



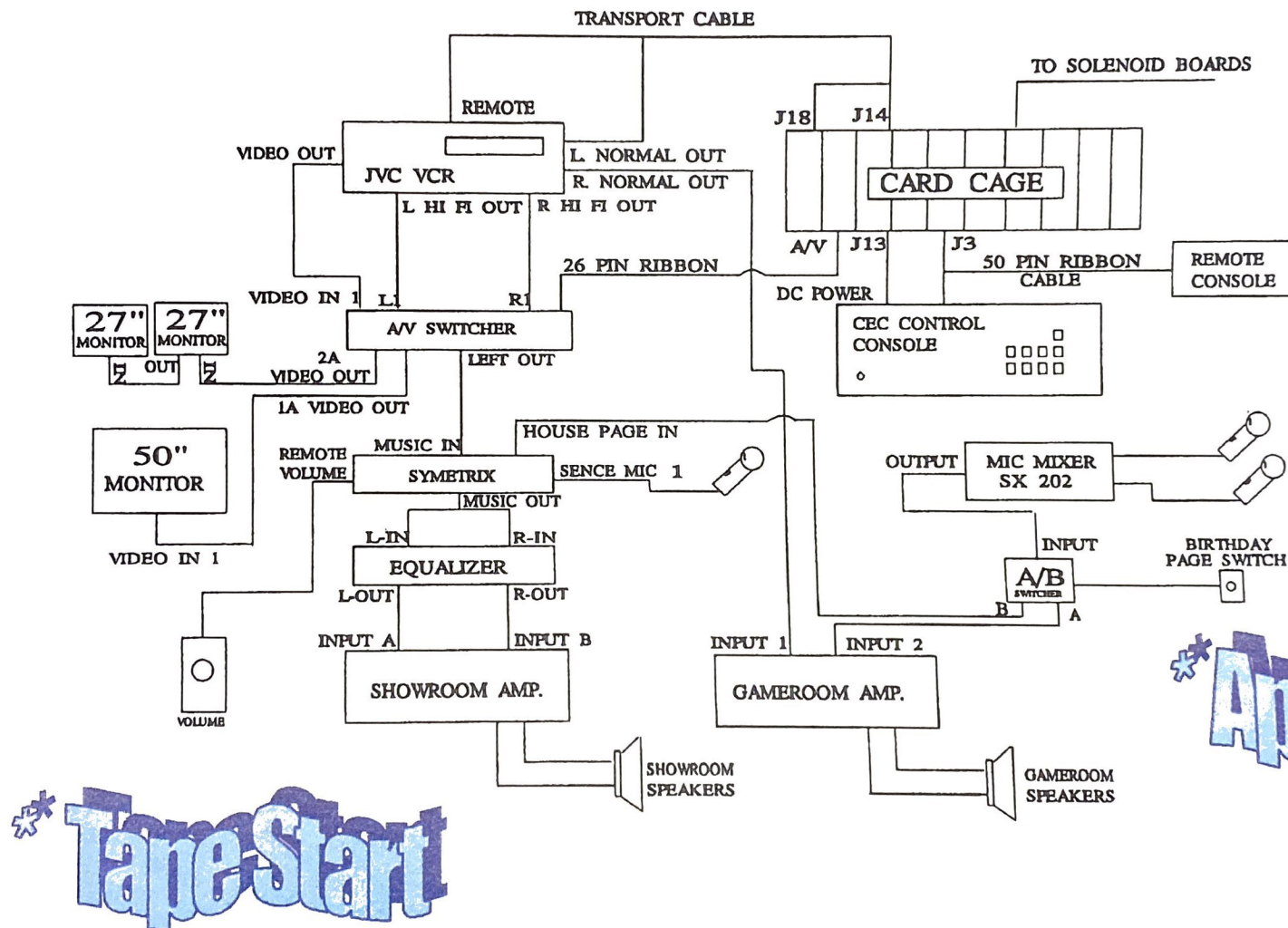
Understanding The
CHUCK E CHEESE
And
3-STAGE
Shows

Understanding
The
Chuck E Cheese
Show

Data

CEC SHOW LAYOUT

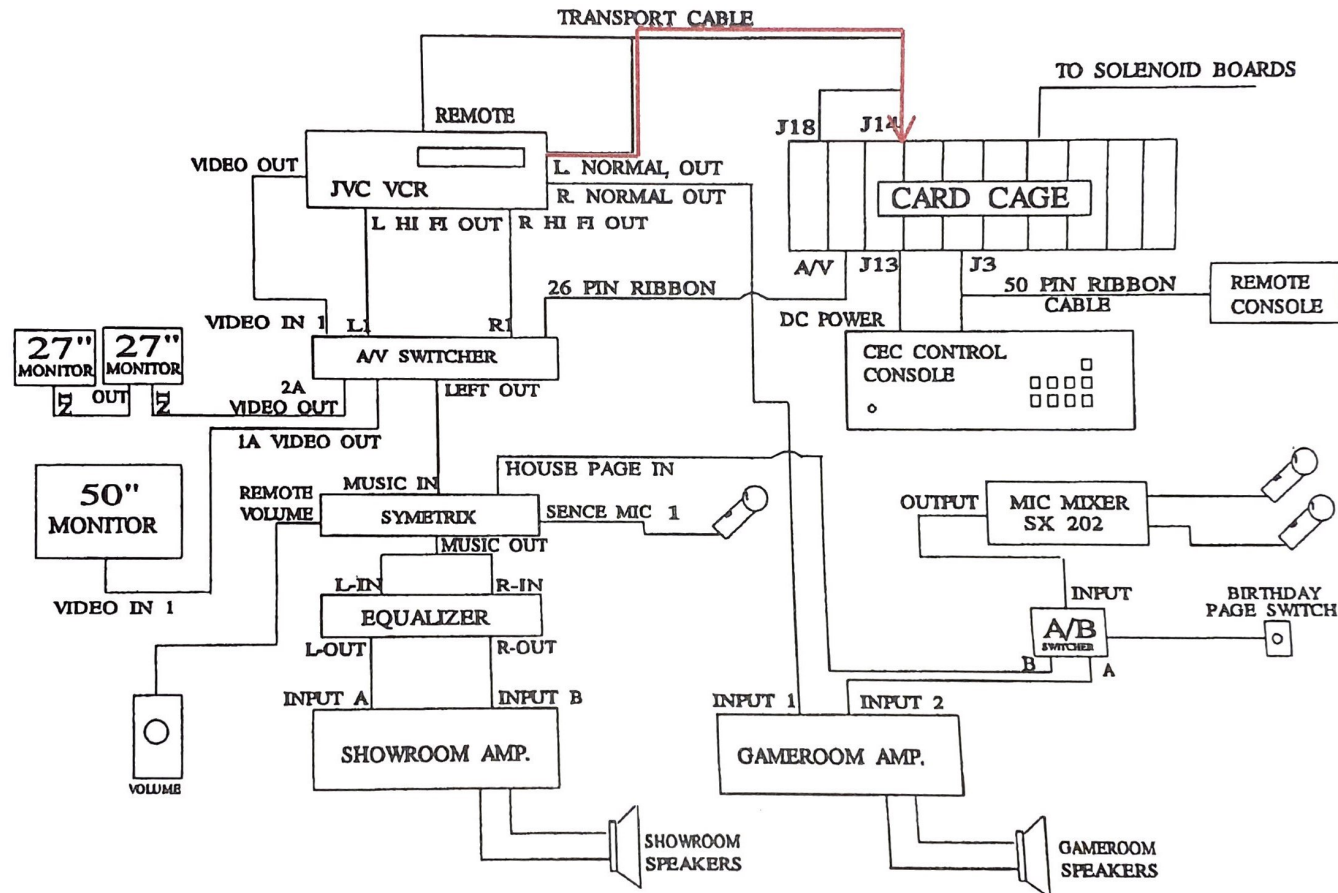
CEC ELECTRONICS



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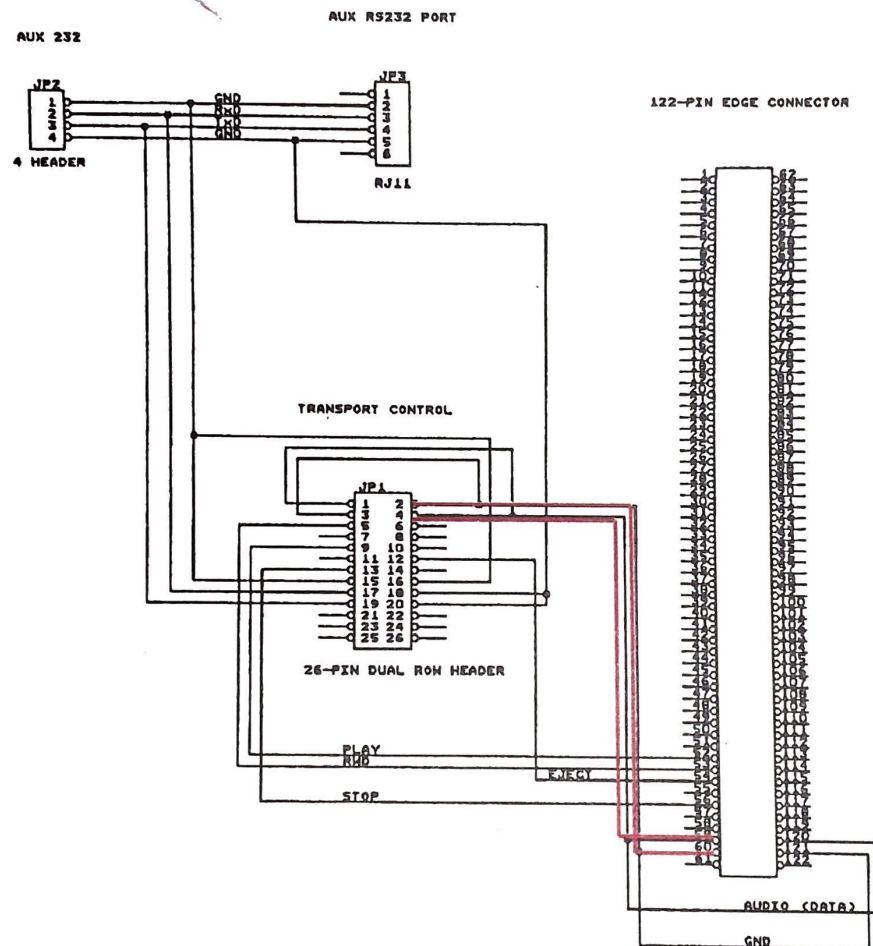
DRAWING 7-1

CEC SHOW LAYOUT



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[illegible]

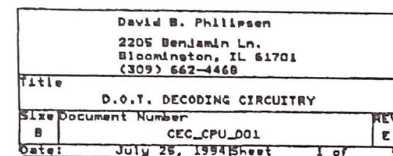


David B. Philipson	
2205 Benjamin Ln.	
Bloomington, IL 61701	
(309) 662-4468	
Title	
XPORT ADAPTER	
Size	Document Number
B	
Date:	October 4, 1993
Sheet	1 of

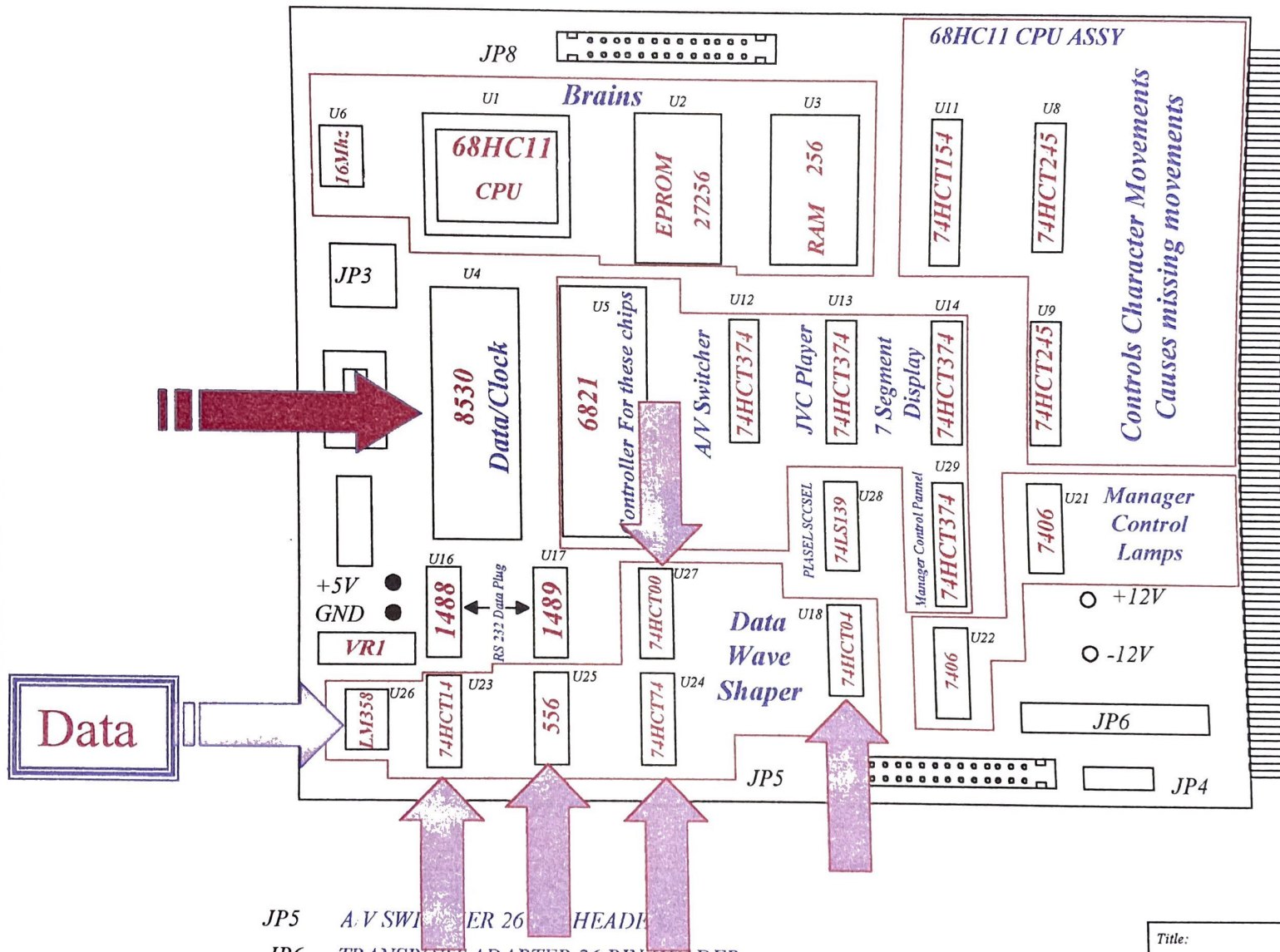
CONFIDENTIAL

DRAWING 7-18

~~Common Failure Modes~~

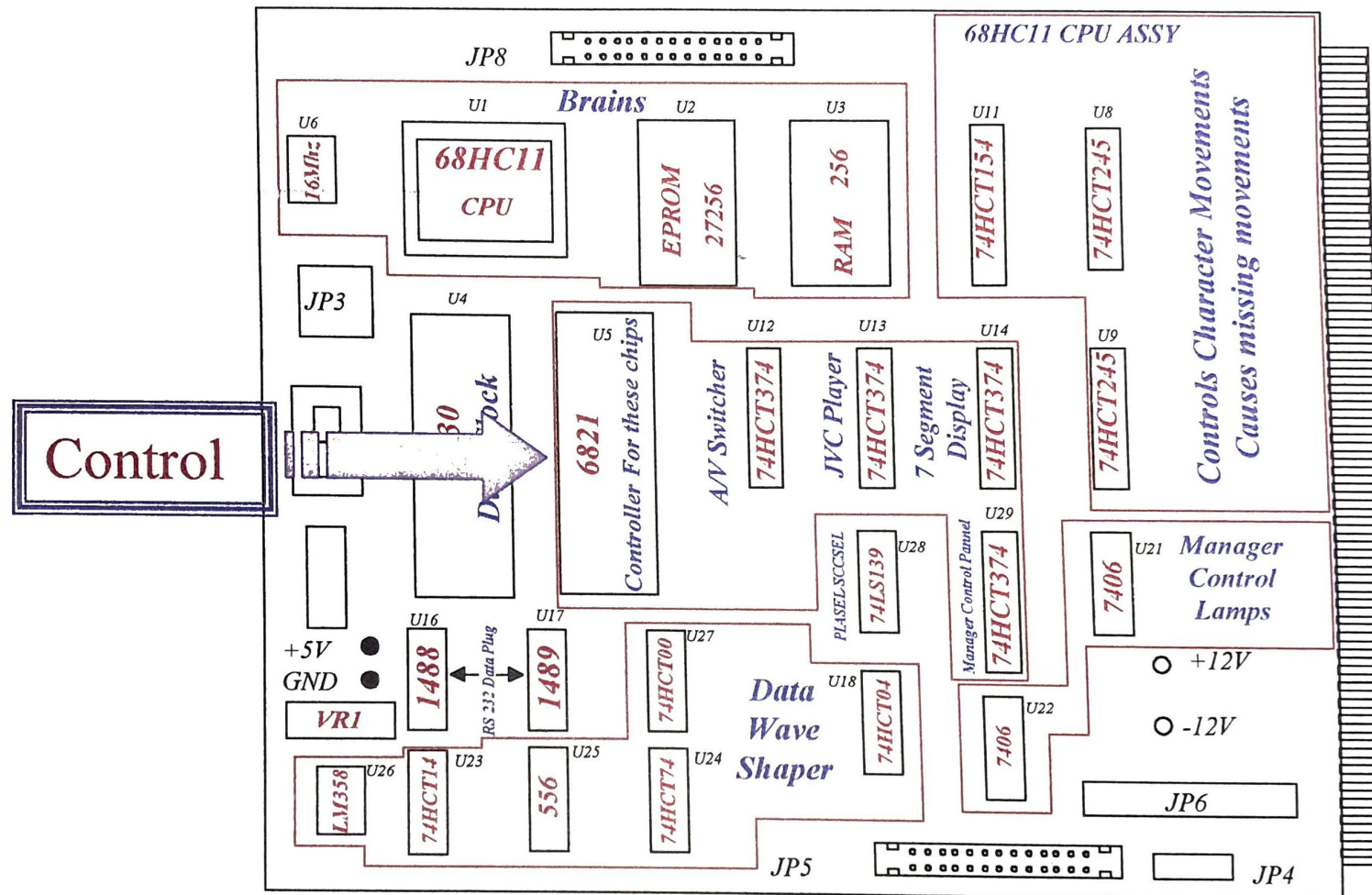


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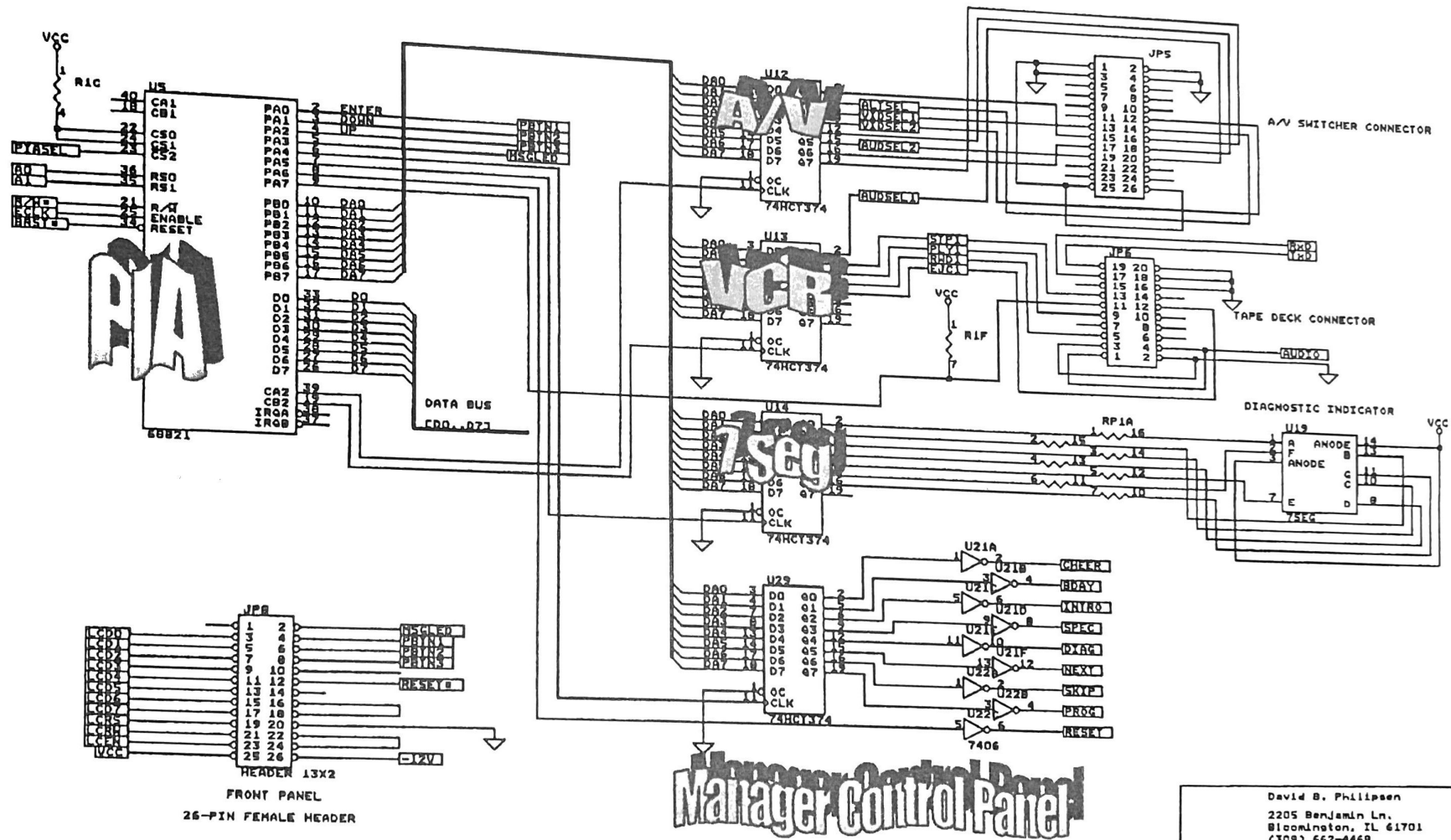
JP5 A/V SWITCHER 26 PIN HEADER
 JP6 TRANSPORT ADAPTER 26 PIN HEADER
 JP8 LCD DISPLAY 26 PIN HEADER

Title: 68HC11	Drawn by: Tim Snelling
Drawing Number: CEC9711	Date: 11-25-97



JP5 A/V SWITCHER 26 PIN HEADER
JP6 TRANSPORT ADAPTER 26 PIN HEADER
JP8 LCD DISPLAY 26 PIN HEADER

Title: 68HC11	Drawn by: Tim Snelling
Drawing Number: CEC9711	Date: 11-25-97



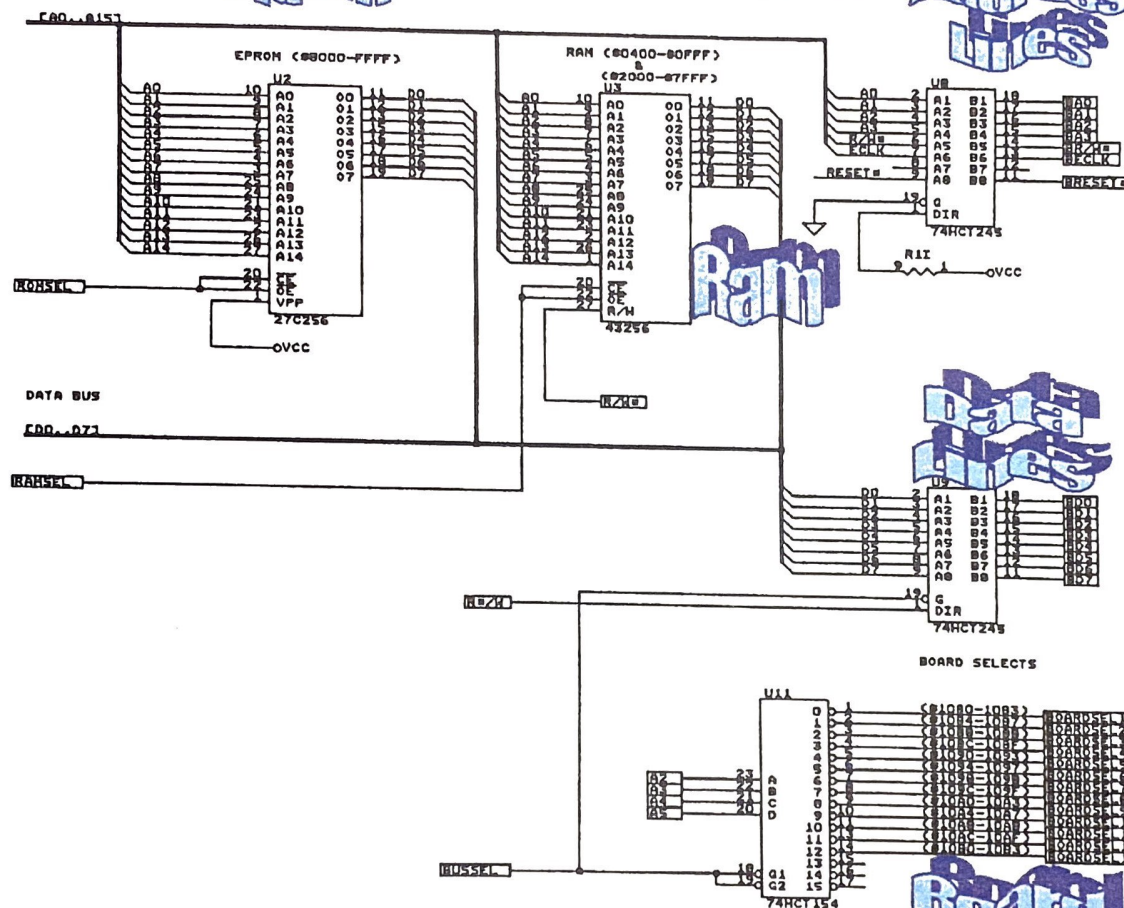
David B. Philipson 2205 Benjamin Ln. Bloomington, IL 61701 (309) 662-4469		
Title PIA I/O CIRCUITRY		
Size B	Document Number CEC_CPU_003	REV D
Date: October 4, 1993 Sheet 3 of 5		



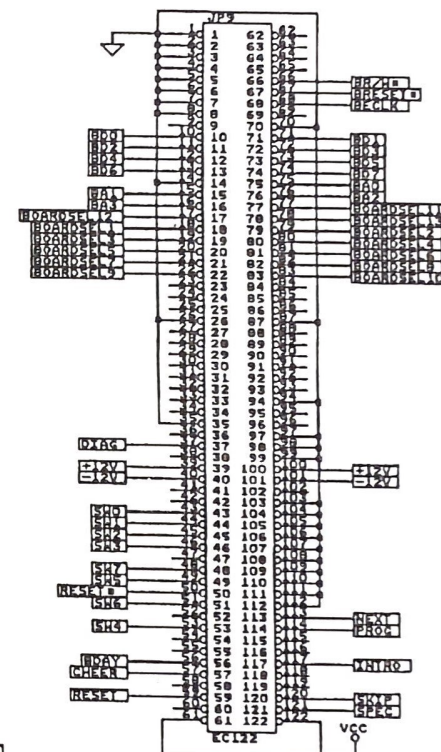
Title:	Drawn by:
<i>68HC11</i>	<i>Tim Snelling</i>
Drawing Number:	Date:
<i>CEC9711</i>	<i>11-25-97</i>

Note: Addresses 01000 - 01FFF
are used for I/O and internal registers
and therefore are not available as RAM

Address Lines



Board Subject



David B. Philipsen
2205 Benjamin Ln.
Bloomington, IL 61701
(309) 662-4460

(309) 662-4460
 Title ROM, RAM, AND CYBERANICS BUS
 Size Document Number
 B CEC_CPU_D05
 Date: December 8, 1991 Sheet 5 of

CONFIDENTIAL DRAWING

Character Driver Card

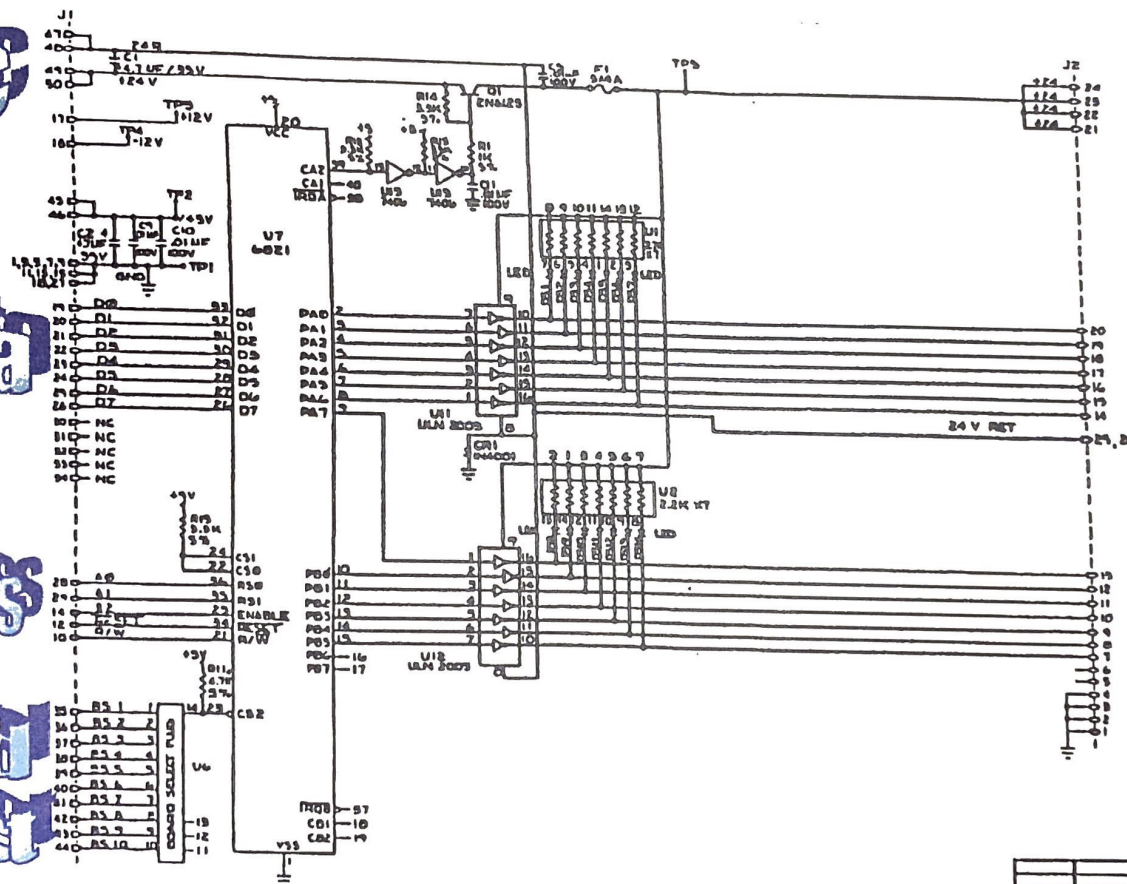
CEC ELECTRONICS

24Vdc

Data

Address

Board Select

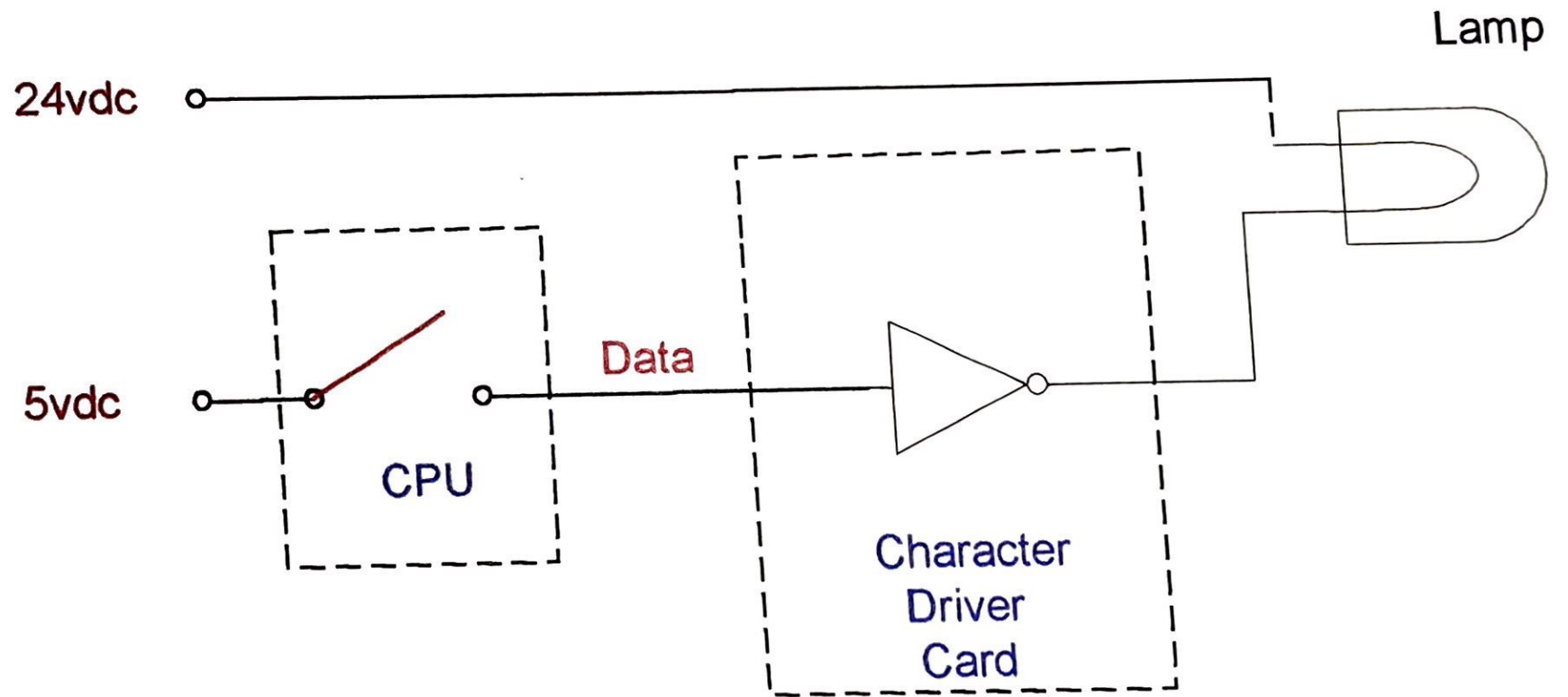


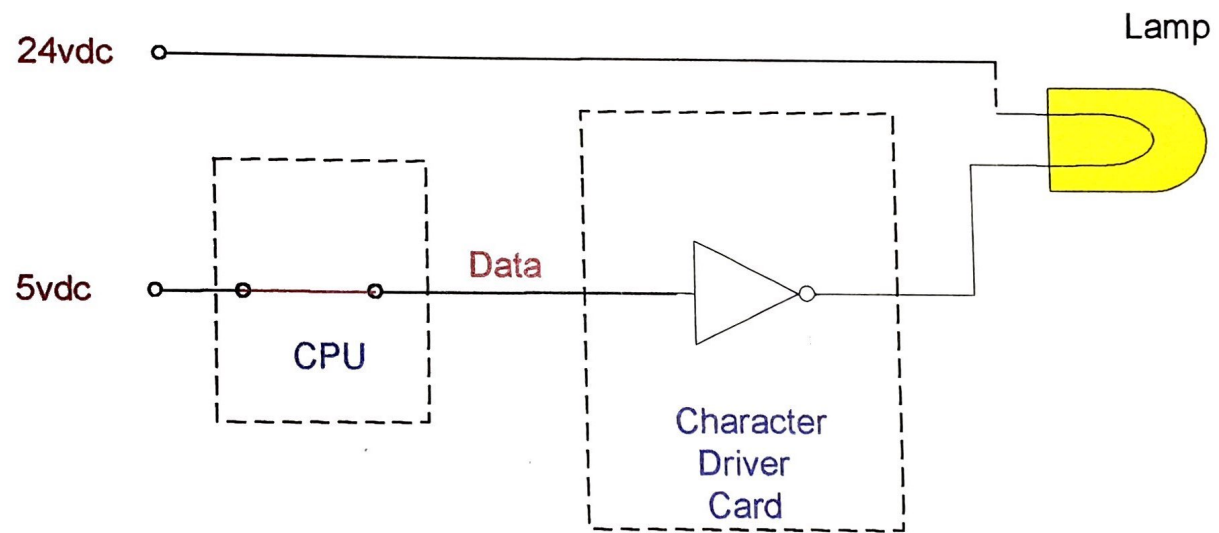
24 CONDUCTOR 341 RIBBON CABLE

DO NOT SCALE DRAWING		Rev. 1	
DATE: 4-5-82		BY: J. J. J.	
CHECKED: 4-5-82		BY: J. J. J.	
APPROVED: 4-5-82		BY: J. J. J.	
DRAWN: 4-5-82		BY: J. J. J.	
TITLE: CHARACTER DRIVER SCHEMATIC		PART: D08-0034	
REV: A		REV: A	

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DRAWING 7-5





CEC ELECTRONICS



2 Extra From U57406

[illegible]

CONFIDENTIAL

DRAWING 7-6

Understanding The Chuck E Cheese Rosetta

Chuck E Cheese R12 Version Rosetta
(Used for all stages with curtains)

	HEADER 1	HEADER 2	HEADER 3	HEADER 4	HEADER 5	HEADER 6	HEADER 7	HEADER 8	
Terminal	CHUCK	JASPER	PASQUALLY	MUNCH	HELEN	A/V CONT	LIGHTS	LIGHTS	LED#
TB1,1-2	MOUTH	MOUTH	MOUTH	MOUTH	MOUTH	AUDSEL1	LIVE FLOOD	AMBER BKDROP	1
TB1,3-4	HEAD L	HEAD L	HEAD L	HEAD L	HEAD L	AUDSEL2	LIVE STROBE	RED BKDROP	2
TB1,5-6	HEAD R	HEAD R	HEAD R	HEAD R	HEAD R		PASQ DRUM	BLUE BKDROP	3
TB1,7-8	HEAD UP	HEAD UP	L ARM	L ARM	HEAD UP		PASQ SPOT	AMBR BKDP CEC	4
TB1,9-10	EYES R	EYES R	EYES R	EYES R	EYES R		ORG LEG OUT	AMBR OVRHEAD	5
TB1,11-12	EYELIDS	EYELIDS	EYELIDS	EYELIDS	EYELIDS		HELEN SPOT	RED OVRHEAD	6
TB1,13-14	HAND	HAND	R ARM	R ARM	HAND		CEC STAR/ROPE	BLUE OVRHEAD	7
TB1,15-16	EYES L	EYES L	EYES L	EYES L	EYES L	VIDSEL1	CHUCK SPOT	RED BKDRP CEC	8

Terminal	PROPS	CURTAINS	PROPS	PROPS					LED#
TB2,1-2	FLWMOUTH	CRTN OPN1	FLOWER SPT	TTMECH	DIMMER	VIDSEL2	CEC FIBER SIGN	FIBER CURTAIN	9
TB2,3-4	WINK	CRTN CLS1		TTLIVE	USA FLAG		ORG LEG MID	HELICOPTER	10
TB2,5-6		CRTN OPN CEC		FOG	CONF FLAG		JASPER SPOT	WINK SPOT	11
TB2,7-8		CRTN CLS CEC			STATE FLAG		ORGAN FACE2	CEC GOBO	12
TB2,9-10		CRTN OPN MUN			CEC FLAG		MUNCH SPOT	JASPER SEAT LT	13
TB2,11-12		CRTN CLS MUN	FLWMOUTH	FLWMOUTH	ITAL FLAG		ORGAN FACE1	MUNCH SIGN	14
TB2,13-14							ORGAN LEG INR	BLUE BKDRP CEC	15
TB2,15-16								DANCING STAR	16

HEADER # - This is the position of the jumper on the header chip located on the Character Driver Card that makes one board different from the other 4 character driver cards. All 5 Character Driver Cards in the rack are exactly the same and can be given a new identity by changing this jumper. Example: Chuck E Cheese – the jumper is from pin 1 to pin 14, Jasper- the jumper is from pin 2 to pin 14. Thus the wording HEADER #1, HEADER #2, etc. The Header Chip or jumper chip is located at U6 on the Character Driver Card. The Light Driver Cards in the rack also have a header chip that can be changed; this is useful if you think you have lighting problem and you want to isolate it to the card.

TERMINAL - (TB1, 1-2, etc.) – These are the post that are located on the characters back. TB1 is located on the lower portion of the board and TB2 is on top. The 1-2 are the terminals that the wires are hooked on too.

LED# - That is the LED that located on the Character Driver Card in the rack. Looking at the board in the rack, LED # 1 is located at the bottom of the board. LED # 14 (16 on Light Driver Cards) is at the top. You can make a movement happen by grounding the bottom leg of any LED on the Character Driver Card or the Light Driver Card.

A/V (Audio/Video) Controller – This board is used to interface the JVC VCR to the computer. Your Data and your remote control functions from the JVC pass through this board. Reseat this board if you are having Data problems. This board is always in slot 1.

Note:

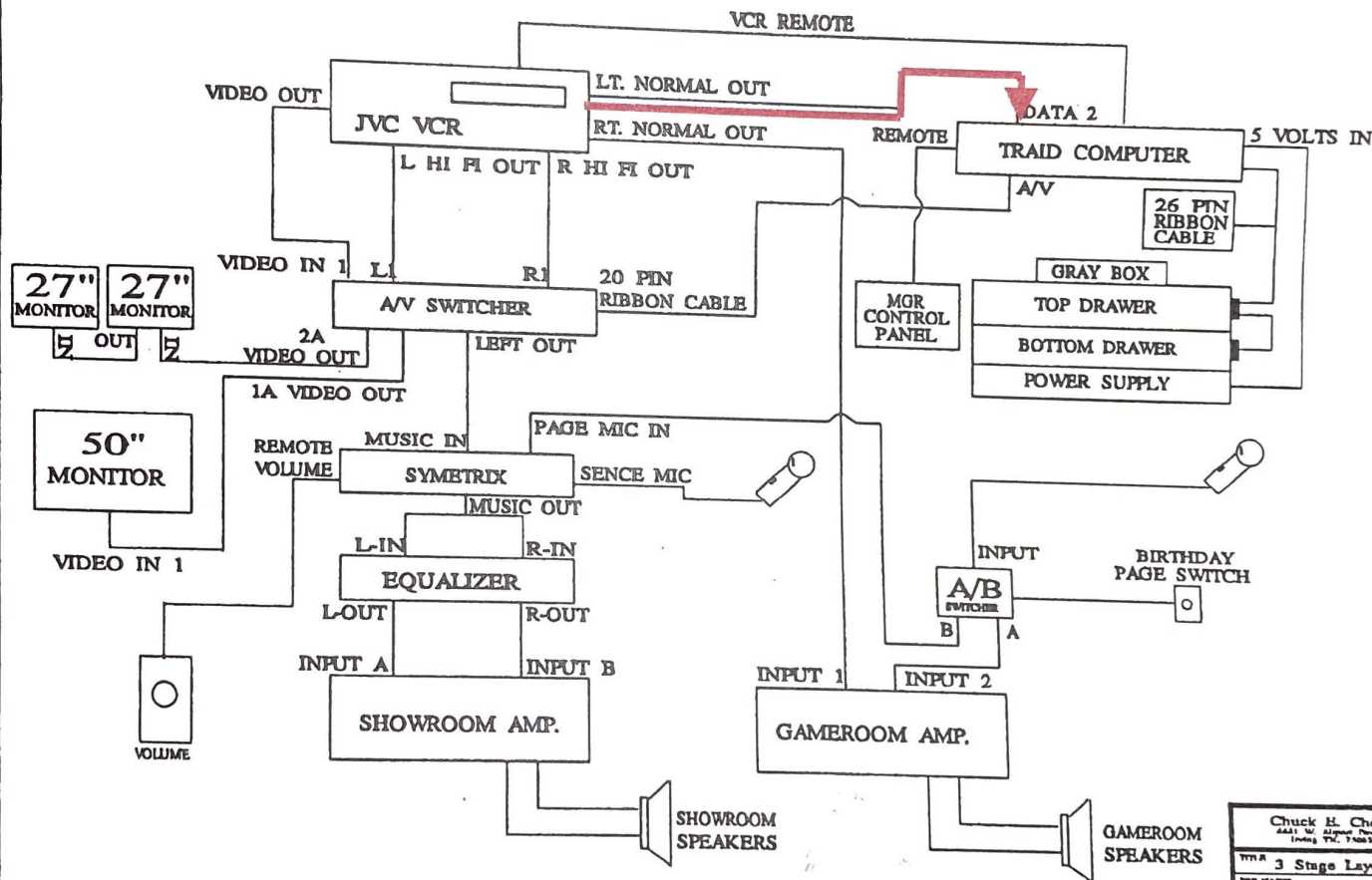
When working on the light relay boards you will find that the Rosetta is configured the same as the relay boards.
Example - Board 1 (H EADER 7) LED # 3 is also circuit #3 (Pasqually's drum light) on the relay board.

Understanding
The
3-Stage
Show



3-STG ELECTRONICS

3 STAGE SHOW LAYOUT



Chuck H. Cheema 4441 W. Algonquin Parkway Irving, TX, 75063	
TITLE: 3 Stage Layout	
DRAWN BY: Jeff Albridge	
DATE: APPROVED BY:	

CONFIDENTIAL

DRAWING 4-1

3-STG ELECTRONICS

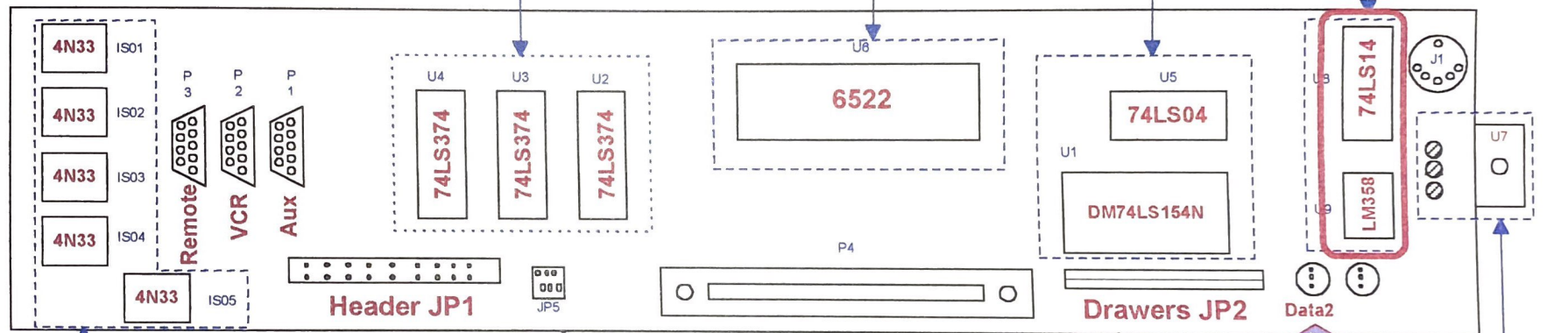


U2 - Manager Control Panel Problems
U3 - A/V Switcher Problems
U4 - Tape Deck Problems

U5, U1 - Output to the drawers. Causes Movement Problems, Normally more than 1 at a time.

U8, U9 - Part of the wave shaper circuit. Tape Plays but you have No sound/ No video and has ***Tape Start or Ape Start on the LCD Display.

Controls U1, U2, U3, U4, U5,



IS01-IS05 are used to isolate the button and lights on the managers control panel from the CPU.

IS01 - Birthday Select Switch
IS02 - Not Used
IS03 - Not used
IS04 - Birthday Select Light
IS05 - Birthday Warning Light

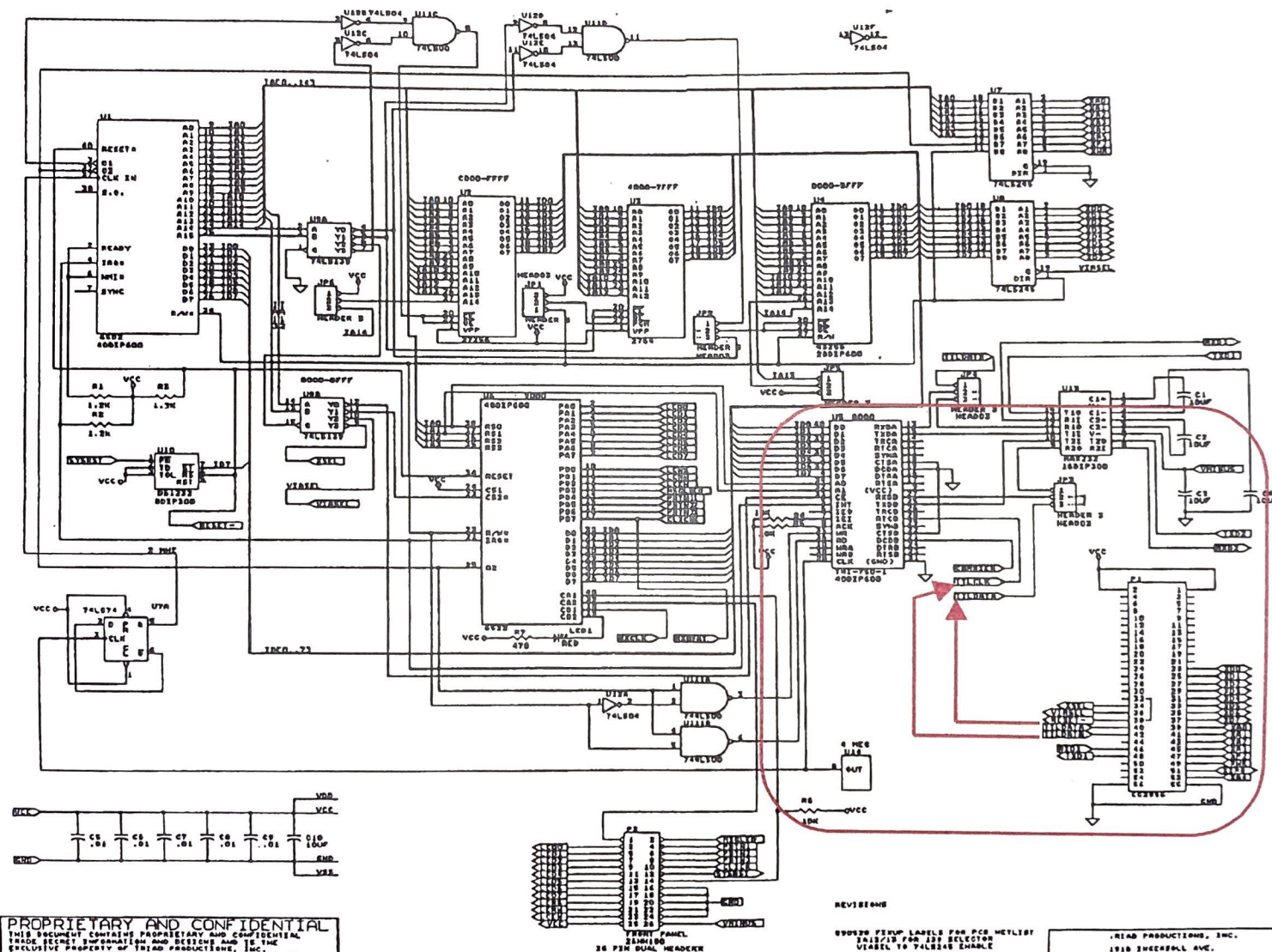
3 Stage Cyberstar Back-plane
(Inside View)

Data

Title:	Drawn by:
3 Stage Back-Plane	Tim Snelling
Drawing Number:	Date:
HC119712	12-4-97

Main Board

3-STG ELECTRONICS



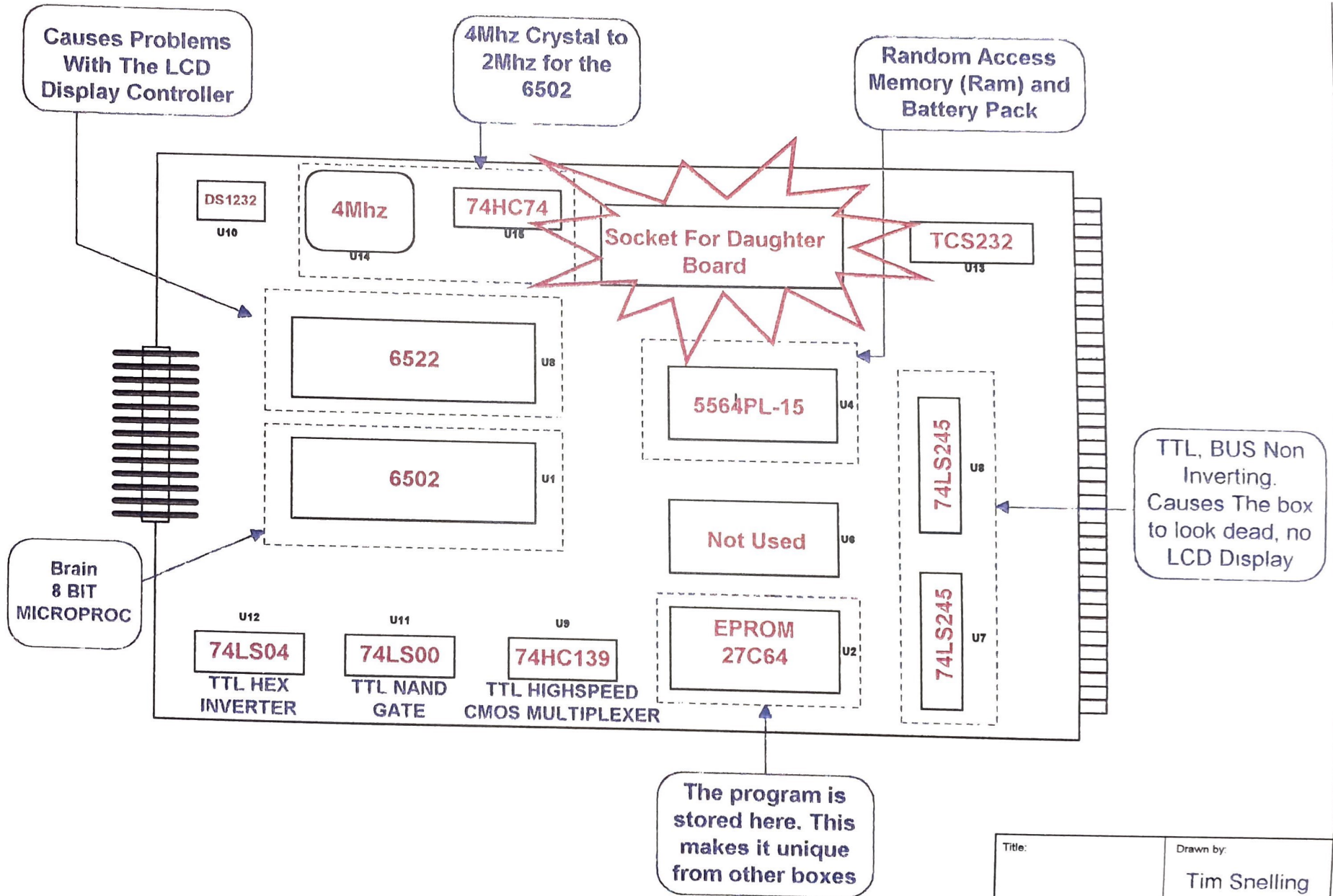
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REVISIONS

000000 PSUP LABELS FOR PCB METALIST
000001 PSUP LABELS FOR PCB METALIST
000002 PSUP LABELS FOR PCB METALIST
000003 PSUP LABELS FOR PCB METALIST
000004 PSUP LABELS FOR PCB METALIST
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000100 PSUP LABELS FOR PCB METALIST

TRIAD PRODUCTIONS, INC.
1818 BUCKLEBURY AVE.
PO BOX 10000, 10000
111-201-1111
SHOWS CYBERSTAR PROCESSOR CARD
REV C
DATE 11/11/91
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DRAWING 4-15

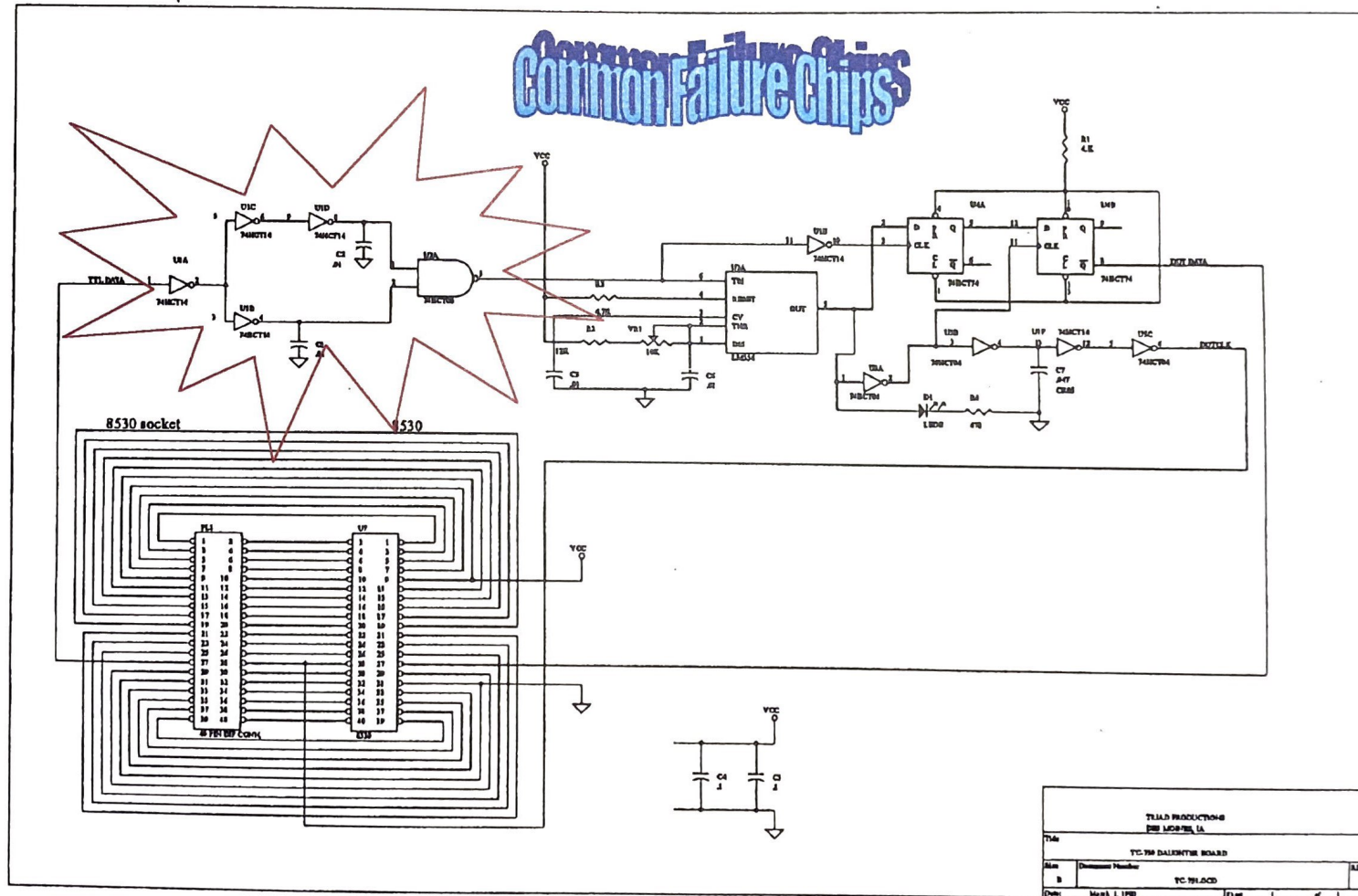


Title:	Drawn by: Tim Snelling
Drawing Number:	Date:

Daughter Board

3-STG ELECTRONICS

Common Failure Chips



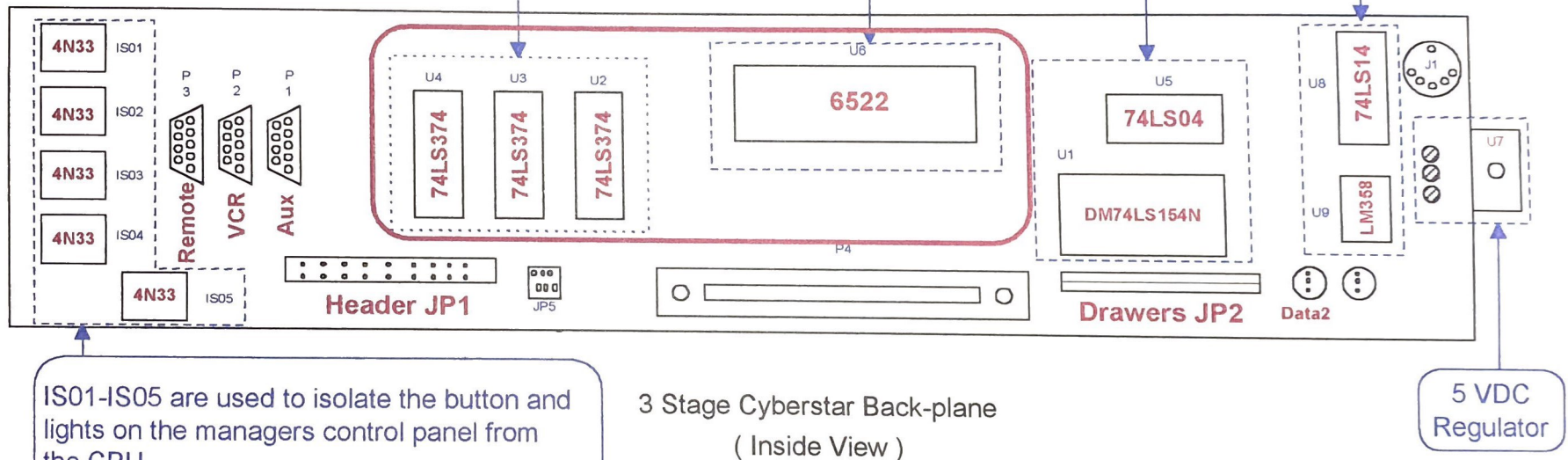
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U2 - Manager Control Panel Problems
 U3 - A/V Switcher Problems
 U4 - Tape Deck Problems

Controls U1, U2, U3,
 U4, U5,

U5, U1 - Output to the
 drawers. Causes Movement
 Problems, Normally more
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U8, U9 - Part of the
 wave shaper circuit.
 Tape Plays but you
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 Start or Ape Start on
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IS01-IS05 are used to isolate the button and lights on the managers control panel from the CPU.

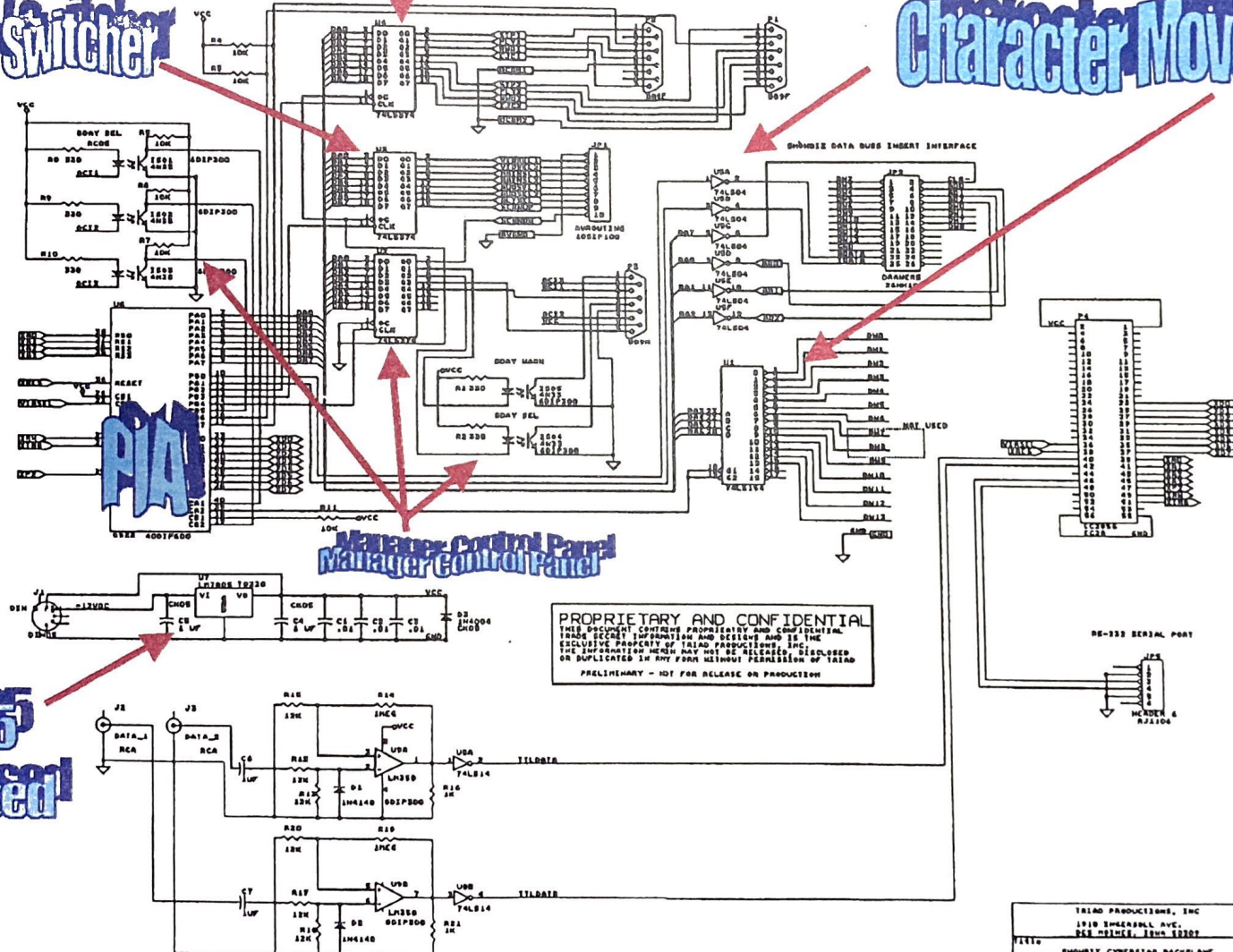
IS01 - Birthday Select Switch
 IS02 - Not Used
 IS03 - Not used
 IS04 - Birthday Select Light
 IS05 - Birthday Warning Light

Title:	Drawn by:
3 Stage Back-Plane	Tim Snelling
Drawing Number:	Date
HC119712	12-4-97

Back-Plane

A/V Switcher

Character Movement



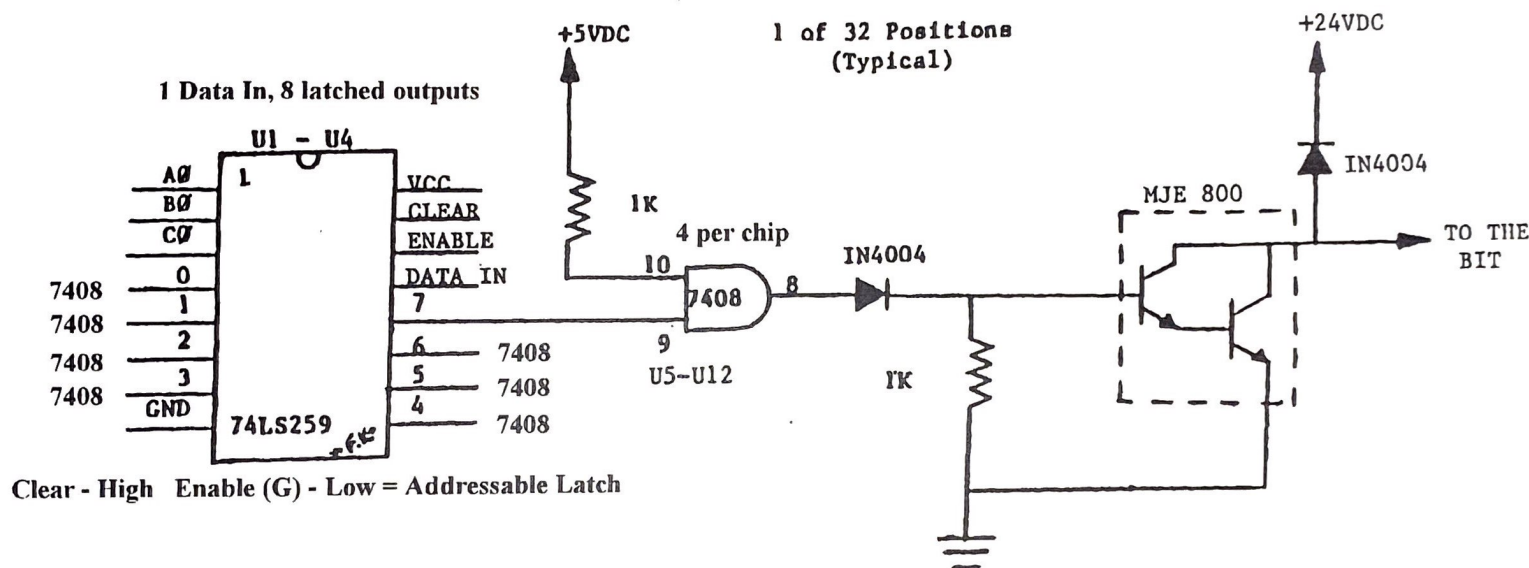
7805
Not Used

DRAWING 4-16

Long-Driver Board

LONG DRIVER BOARD SCHEMATIC (Partial)

3-STG ELECTR



Clear - High Enable (G) - Low = Addressable Latch

J1-3	J1	ON BOARD TIE POINTS	
---	1	PIN 1 U1 - U4	AD0 from Cyberstar
---	2	PIN 2 U1 - U4	AD1 from Cyberstar
47 ---	3	PIN 3 U1 - U4	AD2 from Cyberstar
46 ---	4	VCC (+5VDC)	
45 ---	5	PIN 15 U1 - U4	Clear from Cyberstar
48 ---	6	PIN 14 U3	DW from Cyberstar to Enable on 74LS259
22 ---	7	PIN 14 U2	DW from Cyberstar to Enable on 74LS259
19 ---	8	KEY	
18 ---	9	PIN 13 U1 - U4	TData or BData from Cyberstar to Data In on 74LS259
---	10	PIN 14 U4	DW from Cyberstar to Enable on 74LS259
21 ---	11	PIN 14 U1	DW from Cyberstar to Enable on 74LS259
20 ---	12		
17 ---	13		

Determines the address (0 thru7)

SN54259, SN54LS259B, SN74259, SN74LS259B 8-BIT ADDRESSABLE LATCHES

DECEMBER 1983 - REVISED MARCH 1988

- 8-Bit Parallel-Out Storage Register Performs Serial-to-Parallel Conversion with Storage
- Asynchronous Parallel Clear
- Active High Decoder
- Enable/Disable Input Simplified Expansion
- Expandable for N-Bit Applications
- Four Distinct Functional Modes
- Package Options Include Ceramic Chip Carriers and Flat Packages in Addition to Plastic and Ceramic DIPs
- Dependable Texas Instruments Quality and Reliability

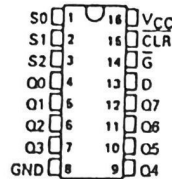
description

These 8-bit addressable latches are designed for general purpose storage applications in digital systems. Specific uses include working registers, serial-holding registers, and active-high decoders or demultiplexers. They are multifunctional devices capable of storing single-line data in eight addressable latches, and being a 1-of-8 decoder or demultiplexer with active-high outputs.

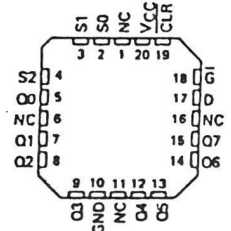
Four distinct modes of operation are selectable by controlling the clear (CLR) and enable (G) inputs as enumerated in the function table. In the addressable-latch mode, data at the data-in terminal is written into the addressed latch. The addressed latch will follow the data input with all unaddressed latches remaining in their previous states. In the memory mode, all latches remain in their previous states and are unaffected by the data or address inputs. To eliminate the possibility of entering erroneous data in the latches, enable G should be held high (inactive) while the address lines are changing. In the 1-of-8 decoding or demultiplexing mode, the addressed output will follow the level of the D input with all other outputs low. In the clear mode, all outputs are low and unaffected by the address and data inputs.

The SN54259 and SN54LS259B are characterized for operation over the full military temperature range of -55°C to 125°C. The SN74259 and SN74LS259B are characterized for operation from 0°C to 70°C.

SN54259, SN54LS259B ... J OR W PACKAGE
SN74259 ... N PACKAGE
SN74LS259B ... D OR N PACKAGE
(TOP VIEW)

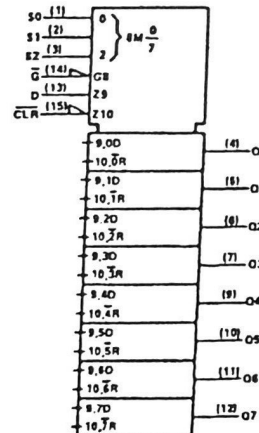


SN54LS259B ... FK PACKAGE
(TOP VIEW)



NC - No internal connection

logic symbol†



†This symbol is in accordance with ANSI/IEEE Std. 91-1984 and IEC Publication 617-12.
Pin numbers shown are for D, J, H, and W packages.

SN54259, SN54LS259B, SN74259, SN74LS259B 8-BIT ADDRESSABLE LATCHES

FUNCTION TABLE

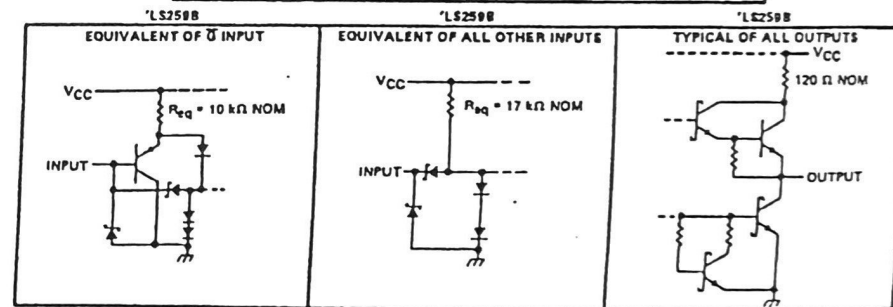
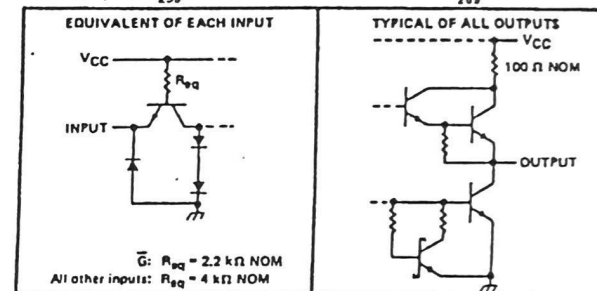
INPUTS		OUTPUT OF	EACH	FUNCTION
CLR	$\bar{G}$	ADDRESSED LATCH	OTHER OUTPUT	
H	L	D	Q_0	Addressable Latch Memory 8-Line Demultiplexer Clear
H	H	Q_0	Q_0	
L	L	D	L	
L	H	$\bar{L}$	L	

H = high level, L = low level
D = the level at the data input
O₀ = the level of O₀ (i = 0, 1, ..., 7, as appropriate) before the indicated steady-state input conditions were established.

LATCH SELECTION TABLE

SELECT INPUTS			LATCH
S2	S1	S0	ADDRESSED
L	L	L	0
L	L	H	1
L	H	L	2
L	H	H	3
H	L	L	4
H	L	H	5
H	H	L	6
H	H	H	7

schematic of inputs and outputs



absolute maximum ratings over operating free-air temperature range (unless otherwise noted)

Supply voltage (see Note 1)	7 V
Input voltage: SN54259, SN74259	5.5 V
SN54LS259B, SN74LS259B	7 V
Operating free-air temperature range: SN54259, SN54LS259B	-55°C to 125°C
SN74259, SN74LS259B	0°C to 70°C
Storage temperature range	-85°C to 150°C

NOTE 1: Voltage values are with respect to network ground terminal.

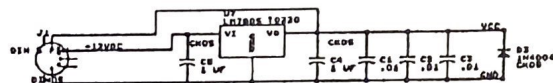
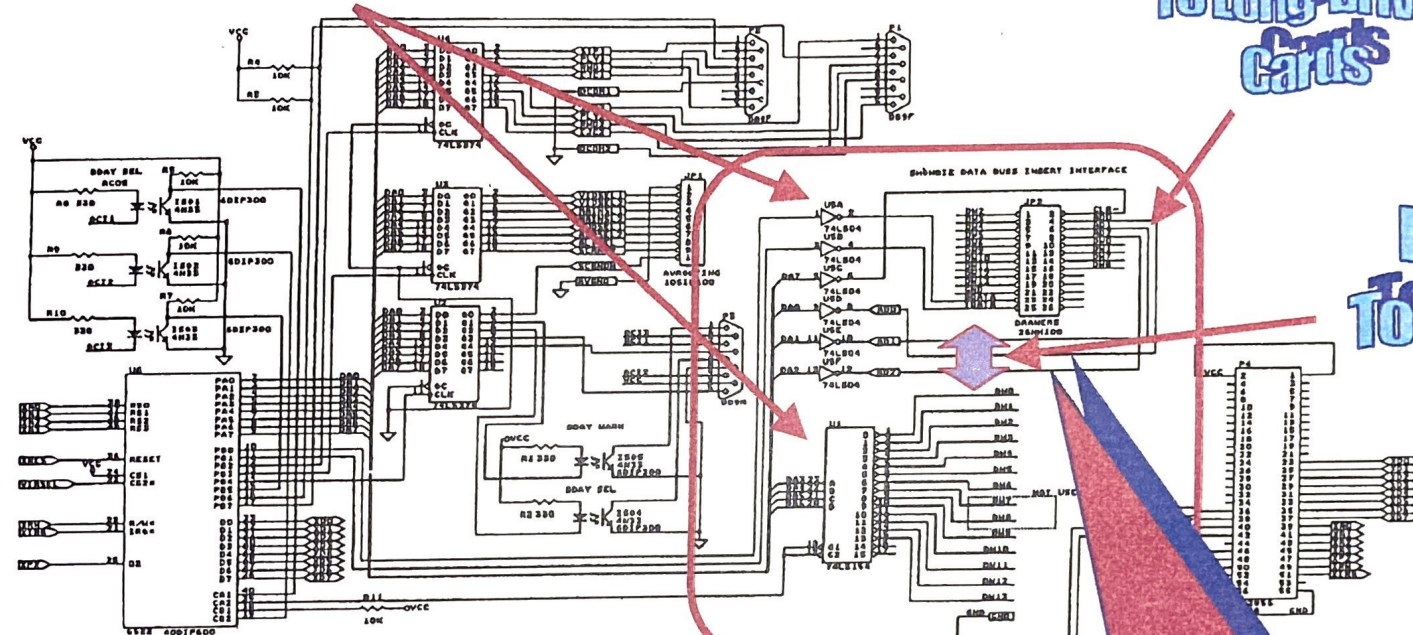
Back-Plane

3-STG ELECTRONICS

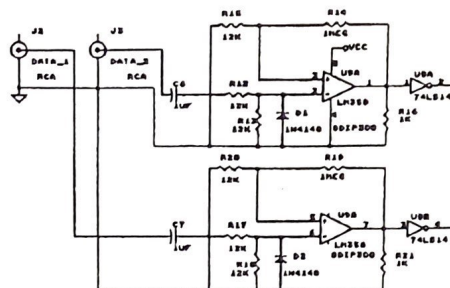
Character Movement

Address Lines To Long-Driver Cards

Data Lines To Long-Driver Cards



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Common Failure:
Characters will not move.
Burnt trace on JP2 pin 21.
(Ground pin)

TRIAD PRODUCTIONS, INC	REV
1910 INDEPENDENCE AVE.	2
DEE HUNTER, INDA 52027	
SHOBIE CYBERSTAR BACKPLANE	
REV	
DATE	
BY	
CHK	
APP	
REV	
DATE	
BY	
CHK	
APP	

DRAWING 4-16

3-Stage Bit Chart

				Top Drawer			
Bit #	Chuck E Cheese	Bit #	Munch	Bit #	Pasqually	Bit #	Curtains
1	Mouth	45	Mouth	30	Mouth	89	Stage Right Open
9	Left Ear	41	Left Eyelid	26	Left Eyelid	90	Stage Right Close
10	Right Ear	42	Right Eyelid	27	Right Eyelid	91	Center Stage Open
2	Left Eyelid	43	Eyes Left	28	Eyes Left	92	Center Stage Close
3	Right Eyelid	44	Eyes Right	29	Eyes Right	93	Stage Left Open
4	Eyes Left	54	Head Left	25	Head Left	94	Stage Left Close
5	Eyes Right	55	Head Right	21	Head Right		
6	Head Left	51	Head Tilt Left	22	Head Up		Props
7	Head Right	52	Head Tilt Right	33	left Arm Swing	38	Building Mouth
8	Head Up	53	Head Up	34	Right Arm Swing	39	Building Up
11	Left Arm Raise	57	left Arm Swing	35	Left Elbow	40	Dual Press Reg.
12	Left Arm Twist	58	Right Arm Swing	31	Right Elbow	46	Moon Mouth
13	Left Elbow	59	Left Elbow	32	High Hat	47	Moon Up
17	Right Arm Raise	60	Right Elbow	64	Body Lean	49	Wink
18	Right Arm Twist	61	Foot Tap			50	Baby Munch
19	Right Elbow	62	Body Lean		Sign		
14	Body Left			76	Inner Group		
15	Body Right			77	Middle Group		
16	Body Lean			78	Outer Group		
				79	Continuous Strobe		
				80	Flash Strobe		
				Bottom Drawer			
Bit #	Helen	Bit #	Jasper	Bit #	Special Effects	Bit #	Camera
35	Mouth	16	Mouth	94	CEC Neon Sign	17	Mouth
26	Left Ear	1	Left Eyelid	95	Star Tips Blue/Juke	41	Left Eyelid
27	Right Ear	2	Right Eyelid	70	Star Burst	42	Right Eyelid
31	Left Eyelid	3	Eyes Cross	81	Green Backdrop	43	Eyescross
32	Right Eyelid	6	Head Left	82	Yellow Backdrop	21	Head Right
33	Eyes Left	7	Head Right	83	Red Buildings	22	Head Raise
34	Eyes Right	8	Head Up	84	Blue Backdrop		
28	Head Left	11	Right Arm Raise	85	Red Backdrop		House Lights
29	Head Right	12	Right Arm Twist	86	Red	64	House Lights 1
30	Head Up	13	Right Elbow Twist	87	Blue	64	House Lights 2
23	Left Arm Raise	14	Right Wrist	75	Fiber Optic Curtain	64	House lights 3
18	Right Arm Raise	4	Guitar Slide	91	Yellow Kick Drum		
24	Left Elbow	5	Guitar Raise	92	Red Backdrop		
19	Right Elbow	9	Left Leg Raise	93	Blue Backdrop		
25	Left Arm Twist	10	Right Leg Raise	80	Red Snare/Pasqually		
20	Right Arm twist	15	Body Lean	88	Building Spot		
36	Body turn Left			89	Moon Spot		
37	Body Turn Right			90	Baby Munch Spot / Gobo		
38	Body Lean			96	Guitar Spot		
				Organ			
Bit #	Chuck E Cheese	Bit #	Munch	Bit #	Pasqually	Bit #	Curtains
66	Top Blue						
67	Top Red						
68	Top Amber						
69	Top Green						
71	Top Leg						
72	Middle Leg						
73	Bottom Leg						
74	Continuous Strobe						
75	Flash Strobe						
				Spots			
81	Wink						
82	Jasper						
83	Camera						
84	Pasqually						
85	Munch						
86	Helen						
87	Helicopter Light						
88	Chuck						
				Flood Lights			
66	Stage Right Blue						
67	Stage Right Green						
68	Stage Right Amber						
69	Stage Right Red						
71	Center Stage Blue						
72	Live Floods						
73	Center Stage Amber						
74	Center Stage Red						
76	Stage Left Blue						
77	Stage Left Green						
78	Stage Left Amber						
79	Stage Left Red						

Chip Kits From Home Office



A/V Switcher Chip Kit 005-0054-80

- (1) 74HC138 - U8 , (1) LM359 - U17
- (1) 74HC139 - U24
- (1) 74HC14 - U18
- (1) 74HC75 - U21
- (1) 74HC00 - U9
- (2) 74LS04 - U7
- (2) TL072 - U14, U15, U16
- (2) 4053 - U11, U12, U19, U20, U21



Character & Light Driver Card Chip Kit 005-0021-090

- (1) 6821 - U7
- (4) ULN 2003 - U11 & U12 (CD), U4 & U3 (LD)
- (2) 4.7MFD 35V Tan. Cap.- C1 & C2
- (4) 16 pin sockets
- CD = Character Driver Card
- LD = Light Driver Card



Triad Computer Chip Kit 005-0053-80

- (1) 6522 - U6
- (1) 74LS154 - U1
- (4) 74LS04 - U5
- (3) 74LS374 - U4, U3, U2
- (1) LM358 - U9
- (1) 74LS14 - U8



68HC11 CEC CPU Chip Kit 005-0002-040

- (1) 68B21 - U5
- (1) 74HCT154 - U11
- (1) 74LS06 - U21 & U22
- (1) 74HCT00 - U27
- (1) 74HCT74 - U24
- (2) 74HCT374N - U13 & U14
- (1) LM358N - U26
- (1) 74HCT14 - U23



LDB Chip Kit 005-0068-10

- (8) 74LS08
- (8) 14 pin sockets
- (4) 74LS259
- (4) 16 pin sockets

972-258-5557