

Group 4 Systems Limited.
 Challenge House,
 Northway Lane,
 Newtown Industrial Estate,
 Tewkesbury, Gloucestershire. GL20 8JG



PARTS LIST NO. 7000-5082-1
 7000-5082=2

TITLE S670/1 PROX RDR PCB ASSEMBLY (INST/DIST)
 SH 1
 OF 3

FIRST USED ON ASSY. NO.

ASSY. TITLE DRAWN SCV CHECKED APPROVED

ISSUE	PA	PB	PB.1	LABOUR HOURS				
C/N NO.	5603	5740	5763	ASSY	0	1	4	0
DATE	17/7/98	13/10/98	16/11/98	INSP	0	0	0	8
INITIALS			R	TEST	0			

ITEM	PART OR STOCK NO.	DESCRIPTION	QTY.	REMARKS
1	4000-4094	PCB, Issue B	1	-
5	7000-5085	Processor Kit (68HC711D3)	1	IC8
10	0115-0001SM	Zero Ohm Link	1	R33
11	0115-2032SM	Resistor, 1/4W, 5%, 22	2	R67, 68
12	0115-2056SM	Resistor, 1/4W, 5%, 220	2	R62, 65
13	0115-2062SM	Resistor, 1/4W, 5%, 390	3	R3, 5, 7
14	0115-2064SM	Resistor, 1/4W, 5%, 470	2	R4, 6
15	0115-1072SM	Resistor, 1/10W, 5%, 1k	4	R10, 27, 50, 52
16	0115-1076SM	Resistor, 1/10W, 5%, 1.5k	9	R36, 38, 40, 42, 44, 46, 47, 48, 66
17	0116-1821SM	Resistor, 1/10W, 1%, 1.82k	1	R17
18	0116-2551SM	Resistor, 1/10W, 1%, 2.55k	1	R14
19	0116-2741SM	Resistor, 1/10W, 1%, 2.74k	1	R16
20	0116-3831SM	Resistor, 1/10W, 1%, 3.83k	2	R18-19
21	0115-1088SM	Resistor, 1/10W, 5%, 4.7k	3	R22, 49, 63,
22	0115-1096SM	Resistor, 1/10W, 5%, 10k	13	R24, 25, 28, 29-31, 37, 39, 41, 43, 45, 57, 60
23	0116-2002SM	Resistor, 1/10W, 1%, 20k	1	R2
24	0115-1108SM	Resistor, 1/10W, 5%, 33k	1	R58
25	0116-4022SM	Resistor, 1/10W, 1%, 40.2k	1	R13
26	0116-4322SM	Resistor, 1/10W, 1%, 43.2k	2	R8, 15
27	0115-1116SM	Resistor, 1/10W, 5%, 68k	1	R1
28	0115-1120SM	Resistor, 1/10W, 5%, 100k	6	R20, 21, 53, 55, 56, 69
29	0115-1128SM	Resistor, 1/10W, 5%, 220k	2	R26, 59
30	0115-1136SM	Resistor, 1/10W, 5%, 470k	1	R23
31	0115-1144SM	Resistor, 1/10W, 5%, 1M	1	R51
32	0115-1168SM	Resistor, 1/10W, 5%, 10M	1	R32
33	0111-1088	Resistor, 1/4W, 5%, 4.7k	1	SAL

REFERENCE DOCUMENTS

ASSEMBLY DRAWING	7000-5082	TEST PROCEDURE(S)	None
CIRCUIT DIAGRAM	7200-5082		

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PARTS LIST 7000-5082-1
NO. 7000-5082-2

TITLE	SH	2
S670/1 SMD RDR PCB ASSEMBLY (INST/DIST)	OF	3

FIRST USED ON	ASSY. NO.
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ASSY. TITLE	DRAWN SCV	CHECKED	APPROVED
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ISSUE	PA	PB	PB.1						
C/N NO.	5603	5740	5703						
DATE	17/7/98	13/10/98							
INITIALS									

ITEM	PART OR STOCK NO.	DESCRIPTION	QTY.	REMARKS
40	0225-4220SM	Capacitor, Cer, 22pF, 50V	3	C12,17,18
41	0225-6331SM	Capacitor, Cer, 330pF, 200V, 2%	2	C7,8
42	0226-6391SM	Capacitor, Ceramic, 390pF, 200V	1	C11
43	0225-6681SM	Capacitor, Cer, 680pF, 200V, 2%	1	C10
44	0225-4102SM	Capacitor, Cer, 1nF, 50V, 2%	4	C3-6
45	0226-4102SM	Capacitor, Ceramic, 1nF, 50V	4	C25,26-28
46	0225-8242SM	Capacitor, Cer, 2.4nF, 500V, 2%	1	C16
47	0226-4472SM	Capacitor, Ceramic, 4.7nF, 25V	1	C24
48	0226-6472SM	Capacitor, Cer, 4.7nF, 200V	1	C9
49	0227-4104SM	Capacitor, Ceramic, 100nF, 25V	11	C13,23 CD1-9
50	0277-7105SM	Capacitor, Elect, 1uF, 50V	1	C1
51	0277-4226SM	Capacitor, Elect, 22uF, 16V	4	C2,19-21
60	0516-1016SM	Diode, BAS16	2	D1,3
61	0516-2099SM	Dual Diode, BAV99	1	D4
62	0525-0857SM	Transistor, PNP, BC857	1	TR2
63	0525-0847SM	Transistor, NPN, BC847	1	TR3
64	0421-2111	LED, Red 5mm	2	LED2,4
65	0421-2112	LED, Green 5mm	2	LED1,5
66	0421-2113	LED, Yellow 5mm	1	LED3
67	0845-1515SM	Transient Suppr., 15V, 1.5k	6	TZ1-6
68	0516-1021SM	Diode, BAS21	1	D2
80	0551-9024SM	4024, 8-Stage Divider	1	IC10
81	0450-1130	4N35 Opto Isolator	1	IC13
82	0569-4420SM	4420, FET Driver	1	IC5
83				
84	0556-0014SM	74HC14 Hex Schmitt Buffers	1	IC9
85	0556-0132SM	74HC132 Quad Schmitt NAND	1	IC3
86	0562-0001	7805, +5V Regulator	1	IC14
87	0576-5101SM	93C46, Serial EEPROM, 1k-bit	1	IC11
88	0563-9393SM	LM393, Dual Comparator	1	IC2
89	0564-9074SM	MC34074, Quad Op-amp	1	IC1
90	0560-2241SM	SC442241, HID Decoder	1	IC12
91	0569-9003SM	ULN2003A, Darlington Array	1	IC4

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SH 3

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INITIALS

ITEM	PART OR STOCK NO.	DESCRIPTION	QTY.	REMARKS
100	0599-5044SM	IC Skt, 44-pin PLCC (for IC8)	1	-
101	0711-1208	Pin Strip, 8-way	1	TB1
102	0732-1009	Connector, Socket, 1 x 9	1	SK1
103	0711-1102	Link, 2-pin	1	LK2
104	0711-1103	Link, 3-pin	2	LK1,3
105	0739-0001	Shunt, 2-way, (for LK1,3)	2	-
106	0592-0701SM	Crystal, 7.3728MHz	1	XL1
107	0593-9401SM	Ceramic Resonator, 4MHz, w/caps	1	XL2
108	0794-2008	Terminal Block, 8-way (for TB1)	1	-
109	0911-0001	Sounder	1	LS1
110	0661-1100	Microswitch, Tamper	1	SW1
111	0325-2101SM	Inductor, 100uH 145mA	1	L3
112	0325-2331SM	Inductor, 330uH, 85mA	2	L1,2
113	0798-1001	Terminal Pin	A/R	TP1,2
114	4000-4111	Aerial Coil for 670 Reader	1	-
115	3420-3001	Double Sided Foam Roll	A/R	-