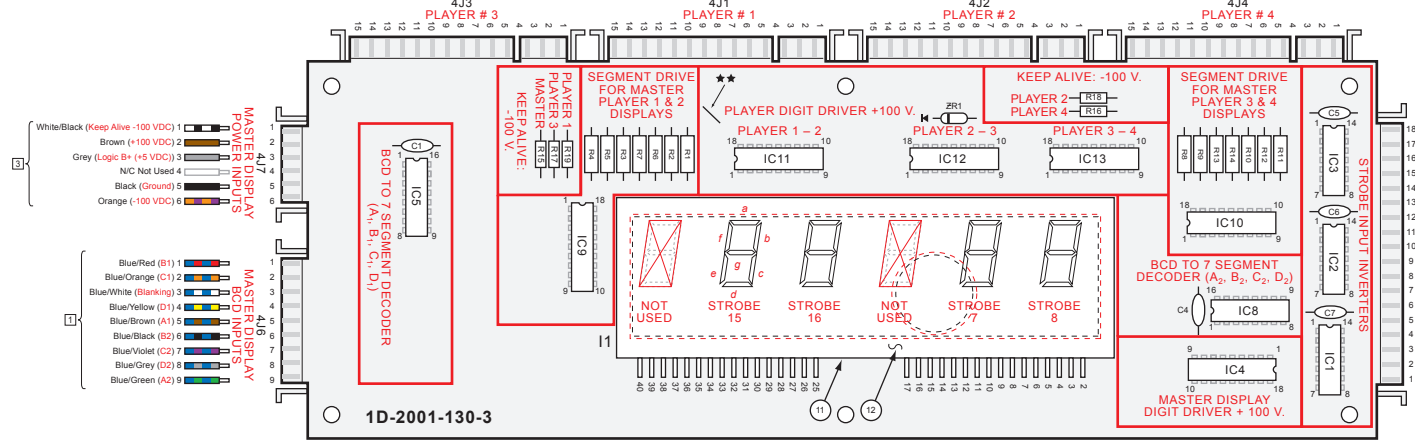




# D8000 Master Display Board Assembly Drawing (IC Drivers)

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)
- TROUBLESHOOTING: NO DISPLAY**
    - Check -100 VDC, +100 VDC & fuse on Power Supply.
    - Check connectors 3,5, 4,7, 1,3, 1,5, 1,6, 1,7.
    - Check for +100 VDC and -100 VDC on connector 4J7 - replace Power Supply Board if voltage incorrect.
    - Replace Master Display Board.
  - TROUBLESHOOTING: INCORRECT DISPLAY**
    - Check +100 VDC, -100 VDC at 4J7.
    - Check for broken or shorted wires on 4J5, 4J6, 1,5, 1,6, 1,7.
    - 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		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% 1/2 W.	14
7	5B-8982	R15 THRU R19	RESISTOR, FC, 3 MEG OHM 10% 1/2 W.	5
8	5A-9135	ZR1	1N4740A ZENNER DIODE, 10 V, 5% 1 W.	1
9	5A-8980	C1, C4 THRU C7	CAPACITOR, CERAMC, 01 MFD, 50 V.	5
10	5B-8966	I1	6 DIGIT DISPLAY	1
11	23A 6542		DISPLAY MTG. ADHESIVE FOAM	1

NOTES:  
 \* IC11, IC12, IC13 & IC14 ARE DIONICS-S12 DRIVERS THEN R1 THRU R14 ARE 5A-9148 RES., FC, 15 K OHM ±10% 1/2 W. ZR1 NOT USED.  
 \*\* CUT & JUMP ON +100 V. NOT IMPLEMENTED.

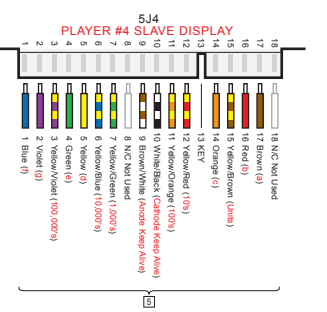
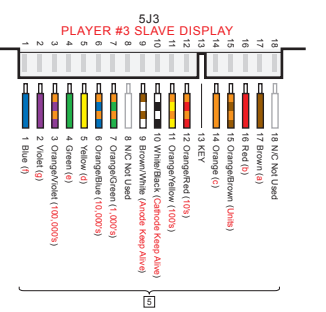
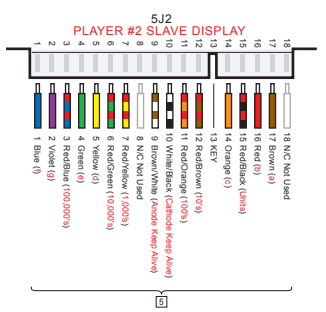
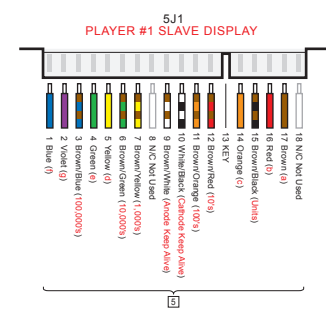
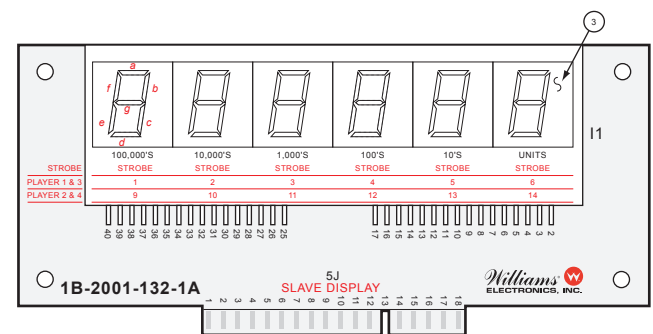
## Slave Display Board

BILL OF MATERIALS				
ITEM NO.	PART No.	PART DESIGNATION	DESCRIPTION	REQD NO.
1	1B-2001-132		BARE P.C. BOARD	1
2	5A-8966	I1	6 DIGIT DISPLAY	1
3	5A-9057		DISPLAY MTG. ADHESIVE FOAM	1

### PLAYER DISPLAY (SLAVE DISPLAY) TROUBLESHOOTING

- (Place Diagnostics in Display Digits Test)
- TROUBLESHOOTING: 1 PLAYER DISPLAY INCORRECT/OFF**
    - Check correct location of connector from Master Display Board.
    - Replace Player Display - if still incorrect, replace Master Display Board.
  - TROUBLESHOOTING: 2 - 4 PLAYER DISPLAYS INCORRECT/OFF**
    - Check correct location of connectors from Master Display Board.
    - Check voltage +100 VDC and -100 VDC on connector 4J7.
    - 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 Units	IC5	5
#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

