FIREPOWER
Driver Board Assembly Drawing

ISSUE NUMBER 1.0
CREATED BY: PHIL BUTCHER
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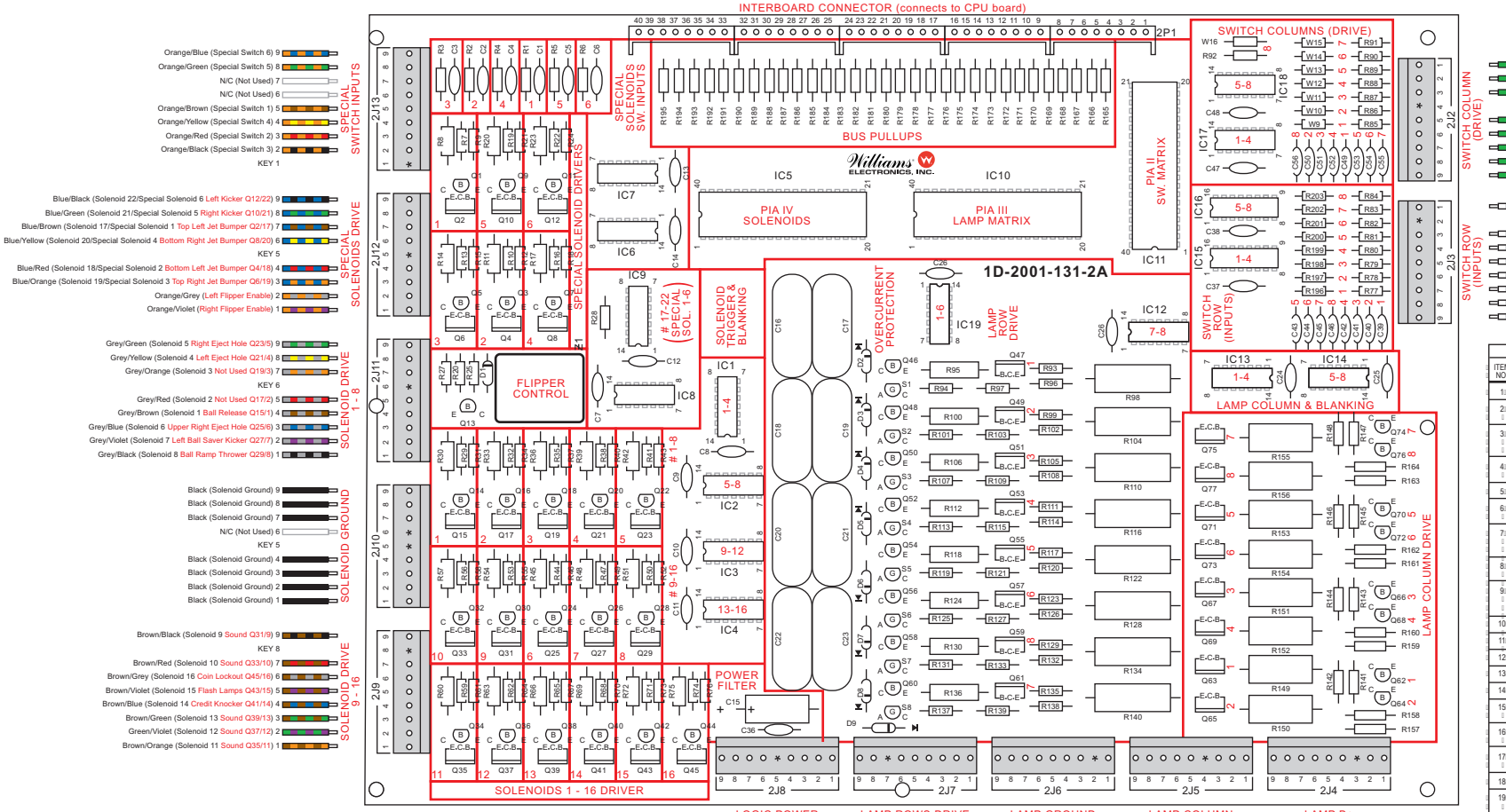

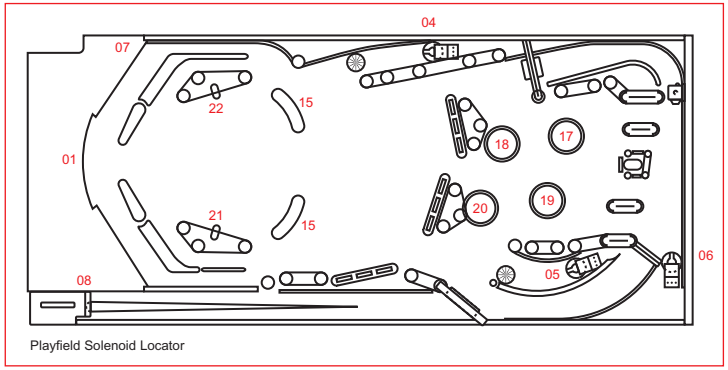

ITEM NO.	PART No.	PART DESIGNATION	DESCRIPTION	REQ'D NO.
1	1-B-2001-131		BARE P.C. BOARD	1
2	5A-8948	IC8, IC9	N7402 QUADRUPLE 2 INPUT POSITIVE NOR GATE	2
3	5A-8974	IC12, IC17, IC18, IC19	N7406 HEX INVENTER BUFFER DRIVERS W/OPEN COLLECTOR HIGH VOLTAGE OUTPUTS	4
4	5A-8973	IC1 THRU IC4, IC6, IC7, IC13, IC14	N7408 QUADRUPLE 2 INPUT POSITIVE AND GATE	8
5	5A-8975	IC15, IC16	MN14049 INVERT. HEX BUFFER	2
6	5A-8972	IC5, IC10, IC11	MC6820 PERIPHERAL INTERFACE ADAPTER	3
7	5A-8938	Q1, Q3, Q5, Q7, Q9, Q11, Q13, Q14 Q16, Q18, Q20, Q22, Q24, Q26, Q28 Q30, Q32, Q34, Q36, Q38, Q40, Q42, Q44	2N4401 NPN TRANSISTOR	23
8	5A-8976	Q46, Q48, Q50, Q52, Q54, Q56, Q58, Q60 Q62, Q64, Q66, Q68, Q70, Q72, Q74, Q76	2N6427 DARLINGTON NPN TRANSISTOR	16
9	5A-8977	Q2, Q4, Q6, Q8, Q10, Q12,Q15, Q17 Q19, Q21, Q25, Q27, Q29, Q31, Q33 Q35, Q37, Q39, Q41, Q43, Q45	TIP122 DARLINGTON NPN POWER TRANSISTOR	22
10	5A-8978	Q63, Q65, Q67, Q69, Q71, Q73, Q75, Q77	TIP42 PNP POWER TRANSISTOR	8
11	5A-8979	Q47, Q49, Q51, Q53, Q55, Q57, Q59, Q61	2N5122 NPN POWER TRANSISTOR	8
12	5A-6258	D1	1N4001 DIODE	1
13	5A-8919	D2 THRU D9	1N4148 DIODE	8
14	5A-9014	S1 THRU S8	2N5060 SCR	8
15	5A-8980	C1 THRU C14, C24 THRU C26, C30, C37, C38, C47, C48	CAPACITOR, CERAMIC, .01 MFD +80 -20 % 50V.	22
16	5A-8995	C16 THRU C23	CAPACITOR, POLYESTER FILM .1 MFD 10 %	7
17	5A-9065	C37 THRU C46	CAPACITOR, CERAMIC, 470 PFD 20 % 50 V.	16
18	5A-8986	C15	CAPACITOR ELECT., 100 MFD, 10 V.	1
19	5A-8996	C36	CAPACITOR, CERAMIC, 1 MFD +80 -20 % 50 V.	1
20	5A-8991	R1 THRU R6, R27, R77 THRU R92 R157 THRU R195	RESISTOR, FC, 4.7 K OHM 10 % ¼ W	62
21	5A-8983	R27	RESISTOR, FC, 3.3 K OHM 10 % ¼ W	1
22	5A-8984	R96, R97, R102, R103, R108, R109, R114 R115, R121, R122, R126, R127, R132 R133, R138, R139, R196 THRU R203	RESISTOR, FC, 1 K OHM 10 % ¼ W	24
23	5A8992	R7, R10, R13, R16, R19, R22, R29, R32 R35, R38, R41, R44, R47, R50, R53 R56, R59, R62, R65, R68, R71, R74	RESISTOR, FC, 560 OHM 10 % ¼ W	22
24	5A-8993	R8, R11, R14, R17, R20, R23, R30, R33 R36, R39, R42, R45, R48, R51, R54 R57, R60, R63, R66, R69, R72, R75	RESISTOR, FC, 68 OHM 10 % ½ W	22
25	5A-8997	R9, R12, R15, R18, R21, R24, R25, R31 R34, R37, R40, R43, R46, R49, R52, R55 R58, R61, R64, R67, R70, R73, R76	RESISTOR, FC, 2.7 K OHM 10 % ¼ W	23
26	5A-8817	R26	RESISTOR, FC, 10 K OHM 10 % ¼ W	1
27	5A-8998	R141 THRU R148	RESISTOR, FC, 2.2 K OHM 10 % ¼ W	8
★ 28	5A-8999-1	R149 THRU R156	RESISTOR, FC, 27 OHM 10 % 2 W	8
29	5A-9084	R95, R100, R106, R112, R118, R124 R130, R136	RESISTOR, FC, 100 OHM 10 % 3 W	8
30	5A-9085	R93, R99, R105, R111, R117, R123 R129, R135	RESISTOR, FC, 1.5 K OHM 10 % ¼ W	8
31	5A-9086	R94, R101, R107, R113, R119, R125 R131, R137	RESISTOR, FC, 6.8 K OHM 10 % ¼ W	8
32	5A-9037	R98, R104, R110, R116, R122, R128 R134, R140	RESISTOR, WIREWOUND, .4 OHM 10 % 3 W	8
33	5A-9037		RELAY - 4 POLE - 5 AMP. CONTACTS 40 OHM COIL 6 V.D.C	1
34	5A-9066	2P1	8 PIN RECEPTACLE	6
35	5A-9027	2J2 THRU 2J13	9 PIN HEADER	12
36	5A-9534	W9 THRU W16	RESISTOR, FC, 0 OHM, ¼ W	8