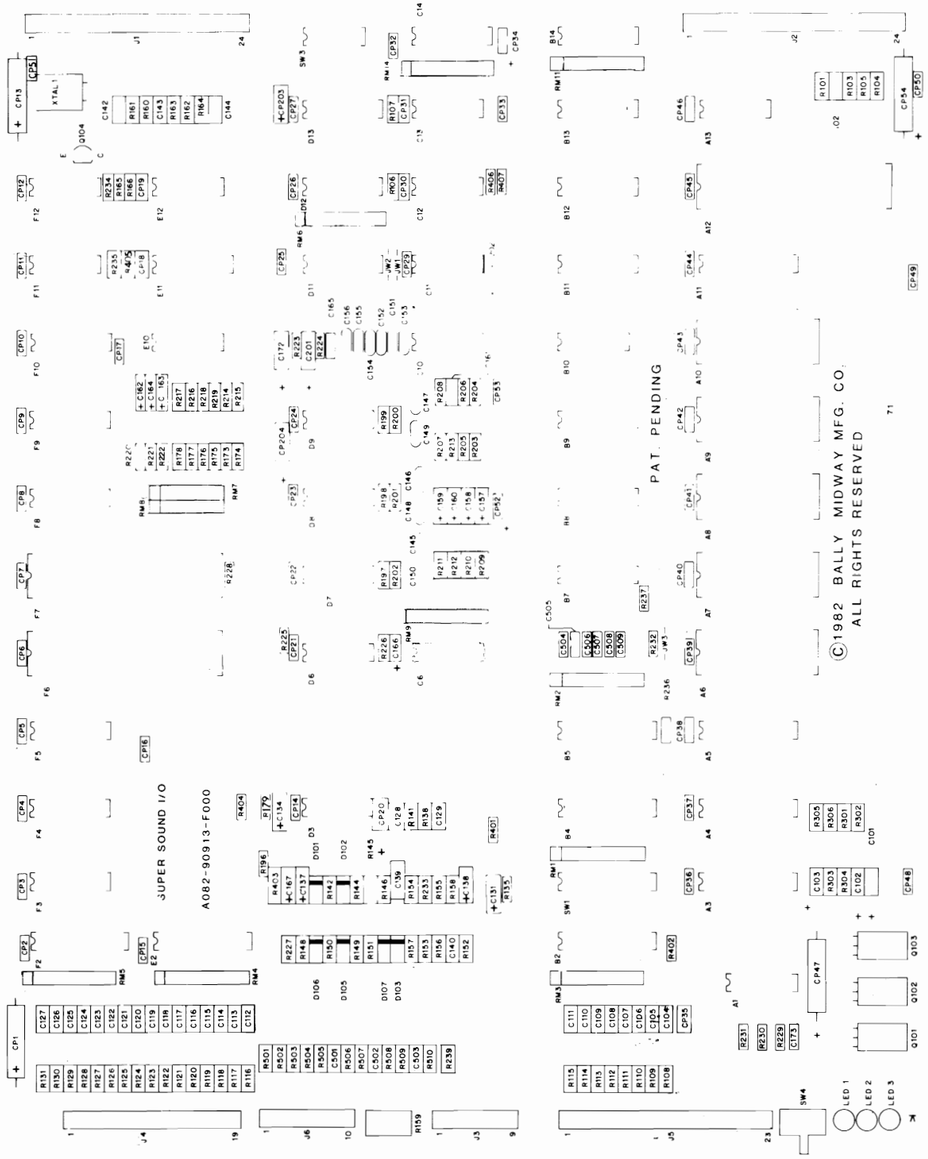


CROSS REFERENCE LIST

DESCRIPTION	QTY	DESIGNATION NO.	PART NOS.
33 PF 50V 5% AX. CER.	1	C144	0986-00800-0900
47 PF 50V AX. CER.	1	C128	0986-00800-2800
100 PF 50V 5% AX. CER.	1	C142	0986-00800-1000
330 PF 50V AX. CER.	2	C161,C165	0986-00800-1300
.0022 MF 100V 10% MYLAR	12	C145-C156	0986-00800-1200
.047 MF 100V MYLAR	1	C139	0986-00800-2600
.01 MF 50V AX. CER.	47	CP2-CP12,CP14-CP19,CP21-CP27,CP29-CP33,CP35-CP46,CP48-CP51,C140,C173	0986-00800-2000
.1 MF 50V AX. CER.	34	C104-C127,C143,C501-C509	0986-00800-1100
1 MF 20V AX. TANT.	8	C134,C137,C157-C159,C162-C164	0986-00800-1400
10 MF 25V AX. TANT.	14	CP20,CP34,CP52,CP53,CP202-CP204,C101-C103,C131,C138,C166,C167,C172	0986-00800-0700
470 MF 16V AX. ELECT.	4	CP1,CP13,CP47,CP54	0986-00800-2700
22 OHM 1/4W 5% CRBN.	1	R164	0062-063B3-1XXX
100 OHM 1/4W 5% CRBN.	1	R239	0062-110B3-1XXX
220 OHM 1/4W 5% CRBN.	34	R108-R131,R162,R501-R509	0062-133B3-1XXX
300 OHM 1/4W 5% CRBN.	1	R231	0062-141B3-1XXX
330 OHM 1/4W 5% CRBN.	2	R160,R161	0062-144B3-1XXX
1K OHM 1/4W 5% CRBN.	3	R153,R227,R401	0062-179B3-1XXX
1.2K OHM 1/4W 5% CRBN.	3	R157,R158,R163	0062-183B3-1XXX
2.7K OHM 1/4W 5% CRBN.	7	R301-R306,R510	0062-199B3-1XXX
3K OHM 1/4W 5% CRBN.	1	R233	0062-201B3-1XXX
4.7K OHM 1/4W 5% CRBN.	19	R101-R107,R165,R166,R225,R226,R228,R232,R234,R235,R402,R405-R407	0062-211B3-1XXX
5.6K OHM 1/4W 5% CRBN.	12	R173-R178,R197-R202	0062-215B3-1XXX
10K OHM 1/4W 5% CRBN.	4	R146,R151,R155,R156	0062-227B3-1XXX
13K OHM 1/4W 5% CRBN.	6	R209-R211,R220-R222	0062-233B3-1XXX
24K OHM 1/4W 5% CRBN.	2	R179,R196	0062-245B3-1XXX
27K OHM 1/4W 5% CRBN.	2	R213,R224	0062-247B3-1XXX
33K OHM 1/4W 5% CRBN.	15	R135,R203-R208,R214-R219,R403,R404	0062-251B3-1XXX
100K OHM 1/4W 5% CRBN.	2	R142,R148	0062-275B3-1XXX
180K OHM 1/4W 5% CRBN.	2	R138,R141	0062-287B3-1XXX
620K OHM 1/4W 5% CRBN.	4	R144,R145,R149,R150	0062-313B3-1XXX
1 MEG. OHM 1/4W 5% CRBN.	2	R152,R154	0062-323B3-1XXX
820 OHM 8 PIN S.I.P.	1	RM8	0986-00805-0800
1.8K OHM 10 PIN S.I.P.	1	RM9	0986-00805-0600
2.7K OHM 10 PIN S.I.P.	4	RM2-RM5	0986-00805-0500
4.7K OHM 8 PIN S.I.P.	1	RM7	0986-00805-0400
4.7K OHM 10 PIN S.I.P.	2	RM1,RM14	0986-00805-0300
1N4148	6	D101-D103,D105-D107	0986-00801-0200
2N4403	1	Q104	0986-00802-0500
T1P110	3	Q101-Q103	0986-00802-0400
74LS02	1	ICD6	0986-00803-7400
74LS04	1	ICC11	0986-00803-6900
74S04	1	ICF12	0986-00803-6600
7406	1	ICA1	0986-00803-7600
7407	1	ICC6	0986-00803-5900
74LS08	1	ICA13	0986-00803-7300
7427	1	ICC13	0986-00803-7200
74LS32	1	ICB10	0986-00803-6100
7474	1	ICF11	0986-00803-6700
74126	1	ICE12	0986-00803-6800
74LS138	4	ICB7,B8,B12,B13	0986-00803-6500
74161	1	ICE11	0986-00803-5100
74166	1	ICD13	0986-00803-5300
74LS174	1	ICB14	0986-00803-7500
74190	1	ICD11	0986-00803-9400
74LS191	6	ICF3-F5,F8-F10	0986-00803-5600
74LS244	5	ICB2,B4,B5 E2,F2	0986-00803-4800
74LS245	1	ICA11	0986-00803-6400
74LS273	2	ICA3,A4	0986-00803-4700
74LS367	1	ICC14	0986-00803-7000
74LS374	1	ICA5	0986-00803-4600
74LS670	2	ICB9,B11	0986-00803-6300
AY-3-8910	2	ICF6,F7	0986-00803-8500
LM3900	1	ICD3	0986-00803-4900
MC3403	2	ICC10,E10	0986-00803-5000
MC14016	3	ICD7-D9	0986-00803-6200
MC14024	1	ICC12	0986-00803-7100
PROMSB2-A	1	ICD12	0986-00803-8200
RAM 1K X 8	1	ICA6	0986-00803-8000
ROM/EPROM 0	1	ICA7	
ROM/EPROM 1	1	ICA8 EPROM/	
ROM/EPROM 2	1	ICA9 OPTIONS KIT	0358-00803-0005
ROM/EPROM 3	1	ICA10	
Z-80(3880)	1	ICA12	0986-00803-5500
16 PIN IC SOCKET	1	ICSD12	0986-00804-1400
24 PIN IC SOCKET	5	ICSA6-ICSA10	0986-00804-1600
40 PIN IC SOCKET	3	ICSA12,ICSF6,ICSF7	0986-00804-1500
9 PIN KK 100 RT. ANGLE OMIT 4	1	J3	3000-16366-0901
10 PIN KK 100 RT. ANGLE OMIT 8	1	J6	3000-16366-1001
19 PIN KK 100 RT. ANGLE OMIT 14	1	J4	3000-16366-1901
23 PIN KK 100 RT. ANGLE OMIT 19	1	J5	3000-16366-2301
24 PIN KK 100 RT. ANGLE	2	J1,J2	0986-00804-4700
JUMPER WIRE	2	JW1,JW2	0986-00804-4000
YELLOW LED	1	LED 3	0986-00804-2000
8 POSITION DIP SW.	1	SW3	0986-00805-0900
10 POSITION DIP SW.	1	SW1	0986-00805-1000
PB SWITCH	1	SW4	0986-00804-1700
16 MHZ XTAL W/3RD LEAD	1	XTAL 1	0986-00805-1100
SNAPS	3	MHQ101-MHQ103	0017-00007-0134
SUPER SND. I/O BD.	1		A080-90913-F000

REVISIONS

PROJECT ENG: C. MEDNICK			USED ON JOURNEY	Bally / MIDWAY MFG. CO. FRANKLIN PK. ILL
DO NOT SCALE DWG.	HEAT TREAT	SCALE FULL	NO. REQ'D 1 PER	
DIM. TOLERANCES UNLESS SPECIFIED	DRN. TBB	MAT'L	SUPER SOUND I/O BD. ASSEMBLY DWG. A082-90913-F000	PART NO. M051-00358-A012
	CKD.	FINISH		
	DATE 05/05/83			

S ADD BUSS

S DATA BUSS

Bv ADD BUSS

Bv DATA BUSS

A12 280

A7 ROM 0

A8 ROM 1

A9 ROM 2

A10 ROM 3

A6 RAM

B9 74LS670

B11 74LS670

A5 74LS374

B14 74LS174

A1 7406

LED (YELLOW)

RESET SW

*RESET

2MHz

SBUSREQ

SWAIT

SINT

SNMI

STORQ

SHALT

SBUSACK

SRD

SWR

SMREQ

SRFSH

SAO

SA1

SA2

SA3

SA4

SA5

SA6

SA7

SA8

SA9

SA10

SA11

BSAO

BSA1

BSA2

BSA3

BSA4

BSA5

BSA6

BSA7

BSA8

BSA9

BSA10

BSD0

BSD1

BSD2

BSD3

BSD4

BSD5

BSD6

BSD7

BvAO

BvA1

BvA2

BvA3

BvA4

BvA5

BvA6

BvA7

BvD0

BvD1

BvD2

BvD3

BvD4

BvD5

BvD6

BvD7

BvRD

BvIORQ

BvWR

WRAM

RRAM

PRAM

*RAM

*RRAM

*TLED

*WSTAT

*RSTAT

IPO

IP1

IP2

IP3

IP4

IP5

IP6

IP7

CLKCNT

CLKCTL

SPEECH

6VDEC

+12V DEC

OPTIONAL

NOT CONNECTED

J3

9 L AUDIO

8 L SHIELD

7 R AUDIO

6 R SHIELD

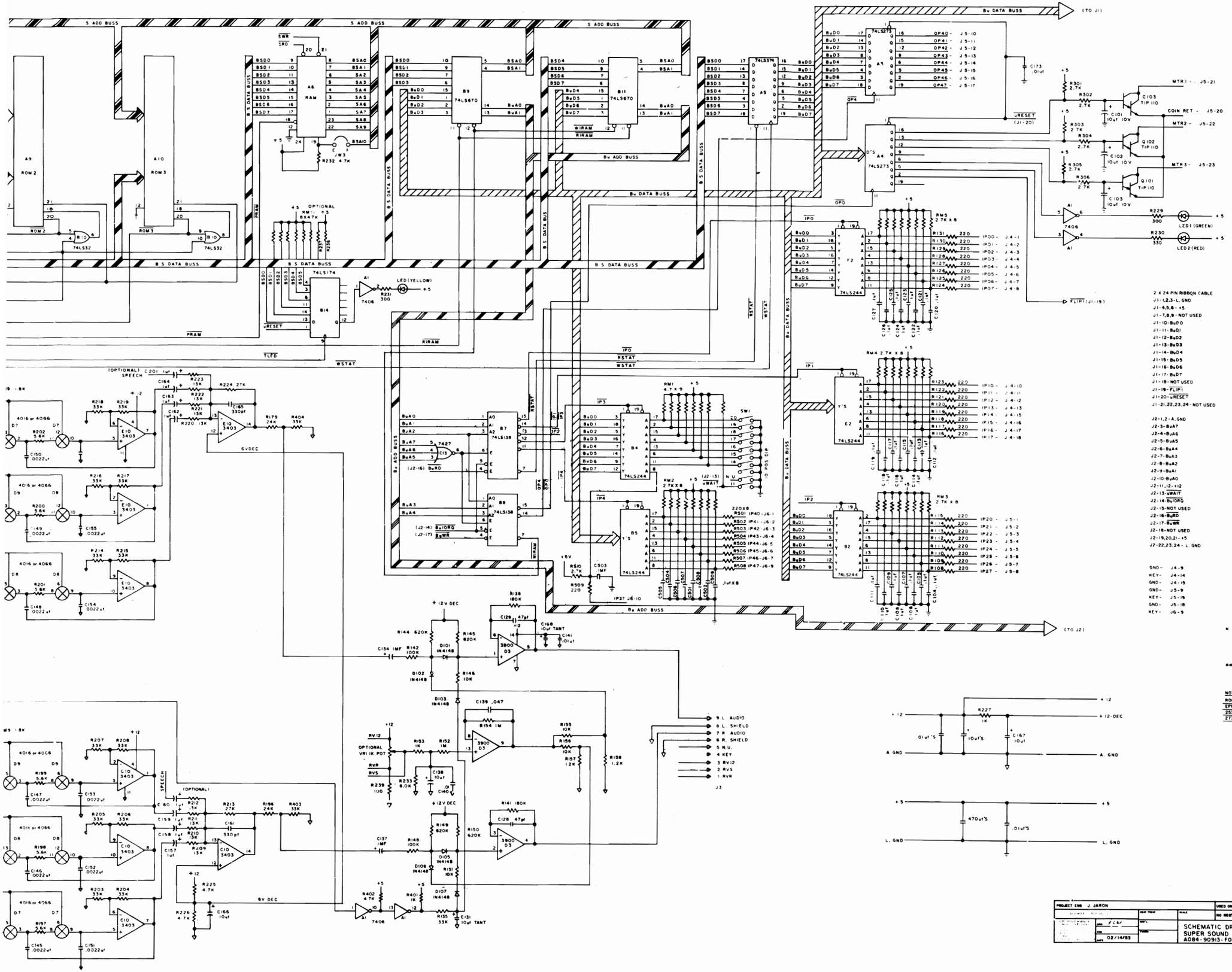
5 N.U.

4 KEY

3 RV12

2 RVS

1 RVR



2 X 24 PIN RIBBON CABLE
J1-1,2,3- L. GND
J1-4,5,6- +5
J1-7,8,9- NOT USED
J1-10- BuD0
J1-11- BuD1
J1-12- BuD2
J1-13- BuD3
J1-14- BuD4
J1-15- BuD5
J1-16- BuD6
J1-17- BuD7
J1-18- NOT USED
J1-19- FLIPT
J1-20- RESET
J1-21,22,23,24 - NOT USED
J2-1,2 - A. GND
J2-3- BuA7
J2-4- BuA6
J2-5- BuA5
J2-6- BuA4
J2-7- BuA3
J2-8- BuA2
J2-9- BuA1
J2-10- BuA0
J2-11,12- +12
J2-13- WAIT
J2-14- BuIORQ
J2-15- NOT USED
J2-16- BuRD
J2-17- BuWR
J2-18- NOT USED
J2-19,20,21- +5
J2-22,23,24 - L. GND
GND - J4-9
KEY - J4-14
GND - J4-19
GND - J5-9
KEY - J5-19
GND - J5-18
KEY - J6-9

72 PIN TEST CONN	
1 - L. GND	37 - SA4
2 - +5	38 - SA5
3 - L. GND	39 - SA6
4 - +5	40 - SA7
5 - +12	41 - SA8
6 - A GND	42 - SA9
7 - +12	43 - SA10
8 - NOT USED	44 - SA11
9 - BuD0	45 - SA12
10 - BuD1	46 - SA13
11 - BuD2	47 - SA14
12 - BuD3	48 - SA15
13 - BuD4	49 - SNMI
14 - BuD5	50 - SINT
15 - BuD6	51 - SM1
16 - BuD7	52 - SBUSACK
17 - SD0	53 - SMRD
18 - SD1	54 - SMWR
19 - SD2	55 - SRESET
20 - SD3	56 - TSTATE
21 - SD4	57 - CLKCTL
22 - SD5	58 - SRD
23 - SD6	59 - SWR
24 - SD7	60 - SIORQ
25 - BuA0	61 - SBUTORQ
26 - BuA1	62 - SMREQ
27 - BuA2	63 - SBUSREQ
28 - BuA3	64 - SRFSH
29 - BuA4	65 - L. GND
30 - BuA5	66 - SWAIT
31 - BuA6	67 - L. GND
32 - BuA7	68 - SHALT
33 - SA0	69 - NOT USED
34 - SA1	70 - +5
35 - SA2	71 - L. GND
36 - SA3	72 - +5

* USED ON VERSION W/PANNING
NOT USED ON VERSION W#/PANNING

** NOT USED ON VERSION W/PANNING
USED ON VERSION W#/PANNING

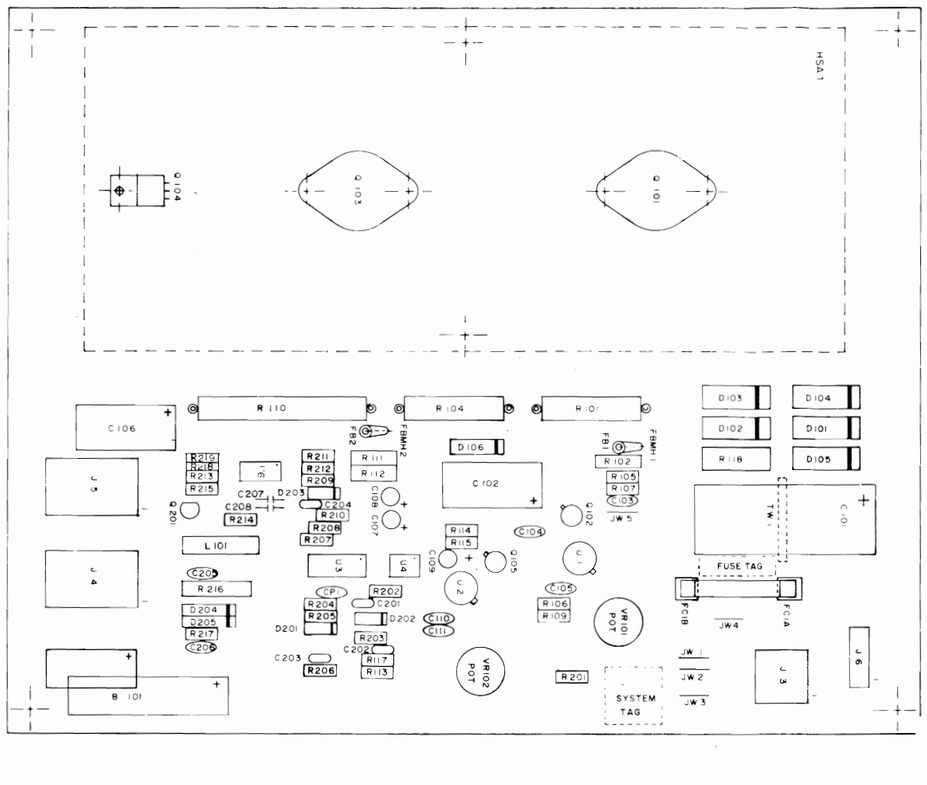
NOTE

ROM JUMPER OPTIONS		
EPROM/ROM	JW1	JW2
2532 COMPATABILITY		X
2732 COMPATABILITY	X	

PROJECT ENG J. JARON		USED ON WACKO	REVISIONS
		NO REQ'D 1 PER	Bally / MIDWAY MFG. CO. FRANKLIN PK. ILL.
DATE 1/26/83	SCALE	SCHEMATIC DRAWING SUPER SOUND I/O A084-90913-F000	PART NO M051-00986-F016
DATE 02/14/83			

DESIGNATION LIST

DESIGNATION *	DESCRIPTION
R117	560ohm 1/4W 5%
R118	150ohm 2W
R201	270ohm 1/4W 5%
R202	1.2K 1/4W 5%
R203	1.1M 1/4W 5%
R204	3.3M 1/4W 5%
R205	10M 1/4W 5%
R206	100K 1/4W 5%
R207	33K 1/4W 5%
R208	2M 1/4W 5%
R209	1M 1/4W 5%
R210	1.2M 1/4W 5%
R211	75K 1/4W 5%
R212	75K 1/4W 5%
R213	220K 1/4W 5%
R214	3.9K 1/4W 5%
R215	1.2K 1/4W 5%
R216	82ohm 1W 10%
R217	270ohm 1/4W 5%
R218	110K 1/4W 5%
R219	68ohm 1/2W 5%
VR101,102	100ohm POT
D101	A15F
D102	A15F
D103	A15F
D104	A15F
D105	A15F
D106	1N4001
D201	1N4148
D202	1N4148
D203	1N4148
D204	1N4001
D205	1N4001
Q102	2N2905
Q105	2N2905
Q201	2N4401
U1	LM305 REG
U2	LM305 REG
U3	LM3900
U4	4N28
U6	555
L101	22uH INDUCTOR
B101	BATTERY 3.6VDC 60DEG C
F1	3.8A S BLO FUSE
FC1A,1B	FUSE CLIP
FB1,2	FERRITE BEAD
TW1	TIE WRAP
J3	9PIN P.C. MOUNT CONN.(MALE)
J4	15PIN P.C. MOUNT CONN.(FEMALE)
J5	15PIN P.C. MOUNT CONN.(MALE)
J6	3PIN P.C. MOUNT CONN.(MALE)
LB1	FUSE TAG
LB2	SYSTEM TAG
HSA1	HEAT SINK ASS'Y 1
MHHSA1	MOUNTING HARD WARE(HEAT SINK)
	2 SCREW
	4 WASHER
	2 HEXNUT
JW1-5	JUMPER WIRE
FBMH1,2	FERRITE BEAD MOUNTING HARDWARE



PROJ. ENG: L. DEKKER				MIDWAY MFG. CO.
DO NOT SCALE DWG.		FULL	NO REQ'D 1 PER.	FRANKLIN PK., ILL.
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE	SHL 5/14/82	MATL	ASSEMBLY DRAWING 125VA PWRSPY.	PART NO. M051-00945-D006
			A082-90412-D000	

CROSS REFFERENCE LIST

DESCRIPTION	Q'ty	DESIGNATION *	PART *
47pf AX. CER.	1	C105	0945-00811-0100
820pf AX. CER.	1	C205	0945-00816-0400
.01uf AX. CER.	2	C206,208	0945-00816-0100
.01uf MYLAR	2	C201,203	0945-00816-0200
.033uf MYLAR	1	C202	0945-00816-0500
.047uf MYLAR	1	C204	0945-00816-0300
0.082uf AX.CER	1	C207	0945-00816-1900
.1uf AX. CER	5	C103,104,110,111, CP1	0945-00811-0200
1uf RAD. TANT.	1	C108	0945-00811-0300
4.7uf RAD. TANT.	1	C109	0945-00811-0400
100uf RAD. TANT.	1	C107	0945-00811-0500
470uf AX. ELECT.	2	C102,106	0945-00816-0600
470Cuf AX. ELECT.	1	C101	0945-00811-0700
16ohm 15W 5%	1	R110	0945-00815-0100
18ohm 5W 5%	1	R101	0945-00815-0200
6.8ohm 1/2W 5%	1	R111	0062-047D3-1XXX
10ohm 5W 5%	1	R104	0945-00812-0100
27ohm 1/4W 5%	1	R105	**0062-068B3-1XXX**
47ohm 1/4W 5%	1	R114	0062-086B3-1XXX
68ohm 1/2W 5%	3	R102,112,219	0062-098D3-1XXX
82ohm 1W 10%	1	R216	0062-104F5 1XXX
150ohm 2W 5%	1	R118	0945-00812-0200
160ohm 1/4W 5%	1	R115	0062-124B3-1XXX
270ohm 1/4W 5%	3	R106,201,217	0062-138B3-1XXX
560ohm 1/4W 5%	1	R117	0062-162B3-1XXX
1K 1/4W 5%	1	R109	0062-179B3-1XXX
1.2K 1/4W 5%	3	R113,202,215	0062-183B3-1XXX
3.9K 1/4W 5%	1	R214	0062-207B3-1XXX
6.2K 1/4W 5%	1	R107	0062-217B3-1XXX
33K 1/4W 5%	1	R207	0062-251B3-1XXX
75K 1/4W 5%	2	R211,212	0062 269B3 1XXX
100K 1/4W 5%	1	R206	0062-275B3 1XXX
110K 1/4W 5%	1	R218	0062-277B3-1XXX
220K 1/4W 5%	1	R213	0062-291B3 1XXX
1M 1/4W 5%	1	R209	0062-323B3-1XXX
1.1M 1/4W 5%	1	R203	0062 325B3 1XXX
1.2M 1/4W 5%	1	R210	0062-327B3-1XXX
2M 1/4W 5%	1	R208	0062-337B3-1XXX
3.3M 1/4W 5%	1	R204	0062-347B3-1XXX
10M 1/4W 5%	1	R205	0062-371B3-1XXX
100ohm POT	2	VR101,102	0945-00814-0000
LM305 REG	2	U1,2	0945-00813-0100
555	1	U6	0929-00810-4500
LM3900	1	U3	0945-00813-0200
4N28	1	U4	0945-00813-0300
A15F RECTIFIER	5	D101-105	0945-00804-0200
1N4001	3	D106,204,205	0945-00804-0300
1N4148	3	D201-203	0945-00804-0500
2N2905	2	Q102,105	0945-00808-0300
2N4401	1	Q201	0945-00804-0400
BATTERY 3.6VDC 60DEG-C	1	B101	0017-00003-0377
FUSE 3/8A S-BLO	1	F1	0945-00808-0400
FUSE CLIP	2	FC1A,1B	0017-00003-0214
TIE WRAP	1	TW1	0945-00814-0300
FERRITE BEAD	2	FB1,2	0017-00009-0225
FERRITE MOUNTING HDW.	2	FBMH1,2	0017-00033-0139
22uH INDUCTOR	1	L101	0945-00814-0200
FUSE TAG	1		M051-00945-A004
SYSTEM TAG	1		M051-00945-A009
P.C.B.	1		**A080-90412-D000**
HEAT SINK ASS'Y	1	HSA1	A945-00008-0000
(SEE HS ASS'Y DRAWING "** NOTE")			
** 4-40X10 SLT RND	2	MH HSA 1A, 2A.	0017-00101-00727
** 4-40 HEX NUT	2	MH HSA 1E, 2E.	0017-00103-0002
** WSH 4-120-.250-018	4	MH HSA 1B, 1D	0017-00104-0071
		MH HSA 2B, 2D	
3PIN P.C. MOUNT CONN. (MALE)	1	J6	0017-00021-0443
9PIN P.C. MOUNT CONN.(MALE)	1	J3	0017-00021-0425
15PIN P.C. MOUNT CONN.(FEMALE)	1	J4	0017-00021-0441
15PIN P.C. MOUNT CONN.(MALE)	1	J5	0017-00021-0440
22AWG T&R BARE 2.5"	5	JW1-5	0151-00087-0000

MT 89 DOMESTIC
MT 90 EXPORT

A945-00002-0000
FILTER ASS'Y

FROM X-Y MONITOR XFMR OR ISOLATION XFMR

VOLTAGE & FUSE VALUE VARIES WITH APPLICATION

EARTH GND

OPTIONAL GND.

15V RED
R-Y
15V RED
8V GRN
YEL
8V GRN

J2-7 J2-4 J2-6 J2-9 J2-1 J2-2 J2-5 J2-3 J2-8

6AMP
D1 MR1120
R10 150 2W
5500OMF
D2 MR1120
10AMP
D3 MR1120
R19 47
100,000MF
D4 MR1120

J3-6 J3-9 J3-5 J3-4 J3-8 J3-7 J3-3 J3-2 J3-1 J6-1 J6-3 J6-2

F1 3/8 AMP SLO-BLO
D106 IN4001
JW2 JW3 JW4

Q101 2N3772
FE1 FERRITE BEAD
R101 0.18 5W
+12V / 4 AMP
C102 0.1MF
R102 68 1/2W
JW5
Q102 2N2905
U1 LM305
R104 10 5W
C104 0.1MF
R105 27
R106 270
R107 6.2K
C105 47PF
C102 470UF
VR101 100 POT
R109 1K
SENSE
COMMON
JW1

J4-12 LOGIC BRD
J4-11 VIDEO DRIVERS
J5-9 MISC
J5-6 -SENSE (12V)
J4-4 LOGIC BRD
J4-7 LOGIC BRD
J5-12 MISC

L101 0.22 JH
R216 82
D205 IN4001
D204 IN4001
C205 820 PF
+5V
R217 270
B101 3.6 V BAT.
C206 0.01MF

J4-1 V. BATT

≃8V
J5-1 COUNTER DRIVERS

Q103 2N3772
FERRITE BEAD FE2
R110 0.16 15W
+5V/7.5AMP
R111 6.8 1/2W
C108 1MF
Q104 TIP31
R112 68 1/2W
Q105 2N2905
U2 LM305
R114 47
R115 160
C107 100MF
C109 4.7MF
C110 0.1MF
C111 0.1MF
R113 1.2K
VR102 100 POT
C106 470MF
R117 560
R118 68Ω, 1/2W

J4-3 LOGIC BRD
J4-6 LOGIC BRD
J4-5 LOGIC BRD
J5-2 AUX. BRD
J5-4 MISC.
J4-9 LOGIC BRD
J4-8 LOGIC BRD
J4-10 LOGIC BRD
J5-5 AUX. BRD
J5-8 CONTROLS
J5-7 CONTROLS
J5-3 MISC
J4-2 -SENSE (5V)

J5-10 COUNTER RTN

UNREG. AUX. V
4AMP
D105
UNREG. FILTERED V
D101 D104 D102 D103
R118 150 1/2W D101-D105 A15F
C101 4700MF
RTN. AUX. V.

J5-14 CONTR. LAMPS
J5-13 AUDIO CKT.
J5-11 CONTR. LAMPS
J5-15 AUDIO CKT.

R204 3.3M
R205 10M
R202 1.2K
U4 4N28
R201 270
C201 0.01MF
D202 IN4148
R203 1.1M
U3 3900
D201 IN4148
C202 0.033MF

AC SYNCHRONIZATION
R218 110K
U4 555
J4-14 AC SYNCH
C207 .0082MF MYLAR
C208 0.01MF

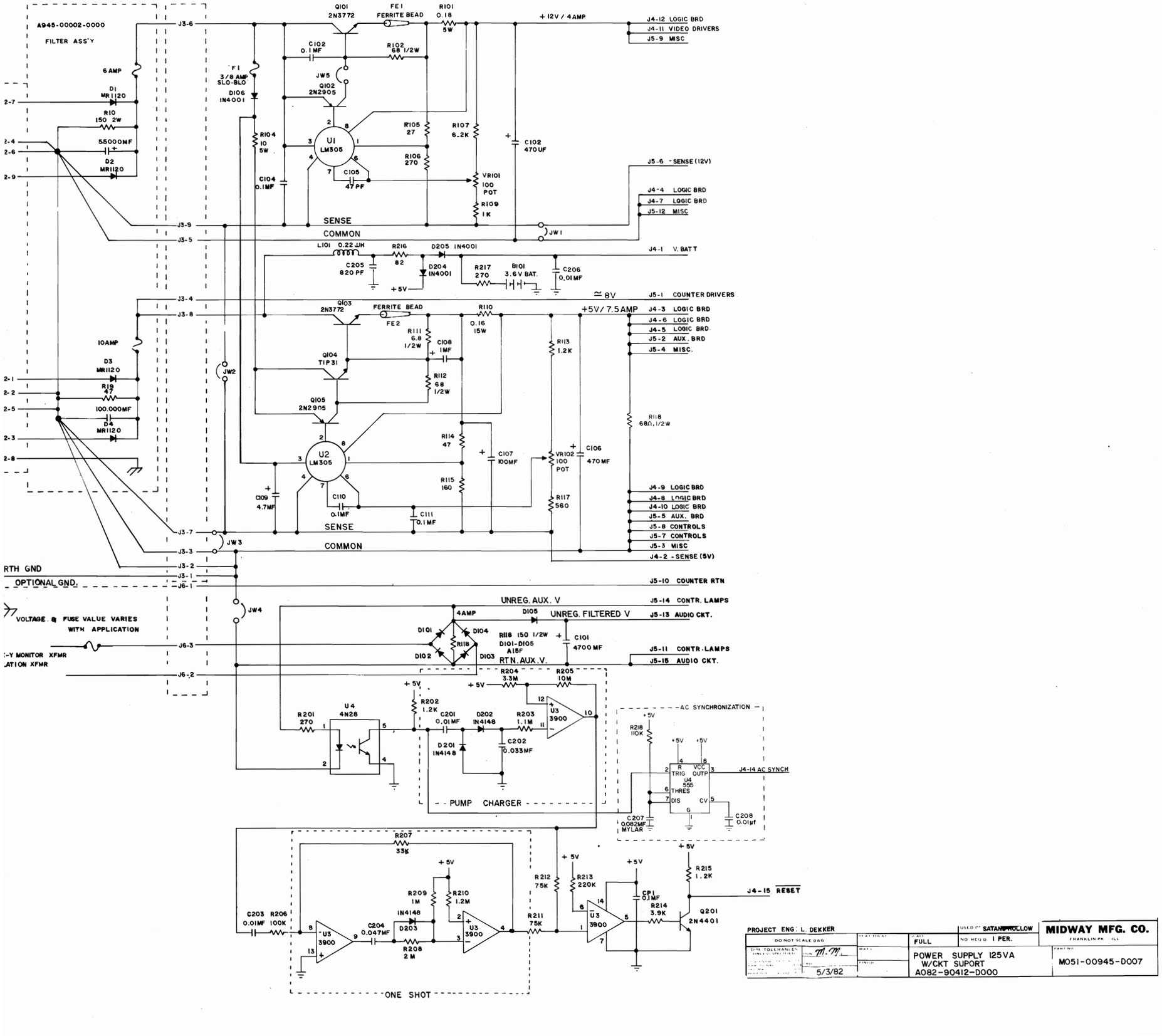
PUMP CHARGER

R207 33K
R209 1M
R210 1.2M
C203 R206 0.01MF 100K
C204 0.047MF
D203 IN4148
R208 2M
U3 3900
R212 75K
R213 220K
R211 75K
CP1 0.1MF
R214 3.9K
R215 1.2K
Q201 2N4401

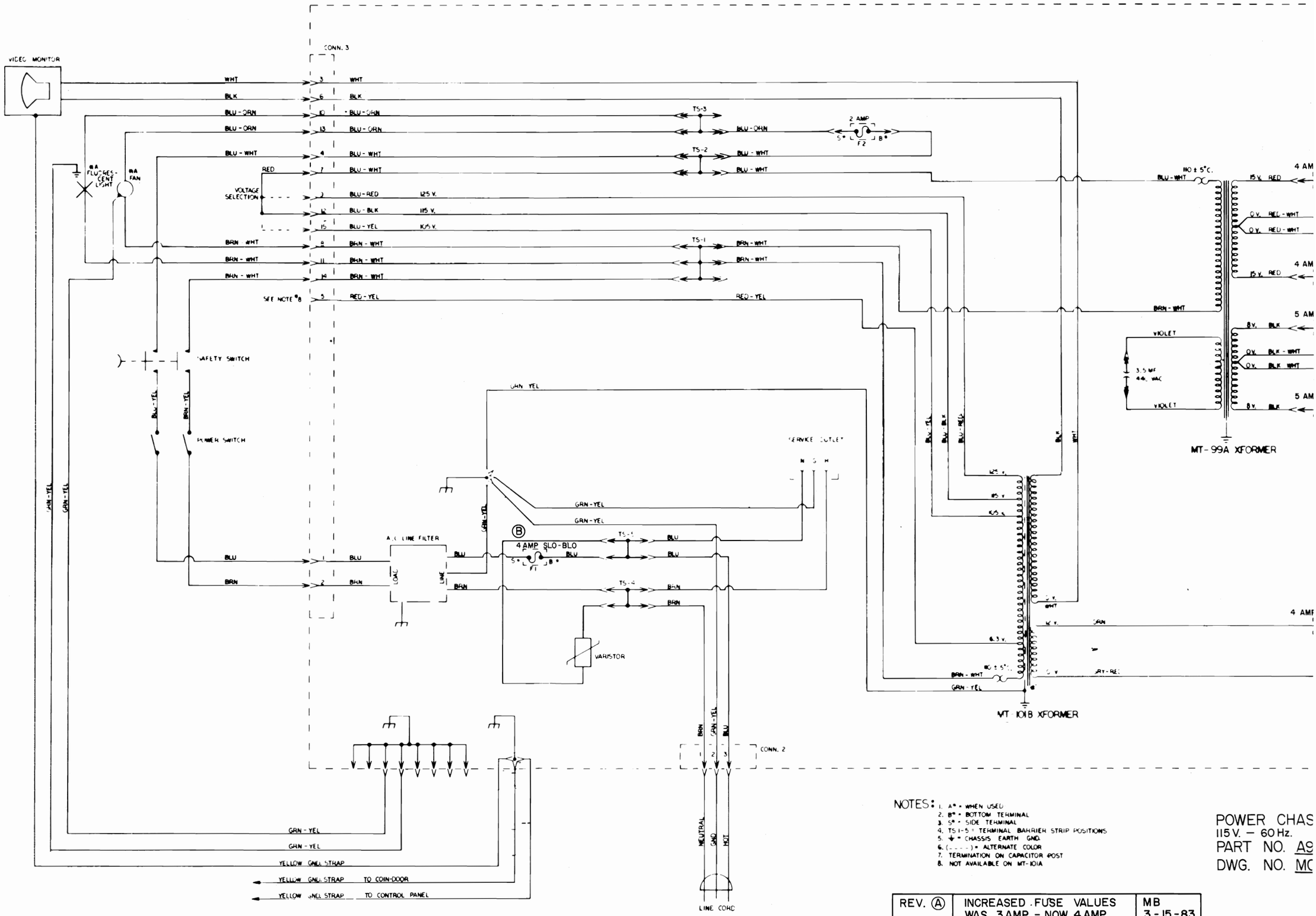
J4-15 RESET

ONE SHOT

PROJECT ENG: L. DI
DO NOT SCALE



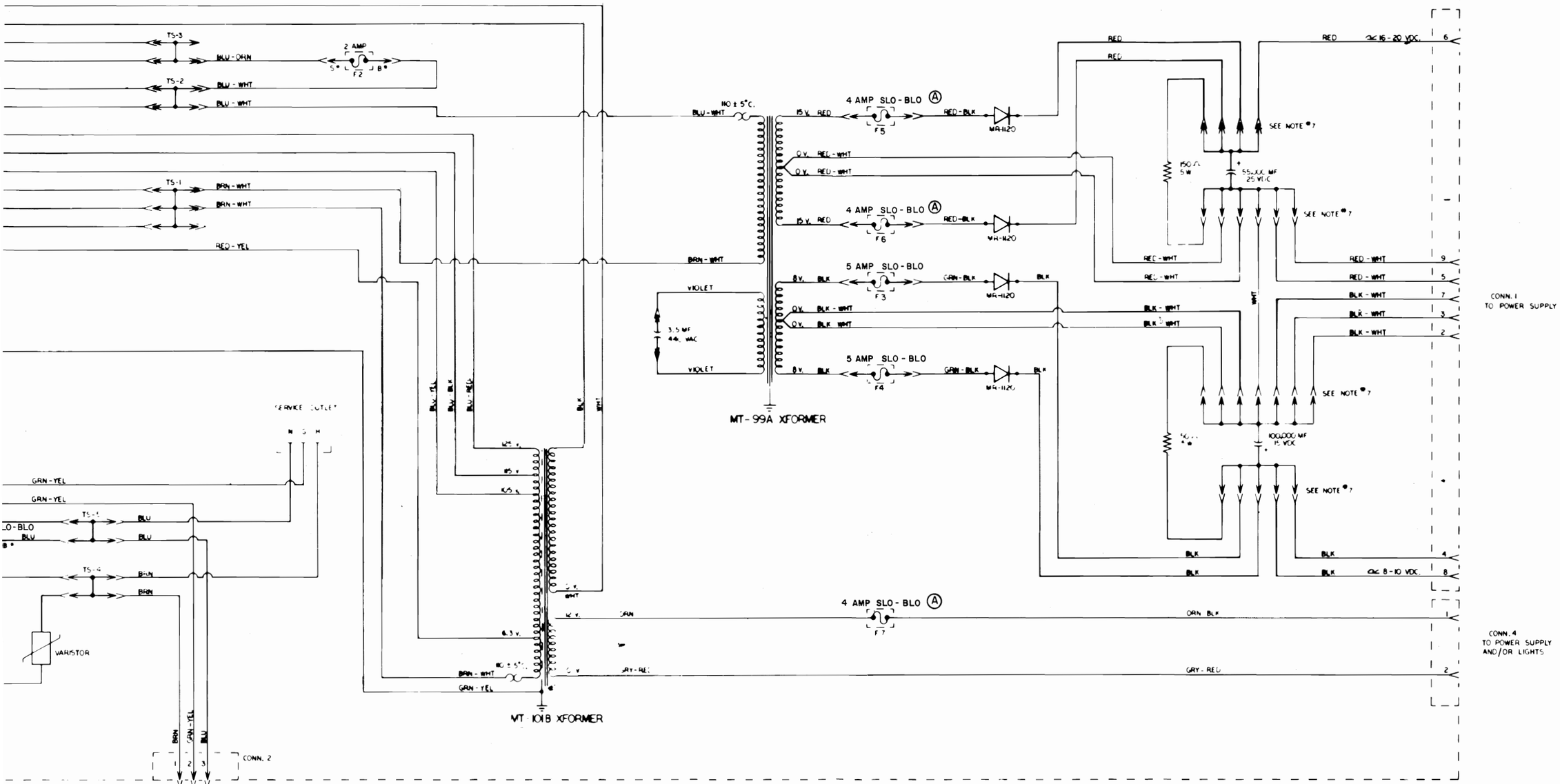
PROJECT ENG: L. DEKKER		USED ON: SATAN HOLLOW	MIDWAY MFG. CO. FRANKLIN PK ILL
DO NOT SCALE DWG	HEAT TREAT	FULL	NO REQ'D 1 PER.
DIM. TOLERANCES UNLESS OTHERWISE NOTED	DRAWN M.M.	MATL	POWER SUPPLY 125VA W/CKT SUPORT A082-90412-D000
	DATE 5/3/82	FINISH	PART NO M051-00945-D007



NOTES:
1. A* = WHEN USED
2. B* = BOTTOM TERMINAL
3. S* = SIDE TERMINAL
4. TS1-5* TERMINAL BARRIER STRIP POSITIONS
5. ⏚ = CHASSIS EARTH GND.
6. (- - - -) = ALTERNATE COLOR
7. TERMINATION ON CAPACITOR POST
8. NOT AVAILABLE ON MT-101A

POWER CHAS
115 V. – 60 Hz.
PART NO. AS
DWG. NO. MC

REV. Ⓐ	INCREASED FUSE VALUES WAS 3AMP - NOW 4AMP ADDED PART NO. (U.L.)	MB 3-15-83
REV. Ⓑ	INCREASED FUSE VALUE WAS 3AMP – NOW 4AMP	MB 3-24-83



NOTES:
1. A* = WHEN USED
2. B* = BOTTOM TERMINAL
3. S* = SIDE TERMINAL
4. TS1-5 = TERMINAL BARRIER STRIP POSITIONS
5. ⏚ = CHASSIS EARTH GND.
6. (- - - -)* ALTERNATE COLOR
7. TERMINATION ON CAPACITOR POST
8. NOT AVAILABLE ON MT-101A

REV. (A)	INCREASED FUSE VALUES WAS 3 AMP - NOW 4 AMP ADDED PART NO. (UL)	MB 3-15-83
REV. (B)	INCREASED FUSE VALUE WAS 3AMP — NOW 4 AMP	MB 3-24-83

POWER CHASSIS #125 VA
115 V. — 60 Hz.
PART NO. A945-00020-0000
DWG. NO. M051-00945-B037

BALLY / MIDWAY
10601 W. BELMONT AVE.
FRANKLIN PARK, IL. 60131

JOURNEY
OPTION SWITCH SETTINGS

SWITCH NO. 1 - AT B 3 - LOCATED ON SOUND I/O P.C. BOARD

DURING GAME PLAY:	SW#1	SW#2	SW#3	SW#4	SW#5	SW#6	SW#7	SW#8	SW#9	SW#10
				NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	
1 COIN METER	**ON**									
** 2 COIN METERS	**OFF**									
UPRIGHT/MINI			**ON**							
COCKTAIL TABLE			**OFF**							
** GAME **MAY BE** CONTINUED FOR ADDITIONAL COINS				**ON**						
GAME **MAY NOT BE CONTINUED**				**OFF**						
FREEZE VIDEO										ON
** NORMAL OPERATION										**OFF**

SWITCH NO. 3 - AT D 14 - LOCATED ON SOUND I/O P.C. BOARD

	SW#1	SW#2	SW#3	SW#4
** NORMAL OPERATION	**OFF**			
SOUND I/O DIAGNOSTIC MODE	**ON**			
** NORMAL OPERATION RAM/ROM TEST INDICATES TEST RESULTS VIA YELLOW LED ON SOUND I/O BOARD: **FAST FLASH** = **BAD ROM** **SLOW FLASH** = **BAD RAM**		**OFF** **ON**		
** NORMAL OPERATION			**OFF**	
OSCILLATOR TEST			**ON**	
** NORMAL OPERATION				**OFF**
FILTER TEST				**ON**

* NO EFFECT IF SW#1 OF SWITCH NO. 3 IS IN THE "OFF" POSITION.
** FACTORY RECOMMENDED SETTINGS.

PART NO.
M051-00358-A007

THE REMAINDER OF YOUR NEW GAME'S MOST COMMON OPTION SETTINGS ARE CONDUCTED DURING THE **MACHINE SETUP** PORTION OF THE SELF-TEST MODE AND WILL BE COVERED IN DETAIL IN THAT SECTION OF YOUR MANUAL.