

Section 3

Reference Diagrams & Schematics

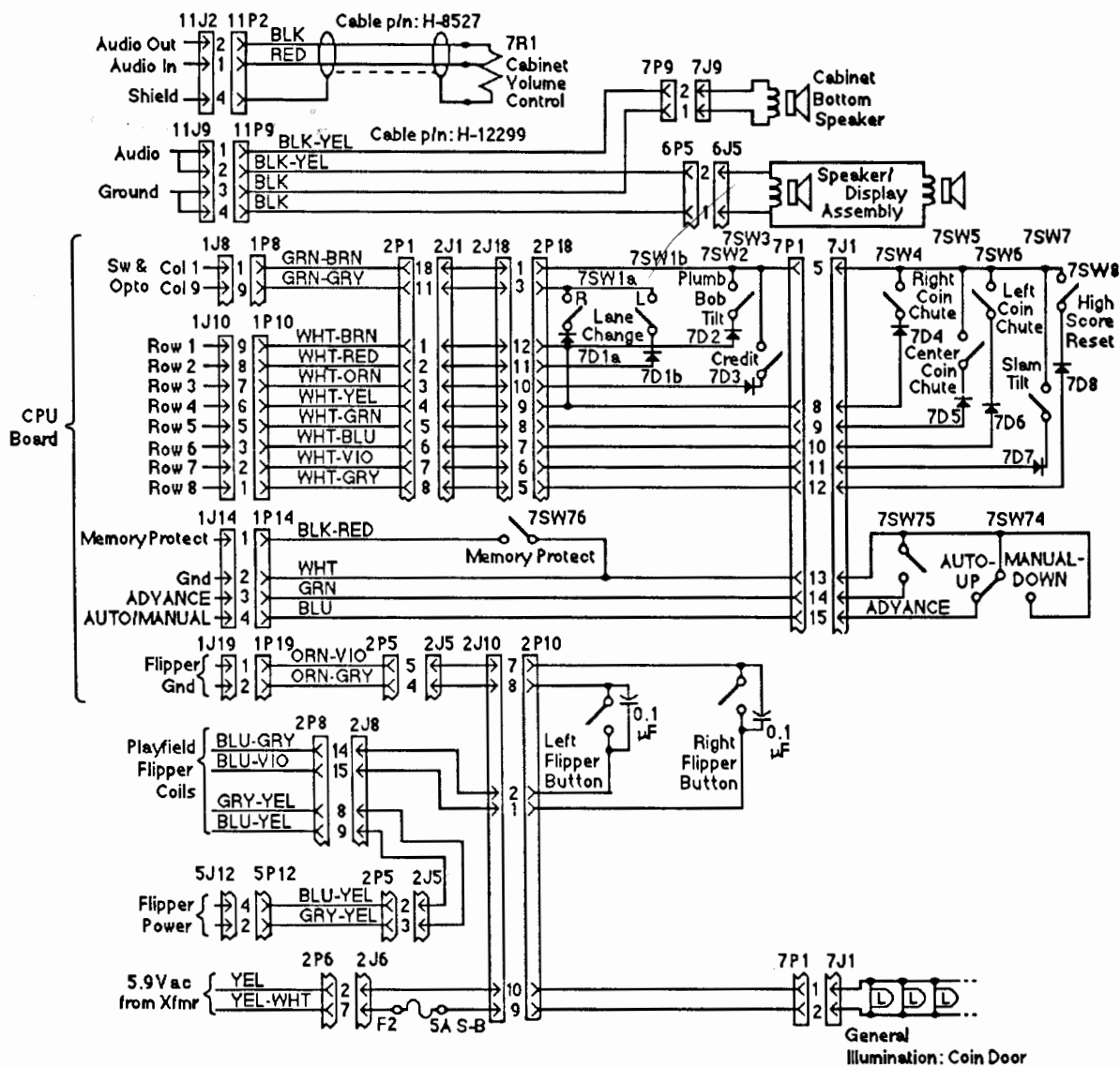
- **Diagrams and Schematics:**

- Cabinet Wiring**
 - 3-Bank Opto Board**
 - Power Supply Board**
 - System 11B CPU Board**
 - Master Display Board**
 - Audio Board**
 - Aux Power Driver Board**
 - Backbox Interconnect Board**
 - Controlled, Special, & Switched Solenoids**
 - Power Wiring**
 - Game Circuit Boards Interboards Signals**

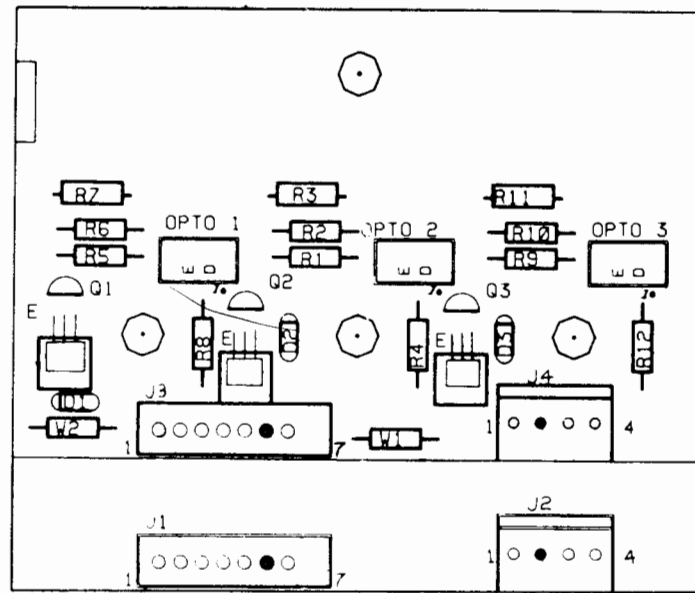
- **Diagnostic Test Flowchart**



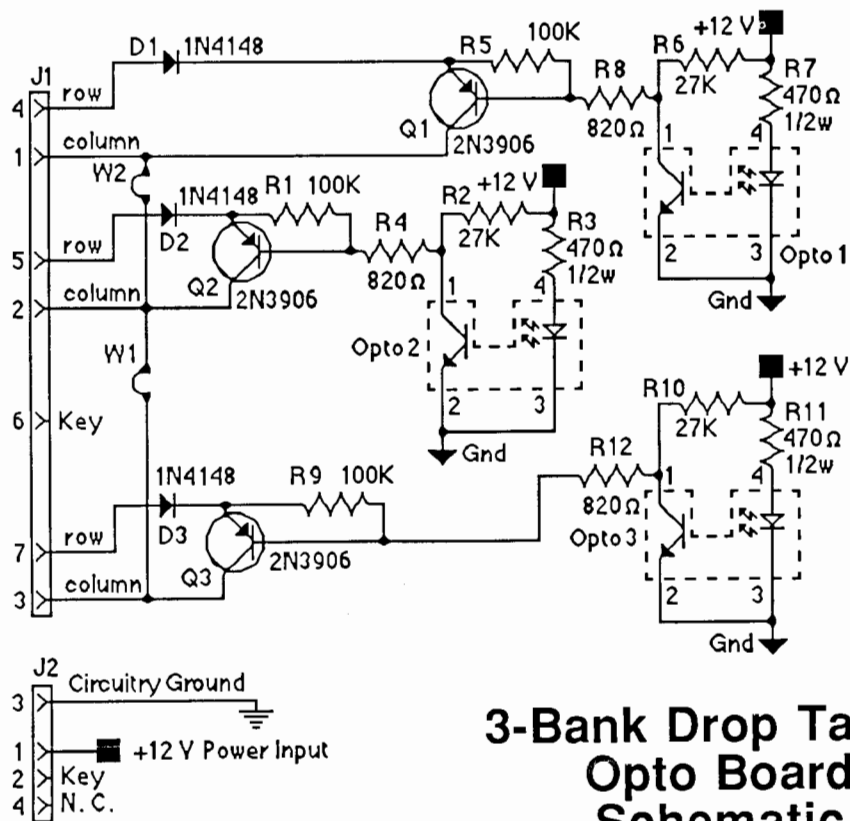
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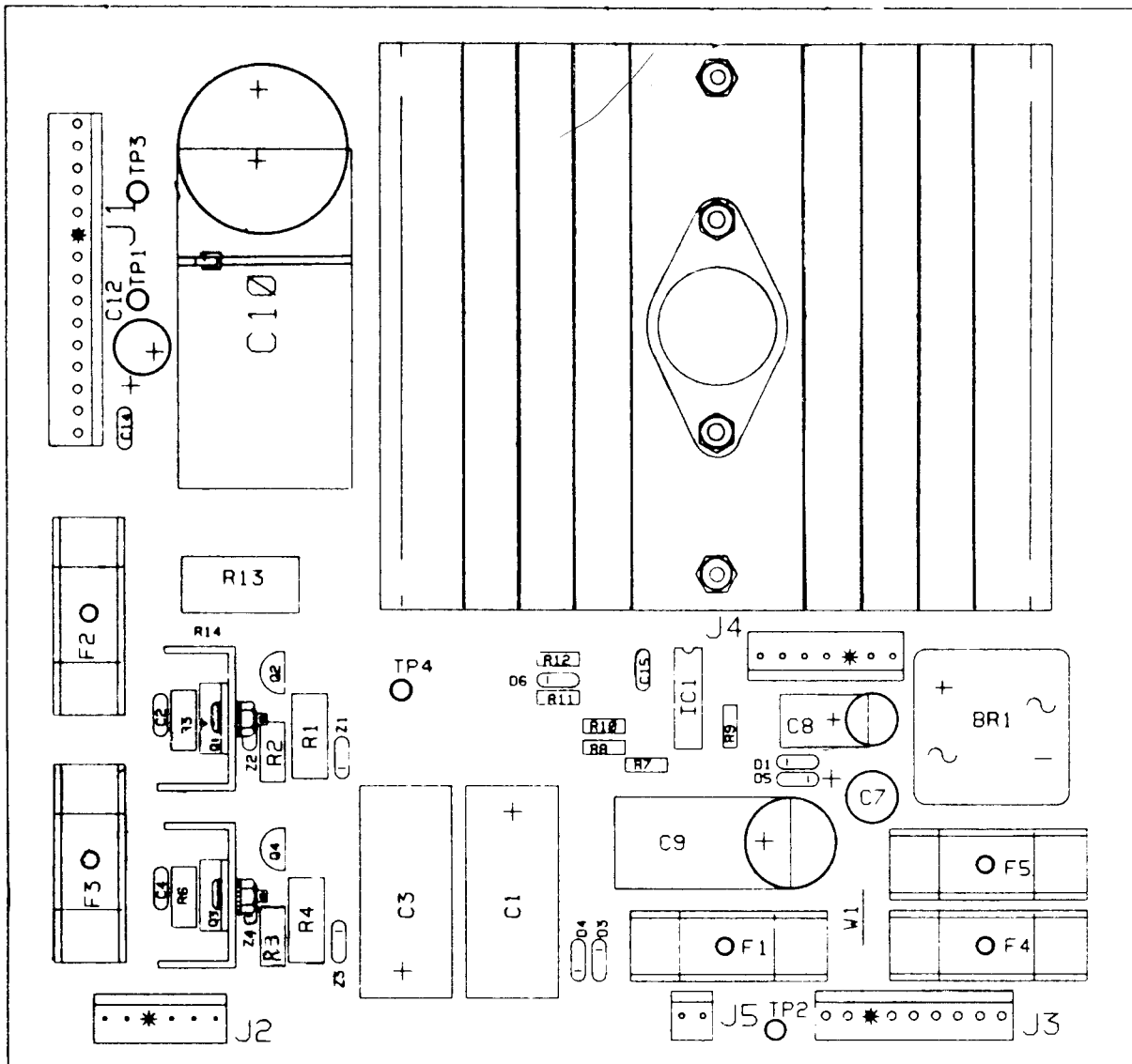


TAXI Cabinet Wiring



3-Bank Drop Target Opto Board
p/n C-11318-1





Power Supply Board
p/n D-12246



TAXI ROM and Jumper Table

Game	System 11B CPU Rev.	P/N - U15 Game µP	P/N - U27 G. ROM 1	P/N - U26 G. ROM 2	P/N - U21 S. ROM 1	P/N - U22 S. ROM 2	P/N - U24 Sound µP	Jumpers
BIG GUNS	-	5400-09150-00	A-5343-557-2	A-5343-557-1	A-5343-557-4	A-5343-557-3	5400-09150-00	W1, 2, 4, 5, 7, 8, 11, 14, 16, 17, and 19
SPACE STATION	-		A-5343-552-2	A-5343-552-1	A-5343-552-4	A-5343-552-3		W1, 2, 4, 5, 7, 8, 11, 14, 16, 17, and 19
CYCLONE	-		A-5343-564-2	A-5343-564-1	A-5343-564-4	A-5343-564-3		W1, 2, 4, 5, 7, 8, 11, 14, 16, 17, and 19
BANZAI RUN	-		A-5343-566-2	A-5343-566-1	A-5343-566-4	A-5343-566-3		W1, 2, 4, 5, 7, 8, 11, 14, 16, 17, and 19
SWORDS OF FURY	-		A-5343-559-2	A-5343-559-1	A-5343-559-4	A-5343-559-3		W1, 2, 4, 5, 7, 8, 11, 14, 16, 17, and 19
TAXI	-	↓	A-5343-553-2	A-5343-553-1	A-5343-553-4	A-5343-553-3	↓	W1, 2, 4, 5, 7, 8, 11, 14, 16, 17, and 19

TAXI Solenoid Table

Sol. No.	Function	Solenoid Type	Wire Color	Connections		Driver Trnstr	Solenoid Part Number Flashlamp Type i=Insert Bd; p=Playfield; d=Dome
				CPU Bd	Playfield/ Cabinet		
01A ³	Outhole Kicker	Switched	{ Vio-Brn }	1P11-1	5J1-9: 5J4-9 (A)	Q33	AE-23-800
01C ³	Pin-Bot Flasher	Switched	{ Blk-Brn }	(Gry-Brn)	5J5-9 (C)	Q33	#89 flashlamps 1p,1i
02A ³	Ball Release (Shtr Lane Feeder)	Switched	{ Vio-Red }	1P11-3	5J1-7: 5J4-8 (A)	Q25	AE-23-800
02C ³	Dracula Flasher	Switched	{ Blk-Red }	(Gry-Red)	5J5-8 (C)	Q25	#89 flashlamps 1p,1i
03A ³	Catapult	Switched	{ Vio-Orn }	1P11-4	5J1-6: 5J4-7 (A)	Q32	AL-23-800
03C ³	Marilyn Flasher	Switched	{ Blk-Orn }	(Gry-Orn)	5J5-7 (C)	Q32	#89 flashlamps 1p,1i
04A ³	Middle 3-bank Dr Tgt	Switched	{ Vio-Yel }	1P11-5	5J1-5: 5J4-6 (A)	Q24	AE-26-1200
04C ³	Santa Flasher	Switched	{ Blk-Yel }	(Gry-Yel)	5J5-5 (C)	Q24	#89 flashlamps 1p,1i
05A ³	Top Eject Hole	Switched	{ Vio-Gm }	1P11-6	5J1-4: 5J4-5 (A)	Q31	AE-23-800
05C ³	Gorbie Flasher	Switched	{ Blk-Gm }	(Gry-Gm)	5J5-4 (C)	Q31	#89 flashlamps 1p,1i
06A ³	Right 3-bank Dr Tgt	Switched	{ Vio-Blu }	1P11-7	5J1-3: 5J4-4 (A)	Q23	AE-26-1200
06C ³	Left Ramp Flasher	Switched	{ Blk-Blu }	(Gry-Blu)	5J5-3 (C)	Q23	#89, #906 flashlamps 1p,1d
07A ³	Spinout Kickbig	Switched	{ Vio-Blk }	1P11-8	5J1-2: 5J4-2 (A)	Q30	AE-26-1500
07C ³	Right Ramp Flasher	Switched	{ Blk-Vio }	(Gry-Vio)	5J5-2 (C)	Q30	#89, #906 flashlamps 1p,1d
08A ³	Right Lock (Eject Hole)	Switched	{ Vio-Gry }	1P11-9	5J1-1: 5J4-1 (A)	Q22	AE-26-1500
08C ³	Spinout Flasher	Switched	{ Blk-Gry }	(Gry-Blk)	5J5-1 (C)	Q22	#89 flashlamps 2p
09	Top Ball Gate	Controlled	Brn-Blk	1P12-1	5J2-9: 5J6-9: 2J4-3	Q17	SM1-35-4000-DC
10	Insert Gen Illumin Relay	Controlled	Brn-Red	1P12-2	5J2-8: 5J6-8: 2J4-5	Q9	5580-12145-01 ⁴
11	Playfield Gen Illum	Controlled	Brn-Orn	1P12-4	5J2-6: 5J6-7: 2J4-6	Q16	5580-12145-01 ⁴
12	A/C Select Relay	Controlled	Brn-Yel	1P12-5	5J2-5	Q8	5580-09555-01 ⁵
13	Bell	Controlled	Brn-Gm	1P12-6	5J2-4: 5J6-5	Q15	SM-26-600-DC
14	Knocker	Controlled	Brn-Blu	1P12-7	5J2-4: 5J6-3	Q7	AE-26-1200
15	JACKPOT Flasher	Controlled	Brn-Vio	1P12-8	5J2-2: 5J6-2	Q14	#89 flashlamp 1p,2i
16	JOYRIDE Flasher	Controlled	Brn-Gry	1P12-9	5J2-1: 5J6-1	Q6	#89 flashlamp 1p
17	Left Jet Bumper	Special #1	Blu-Brn	1P19-7	5J3-7: 5J7-7	Q75	AE-23-800
18	Left Kicker ("sling")	Special #2	Blu-Red	1P19-4	5J3-6: 5J7-6	Q71	AE-26-1500
19	Right Jet Bumper	Special #3	Blu-Orn	1P19-3	5J3-3: 5J7-3	Q73	AE-23-800
20	Right Kicker ("sling")	Special #4	Blu-Yel	1P19-6	5J3-4: 5J7-5	Q69	AE-26-1500
21	Lower Jet Bumper	Special #5	Blu-Gm	1P19-8	5J3-2: 5J7-2	Q77	AE-23-800
22	Not Used	Special #6	Blu-Blk	1P19-9	5J3-1: 5J7-1	Q79	
-	Right Flipper	-	Orn-Vio	1P19-1	2J3-1: 2J18-10: 7P1-15	-	FL11630/50VDC
-	Lower Right Flipper	-	[Blu-Vio] ²		[7P1-16: 2J18-6: 2J17-4]		
-	Left Flipper	-	Orn-Gry	1P19-2	2J3-2: 2J18-9: 7P1-18	-	FL11630/50VDC
-	Lower Left Flipper	-	[Blu-Gry] ²		[7P1-19: 2J18-5: 2J17-3]		

Notes: 1. Wire colors, except flipper Orn-Vio and Orn-Gry, are ground connections (to coil terminal with unbanded end of diode). Flipper Orn-Vio and Orn-Gry wires connect from CPU Board to flipper switch. 2. Flipper connections shown in braces are from flipper switch to flipper coil. 3. "A" circuits are pulsed, when Sol. 12 is de-energized; "C" circuits are pulsed, with Sol. 12 energized. Wire colors in brackets are those from respective A and C terminals corresponding to the J1-terminal connection listed for the Aux Power Driver Bd, which controls the device pulsing by Sol. 12. 4. Relay is mounted on Relay Bd, p/n C-11998-1. 5. Relay is mounted on Aux Power Driver Bd, D-12247 in the backbox.

TAXI Lamp-Matrix Table

COLUMN ROW	1 Q66 YEL-BRN 1J7-1	2 Q64 YEL-RED 1J7-2	3 Q62 YEL-ORN 1J7-3	4 Q60 YEL-BLK 1J7-4	5 Q58 YEL-GRN 1J7-6	6 Q56 YEL-BLU 1J7-7	7 Q54 YEL-VIO 1J7-8	8 Q52 YEL-GRY 1J7-9
Q80 RED-BRN 1J6-1	JOYRIDE 10,000 1	AIRPORT 20K 9	PIN-BOT (Center) 17	PIN-BOT 25	2X cab 33	AIRPORT RIDE (Right) 41	JACKPOT (left above Meter) 49	SPINOUT 1,000 57
Q81 RED-BLK 1J6-2	JOYRIDE Spot Pasngr 2	AIRPORT 40K 10	DRACULA (Center) 18	DRACULA 26	4X cab 34	AIRPORT RIDE (Left) 42	JACKPOT (right above Meter) 50	SPINOUT 5,000 58
Q82 RED-ORN 1J6-3	JOYRIDE Mystery 3	AIRPORT 60K 11	MARILYN (Center) 19	MARILYN 27	3X cab 35	JOYRIDE 43	METER (left below Meter) 51	SPINOUT 10,000 59
Q83 RED-YEL 1J6-5	JOYRIDE EXTRA BALL 4	AIRPORT 80K 12	SANTA (Center) 20	SANTA 28	5X cab 36	JACKPOT When Lit 44	METER (right below Meter) 52	SPINOUT 25,000 60
Q84 RED-GRN 1J6-6	JOYRIDE SPECIAL 5	AIRPORT 100K 13	GORBIE (Center) 21	GORBIE 29	SPECIAL W/L (L Outlane) 37	1 MILLION When Lit 45	RED Traffic Light 53	SPINOUT 50,000 61
Q85 RED-BLU 1J6-7	Williams Pinball Palace (upr l) 6	C (Top Lane) 14	1 Express Lane (left) 22	RIDE AGAIN 30	BONUS W/L (L Return Lane) 38	EXTRA BALL W/L 46	YELLOW Traffic Light 54	SPINOUT 75,000 62
Q86 RED-VIO 1J6-8	Williams Pinball Palace (mid l) 7	A (Top Lane) 15	2 Express Lane (right) 23	Passengers Carried 31	SPECIAL W/L (R Outlane) 39	CARRY PASSENGERS W/L 47	GREEN Traffic Light 55	SPINOUT 100,000 63
Q87 RED-GRY 1J6-9	Williams Pinball Palace (lwr l) 8	B (Top Lane) 16	RAISE JACKPOT 24	LOCK 32	BONUS W/L (R Return Lane) 40	RELEASE 48	Williams Pinball Palace (upr r) 56	Williams Pinball Palace (lwr r) 64

TAXI Switch-Matrix Table

COLUMN ROW	1 Q45 GRN-BRN 1J8-1	2 Q49 GRN-RED 1J8-2	3 Q44 GRN-ORN 1J8-3	4 Q48 GRN-YEL 1J8-4	5 Q43 GRN-BLK 1J8-5	6 Q47 GRN-BLU 1J8-7	7 Q42 GRN-VIO 1J8-8	8 Q46 GRN-GRY 1J8-9
1 WHT-BRN 1J10-9	Plumb Bob Tilt 1	Playfield Tilt 9	Left Jet Bumper 17	Left Ramp Entry 25	Right Ramp Exit 33	41	49	Lane Change Right 57
2 WHT-RED 1J10-8	2	Outhole 10	Left Kicker ("sling") 18	Right Ramp Entry 26	Left Ramp Exit 34	42	50	Lane Change Left 58
3 WHT-ORN 1J10-7	Credit Button 3	Ball Trough #1 11	Right Jet Bumper 19	Mdl 3-Bank DT (left) 27	Catapult 35	SPINOUT Kickbig 43	51	59
4 WHT-YEL 1J10-6	Left Coin Chute 4	Ball Trough #2 12	Right Kicker ("sling") 20	Mdl 3-Bank DT (mid) 28	Right Eject 36	"Spins" Counter 44	52	60
5 WHT-GRN 1J10-5	Center Coin Chute 5	Top Eject Hole 13	Lower Jet Bumper 21	Mdl 3-Bank DT (right) 29	Left Outlane 37	45	53	61
6 WHT-BLU 1J10-3	Right Coin Chute 6	C Top Lane 14	Ball Shooter 22	R 3-Bank DT (top) 30	Left Return Lane 38	46	54	62
7 WHT-VIO 1J10-2	Slam Tilt 7	A Top Lane 15	Top Lane Entry 23	R 3-Bank DT (mid) 31	Right Outlane 39	47	55	63
8 WHT-GRY 1J10-1	High Score Reset 8	B Top Lane 16	Carry Pasengers 24	R 3-Bank DT (bottom) 32	Right Return Lane 40	48	56	64

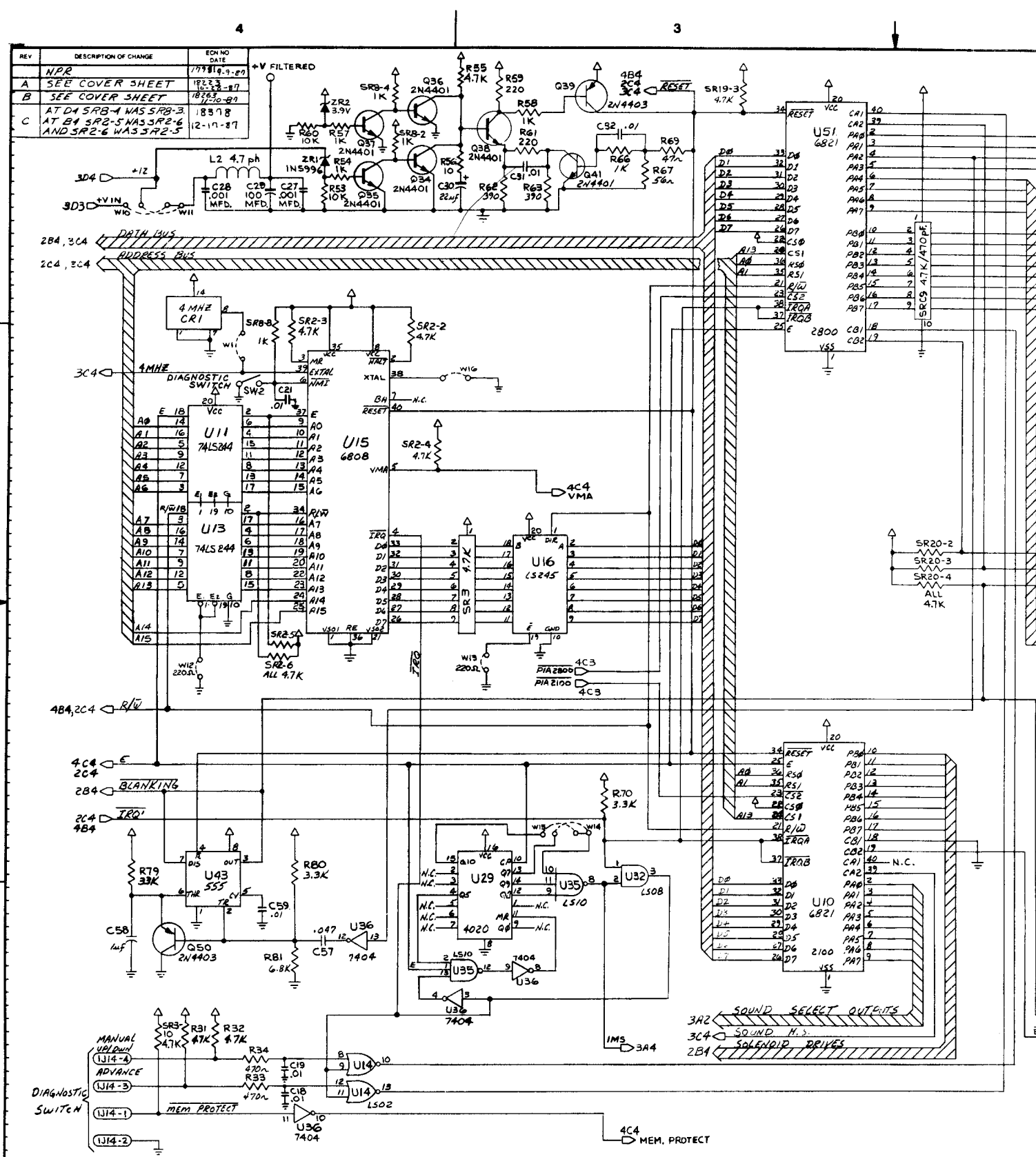
REV	DESCRIPTION OF CHANGE	ECN NO	DATE
	NPR	779119-9-87	
A	SEE COVER SHEET	18253-17	
B	SEE COVER SHEET	18253-21	
C	AT D4 SRB-4 WAS SRB-3 AT B4 SRB-5 WAS SRB-6 AND SRB-6 WAS SRB-5	18378 12-17-87	

D

C

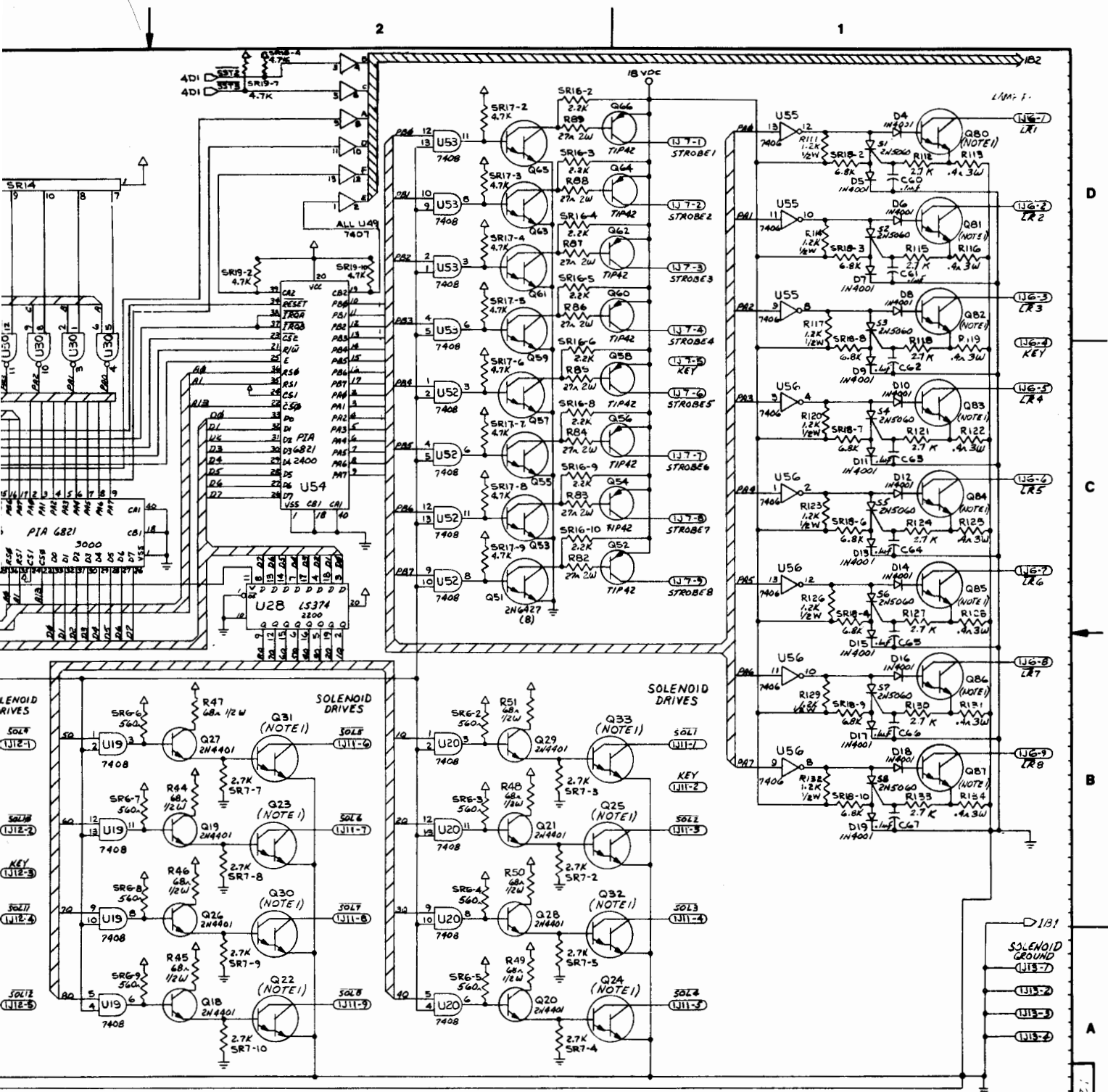
B

A

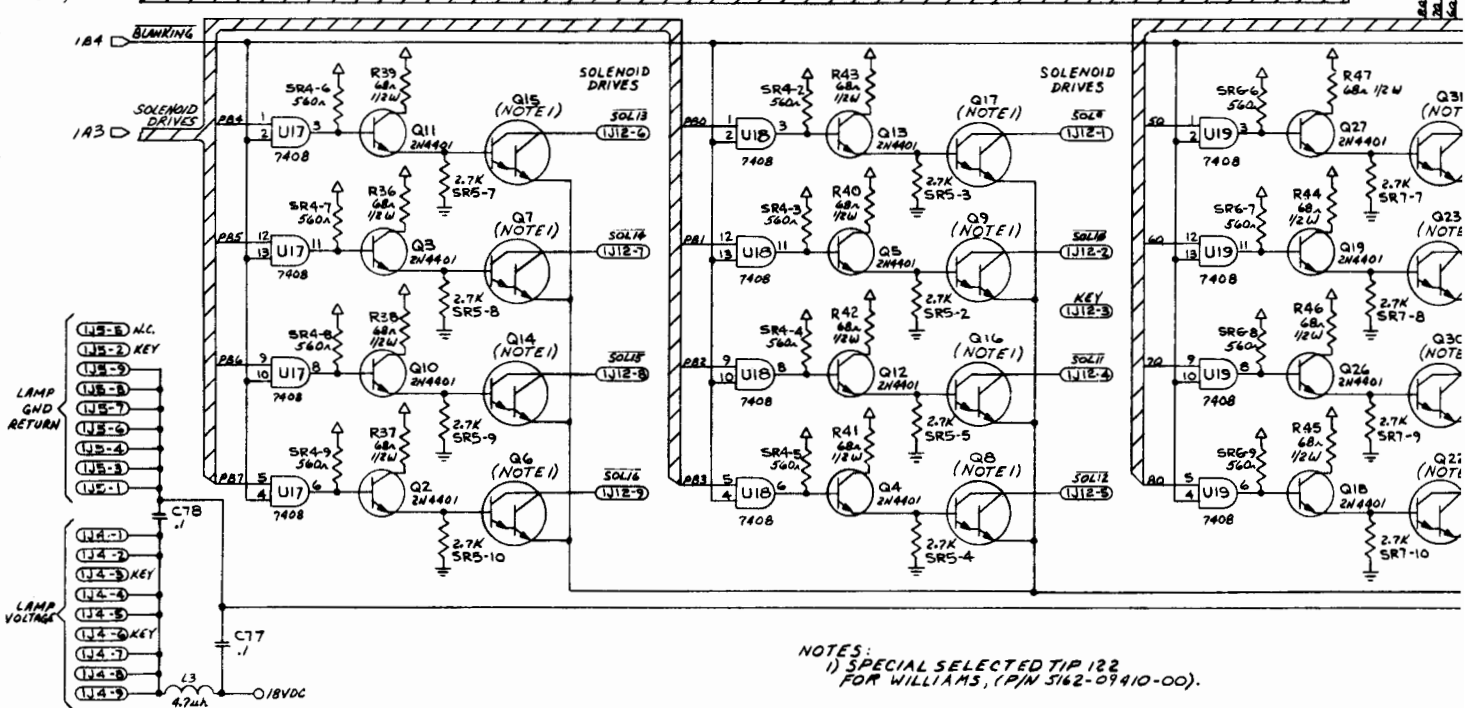
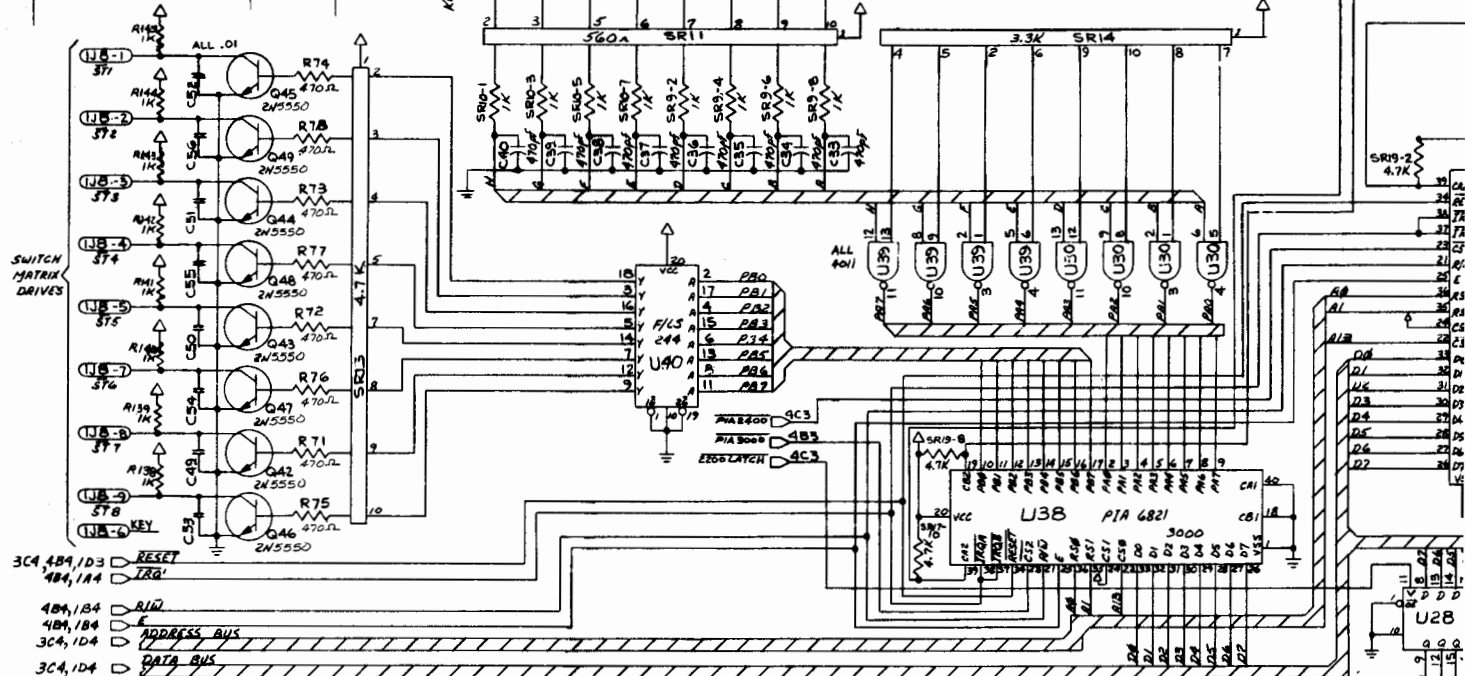


3A2 SOUND SELECT OUTPUTS
3C4 SOUND H.S.
2B1 SOLENOID DRIVES

System 11B CPU Schematic (16-9019, Sheet 1 of 4)

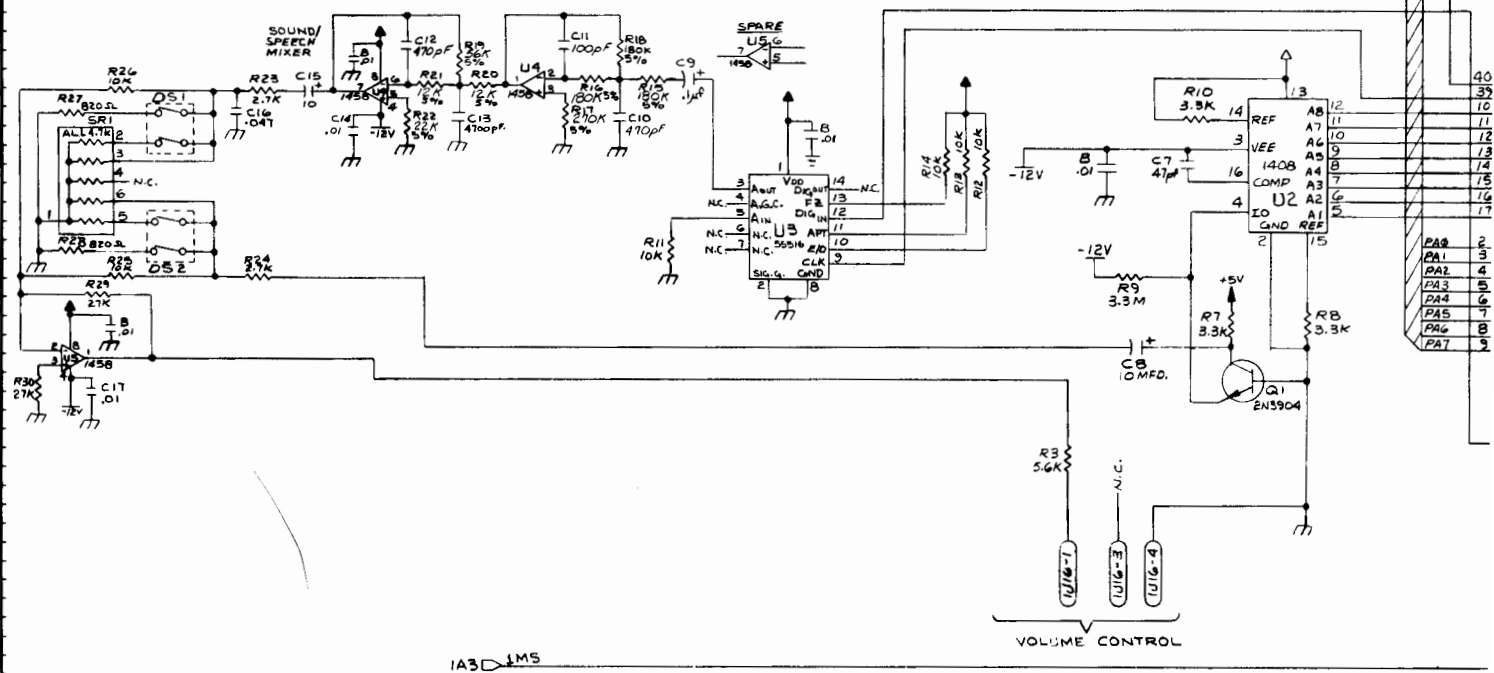
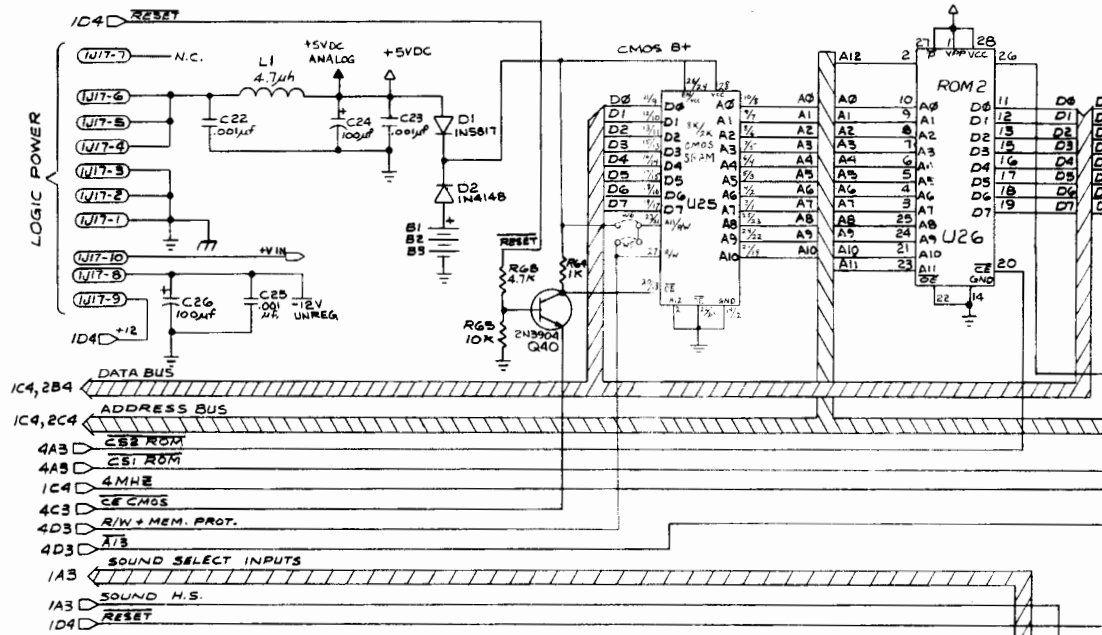


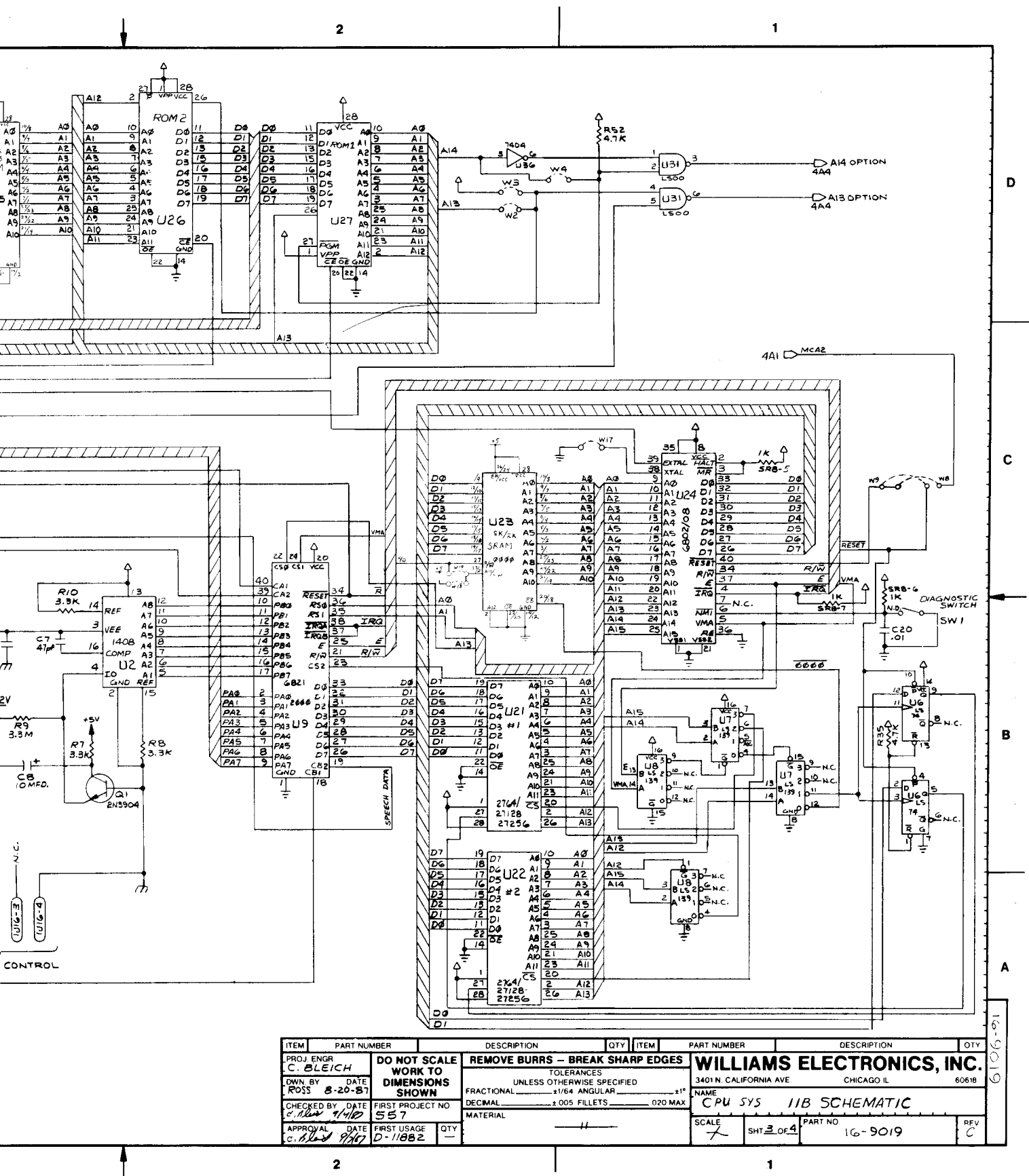
ITEM	PART NUMBER	DESCRIPTION	QTY	ITEM	PART NUMBER	DESCRIPTION	QTY
PROJ ENGR C. BLEICH		DO NOT SCALE WORK TO DIMENSIONS SHOWN		REMOVE BURRS - BREAK SHARP EDGES		WILLIAMS ELECTRONICS, INC.	
DWN BY DATE ROSS 8-20-87		TOLERANCES UNLESS OTHERWISE SPECIFIED		3401 N. CALIFORNIA AVE.		CHICAGO IL 60618	
CHECKED BY DATE G. BLANK 8/14/87		FRACTIONAL ±1/64 ANGULAR ±1°		NAME CPU SYS 11B SCHEMATIC			
FIRST PROJECT NO 557		DECIMAL ±.005 FILLETS .020 MAX		SCALE X		SHT 2 OF 4	
APPROVAL DATE C. BLANK 8/14/87		MATERIAL X		PART NO 16-9019		REV 0	

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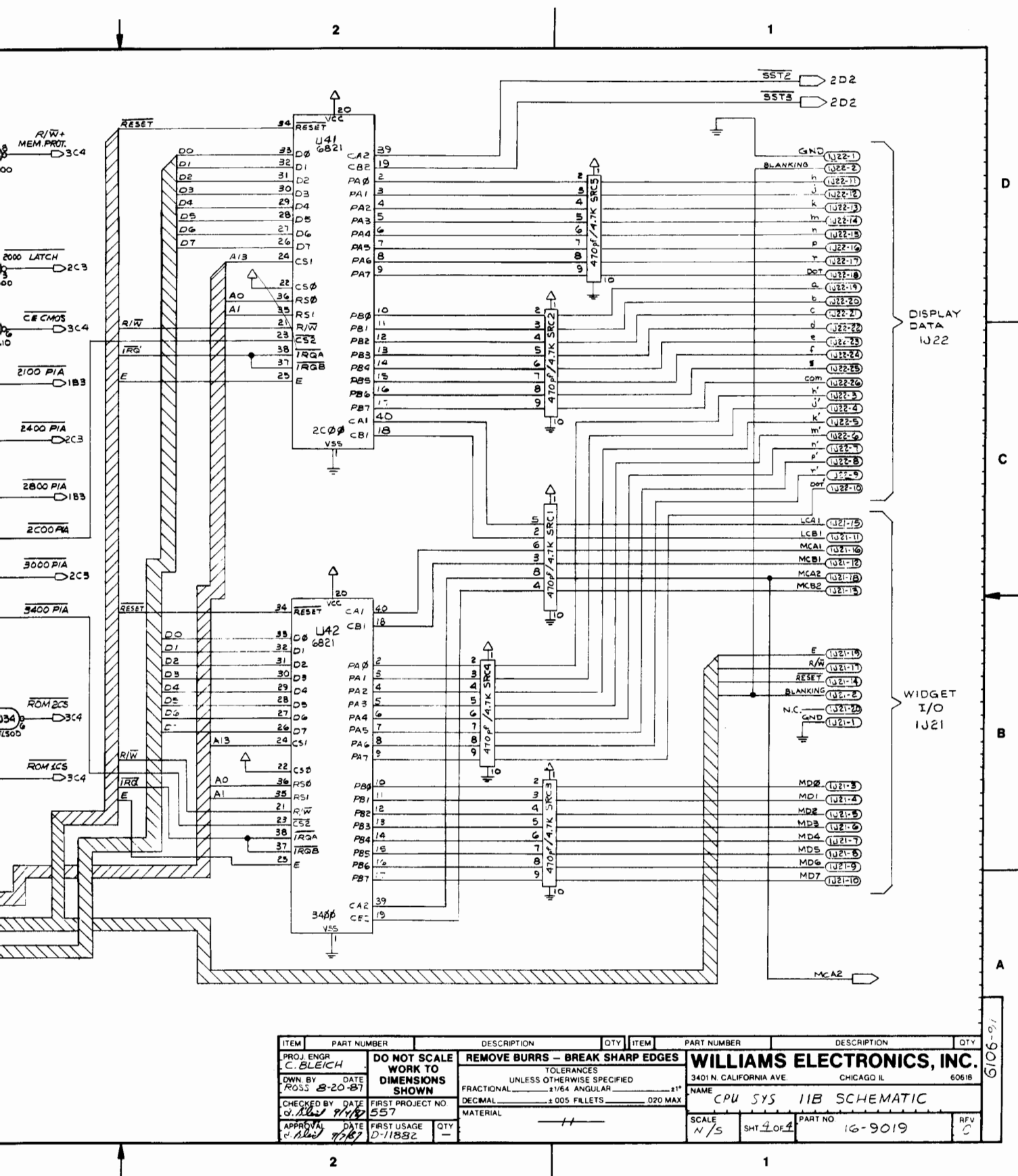
NOTES:
1) SPECIAL SELECTED TIP 122
FOR WILLIAMS, (P/N 5162-09410-00).

REV	DESCRIPTION OF CHANGE	ECN NO DATE
	N.P.R.	797819-7-87
A	SEE COVER SHEET	78-3-2-87
B	SEE COVER SHEET	78-8-8-87
C	AT C1 SRB-5 WAS SRB-4 DELETE SOUND SECTION @ LOCATION A3	18308 12-11-87





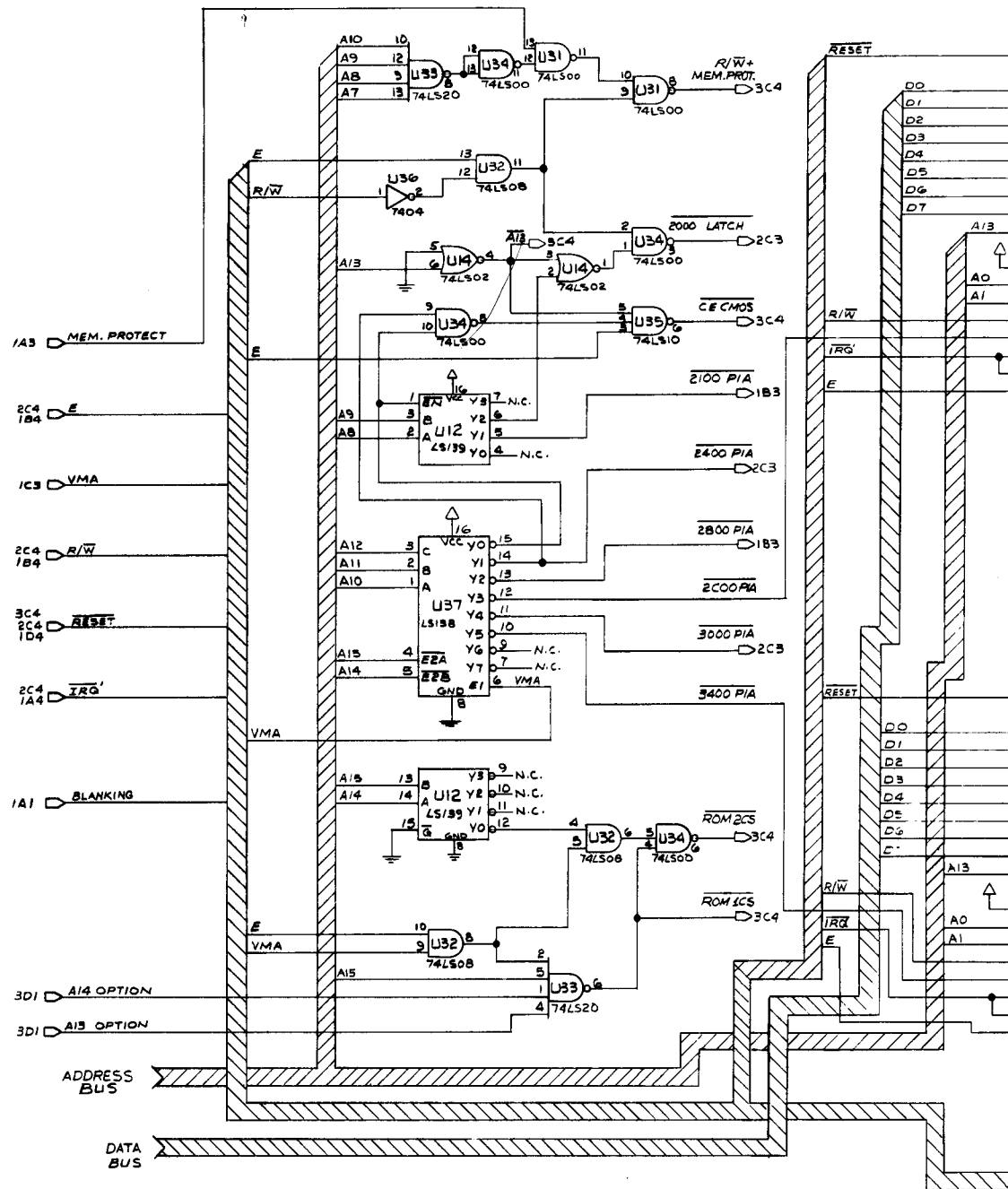
System 11B CPU Schematic (16-9019, Sheet 3 of 4)

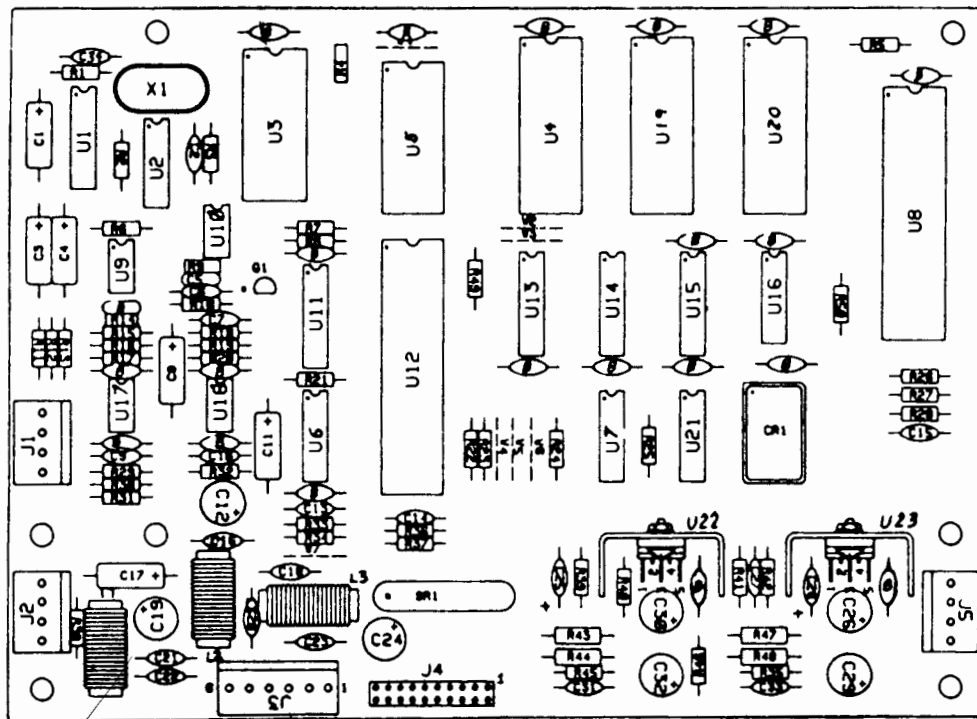


System 11B CPU Schematic (16-9019, Sheet 4 of 4)

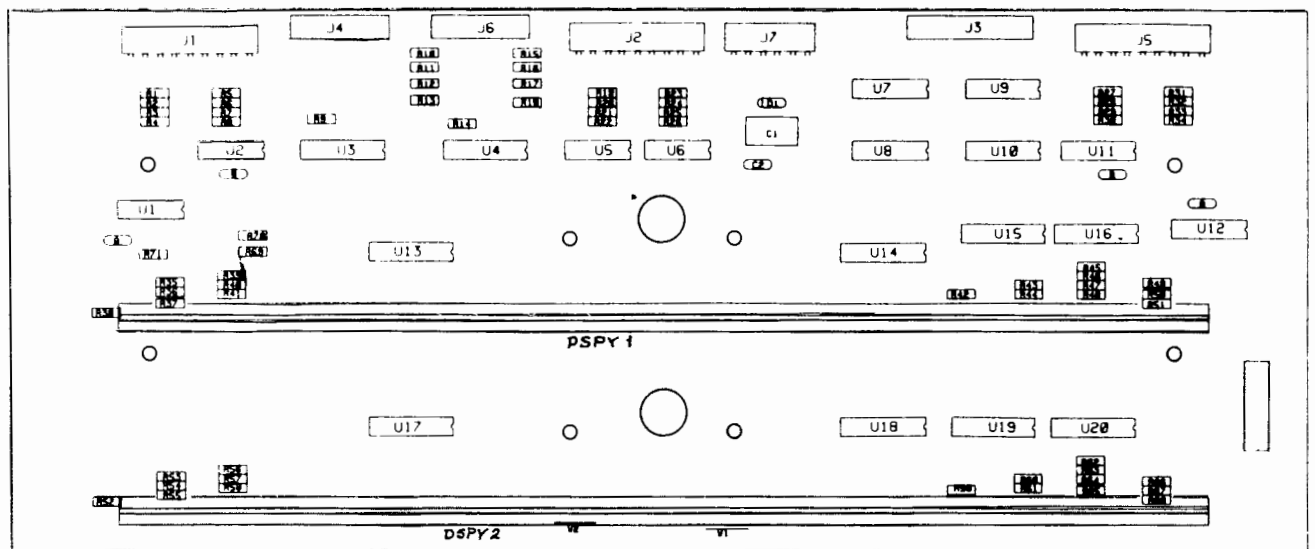
TAXI 72

REV	DESCRIPTION OF CHANGE	ECN NO	DATE
	N. P. R.	1798	7-87
A	SEE COVER SHEET	1822	8-87
B	SEE COVER SHEET	1823	8-87
C	SEE SHEET 1-3	1824	8-87



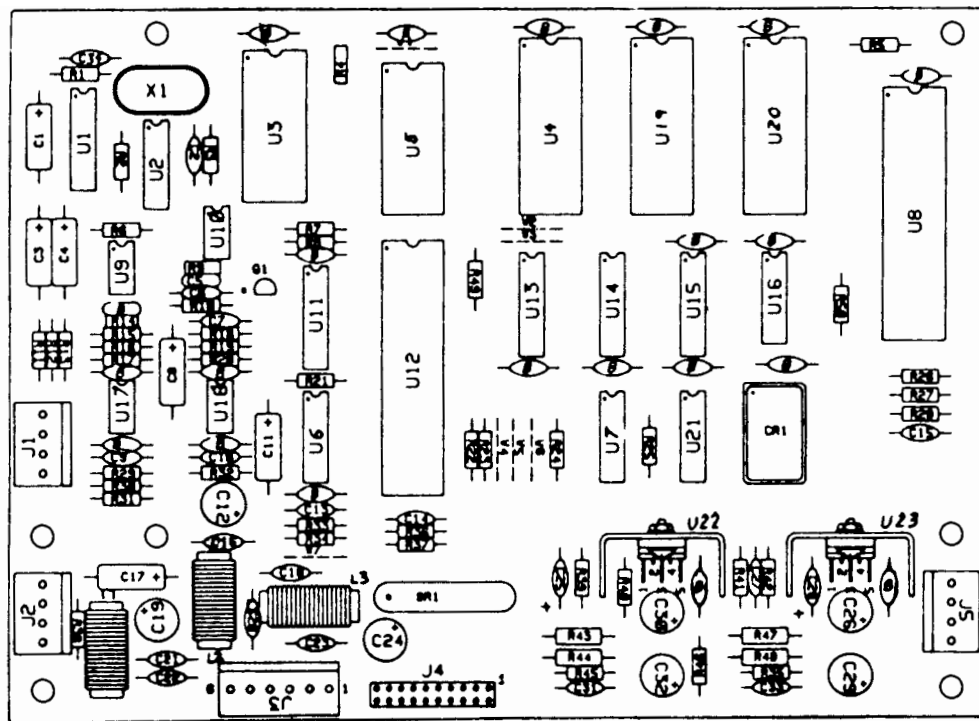


Audio Board Assembly
p/n D-11581-553

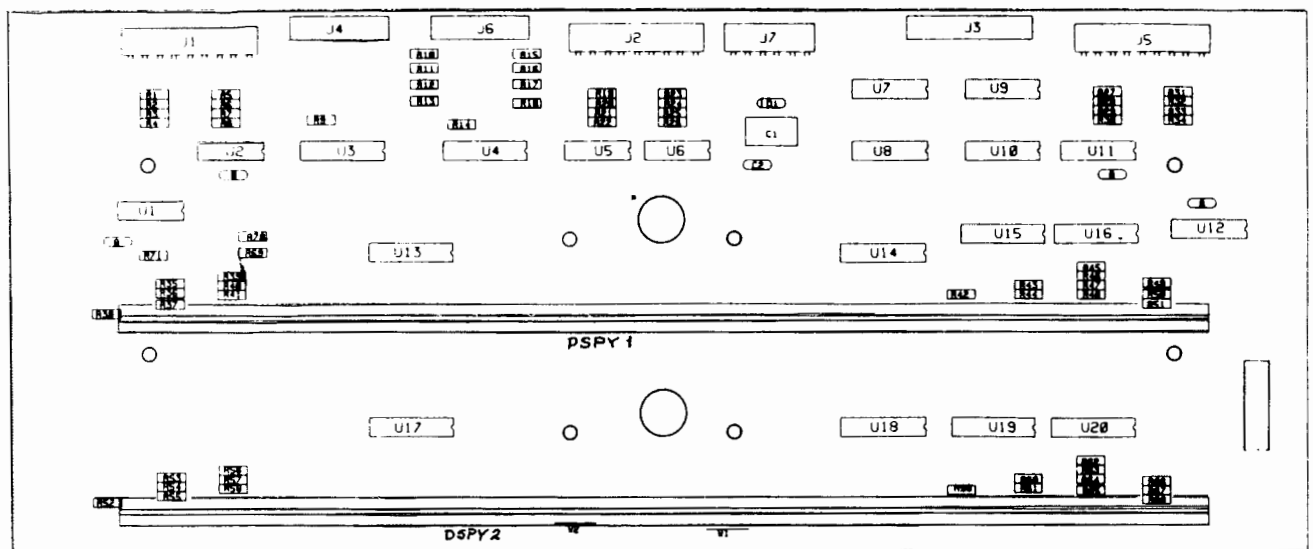


Master Display Board
p/n D-12232-2





Audio Board Assembly
p/n D-11581-553



Master Display Board
p/n D-12232-2

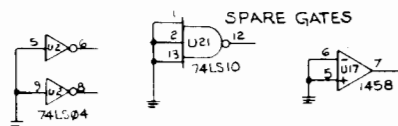
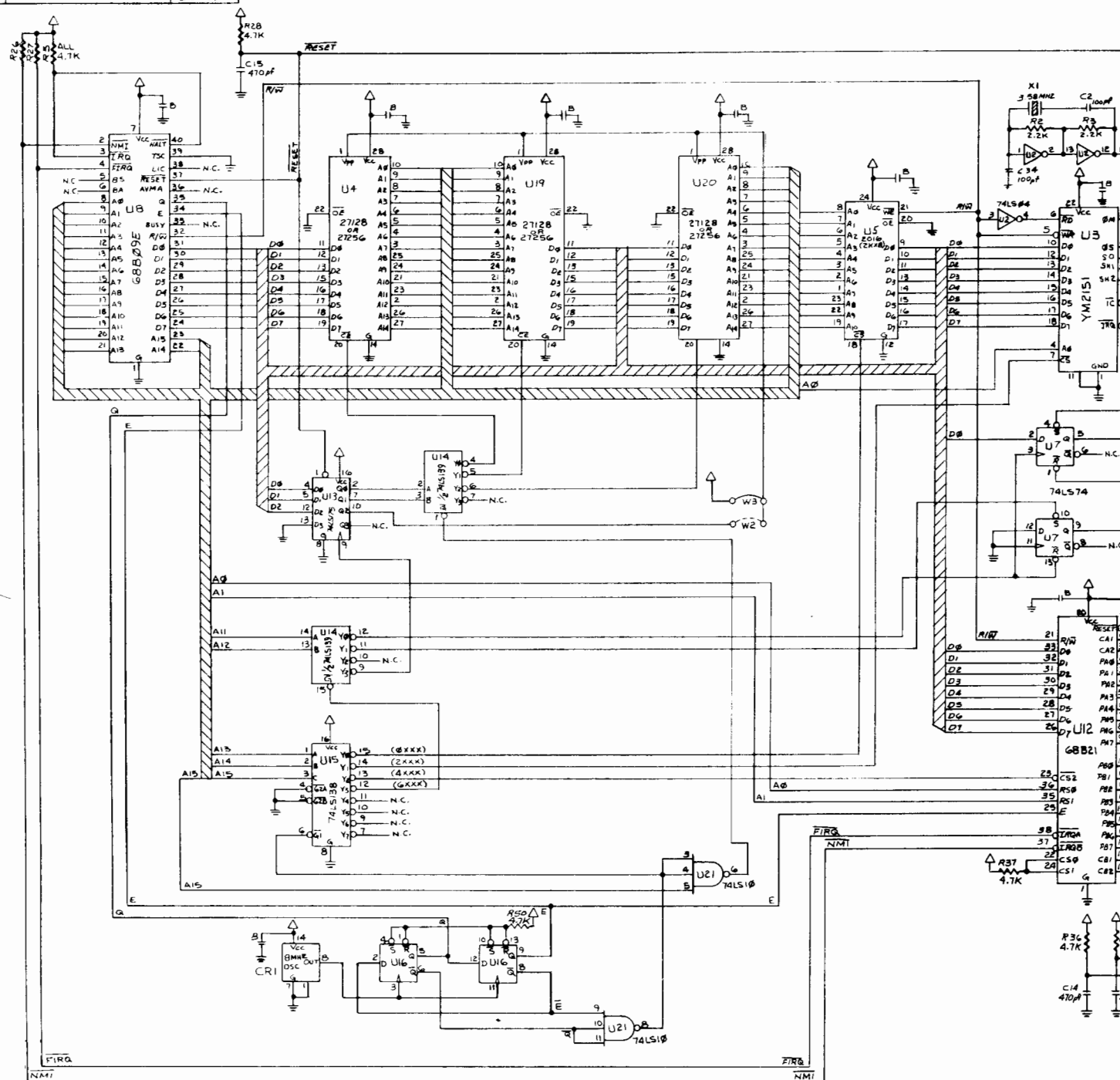
REV	DESCRIPTION OF CHANGE	ECN NO
1	N.P.R.	16726
2		2-17-87

D

C

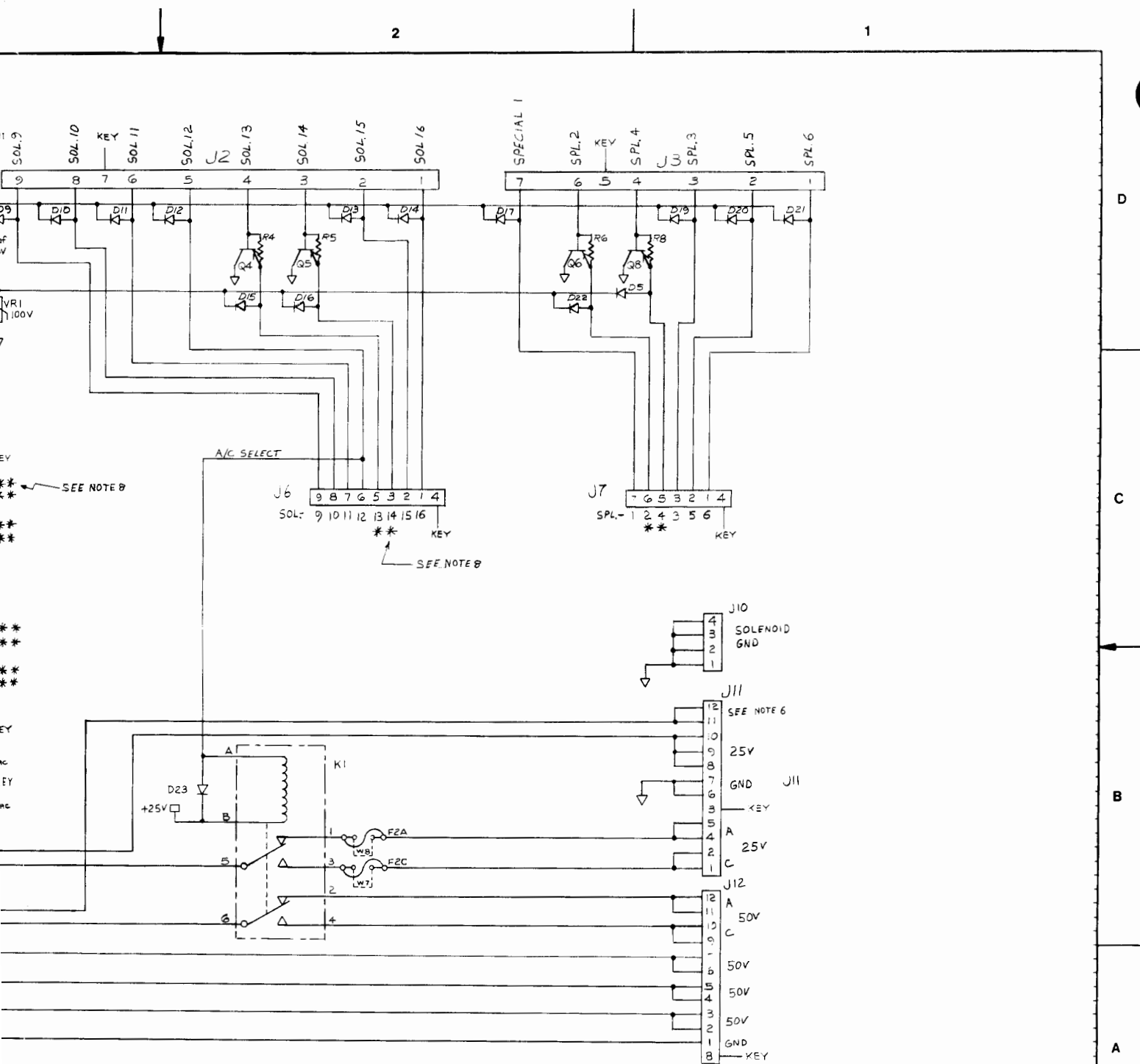
B

A



NOTES:

- ALL CAPACITORS WITH "B" ARE BYPASS AND HAVE A VALUE OF .01μF.
- LAST USED C39, R48, U23, W7, U5, L3.



ITEM	PART NUMBER	DESCRIPTION	QTY	ITEM	PART NUMBER	DESCRIPTION	QTY
PROJ ENGR K. DEGER		DO NOT SCALE WORK TO DIMENSIONS SHOWN		REMOVE BURRS - BREAK SHARP CORNERS & EDGES		TOLERANCES UNLESS OTHERWISE SPECIFIED DECIMAL .X .030 ANGULAR ±1/2° XXX .005 FRACTIONAL ±1/64	
OWN BY DATE ROSS 7-7-87		FIRST PROJECT NO 557		MATERIAL H		WILLIAMS ELECTRONICS, INC. 3401N. CALIFORNIA AVE CHICAGO IL 60618	
CHECKED BY DATE J. J. J. 8/1/87		FIRST USAGE 557-BB		SCALE N/S		NAME SCHEMATIC-AUX. PWR DR. R.	
APPROVAL DATE J. J. J. 8/1/87		QTY 1		SHT. 1 OF 1		PART NO 16-9015	
						REV 8	

TAXI 76

Aux Power Driver Board Schematic

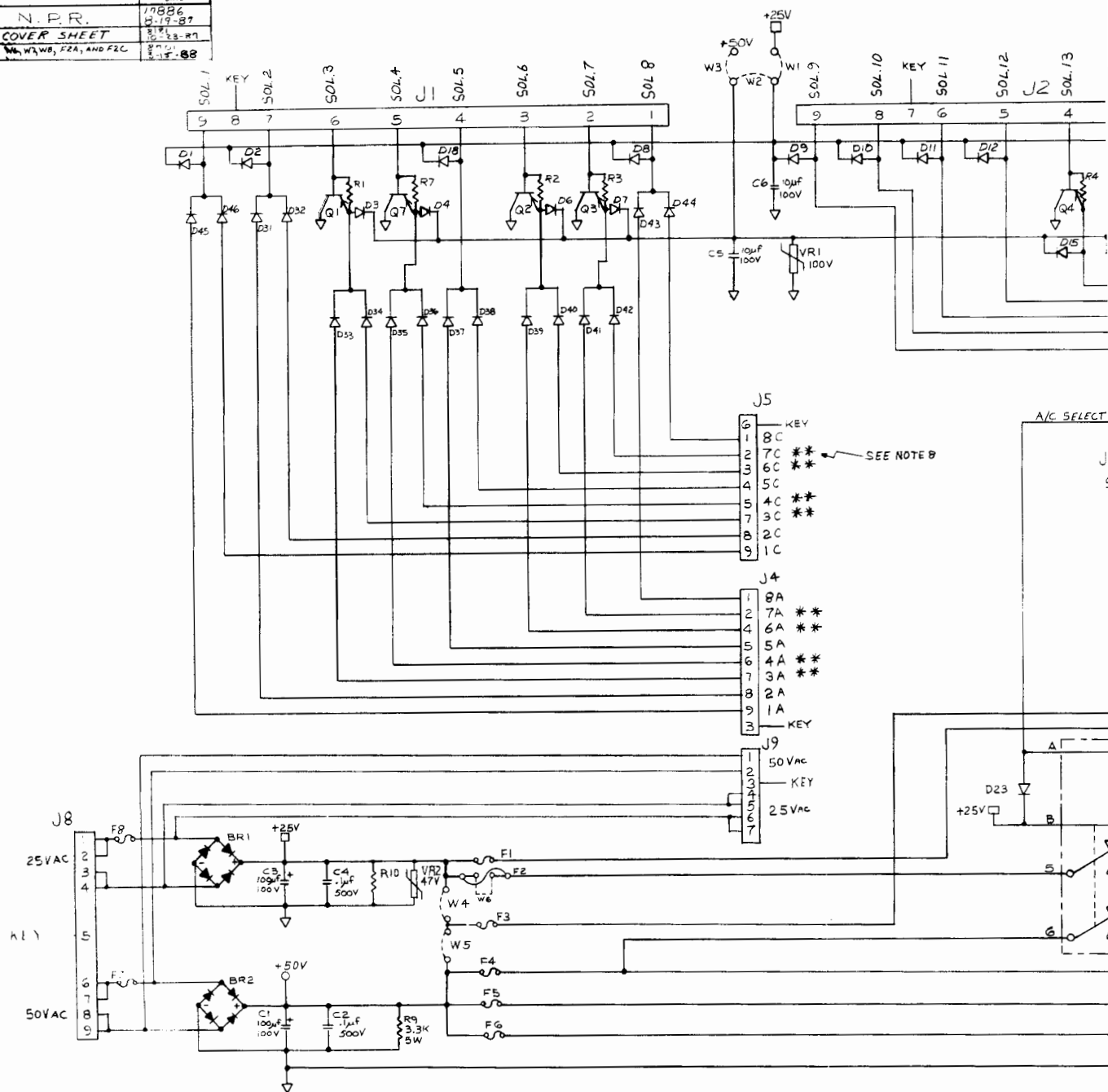
REV	DESCRIPTION OF CHANGE	ECN NO	DATE
	N. P. R.	17886	12-19-87
A	SEE COVER SHEET	81	12-19-87
B	ADDED W1, W2, W3, F2A, AND F2C	81	12-19-87

D

C

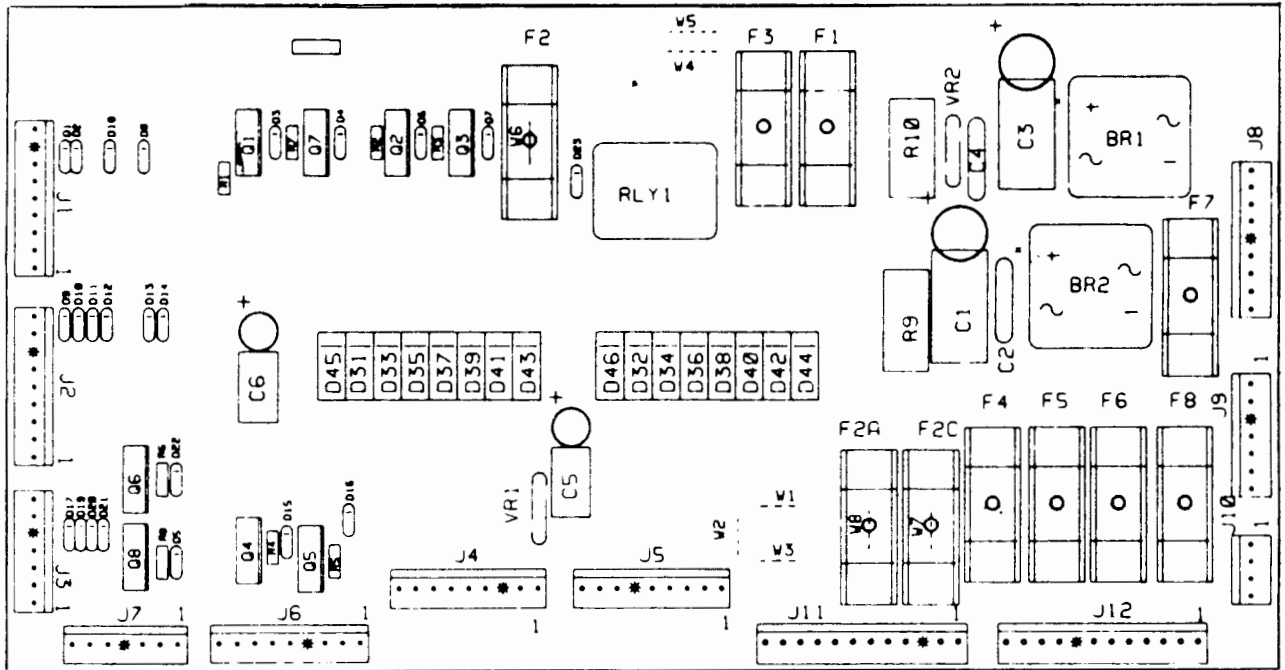
B

A

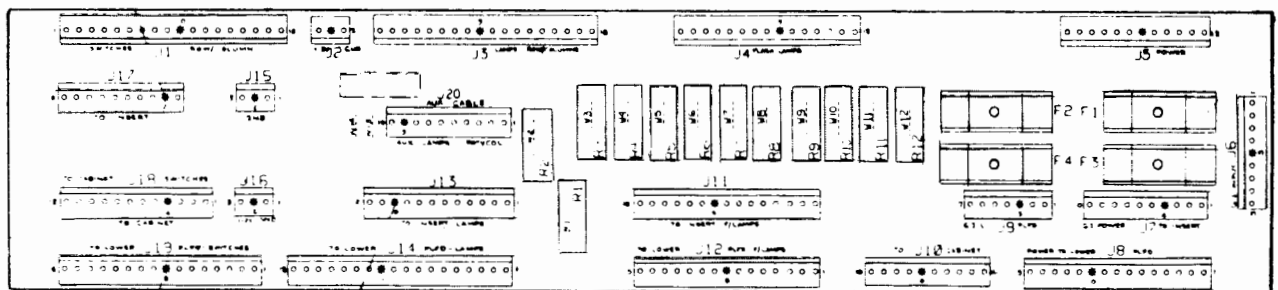


NOTES:

1. R1-R8, 220Ω 1/4 W
2. Q1-Q8, TIP-36C
3. D1-D25, 1N4003
4. D31-D46, MR501
5. BR1, BR2, 35A 250V
6. W1, W3, W4 JUMPERS SELECT COMBINATION OF 25V AND 50V COILS; W2, W3, W5 JUMPERS SELECT 50V COILS.
7. F1-F8, SEE APPROPRIATE ASSEMBLY FOR FUSE VALUES (D-11813-).
8. *, 50V COILS ONLY; **, 50V COIL OR FLASH LAMP ONLY.
9. VOLTAGES SPECIFIED UNDER FULL LOAD CONDITIONS.



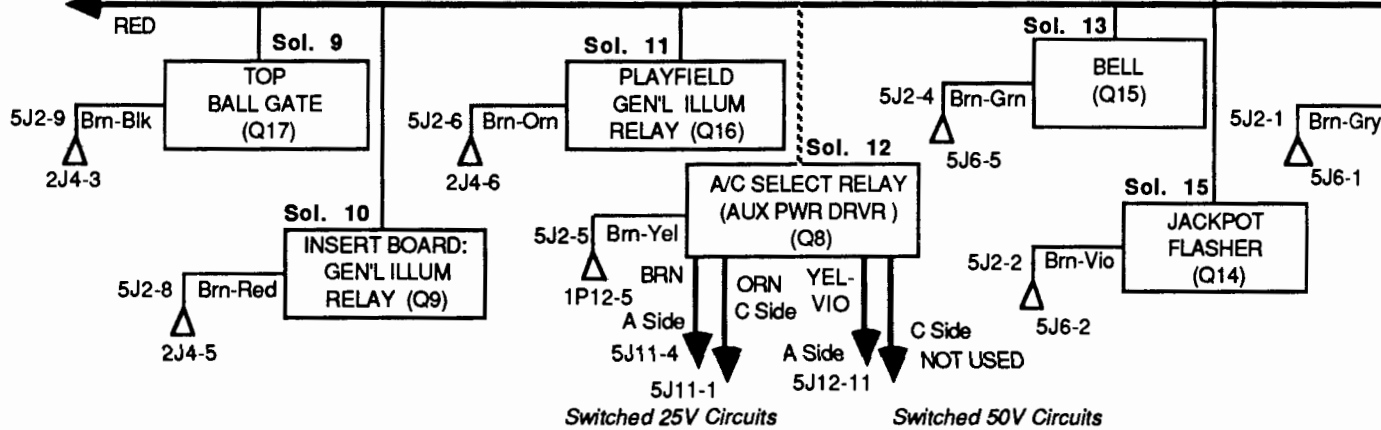
Aux Power Driver Unit Board
p/n D-12247-566



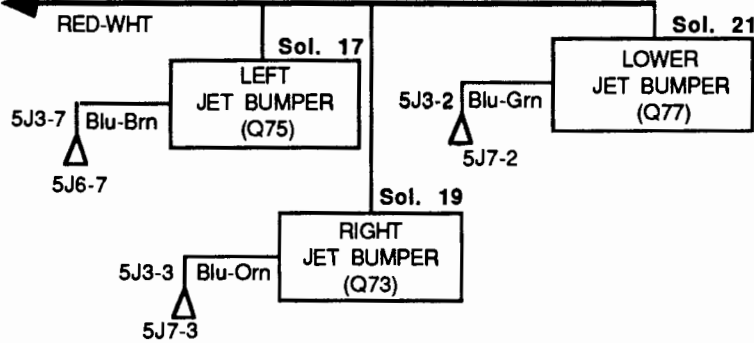
Backbox Interconnect Board
p/n D-12185-553



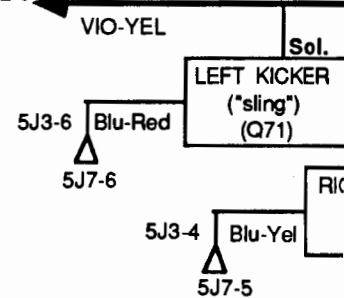
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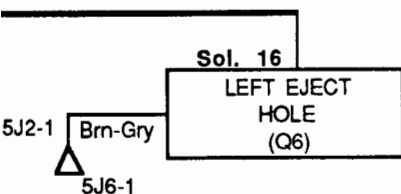


5J11-11 SPECIAL SOLENOIDS (25V)



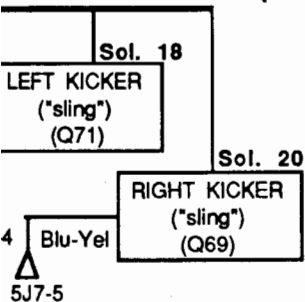
5J12-6 SPECIAL SOLENOIDS (25V)



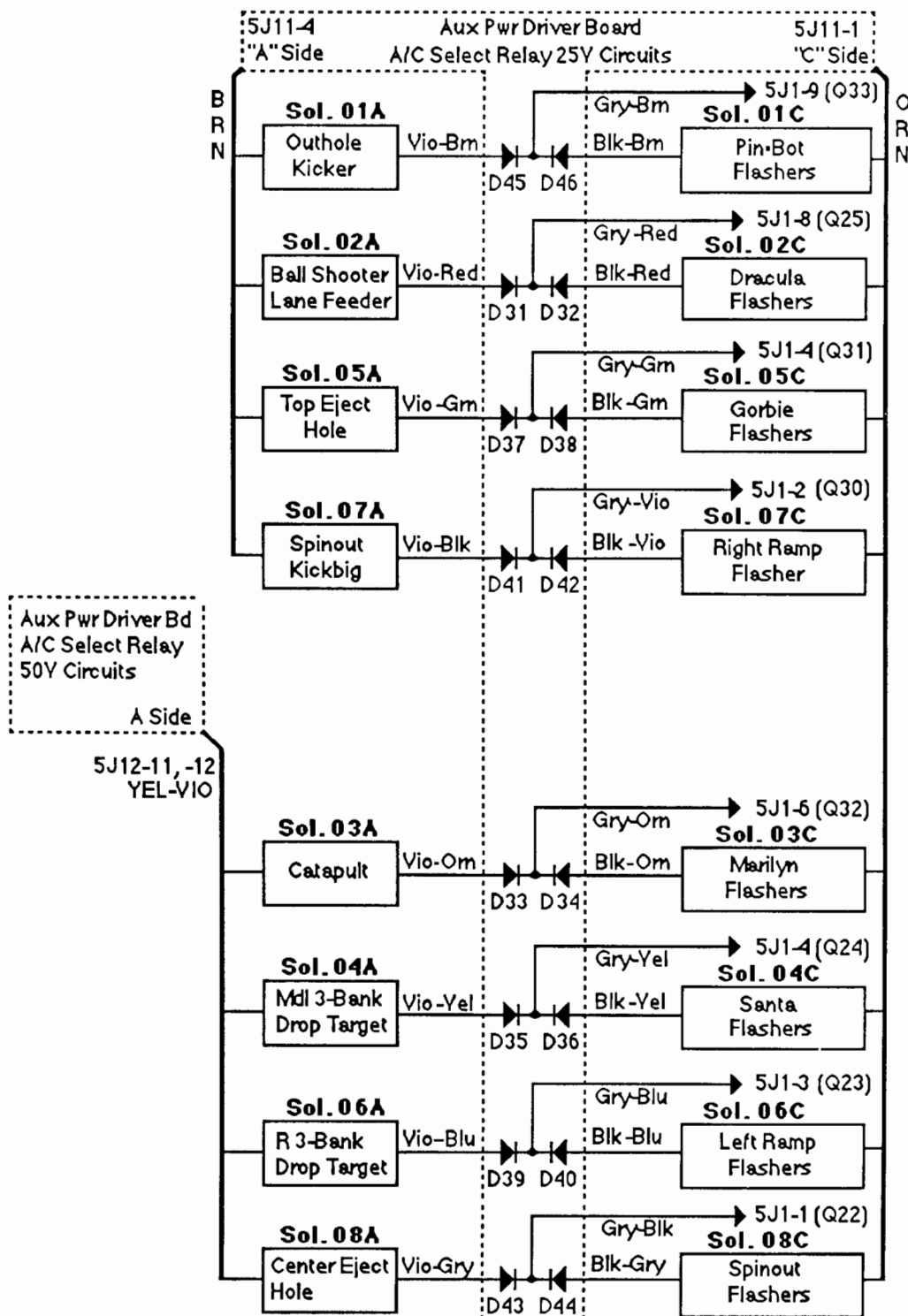


POT
HER
(4)

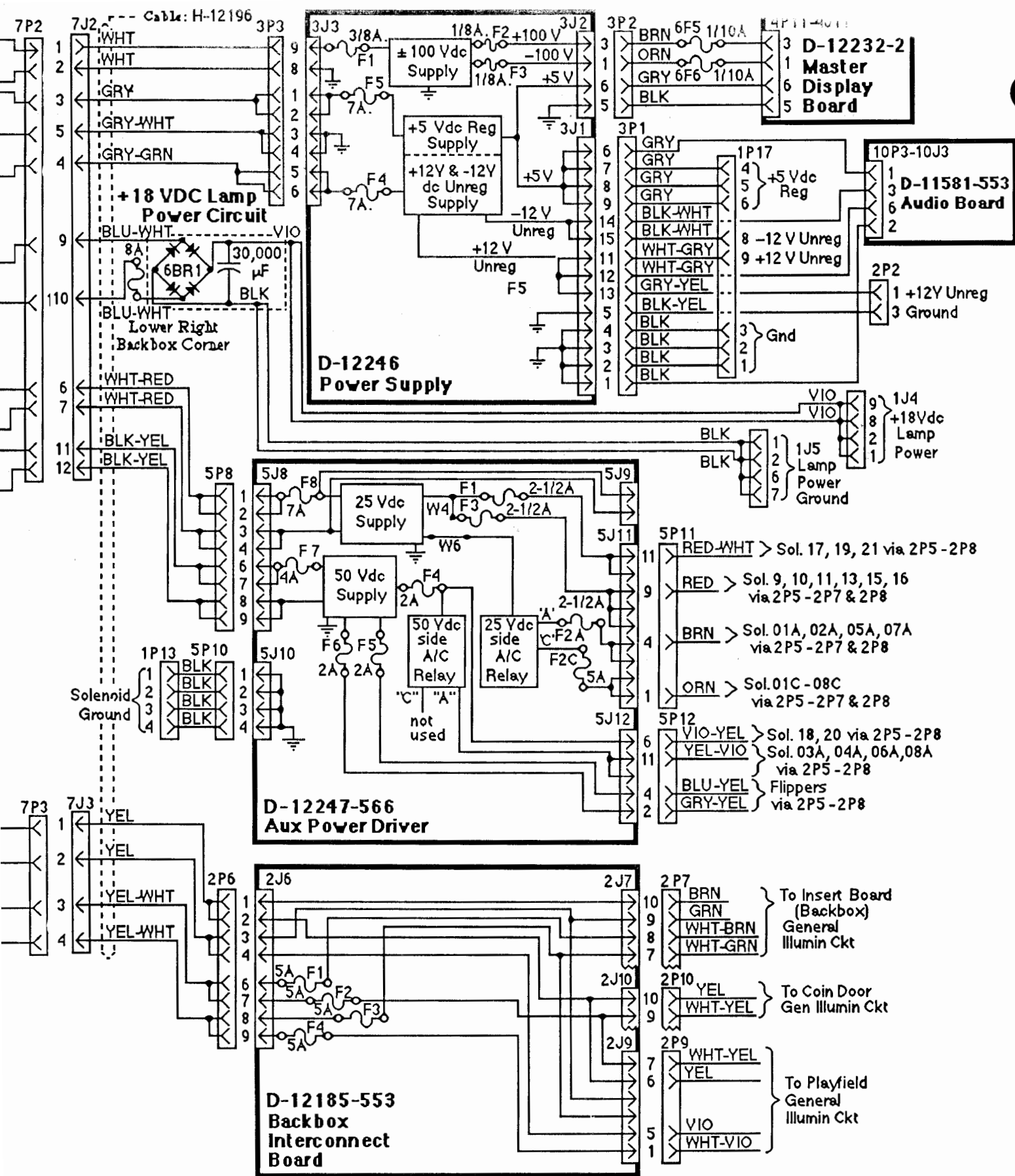
AL SOLENOIDS (50V)

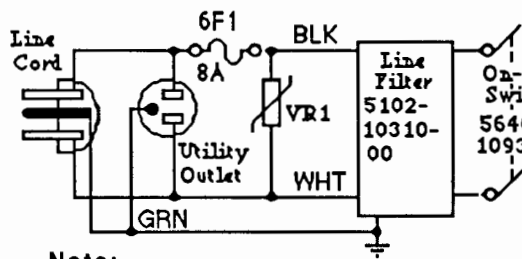


SWITCHED SOLENOIDS



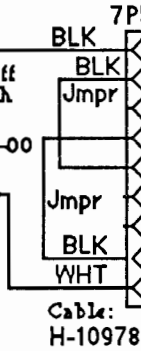
Controlled, Special, and Switched Solenoids



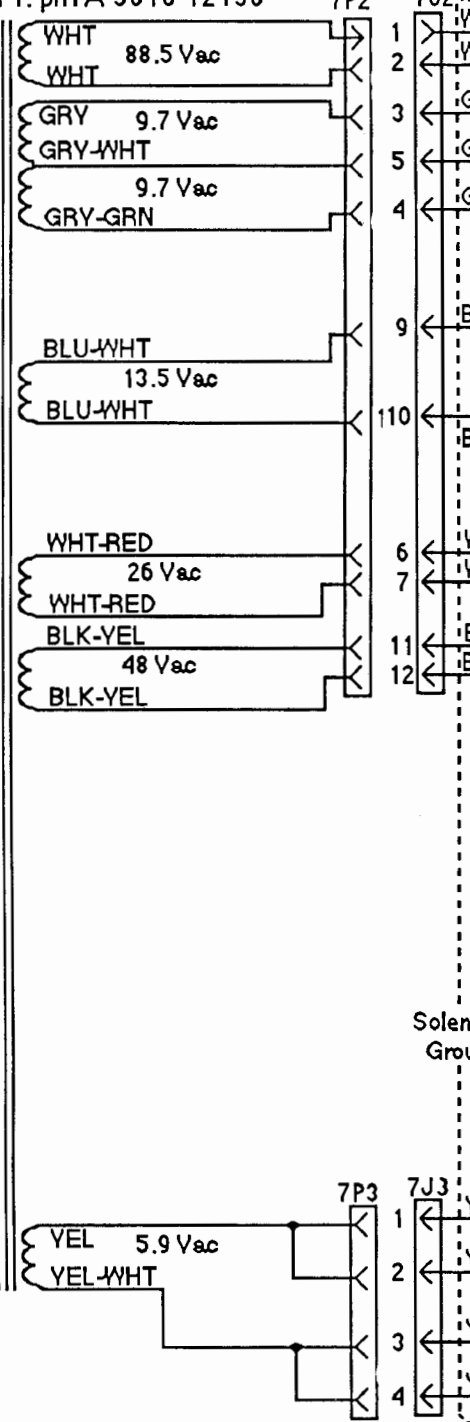


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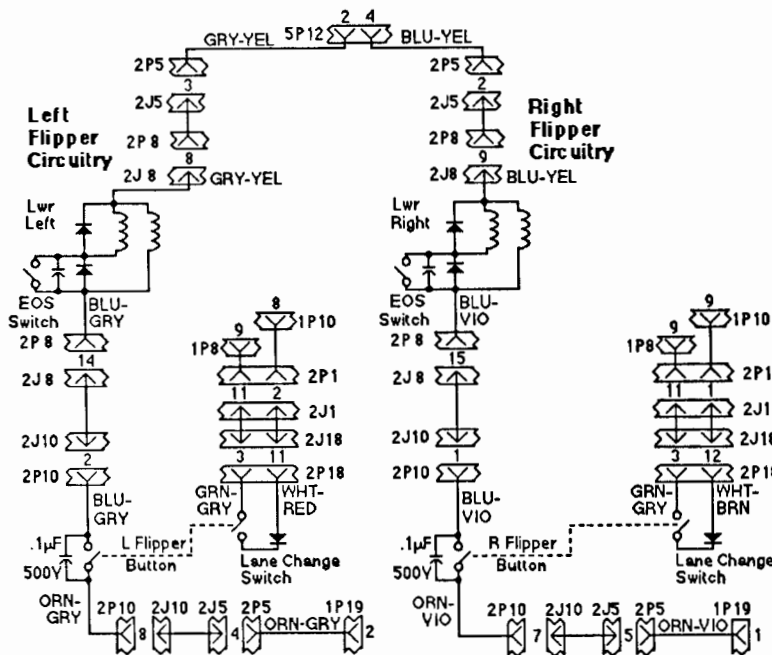
Transformer Jumpers shown are for 115 V ac.
See Transformer Jumper Chart for other
voltage jumper connections.



7T1: p/n A-5610-12136



TRANSFORMER JUMPER CHART		
206/218 VAC	230 VAC	103.5 VAC
<p>7P5</p> <p>BLK 1 2 6 9 3 5 4 8 7</p> <p>206V: 1-2, 6-9, 3-5, 4-8, 7-7</p> <p>218V: 1-2, 6-9, 3-5, 4-8, 7-7</p> <p>WHT 1 2 6 9 3 5 4 8 7</p>	<p>7P5</p> <p>BLK 1 2 6 9 3 5 4 8 7</p> <p>WHT 1 2 6 9 3 5 4 8 7</p>	<p>7P5</p> <p>BLK 1 2 6 9 3 5 4 8 7</p> <p>WHT 1 2 6 9 3 5 4 8 7</p>
FUSE (6F1): 4A, S-B	4A, S-B	8A, N-B
VARISTOR: 275V	275V	130V
<p>275V Varistor: 5017-09063-00</p> <p>130V Varistor: 5017-09044-00</p> <p>4A, S-B Fuse: 5731-06314-00 (for 220V)</p> <p>8A, N-B Fuse: 5730-09252-00 (for 115V)</p>		



INTERCONNECT BOARD INTERBOARD SIGNALS

Connector	Wire Color	Signal Designation/Description	Connector	Wire Color	Signal Designation/Description	Connector	Wire Color	Signal Designation/Description
2J1-1	WHT-BRN	Switch Row 1	2J2-1	GRY/YEL	CPU Power: +12 Vdc Unreg	2J12-1	BRN/BLU	Solenoid 14
2J1-2	WHT-RED	Switch Row 2	2J2-2	Key Pin	No Connection	2J12-2	BRN/ORG	Solenoid 11
2J1-3	WHT-ORG	Switch Row 3	2J2-3	BLK/YEL	Logic Ground	2J12-3	---	No Connection
2J1-4	WHT-YEL	Switch Row 4				2J12-4	BRN/BLK	Solenoid 9
2J1-5	WHT-GRN	Switch Row 5	2J3-1	YEL/GRY	Lamp Col 8 (Q51/52)	2J12-5	BRN/GRY	Solenoid 16
2J1-6	WHT-BLU	Switch Row 6	2J3-2	YEL/VIO	Lamp Col 7 (Q53/54)	2J12-6	BRN/VIO	Solenoid 15
2J1-7	WHT-VIO	Switch Row 7	2J3-3	YEL/BLU	Lamp Col 6 (Q55/56)	2J12-7	BLK/GR	Solenoid 08C
2J1-8	WHT-GRY	Switch Row 8	2J3-4	YEL/GRN	Lamp Col 5 (Q57/58)	2J12-8	Key Pin	No Connection
2J1-9	---	No Connection	2J3-5	YEL/BLK	Lamp Col 4 (Q59/60)	2J12-9	BLK/VIO	Solenoid 07C
2J1-10	Key Pin	No Connection	2J3-6	YEL/ORG	Lamp Col 3 (Q61/62)	2J12-10	BLK/BLU	Solenoid 06C
2J1-11	GRN-GRY	Switch Col 8 (Q46)	2J3-7	YEL/RED	Lamp Col 2 (Q63/64)	2J12-11	BLK/GRN	Solenoid 05C
2J1-12	GRN-VIO	Switch Col 7 (Q42)	2J3-8	YEL/BRN	Lamp Col 1 (Q65/66)	2J12-12	BLK/YEL	Solenoid 04C
2J1-13	GRN-BLU	Switch Col 6 (Q47)	2J3-9	Key Pin	No Connection	2J12-13	BLK/ORG	Solenoid 03C
2J1-14	GRN-BLK	Switch Col 5 (Q43)	2J3-10	---	No Connection	2J12-14	BLK/RED	Solenoid 02C
2J1-15	GRN-YEL	Switch Col 4 (Q48)	2J3-11	RED/GRY	Lamp Row 8 (Q87)	2J12-15	BLK/BRN	Solenoid 01C
2J1-16	GRN-ORG	Switch Col 3 (Q44)	2J3-12	RED/VIO	Lamp Row 7 (Q86)			
2J1-17	GRN-RED	Switch Col 2 (Q49)	2J3-13	RED/BLU	Lamp Row 6 (Q85)	2J14-1	RED/BRN	Lamp Row 1 (Q80)
2J1-18	GRN-BRN	Switch Col 1 (Q45)	2J3-14	RED/GRN	Lamp Row 5 (Q84)	2J14-2	RED/BLK	Lamp Row 2 (Q81)
			2J3-15	RED/YEL	Lamp Row 4 (Q83)	2J14-3	RED/ORG	Lamp Row 3 (Q82)
2J4-1	WHT/BRN	Solenoid 01C	2J3-16	RED/ORG	Lamp Row 3 (Q82)	2J14-4	RED/YEL	Lamp Row 4 (Q83)
2J4-2	WHT/RED	Solenoid 02C	2J3-17	RED/BLK	Lamp Row 2 (Q81)	2J14-5	RED/GRN	Lamp Row 5 (Q84)
2J4-3	WHT/ORG	Solenoid 03C	2J3-18	RED/BRN	Lamp Row 1 (Q80)	2J14-6	RED/BLU	Lamp Row 6 (Q85)
2J4-4	WHT/YEL	Solenoid 04C				2J14-7	RED/VIO	Lamp Row 7 (Q86)
2J4-5	WHT/GRN	Solenoid 05C	2J5-1	RED/WHT	+50 Vdc / Sol. Power	2J14-8	RED/GRY	Lamp Row 8 (Q87)
2J4-6	WHT/BLU	Solenoid 06C	2J5-2	BLU/YEL	+50 Vdc / Flippers	2J14-9	---	No Connection
2J4-7	WHT/VIO	Solenoid 07C	2J5-3	GRY/YEL	+50 Vdc / Flippers	2J14-10	---	No Connection
2J4-8	WHT/GRY	Solenoid 08C	2J5-4	ORG/GRY	Flipper Ground	2J14-11	Key Pin	No Connection
2J4-9	Key Pin	No Connection	2J5-5	ORG/VIO	Flipper Ground	2J14-12	YEL/RED	Lamp Col 2 (Q63/64)
2J4-10	BRN/VIO	Solenoid 15	2J5-6	---	No Connection	2J14-13	YEL/ORG	Lamp Col 3 (Q61/62)
2J4-11	BRN/GRY	Solenoid 16	2J5-7	Key Pin	No Connection	2J14-14	YEL/BLK	Lamp Col 4 (Q59/60)
2J4-12	BRN/BLK	Solenoid 9	2J5-8	RED	+25 Vdc / Sol. Power	2J14-15	YEL/GRN	Lamp Col 5 (Q57/58)
2J4-13	BRN/RED	Solenoid 10	2J5-9	ORG	+25 Vdc / Sol. Power "C"	2J14-16	YEL/BLU	Lamp Col 6 (Q55/56)
2J4-14	BRN/ORG	Solenoid 11	2J5-10	VIO/YEL	+50 Vdc / Sol. Power	2J14-17	---	No Connection
2J4-15	BRN/BLU	Solenoid 14	2J5-11	YEL/VIO	+50 Vdc / Sol. Power "A"	2J14-18	YEL/GRY	Lamp Col 8 (Q51/52)
			2J5-12	BRN	+25 Vdc / Sol. Power "A"			
2J6-1	YEL	Transformer: 6V ac	2J7-1	---	No Connection	2J19-1	GRN/RED	Switch Col 2 (Q49)
2J6-2	YEL	Transformer: 6V ac	2J7-2	---	No Connection	2J19-2	GRN/ORG	Switch Col 3 (Q44)
2J6-3	YEL	Transformer: 6V ac	2J7-3	---	No Connection	2J19-3	GRN/YEL	Switch Col 4 (Q48)
2J6-4	YEL	Transformer: 6V ac	2J7-4	Key Pin	No Connection	2J19-4	GRN/BLK	Switch Col 5 (Q43)
2J6-5	Key Pin	No Connection	2J7-5	ORG	+25 Vdc / Sol. Power "C"	2J19-5	GRN/BLU	Switch Col 6 (Q47)
2J6-6	YEL/WHT	Transformer: 6V ac	2J7-6	RED	+25 Vdc / Sol. Power	2J19-6	GRN/VIO	Switch Col 7 (Q42)
2J6-7	YEL/WHT	Transformer: 6V ac	2J7-7	WHT/GRN	Solenoid 05C	2J19-7	---	No Connection
2J6-8	YEL/WHT	Transformer: 6V ac	2J7-8	WHT/BRN	Solenoid 01C	2J19-8	Key Pin	No Connection
2J6-9	YEL/WHT	Transformer: 6V ac	2J7-9	GRN	Gen Illum Power: 6V ac			
			2J7-10	BRN	+25 Vdc / Sol. Power "A"			
2J8-1	BRN	+25 Vdc / Sol. Power "A"	2J9-1	WHT/VIO	Gen Illum Power: 6V ac			
2J8-2	YEL/VIO	+50 Vdc / Sol. Power "A"	2J9-2	---	No Connection			
2J8-3	VIO/YEL	+50 Vdc / Sol. Power	2J9-3	Key Pin	No Connection			
2J8-4	ORG	+25 Vdc / Sol. Power "C"	2J9-4	---	No Connection			
2J8-5	RED	+25 Vdc / Sol. Power	2J9-5	VIO	Gen Illum Power: 6V ac			
2J8-6	---	No Connection	2J9-6	YEL	Transformer: 6V ac			
2J8-7	---	No Connection	2J9-7	WHT/YEL	Gen Illum Power: 6V ac			
2J8-8	GRY/YEL	+50 Vdc / Flippers						
2J8-9	BLU/YEL	+50 Vdc / Flippers	2J11-1	---	No Connection			
2J8-10	KeyPin	No Connection	2J11-2	---	No Connection			
2J8-11	RED/WHT	+50 Vdc / Sol. Power	2J11-3	BRN/RED	Solenoid 10			
2J8-12	---	No Connection	2J11-4	---	No Connection			
2J8-13	---	No Connection	2J11-5	---	No Connection			
2J8-14	BLU/GRY	Lwr L Flipper Switch	2J11-6	BRN/VIO	Solenoid 15			
2J8-15	BLU/VIO	Lwr R Flipper Switch	2J11-7	---	No Connection			
			2J11-8	BLK/VIO	Solenoid 07C			
2J10-1	BLU/VIO	Lwr R Flipper Switch	2J11-9	Key Pin	No Connection			
2J10-2	BLU/GRY	Lwr L Flipper Switch	2J11-10	BLK/BLU	Solenoid 06C			
2J10-3			2J11-11	BLK/GRN	Solenoid 05C			
2J10-4			2J11-12	BLK/YEL	Solenoid 04C			
2J10-5	---	No Connection	2J11-13	BLK/ORG	Solenoid 03C			
2J10-6	Key Pin	No Connection	2J11-14	BLK/RED	Solenoid 02C			
2J10-7	---	No Connection	2J11-15	BLK/BRN	Solenoid 01C			
2J10-8	---	No Connection						
2J10-9	WHT/YEL	Gen Illum Power: 6V ac						
2J10-10	YEL	Transformer: 6V ac						

RD INTERBOARD SIGNALS

continued)

<u>Description</u>	<u>Connector</u>	<u>Wire Color</u>	<u>Signal Designation/Description</u>
2J13-1	RED/BRN	Lamp Row 1 (Q80)	
2J13-2	RED/BLK	Lamp Row 2 (Q81)	
2J13-3	RED/ORG	Lamp Row 3 (Q82)	
2J13-4	RED/YEL	Lamp Row 4 (Q83)	
2J13-5	RED/GRN	Lamp Row 5 (Q84)	
2J13-6	RED/BLU	Lamp Row 6 (Q85)	
2J13-7	RED/VIO	Lamp Row 7 (Q86)	
2J13-8	RED/GRY	Lamp Row 8 (Q87)	
2J13-9	YEL/BRN	Lamp Col 1 (Q65/66)	
2J13-10	YEL/BLU	Lamp Col 6 (Q55/56)	
2J13-11	YEL/VIO	Lamp Col 7 (Q53/54)	
2J13-12	YEL/GRY	Lamp Col 8 (Q51/52)	
2J15	Not Applicable		
2J16-1	BLK/YEL	Logic Ground	
2J16-2	Key Pin	No Connection	
2J16-3	GRY/YEL	CPU: Power: +12 Vdc Unreg	
2J17	Not Applicable		
2J18-1	GRN/BRN	Switch Col 1 (Q45)	
2J18-2	---	No Connection	
2J18-3	GRN/GRY	Switch Col 8 (Q46)	
2J18-4	Key Pin	No Connection	
2J18-5	WHT/GRY	Switch Row 8	
2J18-6	WHT/VIO	Switch Row 7	
2J18-7	WHT/BLU	Switch Row 6	
2J18-8	WHT/GRN	Switch Row 5	
2J18-9	WHT/YEL	Switch Row 4	
2J18-10	WHT/ORG	Switch Row 3	
2J18-11	WHT/RED	Switch Row 2	
2J18-12	WHT/BRN	Switch Row 1	
2J20	Not Applicable		
2J19-9	WHT/GRY	Switch Row 8	
2J19-10	WHT/VIO	Switch Row 7	
2J19-11	WHT/BLU	Switch Row 6	
2J19-12	WHT/GRN	Switch Row 5	
2J19-13	WHT/YEL	Switch Row 4	
2J19-14	WHT/ORG	Switch Row 3	
2J19-15	WHT/RED	Switch Row 2	
2J19-16	WHT/BRN	Switch Row 1	

AUX POWER DRIVER INTERBOARD SIGNALS

<u>Connector</u>	<u>Wire Color</u>	<u>Signal Designation/Description</u>	<u>Connector</u>	<u>Wire Color</u>	<u>Signal Designation/Description</u>
5J1-1	GRY-BLK	CPU: Solenoid 8 (Q22) / 1J11-9	5J2-1	BRN-GRY	CPU: Solenoid 16 (Q6) / 1J12-1
5J1-2	GRY-VIO	CPU: Solenoid 7 (Q30) / 1J11-8	5J2-2	BRN-VIO	CPU: Solenoid 15 (Q14) / 1J12-2
5J1-3	GRY-BLU	CPU: Solenoid 6 (Q23) / 1J11-7	5J2-3	BRN/BLU	CPU: Solenoid 14 (Q7) / 1J12-7
5J1-4	GRY-GRN	CPU: Solenoid 5 (Q31) / 1J11-6	5J2-4	---	No Connection
5J1-5	GRY-YEL	CPU: Solenoid 4 (Q24) / 1J11-5	5J2-5	BRN-YEL	CPU: Solenoid 12 (Q15) / 1J12-5
5J1-6	GRY-ORG	CPU: Solenoid 3 (Q32) / 1J11-4	5J2-6	BRN-ORG	CPU: Solenoid 11 (Q16) / 1J12-4
5J1-7	GRY-RED	CPU: Solenoid 2 (Q25) / 1J11-3	5J2-7	Key Pin	No Connection
5J1-8	Key Pin	No Connection	5J2-8	BRN-RED	CPU: Solenoid 10 (Q9) / 1J12-2
5J1-9	GRY-BRN	CPU: Solenoid 1 (Q33) / 1J11-1	5J2-9	BRN-BLK	CPU: Solenoid 9 (Q17) / 1J12-1
5J3-1	BLU-BLK	CPU: Spl Solnd 6 (Q79) / 1J19-9	5J4-1	VIO-GRY	Solenoid 08A
5J3-2	BLU-GRN	CPU: Spl Solnd 5 (Q77) / 1J19-8	5J4-2	VIO-BLK	Solenoid 07A
5J3-3	BLU-ORN	CPU: Spl Solnd 3 (Q73) / 1J19-3	5J4-3	Key Pin	No Connection
5J3-4	BLU-YEL	CPU: Spl Solnd 4 (Q69) / 1J19-6	5J4-4	VIO-BLU	Solenoid 06A
5J3-5	Key Pin	No Connection	5J4-5	VIO-GRN	Solenoid 05A
5J3-6	BLU-RED	CPU: Spl Solnd 2 (Q71) / 1J19-4	5J4-6	VIO-YEL	Solenoid 04A
5J3-7	BLU-BRN	CPU: Spl Solnd 1 (Q75) / 1J19-7	5J4-7	VIO-ORN	Solenoid 03A
5J5-1	WHT-GRY	Solenoid 08C	5J4-8	VIO-RED	Solenoid 02A
5J5-2	WHT-VIO	Solenoid 07C	5J4-9	VIO-BRN	Solenoid 01A
5J5-3	WHT-BLU	Solenoid 06C	5J6-1	BRN-GRY	Solenoid 16
5J5-4	WHT-GRN	Solenoid 05C	5J6-2	BRN-VIO	Solenoid 15
5J5-5	WHT-YEL	Solenoid 04C	5J6-3	BRN-BLU	Solenoid 14
5J5-6	Key Pin	No Connection	5J6-4	Key Pin	No Connection
5J5-7	WHT-ORN	Solenoid 03C	5J6-5	---	Solenoid 13
5J5-8	WHT-RED	Solenoid 02C	5J6-6	---	Solenoid 12
5J5-9	WHT-BRN	Solenoid 01C	5J6-7	BRN-ORN	Solenoid 11
5J7-1	BRN-GRY	Spl Solnd 6	5J6-8	BRN-RED	Solenoid 10
5J7-2	BRN-VIO	Spl Solnd 5	5J6-9	BRN-BLK	Solenoid 9
5J7-3	BRN-BLU	Spl Solnd 4	5J8-1	WHT-RED	Transformer: 26V ac / 7J2-6
5J7-4	Key Pin	No Connection	5J8-2	WHT-RED	Transformer: 26V ac / 7J2-6
5J7-5	BRN-ORN	Spl Solnd 3	5J8-3	WHT-RED	Transformer: 26V ac / 7J2-7
5J7-6	BRN-RED	Spl Solnd 2	5J8-4	WHT-RED	Transformer: 26V ac / 7J2-7
5J7-7	BRN-BLK	Spl Solnd 1	5J8-5	Key Pin	No Connection
5J9-1	---	No Connection	5J8-6	BLK-YEL	Transformer: 48V ac / 7J2-11
5J9-2	---	No Connection	5J8-7	BLK-YEL	Transformer: 48V ac / 7J2-11
5J9-3	Key Pin	No Connection	5J8-8	BLK-YEL	Transformer: 48V ac / 7J2-12
5J9-4	---	No Connection	5J8-9	BLK-YEL	Transformer: 48V ac / 7J2-12
5J9-5	WHT-BLU	25 Vac: Ferris Wheel Motor	5J10-1	BLK	Solnd Gnd / 1J13-1
5J9-6	---	No Connection	5J10-2	BLK	Solnd Gnd / 1J13-2
5J9-7	WHT-BLU	25 Vac: Ferris Wheel Motor	5J10-3	BLK	Solnd Gnd / 1J13-3
5J12-1	---	No Connection	5J10-4	BLK	Solnd Gnd / 1J13-4
5J12-2	GRY-YEL	+50 Vdc / Flippers	5J11-1	ORN	+25 Vdc (C solnd) / Sol. 01C th
5J12-3	---	No Connection	5J11-2	---	No Connection
5J12-4	BLU/YEL	+50 Vdc / Flippers	5J11-3	Key Pin	No Connection
5J12-5	---	No Connection	5J11-4	BRN	+25 Vdc (A solnd)/Sol. 01A, 05
5J12-6	VIO-YEL	+50 Vdc / Sol. 18 & 20	5J11-5	---	No Connection
5J12-7	---	No Connection	5J11-6	---	No Connection
5J12-8	Key Pin	No Connection	5J11-7	---	No Connection
5J12-9	---	No Connection	5J11-8	---	No Connection
5J12-10	---	No Connection	5J11-9	RED	+25 Vdc / Sol. 9, 10, 11, &
5J12-11	YEL-VIO	+50 Vdc (A solnd) / Sol. 03A, 04A, &	5J11-10	---	No Connection
5J12-12	---	No Connection	5J11-11	RED-WHT	+50 Vdc / Sol. 17, 19, 21
			5J11-12	---	No Connection

LY INTERBOARD SIGNALS

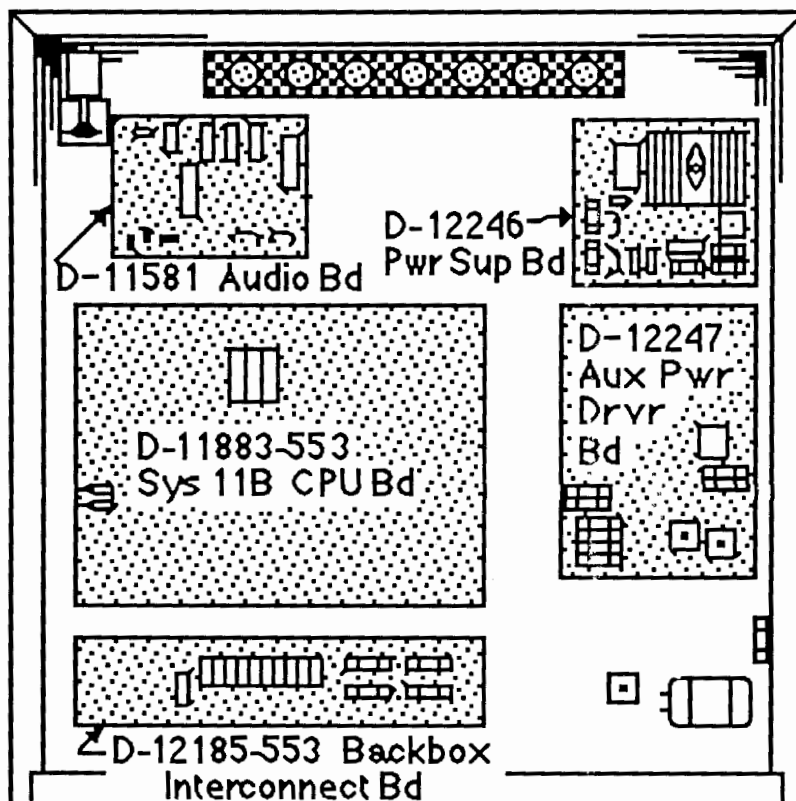
Location || Connector Wire Color Signal Designation/Description

	3J2-1	ORG	Display Power: -100V dc / 4J2-1
	3J2-2	---	No Connection
	3J2-3	BRN	Display Power: +100V dc / 4J2-3
	3J2-4	Key Pin	No Connection
	3J2-5	BLK	Ground (Display ckt) / 4J2-5
17-4	3J2-6	GRY	Display Power: +5V dc / 4J2-6
	3J3-1	GRY	Transformer: 19.4V ac, 1Ø, C. T.
	3J3-2	GRY	Transformer: 19.4V ac, 1Ø, C. T.
	3J3-3	GRY/WHI	Transformer: 19.4V ac, C. T. com
1J17-9	3J3-4	GRY/WHI	Transformer: 19.4V ac, C. T. com
1J17-9	3J3-5	GRY/GRN	Transformer: 19.4V ac, 1Ø, C. T.
	3J3-6	GRY/GRN	Transformer: 19.4V ac, 1Ø, C. T.
1J17-8	3J3-7	Key Pin	No Connection
1J17-8	3J3-8	WHI	Transformer: 88.5V ac
	3J3-9	WHI	Transformer: 88.5V ac

D INTERBOARD SIGNALS

Location || Connector Wire Color Signal Designation/Description

1J16-1	11J2-1	RED	Signal Level (to Vol Cntrl)
1J16-2	11J2-2	BLK	Signal Level (from Vol Cntrl)
	11J2-3	---	No Connection
	11J2-4	shield	Ground
	11J4	Ribbon Cable from CPU 1J21	
6-2	11J5-1	BLK-YEL /	Speaker
	11J5-2	BLK-YEL /	Speaker
	11J5-3	BLK /	Speaker
6-6	11J5-4	BLK /	Speaker

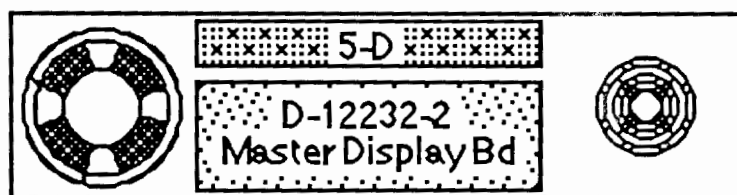


Backbox

AY INTERBOARD SIGNALS

Location || Connector Wire Color Signal Designation/Description

1J1-1	4J3	Ribbon Cable from CPU 1J22	
1J1-2			
1J1-3	4J4	Ribbon Cable to Meter Display	
1J1-4			
1J1-5	4J5-1	BLU-BRN	D1 / Display BCD / 1J3-1
1J1-6	4J5-2	BLU-RED	C1 / Display BCD / 1J3-2
1J1-7	4J5-3	BLU-ORG	B1 / Display BCD / 1J3-3
	4J5-4	BLU-YEL	A1 / Display BCD / 1J3-4
1J1-9	4J5-5	BLU-GRN	D2 / Display BCD / 1J3-5
	4J5-6	Key Pin	No Connection
1J2-1	4J5-7	BLU-BLK	C2 / Display BCD / 1J3-7
1J2-2	4J5-8	BLU-VIO	B2 / Display BCD / 1J3-8
1J2-3	4J5-9	BLU-GRY	A2 / Display BCD / 1J3-9
1J2-4			
1J2-5	4J7-1	ORG	Display Power: -100V dc / 3J5-3
1J2-6	4J7-2	---	No Connection
	4J7-3	BRN	Display Power: +100V dc / 3J5-4
J2-8	4J7-4	Key Pin	No Connection
J2-9	4J7-5	BLK	Ground / 3J5-1
	4J7-6	GRY	Power: +5V dc / 3J5-6



Display/Speaker Panel

SYSTEM-11B CPU INTERBOARD SIGNALS

POWER SUPPLY INTE

Connector	Wire Color	Signal Designation/Description	Connector	Wire Color	Signal Designation/Description
1J1-1	BRN-GRY	ST-8: Display Digit Strobe / 4J3-1	1J2-1	VIO-GRY	ST-16: Display Digit Strobe / 4J4-1
1J1-2	BRN-VIO	ST-7: Display Digit Strobe / 4J3-2	1J2-2	VIO-BLK	ST-15: Display Digit Strobe / 4J4-2
1J1-3	BRN-BLU	ST-6: Display Digit Strobe / 4J3-3	1J2-3	VIO-BLU	ST-14: Display Digit Strobe / 4J4-3
1J1-4	BRN-GRN	ST-5: Display Digit Strobe / 4J3-4	1J2-4	VIO-GRN	ST-13: Display Digit Strobe / 4J4-4
1J1-5	BRN-YEL	ST-4: Display Digit Strobe / 4J3-5	1J2-5	VIO-YEL	ST-12: Display Digit Strobe / 4J4-5
1J1-6	BRN-ORG	ST-3: Display Digit Strobe / 4J3-6	1J2-6	VIO-ORG	ST-11: Display Digit Strobe / 4J4-6
1J1-7	BRN-RED	ST-2: Display Digit Strobe / 4J3-7	1J2-7	Key Pin	No Connection
1J1-8	Key Pin	No Connection	1J2-8	VIO-RED	ST-10: Display Digit Strobe / 4J4-8
1J1-9	BRN-BLK	ST-1: Display Digit Strobe / 4J3-9	1J2-9	VIO-BRN	ST-9: Display Digit Strobe / 4J4-9
1J3-1	BLU-BRN	D1 / Display BCD / 4J5-1	1J4-1	VIO	Lamp +18V dc Power
1J3-2	BLU-RED	C1 / Display BCD / 4J5-2	1J4-2	VIO	"
1J3-3	BLU-ORG	B1 / Display BCD / 4J5-3	1J4-3	Key Pin	No Connection
1J3-4	BLU-YEL	A1 / Display BCD / 4J5-4	1J4-4	---	No Connection
1J3-5	BLU-GRN	D2 / Display BCD / 4J5-5	1J4-5	---	No Connection
1J3-6	Key Pin	No Connection	1J4-6	---	No Connection
1J3-7	BLU-BLK	C2 / Display BCD / 4J5-7	1J4-7	---	No Connection
1J3-8	BLU-VIO	B2 / Display BCD / 4J5-8	1J4-8	VIO	Lamp +18V dc Power
1J3-9	BLU-GRY	A2 / Display BCD / 4J5-9	1J4-9	VIO	"
1J3-10	---	No Connection	1J6-1	RED-BRN	Lamp Row 1 (Q80)
1J3-11	---	No Connection	1J6-2	RED-BLK	Lamp Row 2 (Q81)
1J3-12	---	No Connection	1J6-3	RED-ORG	Lamp Row 3 (Q82)
1J5-1	---	No Connection	1J6-4	Key Pin	No Connection
1J5-2	Key Pin	No Connection	1J6-5	RED-YEL	Lamp Row 4 (Q83)
1J5-3	BLK	Ground (Lamp Ckt)	1J6-6	RED-GRN	Lamp Row 5 (Q84)
1J5-4	BLK	Ground (Lamp Ckt)	1J6-7	RED-BLU	Lamp Row 6 (Q85)
1J5-5	---	No Connection	1J6-8	RED-VIO	Lamp Row 7 (Q86)
1J5-6	---	No Connection	1J6-9	RED-GRY	Lamp Row 8 (Q87)
1J5-7	---	No Connection	1J8-1	GRN-BRN	Switch Col 1 (Q45)
1J5-8	BLK	Ground (Lamp Ckt)	1J8-2	GRN-RED	Switch Col 2 (Q49)
1J5-9	BLK	Ground (Lamp Ckt)	1J8-3	GRN-ORG	Switch Col 3 (Q44)
1J7-1	YEL-BRN	Lamp Col 1 (Q65/66)	1J8-4	GRN-YEL	Switch Col 4 (Q48)
1J7-2	YEL-RED	Lamp Col 2 (Q63/64)	1J8-5	GRN-BLK	Switch Col 5 (Q43)
1J7-3	YEL-ORG	Lamp Col 3 (Q61/62)	1J8-6	Key Pin	No Connection
1J7-4	YEL-BLK	Lamp Col 4 (Q59/60)	1J8-7	GRN-BLU	Switch Col 6 (Q47)
1J7-5	Key Pin	No Connection	1J8-8	GRN-VIO	Switch Col 7 (Q42)
1J7-6	YEL-GRN	Lamp Col 5 (Q57/58)	1J8-9	GRN-GRY	Switch Col 8 (Q46)
1J7-7	YEL-BLU	Lamp Col 6 (Q55/56)	1J9	Not Applicable	
1J7-8	YEL-VIO	Lamp Col 7 (Q53/54)			
1J7-9	YEL-GRY	Lamp Col 8 (Q51/52)			
1J10-1	WHT-GRY	Switch Row 8	1J11-1	GRY-BRN	Solenoid 1 (Q33) / 5J1-9
1J10-2	WHT-VIO	Switch Row 7	1J11-2	Key Pin	No Connection
1J10-3	WHT-BLU	Switch Row 6	1J11-3	GRY-RED	Solenoid 2 (Q25) / 5J1-7
1J10-4	Key Pin	No Connection	1J11-4	GRY-ORG	Solenoid 3 (Q32) / 5J1-6
1J10-5	WHT-GRN	Switch Row 5	1J11-5	GRY-YEL	Solenoid 4 (Q24) / 5J1-5
1J10-6	WHT-YEL	Switch Row 4	1J11-6	GRY-GRN	Solenoid 5 (Q31) / 5J1-4
1J10-7	WHT-ORG	Switch Row 3	1J11-7	GRY-BLU	Solenoid 6 (Q23) / 5J1-3
1J10-8	WHT-RED	Switch Row 2	1J11-8	GRY-VIO	Solenoid 7 (Q30) / 5J1-2
1J11-9	WHT-BRN	Switch Row 1	1J11-9	GRY-BLK	Solenoid 8 (Q22) / 5J1-1
1J12-1	BRN-BLK	Solenoid 9 (Q17) / 5J2-9	1J13-1	BLK	Solenoid Ground / 5J10-1
1J12-2	BRN-RED	Solenoid 10 (Q9) / 5J2-8	1J13-2	BLK	" / 5J10-2
1J12-3	Key Pin	No Connection	1J13-3	BLK	" / 5J10-3
1J12-4	BRN-ORG	Solenoid 11 (Q16) / 5J2-6	1J13-4	BLK	" / 5J10-4
1J12-5	BRN-YEL	Solenoid 12 (Q8) / 5J2-5	1J14-1	BLK-RED	Memory Protect / 7J1-4
1J12-6	BRN-GRN	Solenoid 13 (Q15) / Mys. Whl Mtr Cntrl	1J14-2	WHT	Ground / 7J1-3
1J12-7	BRN-BLU	Solenoid 14 (Q7) / Mys. Whl Mtr Cntrl	1J14-3	GRN	ADVANCE Switch / 7J1-1
1J12-8	BRN-VIO	Solenoid 15 (Q14) / 5J2-2	1J14-4	BLU	AUTO/MANUAL Switch / 7J1-2
1J12-9	BRN-GRY	Solenoid 16 (Q6) / 5J2-1	1J17-1	BLK	Ground / 3J6-11
1J16-1	RED	Volume Control Input / 11J1-1	1J17-2	BLK	" / 3J6-12
1J16-2	BLK	Volume Control Output / 11J1-2	1J17-3	BLK	" / 3J6-13
1J16-3	Key Pin	No Connection	1J17-4	GRY	Power: +5V dc / 3J6-7
1J16-4	WHT	Signal Ground - CPU / 11J1-4	1J17-5	GRY	" / 3J6-8
1J18-1	---	No Connection	1J17-6	GRY	" / 3J6-9
1J18-2	ORN-BLK	Spl Solnd Sw 3	1J17-7	Key Pin	No Connection
1J18-3	ORN-RED	Spl Solnd Sw 2	1J17-8	BLK-WHT	Power: -12V dc Unreg / 3J6-2
1J18-4	ORN-YEL	Spl Solnd Sw 4	1J17-9	WHT-GRY	Power: +12V dc Unreg / 3J6-6
1J18-5	ORN-BRN	Spl Solnd Sw 1	1J19-1	ORN-VIO	Flipper Ground
1J18-6	Key Pin	No Connection	1J19-2	ORN-GRY	Flipper Ground
1J18-7	WHT	Spl Solnd Sw Ground	1J19-3	BLU-ORN	Spl Solnd 3 (Q73) / 5J3-3
1J18-8	ORN-GRN	Spl Solnd Sw 5	1J19-4	BLU-RED	Spl Solnd 2 (Q71) / 5J3-6
1J18-9	ORN-BLU	Spl Solnd Sw 6	1J19-5	Key Pin	No Connection
1J21	Ribbon Cable to Audio Board 11J4		1J19-6	BLU-YEL	Spl Solnd 4 (Q69) / 5J3-4
1J22	Ribbon Cable to Master Display Board 4J3		1J19-7	BLU-BRN	Spl Solnd 1 (Q75) / 5J3-7
			1J19-8	BLU-GRN	Spl Solnd 5 (Q77) / 5J3-2
			1J19-9	BLU-BLK	Spl Solnd 6 (Q79) / 5J3-1

Connector	Wire Color	Signal Designation/Description
3J1-1	BLK	Ground / 1J17-1
3J1-2	BLK	Ground / 1J17-2
3J1-3	BLK	Ground / 1J17-3
3J1-4	BLK	No Connection
3J1-5	BLK-YEL	Logic Ground
3J1-6	GRY	CPU Pwr: +5V dc Reg / 1J17-4
3J1-7	GRY	" / 1J17-5
3J1-8	GRY	" / 1J17-6
3J1-9	GRY	No Connection
3J1-10	Key Pin	No Connection
3J1-11	WHT-GRY	CPU Pwr: +12V dc Unreg / 1J17-9
3J1-12	WHT-GRY	CPU Pwr: +12V dc Unreg / 1J17-9
3J1-13	GRY-YEL	CPU Power: +12V dc Unreg
3J1-14	BLK-WHT	CPU Pwr: -12V dc Unreg / 1J17-8
3J1-15	BLK-WHT	CPU Pwr: -12V dc Unreg / 1J17-8

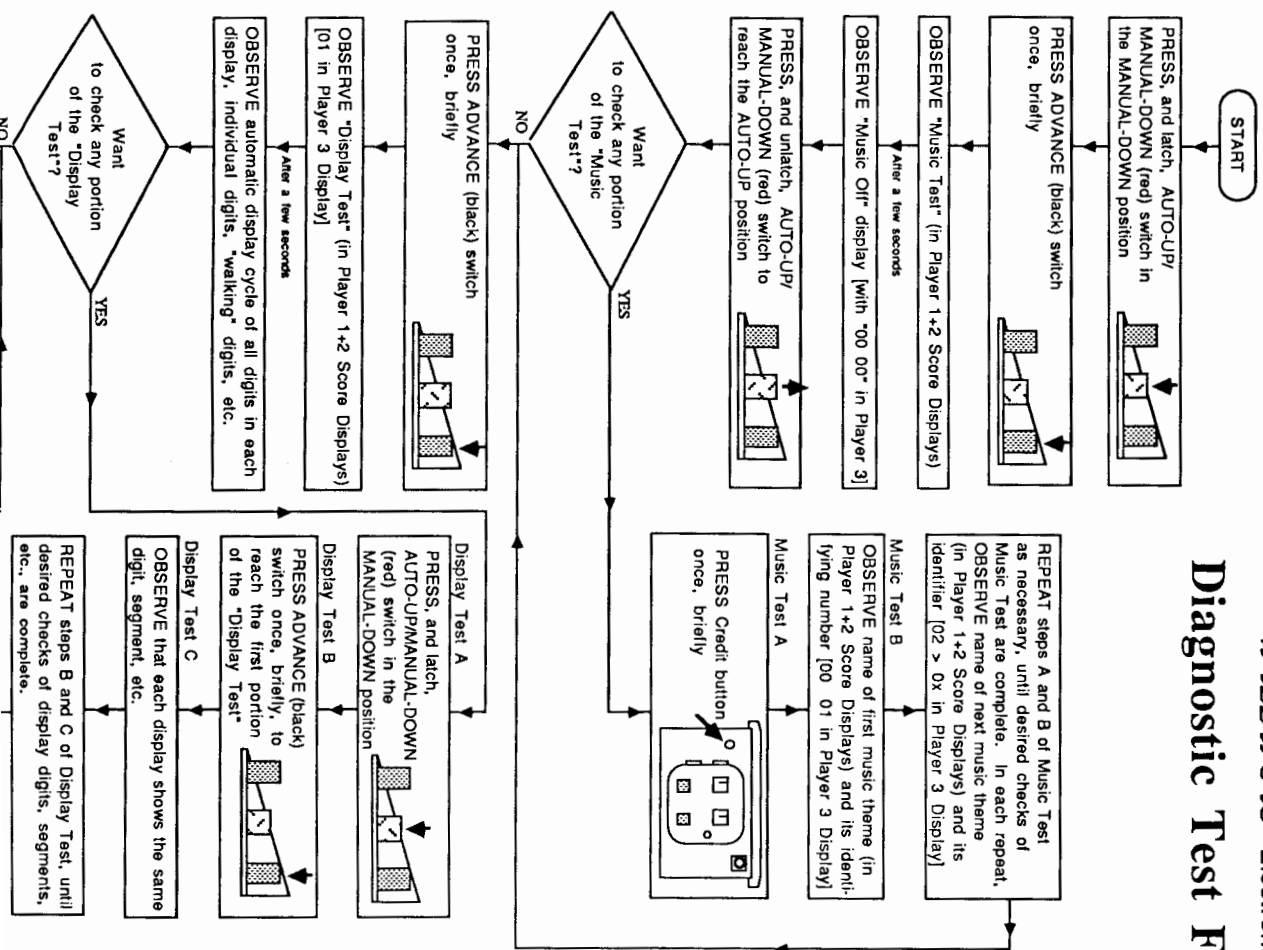
AUDIO BOARD INTER

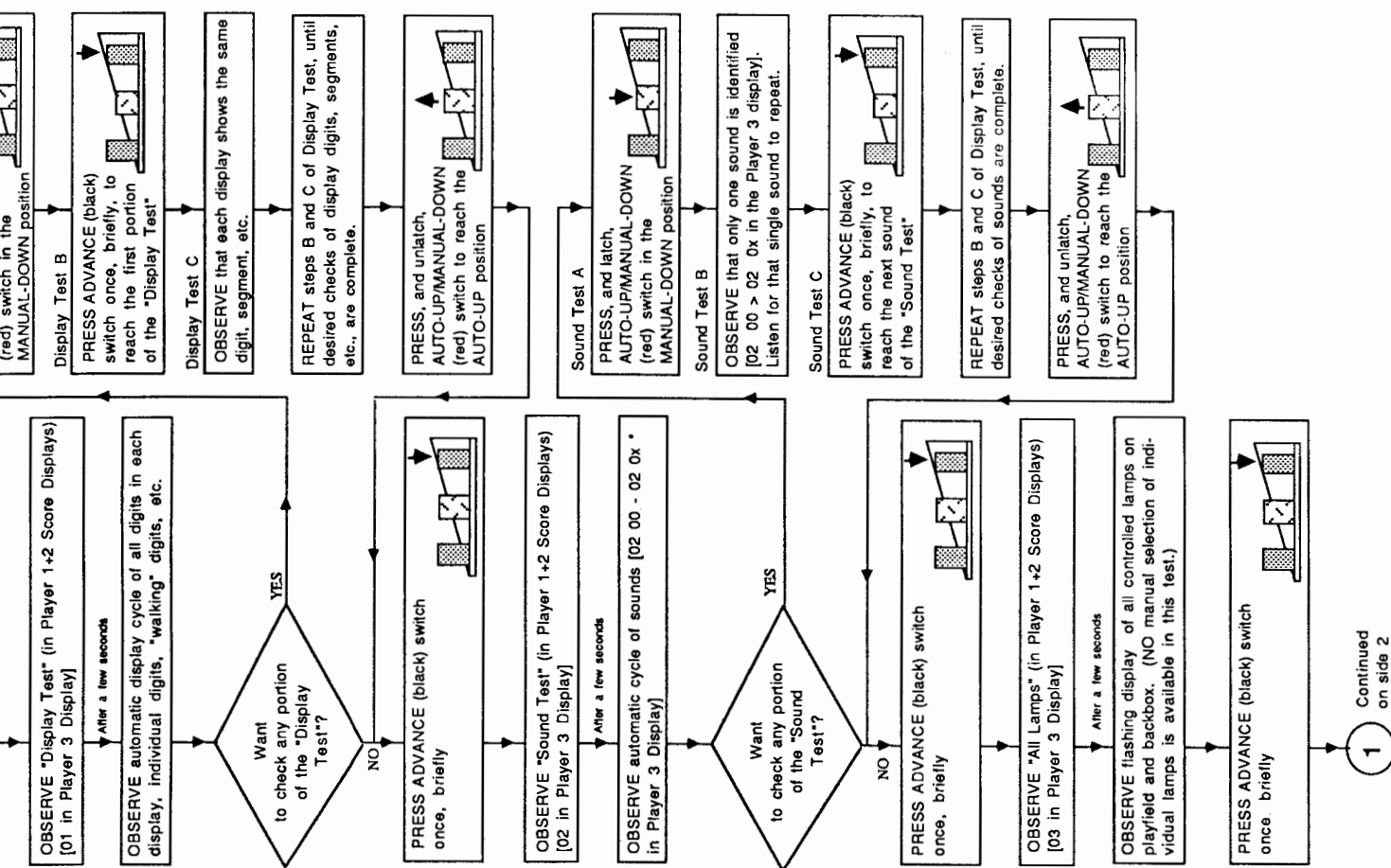
Connector	Wire Color	Signal Designation/Description
11J1-1	RED	Sound Input (from CPU) / 1J16-1
11J1-2	BLK	Sound Input (from CPU) / 1J16-2
11J1-3	---	No Connection
11J1-4	WHT	Ground / 1J16-4
11J3-1	GRY	Power: +5 Vdc / 3J6-7
11J3-2	BLK	Ground / 3J6-11
11J3-3	BLK-WHT	Power: -12 Vdc Unreg / 3J6-2
11J3-4	Key Pin	No Connection
11J3-5	---	No Connection
11J3-6	WHT-GRY	Power: +12 Vdc Unreg / 3J6-6

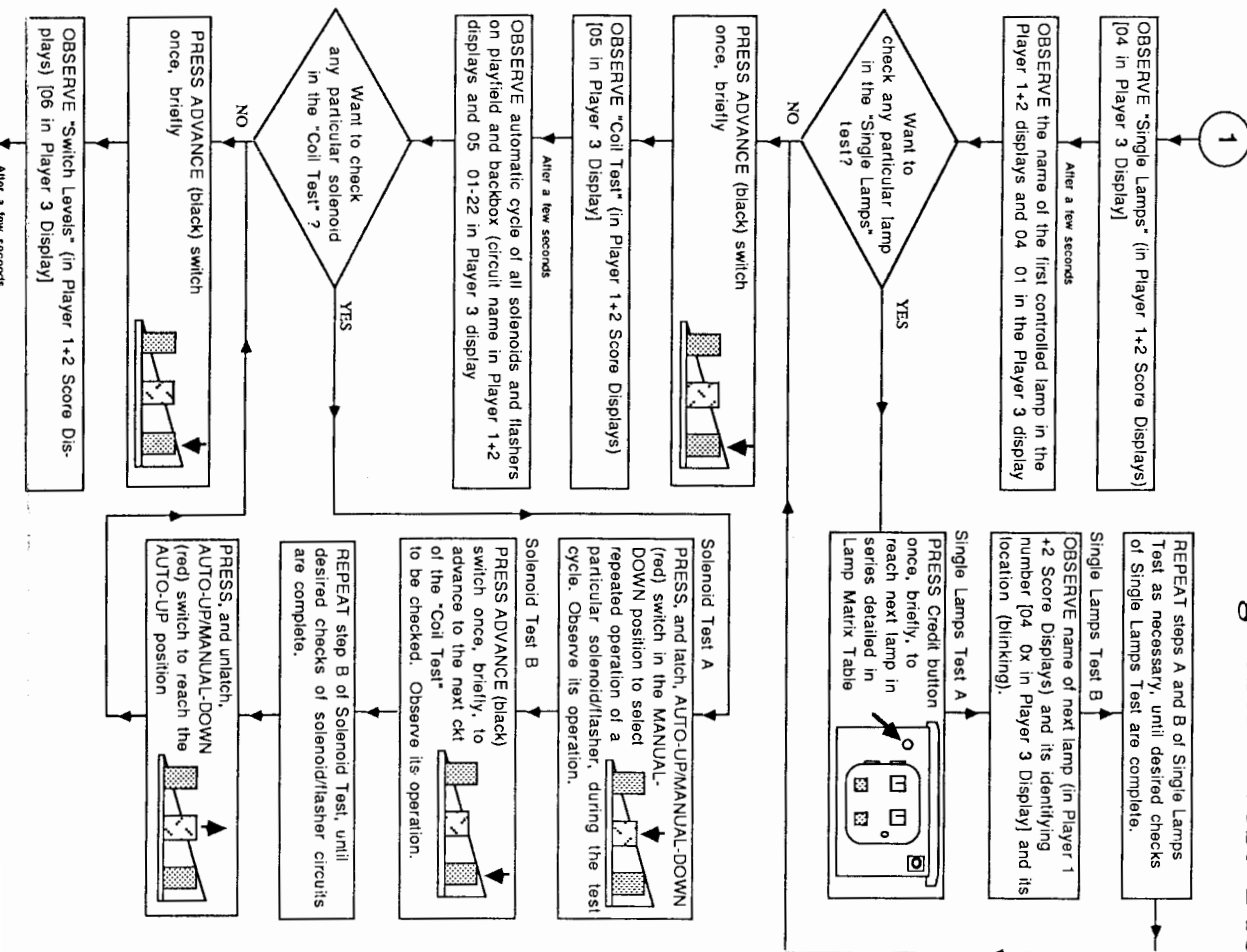
MASTER DISPLAY INTE

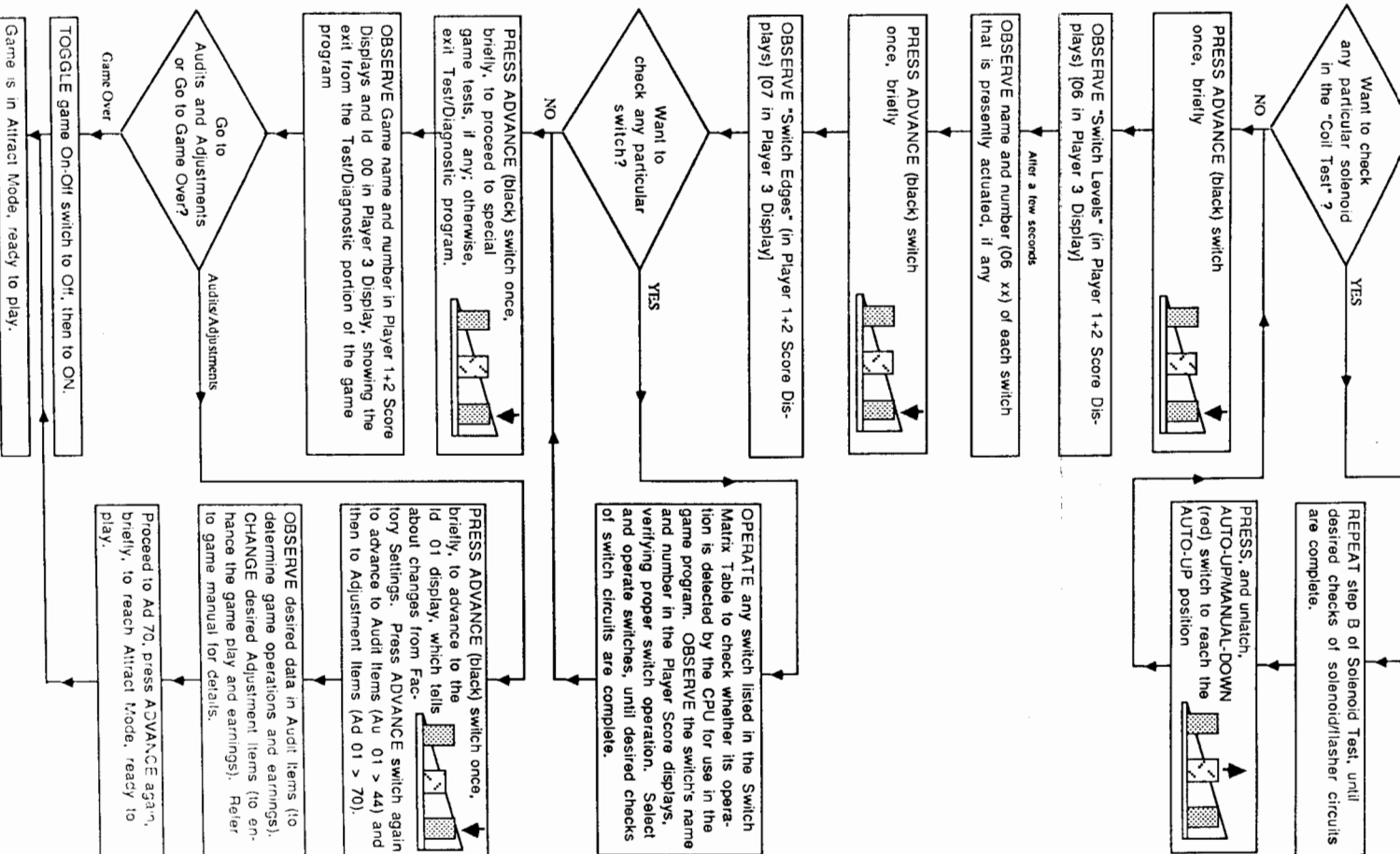
Connector	Wire Color	Signal Designation/Description
4J1-1	BRN-GRY	ST-8: Digit Display Strobe / 1J1-1
4J1-2	BRN-VIO	ST-7: Display Digit Strobe / 1J1-2
4J1-3	BRN-BLU	ST-6: Display Digit Strobe / 1J1-3
4J1-4	BRN-GRN	ST-5: Display Digit Strobe / 1J1-4
4J1-5	BRN-YEL	ST-4: Display Digit Strobe / 1J1-5
4J1-6	BRN-ORG	ST-3: Display Digit Strobe / 1J1-6
4J1-7	BRN-RED	ST-2: Display Digit Strobe / 1J1-7
4J1-8	Key Pin	No Connection
4J1-9	BRN-BLK	ST-1: Display Digit Strobe / 1J1-9
4J2-1	VIO-GRY	ST-16: Digit Display Strobe / 1J2-1
4J2-2	VIO-BLK	ST-15: Display Digit Strobe / 1J2-2
4J2-3	VIO-BLU	ST-14: Display Digit Strobe / 1J2-3
4J2-4	VIO-GRN	ST-13: Display Digit Strobe / 1J2-4
4J2-5	VIO-YEL	ST-12: Display Digit Strobe / 1J2-5
4J2-6	VIO-ORG	ST-11: Display Digit Strobe / 1J2-6
4J2-7	Key Pin	No Connection
4J2-8	VIO-RED	ST-8: Display Digit Strobe / 1J2-8
4J2-9	VIO-BRN	ST-9: Display Digit Strobe / 1J2-9

Diagnostic Test Flowchart











a

b



c

d



WARNINGS & NOTICES

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TO MAINTAIN THESE LEVELS, reposition harnesses and reconnect ground straps to their original placements, if they become disconnected during maintenance.

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