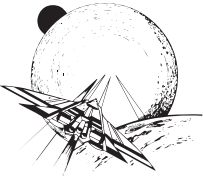


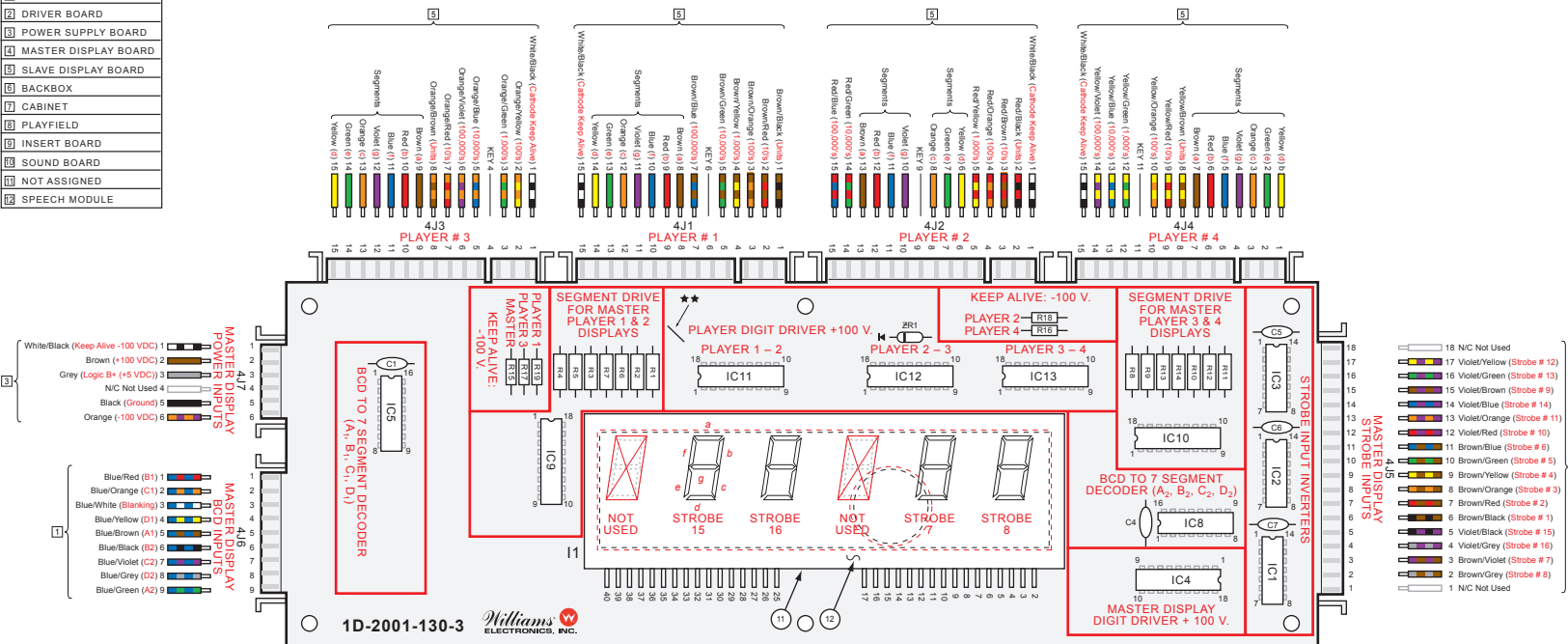
FIREPOWER
D8000 Master Display Board Assembly Drawing (IC Drivers)

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BOARD CONNECTIONS:

1	CPU BOARD
2	DRIVER BOARD
3	POWER SUPPLY BOARD
4	MASTER DISPLAY BOARD
5	SLAVE DISPLAY BOARD
6	BACKBOX
7	CABINET
8	PLAYFIELD
9	INSERT BOARD
10	SOUND BOARD
11	NOT ASSIGNED
12	SPEECH MODULE



- MASTER DISPLAY TROUBLESHOOTING
(Place Diagnostics in Display Digits Test)
1. TROUBLESHOOTING: NO DISPLAY
a) Check -100 VDC, +100 VDC & fuse on Power Supply.
b) Check connectors 3J5, 4J7, 1J3, 1J5, 1J6, 1J7.
c) Check for +100 VDC and -100 VDC on connector 4J7 - replace Power Supply Board if voltage incorrect.
d) Replace Master Display Board.
2. TROUBLESHOOTING: INCORRECT DISPLAY
a) Check +100 VDC, -100 VDC at 4J7.
b) Check for broken or shorted wires on 4J5, 4J6, 1J5, 1J6, 1J7.
c) Replace Master Display Board.

USE EXTREME CAUTION WHEN MEASURING HIGH VOLTAGES!!!

BILL OF MATERIALS				
ITEM NO.	PART No.	PART DESIGNATION	DESCRIPTION	REQD NO.
1	1D-2001-130-3	IC1, IC2, IC3	BARE P.C. BOARD	1
2	5A-8971	IC1, IC2, IC3	MC14089 HEX. INVERTER	3
3	5A-8970	IC5, IC8	MC14543 BCD TO SEVEN SEGMENT LATCH/DECODER DRIVER	2
4	5A-8969	IC9, IC10	UDN-780 GAS DISCHARGE DISPLAY SEGMENT DRIVER	2
5	5A-8968	IC4, IC11, IC12, IC13	UDN-6184 GAS DISCHARGE DISPLAY SEGMENT DRIVER	4
6	5B-8981	R1 THRU R14	RESISTOR, FC, 10 K OHM 10% 1/4 W.	14
7	5B-8982	R15 THRU R19	RESISTOR, FC, 3 MEG OHM 10% 1/4 W.	5
8	5A-9135	ZR1	1N4740A ZENNER DIODE, 10 V, 5% 1 W.	1
9	5A-8980	C1, C4 THRU C7	CAPACITOR, CERAMIC, 01 MFD, 50 V.	5
10	5B-8966	I1	6 DIGIT DISPLAY	1
12	23A 6542		DISPLAY MTG. ADHESIVE FOAM	1

NOTES:
★ IF IC11, IC12, IC13 & IC14 ARE DIONICS-S12 DRIVERS THEN R1 THRU R14 ARE 5A-9148 RES., FC, 15 K OHM ±10%, 1/4 W, ZR1 NOT USED.
★★ CUT & JUMP ON +100 V. NOT IMPLEMENTED.

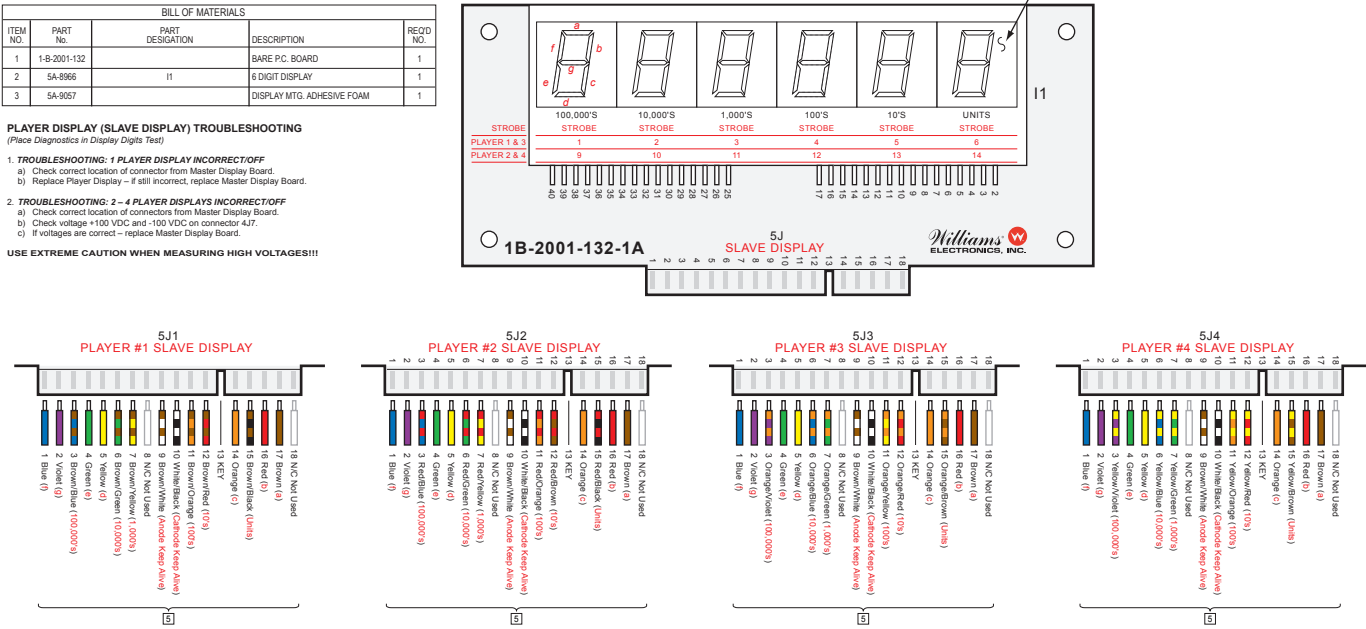
Slave Display Board

BILL OF MATERIALS

ITEM NO.	PART No.	PART DESIGNATION	DESCRIPTION	REQD NO.
1	1-B-2001-132		BARE P.C. BOARD	1
2	5A-8966	I1	6 DIGIT DISPLAY	1
3	5A-8957		DISPLAY MTG. ADHESIVE FOAM	1

- PLAYER DISPLAY (SLAVE DISPLAY) TROUBLESHOOTING
(Place Diagnostics in Display Digits Test)
1. TROUBLESHOOTING: 1 PLAYER DISPLAY INCORRECT/OFF
a) Check correct location of connector from Master Display Board.
b) Replace Player Display - if still incorrect, replace Master Display Board.
2. TROUBLESHOOTING: 2 - 4 PLAYER DISPLAYS INCORRECT/OFF
a) Check correct location of connectors from Master Display Board.
b) Check voltage +100 VDC and -100 VDC on connector 4J7.
c) If voltages are correct - replace Master Display Board.

USE EXTREME CAUTION WHEN MEASURING HIGH VOLTAGES!!!



DIGIT CROSS REFERENCE CHART

DIGIT	7-SEGMENT DECODER	STROBE
Master 1 (Left)	IC5	15
Master 2	IC5	16
Master 3	IC5	7
Master 4 (Right)	IC5	8
#1 100,000	IC5	1
#1 10,000	IC5	2
#1 1,000	IC5	3
#1 100	IC5	4
#1 10	IC5	5
#1 Units	IC5	6
#2 100,000	IC5	9
#2 10,000	IC5	10
#2 1,000	IC5	11
#2 100	IC5	12
#2 10	IC5	13
#2 Units	IC5	14
#3 100,000	IC8	1
#3 10,000	IC8	2
#3 1,000	IC8	3
#3 100	IC8	4
#3 10	IC8	5
#3 Units	IC8	6
#4 100,000	IC8	9
#4 10,000	IC8	10
#4 1,000	IC8	11
#4 100	IC8	12
#4 10	IC8	13
#4 Units	IC8	14

