ADJUSTMENT for CT-840

1. DCV

- Set rotary-switch to "≂V" range, push the shift bottom to set DC voltage measurement. Apply 300V to the " V-Ω-μF" and "COM" input terminals adjust VR2. The reading must be adjusted to 300.0 ±0.1V.

2. ACV

- Set rotary-switch to "≂V" range, apply 300V/60Hz to the " V-Ω-μF" and "COM" input terminals adjust VR3. The reading must be adjusted to 300.0 ±0.1V.

3. ACA

- Set rotary-switch to " ≂A " range, test 300A/60Hz with jaw, in order to meet the meter accuracy specifications, the conductor must be inside the jaws and centered within the indicated marks as much as possible. To adjust VR103, the reading must be adjusted to 300.0±0.1A.

CT840 Digital Clamp Meter

Range		Tol %	+Dig	Applied	Tol +/-	Lo Limit	Hi Limit	Lo 70%	Hi 70%
DC Volts	400V	1	3	100 volts	1.3	98.7	101.3	99.0	101.0
				200 volts	2.3	197.7	202.3	198.3	201.7
				390 volts	4.2	385.8	394.2	387.0	393.0
	1000V			1000 volts	13	987	1013	990	1010
	400V			-100 volts	1.3	-101.3	-98.7	-100.9	-99.1
				-200 volts	2.3	-202.3	-197.7	-201.6	-198.4
				-390 volts	4.2	-394.2	-385.8	-392.9	-387.1
	1000V			-1000 volts	13	-1013	-987	-1009	-991
AC Volts	400V	1.5	3	100 50Hz	1.8	98.2	101.8	98.7	101.3
				100 400Hz	1.8	98.2	101.8	98.7	101.3
				200 50Hz	3.3	196.7	203.3	197.6	202.4
				200 400Hz	3.3	196.7	203.3	197.6	202.4
				390 50Hz	6.2	383.8	396.2	385.6	394.4
				390 400Hz	6.2	383.8	396.2	385.6	394.4
	1000V	1.5	5	1000 50Hz	20	980	1020	986	1014
				1000 400Hz	20	980	1020	986	1014
Resistance	400Ω	1	3	39 Ω	0.7	38.3	39.7	38.5	39.5
				390 Ω	4.2	385.8	394.2	387.0	393.0
	4kΩ			3.9 kΩ	0.042	3.858	3.942	3.870	3.930
Frequency	100Hz	0.2	4	50 Hz	0.14	49.86	50.14	49.90	50.10
	1kHz			500 Hz	1.4	498.6	501.4	499.0	501.0
AC Current	400A	1.2	5	100 A 50Hz	1.7	98.3	101.7	98.8	101.2
				390 A 50Hz	5.2	384.8	395.2	386.3	393.7
	700A	1.5	5	690 A 50Hz	16	674	706	678	702
	1000A	2.5	5	800 A 50Hz	25	775	825	782	818

Authorised

Service Manager

Date 06/01/2000

ADJUSTMENT for CT-860

1. DCV

- Set rotary-switch to "⎓V" range, push the shift bottom to set DC voltage measurement. Apply 300V to the " V-Ω-μF" and "COM" input terminals adjust VR2. The reading must be adjusted to 300.0 ±0.1V.

2. ACV

- Set rotary-switch to "≂V" range, apply 300V/60Hz to the " V-Ω-μF" and "COM" input terminals adjust VR3. The reading must be adjusted to 300.0 ±0.1V.

3. Capacitance

- Set rotary-switch to "μF" range, apply 180μF to the "V-Ω-μF " and "COM" input terminals adjust VR1. The reading must be adjusted to 180.0 ±0.1μF.

4. Temperature

- Apply 0 ℃ to input jacks, then adjust the VR5. The reading must be adjusted to 0 ℃.
- Apply 1000 ℃ to input jacks, then adjust the VR4. The reading must be adjusted to 1000℃.
- Must be calibrated **0000**℃ before **1000**℃calibration, else the result will be mistaken.
- Be sure the source and meter have putted in same environment about 10 minutes. Just using copper wire to connect the source and meter.

5. ACA

- Set rotary-switch to " ≂A " range, testing 300A(60Hz) with Jaw, adjusts VR102 for the Jaw position sensitivity (differential reading between measured coils in jaw's top side and bottom side is less then 0.3A).
- Test 300A/60Hz with jaw, in order to meet the meter accuracy specifications, the conductor must be inside the jaws and centered within the indicated marks as much as possible. To adjust VR103, the reading must be adjusted to 300.0±0.1A.

6. DCA

- Set rotary-switch to " ⎓A " range, push the SHIFT button to set DC current measurement, measured current is zero, adjust VR101 and for the reading is ±0.2 A (offsets adjust).

CT860 Digital Clamp Meter

Range	Tol %	+Dig	Applied	Tol +/-	Lo Limit	Hi Limit	Lo 70%	Hi 70%
DC Volts 400V	1	3	100 V	1.3	98.7	101.3	99.0	101.0
			200 V	2.3	197.7	202.3	198.3	201.7
			390 V	4.2	385.8	394.2	387.0	393.0
1000V			1000 V	13	987	1013	990	1010
400V			-100 V	1.3	-101.3	-98.7	-100.9	-99.1
			-200 V	2.3	-202.3	-197.7	-201.6	-198.4
			-390 V	4.2	-394.2	-385.8	-392.9	-387.1
1000V			-1000 V	13	-1013	-987	-1009	-991
AC Volts 400V	1.5	3	100 50Hz	1.8	98.2	101.8	98.7	101.3
			100 400Hz	1.8	98.2	101.8	98.7	101.3
			200 50Hz	3.3	196.7	203.3	197.6	202.4
			200 400Hz	3.3	196.7	203.3	197.6	202.4
			390 50Hz	6.2	383.8	396.2	385.6	394.4
			390 400Hz	6.2	383.8	396.2	385.6	394.4
1000V	1.5	5	1000 50Hz	20	980	1020	986	1014
			1000 400Hz	20	980	1020	986	1014
Resistance 400Ω	1	3	39 Ω	0.7	38.3	39.7	38.5	39.5
			390 Ω	4.2	385.8	394.2	387.0	393.0
4kΩ			3.9 kΩ	0.042	3.858	3.942	3.870	3.930
Capacitance 400uF	3	4	10 uF	0.7	9.3	10.7	9.5	10.5
			100 uF	3.4	96.6	103.4	97.6	102.4
			390 uF	12.1	377.9	402.1	381.5	398.5
4000uF	3.5	4	1000 uF	39	961	1039	973	1027
			3000 uF	109	2891	3109	2924	3076
DC Current 400A	1.5	3	100 A	1.8	98.2	101.8	98.7	101.3
			390 A	6.2	383.8	396.2	385.6	394.4
1000A	2	5	800 A	21	779	821	785	815
AC Current 400A	2	5	100 A 50Hz	2.5	97.5	102.5	98.2	101.8
			390 A 50Hz	8.3	381.7	398.3	384.1	395.9
1000A	2.5	5	800 A 50Hz	25	775	825	782	818
Temp -40~1372C	0.5	3	-50 C	3	-53	-47	-52	-48
			0 C	3	-3	3	-2	2
			100 C	4	96	104	97	103
			500 C	6	494	506	496	504
			1000 C	8	992	1008	994	1006

Authorised

Service Manager

Date 06/01/2000

70 29
8888
60529
8888
2828

版本：
成品編號：FGA-ECT-689 [DIGITAL MULTIMETER

項次	階	層	類別	段別	材料編號	品名規格	單位用量	UN	代用料	生效日	結束日	備註	位置
			2	P	B1-ACDC-620T	UPPER BD PARTS FOR ACDC-620T	1.0000	PC		970528	991231		
	2		0	P	BE1-ACDC-620T	UPPER BD ELEC.PARTS FOR ACDC-620T	1.0000	PC		961017	991231		
3	3		4	M	25-25210-1	PCB FOR ACDC-620T UPPER	1.0000	PC		961221	991231		
4	3		4	M	30-25093-4	BATTERY SNAP 90L	1.0000	PC		961221	991231		
5	3		4	P	30-25550-10	HEADER 1*10 S TYPE L 3.4,7.03	1.0000	PC		961221	991231		CN2
6	3		4	P	30-25550-4	HEADER 1x4 S TYPE L 3.4,7.03	1.0000	PC		970415	991231		CN1
7	3		4	P	30-25550-6	HEADER 1*6 S TYPE L 3.4,7.03	1.0000	PC		970530	991231		CN3
8	3		4	P	30-25550-7	HEADER 1x7 S TYPE L 3.4,7.03	2.0000	PC		961221	991231		CN4,CN5
9	3		4	P	34-1021-22C	V.R 1KΩ 25% 3P 6ϕ SADJ	1.0000	PC	86 10 22 (H0152)	970415	991231		VR103
10	3		4	P	34-5021-22C	V.R 5KΩ 25% 3P 5ϕ TOP-ADJ.	~~2.0000~~ 1.0000	PC	[illegible] (H0165)	970415	991231		VR101,~~102~~
10.5					34-1031-22C	V.R 10KΩ 25% 3P 5ϕ TOP-ADJ.							VR102
11	3		4	P	35-25113-15XB	ZENER 15V 1W 5% 1N4744A TAPING	1.0000	PC		961221	991231		ZD101
12	3		4	M	35-25406-7	DIODE 1N4007 SOD-80(SMD)	1.0000	PC		961221	991231		D101
13	3		4	M	35-25407-1	DIODE 1N4148 SMD	1.0000	PC		970529	991231.		D102
14	3		4	M	35-25621-1	DIODE (DUAL) ITT BAV99 SOT-23	1.0000	PC		970529	991231		D103
	3		4	M	36-25607-1	TRAN. MMST2907A (SMD)	1.0000	PC		961221	991231		Q101
16			4	M	38-25503-1T	IC TL062C SO-8	1.0000	PC		970529	991231		U101
	3		4	M	38-25640-1	IC TSC7660(AIC1660) SO-8	1.0000	PC		961221	991231		U106
18	3		4	M	38-25675-1	IC TL27M2C	1.0000	PC		961221	991231		U102
19	3		4	M	39-25608-1	IC 4053B SO-16 150mil	2.0000	PC		961221	991231		U104,103
	3		4	M	39A-25687-6	IC MASK UPD75P0308GF-3B9 FOR ECT-689	1.0000	PC	39-25687-1	970624	991231		U105
21	3			M	41-25428-N5	IC S80250AG (-5V±5%) SOT-89	1.0000	PC		961221	991231		U107
22	3				58-25130-2	X'TAL 4.194304M 50PPM HC49/U 臥	1.0000	PC		961221	991231		X'TAL
	3		4		C100J50-3Z	CHIP CAP. 10pf J 50V 0805 NPO	2.0000	PC		961221	991231		C103,C104
24	3		4	M	C104Z50-3Z	CHIP CAP. 0.1uF Z 50V 0805 Y5V	6.0000	PC		961221	991231		C101,102,105,10
25	3		4	M	C106M16-6ZC3	CHIP C TAN 10uF M 16V 6.0*3.2(C3/C SIZE)	5.0000	PC		961221	991231		C107-109,111,11
26	3		4	M	R000J0T-3Z	CHIP RES. 0Ω±5% 1/10W 0805	1.0000	PC		970530	991231		R134
27	3		4	M	R1002C8T-3Z	CHIP RES. 10KΩ±0.25% 1/8W 1206	1.0000	PC		961221	991231		R118
28	3		4	M	R1002F0T-3Z	CHIP RES 10K F 1/10W 0805	~~2.0000~~ 1	PC	86 8 (H0120) 86 10 16 (H0160)	961226	991231	86 1 10 (H0160)	R105,~~136~~
28.5					R7501F0	CHIP RES. 7.5KF 1/10W 0805							
29	3		4	M	R103J0T-3Z	CHIP RES. 10K J 1/10W 0805	2.0000	PC		970530	991231		R108,122
30	3		4	M	R104J0T-3Z	CHIP RES. 100K J 1/10W 0805	8.0000	PC		961221	991231		R123-130
31	3		4	M	R105J0T-3Z	CHIP RES. 1M J 1/10W 0805	2.0000	PC		961221	991231		RB,RC
31.5					R1201F0T-3Z	CHIP RES. 1.2K F 1/10W 0805	1		86 8 (H0130)				R135
32	3		4	M	R3571F0T-3Z	CHIP RES.3.57K ±1% 1/10W 0805	~~2.0000~~ 1	PC	86 8 (H0130) 87 5 (H0191)	970606	991231	86 10 23 (H0152)	R112,~~136~~
33	3		4	M	R2202F0T-3Z	CHIP RES. 22K F 1/10W 0805	9.0000	PC		961221	991231		R101,102,103,11
34	3		4	M	R2802F0T-3Z	CHIP RES. 28KΩ±1% 1/10W 0805	1.0000	PC		970530	991231		R104
35	3		4	M	R4020F0T-3Z	CHIP RES 402Ω±1% 1/10W 0805	1.0000	PC	87 5 (H0191)	961221	991231		R106
36	3		4	M	R473J0T-3Z	CHIP RES. 47K J 1/10W 0805	3.0000	PC		961221	991231		R131-133
37	3		4	M	R474J0T-3Z	CHIP RES. 470K J 1/10W 0805	1.0000	PC		961221	991231		R121
38	3		4	M	R5621F0T-3Z	CHIP RES. 5.62KΩ±1% 1/10W 0805	1.0000	PC		970530	991231		R109
			4	M	R822J0T-3Z	CHIP RES. 8.2K J 1/10W 0805	1.0000	PC		961221	991231		R107
40	3		4	M	R9022C8T-3Z	CHIP RES. 90.2K±0.25% 1/8W 1206	1.0000	PC	86 7 8 (H0128)	961221	991231		~~R110~~ 117
			2	P	B2-ACDC-620T	LOWER BD FOR ACDC-620T	1.0000	PC		970528	991231		
42	2		0	P	BE2-ACDC-620T	LOWER BD ELEC. PARTS FOR ACDC-620T	1.0000	PC		961017	991231		
43	3		4	M	25-25211-1B	PCB FOR ACDC-620T LOWER	1.0000	PC	86 7 16 (H0124) 87 4 (H0188)	961221	991231		
44	3		4	M	30-25676-1	WIRE 1000V 105℃ 65L 5,5mm	1.0000	PC		961221	991231		
45	3				30-25713-10	CONN 1*10 S TYPE 2.54mm 5.7H	1.0000	PC		961221	991231		CN2
	3		4		30-25713-4	CONN 1*4 S TYPE 2.54mm 5.7H	1.0000	PC		970415	991231		CN1

PAGE H.C

產品結構明細表
** 多階展開 **

-> PGA-ECT-689

[DIGITAL MULTIMETER

	組別	段別	材料編號	品名規格	單位用量	單位	代用料	生效日	結束日	備註	
		4	P	30-25713-6	CONN 1*6 S TYPE 2.54mm 5.7H	1.0000	PC		970415	991231		CN3
	3	4	P	30-25713-7	CONN 1*7 S TYPE 2.54mm 5.7H	2.0000	PC		961221	991231		CN4,CN5
49	3	4	P	34-1021-07C	V.R 1KΩ 25% 3P 6φ SIDE-ADJ	1.0000	PC		961221	991231		VR4,VR1
50	3	4	P	34-2011-07C	V.R 200Ω 20% 3P 6φ S-ADJ	1.0000	PC		961221	991231		VR3
51	3	4	P	34-2021-07C	V.R 2KΩ 20% 3P 6φ SIDE-ADJ	3.0000	PC		961221	991231		VR1,VR5,VR
52	3	4	P	34-5011-07C	V.R 5KΩ 20% 3P 6φ S-ADJ	1.0000	PC		961221	991231		VR2
53	3	4	P	35-25291-2XB	DIODE 1N457A TAPE PACKING	1.0000	PC		961221	991231		D5
54	3	4	P	35-25390-5R6XB	ZENER 5.6V 1W TAPE	1.0000	PC		961221	991231		ZD1
55	3	4	M	35-25407-1	DIODE 1N4148 SMD	45.0000	PC		961221	991231		D1,2,3,4,7
56	3	4	M	35-25621-1	DIODE (DUAL) ITT BAV99 SOT-23	1.0000	PC		970530	991231		D6
57	3	4	P	36-25115-3	TRAN. 8050C TO-92 (NPN)	6.0000	PC		961221	991231		Q1-6
58	3	4	P	36-25238-3	TRAN. 2SC1815-GR TO-92 (NPN)	1.0000	PC		961221	991231		Q7
59	3	4	M	38-25503-1T	IC TL062C SO-8	2.0000	PC		970530	991231		U3,8,11
60	3	4	M	38-25604-1	IC 555 (CMOS) SO-8	1.0000	PC		961221	991231		U2
61	3	4	P	38-25637-1	IC LM385Z-2.5 TO-92	1.0000	PC		961221	991231		U4
62	3	4	M	38-25675-1	IC TL27M2C	1.0000	PC		961221	991231		U7
63	3	4	M	38-25808-1	IC 4053B SO-16 150mil	3.0000	PC		961221	991231		U1,5,6
64	3	4	M	40-25428-1	IC MAX133CQH-C10219 PLCC	1.0000	PC		961221	991231		U9
65	3	4	M	40-25443-1	IC AD737J SO-8 150mil	1.0000	PC		961221	991231		U10
66	3	4	P	46-25006-20	SPARK GAP 2.0KV ±500V	1.0000	PC		961221	991231		SPG1
67	3	4	P	58-25125-3	X'TAL 32.768K 20PPM 3*8mm	1.0000	PC		961221	991231		X1
68	3	4	P	59-25123-202	THER. PTC 2KΩ PTD1C202B60	2.0000	PC		961221	991231		PTC1,PTC2
69	3	4	M	C100J50-3Z	CHIP CAP. 10pf J 50V 0805 NPO	2.0000	PC		961221	991231		C13,14
70	3	4	M	C104Z50-3Z	CHIP CAP. 0.1uF Z 50V 0805 Y5V	4.0000	PC		961221	991231		C1,3,5,8
71	3	4	M	C106M10-6ZB	CHIP C TAN 10UF M 10V 3.5X2.8mm (B SIZE)	5.0000	PC		961221	991231		C4,9,12,18,19
72	3	4	P	C107Z17-2	CAP. EC 100uF Z 16V (MINI)	2.0000	PC		961221	991231		C10,17
73	3	4	P	C224K51-4N	CAP. MPE 0.22uF K 50V(MINI) P=5	1.0000	PC		961221	991231		C8
74	3	4	M	C225M16-6Z	CHIP C TAN 2.2uF M 16V 3.2*1.6(A SIZE)	1.0000	PC		970415	991231		
75	3	4	M	C270J50-3Z	CHIP CAP. 27pf J 50V 0805 NPO	1.0000	PC		961221	991231		C2
76	3	4	P	C472J51-4N	CAP. MPE 4700pF J 50V(MINI) P=5	1.0000	PC		961221	991231		C15
77	3	4	P	C476M17-2	CAP. EC 47uF M 16V MINI	1.0000	PC		970415	991231		C16
78	3	4	P	C683K250-4N	CAP. MPE 0.068uF K 250V(I.R≧30000MΩ)	1.0000	PC		961221	991231		C7
79	3	4	M	R000J0T-3Z	CHIP RES. 0Ω±5% 1/10W 0805	1.0000	PC		970530	991231		R5
80	3	4	M	R000J4T-3Z06	CHIP RES. 0Ω 1/4W 1206	1.0000	PC		961221	991231		R31
81	3	4	M	R1001C8T-3Z	CHIP RES. 1KΩ±0.25% 1/8W 1206	1.0000	PC		961221	991231		R29
82	3	4	M	R1001F0T-3Z	CHIP RES. 1K ±1% 1/10W 0805	1.0000	PC		961221	991231		R7
83	3	4	M	R1002C8T-3Z	CHIP RES. 10KΩ±0.25% 1/8W 1206	1.0000	PC		961221	991231		R30
84	3	4	M	R1002F0T-3Z	CHIP RES 10K F 1/10W 0805	1.0000	PC		961221	991231		R21
	3	4	M	R1003F0T-3Z	CHIP RES. 100KΩ±1% 1/10W 0805	6.0000	PC		970530	991231		R1,2,6,15,16,3
86	3	4	P	R1005F2T-20T	RES. MF 10MΩ 1% 1/2W	1.0000	PC		961221	991231		R36
87	3	4	P	R101J2-5	RES. MOF 100Ω J 2W	1.0000	PC		961221	991231		R38
88	3	4	P	R102J2-5	RES. MOF 1K J 2W	1.0000	PC		970530	991231		R37
89	3	4	M	R1132F0T-3Z	CHIP RES 11.3K F 1/10W 0805	1.0000	PC		961221	991231		R14
90	3	4	M	R1432F0T-3Z	CHIP RES. 14.3K±1% 1/10W 0805	1.0000	PC		970415	991231		R11
91	3	4	M	R1501F0T-3Z	CHIP RES. 1.5K±1% 1/10W 0805	1.0000	PC		961221	991231		R10
92	3	4	M	R1742F0T-3Z	CHIP RES..17.4KΩ±1% 1/10W 0805	1.0000	PC		961221	991231		R8

產品結構明細表
多階展開

起迄成品編號 : PGA-ECT-689 -> PGA-ECT-689
版 本 :
成品編號 : PGA-ECT-689 [DIGITAL MULTIMETER

項次	階層	類別	段別	材料編號	品名規格	單位用量	UN	代用料	生效日	結束日	備註	位
93	3	4	M	R2000F0T-3Z	CHIP RES 200Ω F 1/10W 0805	1.0000	PC		970530	991231		R33
94	3	4	M	R2002F0T-3Z	CHIP RES. 20KΩ±1% 1/10W 0805	1.0000	PC		961221	991231		R18
95	3	4	M	R2201F0T-3Z	CHIP RES. 2.2K ±1% 1/10W 0805	1.0000	PC		961221	991231		R17
96	3	4	M	R2202F0T-3Z	CHIP RES. 22K F 1/10W 0805	>1.0000	PC	86 5 (HA15F1)	961221	991231		R25,>>
97	3	4	M	R2203F0T-3Z	CHIP RES. 220K F 1/10W 0805	3.0000	PC		961221	991231		R23,24,35
98	3	4	M	R4022F0T-3Z	CHIP RES. 40.2KΩ F 1/10W 0805	2.0000	PC	84 12 (H01X6)	970530	991231		R12,13,11
99	3	4	M	R4302F0T-3Z	CHIP RES. 43K F 1/10W 0805	1.0000	PC		961221	991231		R34
100	3	4	M	R4701F0T-3Z	CHIP RES. 4.7KΩ±1% 1/10W 0805	1.0000	PC		961221	991231		R9
101	3	4	M	R4702F0T-3Z	CHIP RES. 47K ±1% 1/10W 0805	>3.0000	PC	86 5 (H015F)	970530	991231		R22,26,27
102	3	4	M	R4872F0T-3Z	CHIP RES. 48.7KΩ F 1/10W 0805	1.0000	PC	86 18 (H01F6)	970606	991231		R3/1
103	3	4	M	R4990F0T-3Z	CHIP RES. 499Ω±1% 1/10W 0805	1.0000	PC		970530	991231		R20
104	3	4	M	R5232F0T-3Z	CHIP RES. 52.3KΩ±1% 1/10W 0805	1.0000	PC		970415	991231		R17
105		4	M	R7503F0T-3Z	CHIP RES. 750KΩ±1% 1/10W 0805	1.0000	PC		961221	991231		R28
106	3	4	M	R8202F0T-3Z	CHIP RES. 82K ±1% 1/10W 0805	1.0000	PC	86 18 (H01X6)	970530	991231		R4>
107	2	0	P	BN2-ACDC-620T	MECH. PARTS FOR R2-ACDC-620T	1.0000	PC		961017	991231		
	3	4	M	15-25537-5	INPUT TERMINAL(紅) GN-3110 PC+GF	1.0000	PC		961109	991231		
109	3	4	M	15-25537-6	INPUT TERMINAL(黑) GN-3110 PC+GF	1.0000	PC	86 16 (HA1>11)	961109	991231		
110	3	4	M	15-25609-4 HEAT SHRINKABLE TUBE Φ5×8 ~~9-85652-3 EARTH SPRING~~		>2.0000	PC	86 >1 (HA1>88)	970602	991231		~~BUZZERx2~~
10.5 111	1	0	P	15-25609-3 HEAT SHRINKABLE Φ8×10 B3-ECT-690	JAW PARTS FOR ECT-690	>1.0000	PC		970528	991231	86 >1 (HA1>>14	
112	2	2	S	15A-25719-1A	JAW (R) ASS'Y ECT-670/690 超音波組合(R)	1.0000	PC	87 5 (HA2285)	950829	991231		
...		4	M	1-25341-1	CORE (R)	1.0000	PC		950817	991231		
114		4	M	15-25722-1	JAW COVER (TOP R) PC 107C	1.0000	PC		950817	991231		
	3	4	M	15-25723-1	JAW COVER (BOTTOM R) PC 107C	1.0000	PC		950817	991231		
116	3	4	M	15-25735-1	矩線套	2.0000	PC		960120	991231		
116.5	>	>		25A-25163-1	FLEXIBLE PCB (LONG) WITH IC	1.0000	PC	86 9 (H0137)	960525	991231		
117	3	4	M	25-25163-1	PCB FOR ECT-690 FLEXIBLE(LONG)							
117.5	>	>		25A-25163-2	FLEXIBLE PCB (SHORT) WITH IC	1.0000	PC	86 9 (H0137)	960525	991231		
118	3	4	M	25-25163-2	PCB FOR ECT-690 FLEXIBLE(SHORT)							
119	3	4	M	38-25511-1	IC HALL ELEMENT THS-1 SMD	2.0000	PC	87 5 (HA2285)	960525	991231		
120	2	2	S	15A-25719-2C	JAW(L) ASS'Y 超音波組合(L)	1.0000	PC	87 5 (HA2285)	960910	991231		
121	3	4	P	1-25341-2	CORE (L)	1.0000	PC		960910	991231		
122	3	4	M	15-25724-1A	JAW. COVER(CTOP L) PC 107C	1.0000	PC		960910	991231		
123	3	4	M	15-25725-1B	JAW COVER (BOTTON L) PC 107C	1.0000	PC		960910	991231		
123.5	>	>		16-25011-1	RUBBER PLATE 32×15×1.5	>1.0000	PC	86 4 (HA177)	960525	991231		
124	1	0	P	PK-ECT-689	PACKING PARTS FOR ECT-689							
125	2	4	T	24L-25494-1	SERIAL LABEL 45x18mm	1.0000	PC		960525	991231		BOTTON CASE
125.5				24L-25000-51	MODEL LABEL ECT-689	>1.0000	PC	86 2 (HA187)	960525	991231		GIFT BOX
126	2	4	T	24L-25866-1	SERIAL LABEL BK2832 VOAC-81	1.0000	PC		960525	991231		SET
127	2	4	T	29-25026-5	PE BAG 170x350x0.03t	0.0800	PC	87 (HA2281)	960525	991231		CARTON
128	2	4	T	29-25759-1	PACKING PLATE 540x290x8	0.0400	PC		960525	991231		CARTON
129	2	4	T	29-25244-2	PE BAG 1200x1030x0.08	1.0000	PC		960525	991231		
130	2	4	T	29B-25313-1	EC-600 CARRYING CASE ECT-670/690	0.0400	PC		960525	991231		
	2	4	T	29C-25040-1	CARTON 630x456x330	1.0000	PC		970604	991231		
132	2	4	T	29G-25317-3A	GIFT BOX ECT-670/690	1.0000	PC		960525	991231		
133	2	4	T	30-25129-1/2U	TL-31 TEST PROBE TO 90DEG BANANA PLUG	1.0000	PC	86 8 (HA1>114)	970604	991231		
134	2	4	T	91-25096-1A	MANUAL ECT-689	1.0000	PC		960525	991231		
135	1	0	P	S1-ECT-689	OTHER PARTS FOR S1-ECT-689	1.0000	PC		960525	991231		
136	2	0	P	SE1-ECT-689	ELEC.PARTS FOR S1-ECT-689	1.0000	PC		960525	991231		
137		4	P	30-25707-1	ZEBRA 47.5x6.8x2.5t BLK ALL CONDUCT	1.0000	PC		970612	991231		
				57-25114-1	LCD FOR ACDC-360T							

產品結構明細表
** 多階展開 **

起迄成品編號 : PGA-ECT-689 -> PGA-ECT-689
版本 :
成品編號 : PGA-ECT-689 [DIGITAL MULTIMETER]

項次	階	層	類別	發料	材料編號	品名規格	單位用量	UM	代用料	生效日	結束日	備註	位
139	3		4	P	60-25250-2	BUZZER 4.6K 30V D=27mm t=0.53mm	1.0000	PC		970626	991231		
140	3		4	T	61-25027-1	BATTERY CARBON ZINE 9V TWN	1.0000	PC		960525	991231		
141	2		0	P	SM1-ECT-689	MECH.PARTS FOR ECT-689	1.0000	PC		960525	991231		
142	3		4	S	1-25650-1	CONTACT PLATE EDA-71	6.0000	PC		960525	991231		KNOB
143	3		4	S	1-25652-1A	CONTACT PLATE	1.0000	PC		961205	991231		
144	3		4	S	15-25721-1B	BOTTOM CASE ABS 94V-0 432C	1.0000	PC		970612	991231		
145	3		4	T	15-25726-1	BATTERY COVER ABS 94V-0 432C	1.0000	PC		960525	991231		
146	3		4	S	15-25727-2	KNOB (INSTERT 3-25160-1) ABS 94V-0 432C	1.0000	PC		960525	991231		
147	3		4	S	15-25729-1	LCD HOLDER PC+GF10% WHITE	1.0000	PC		960525	991231		
148	3		4	S	15-25730-1	ROTARY PC+GF10% WHITE	1.0000	PC		960525	991231		
149	3		2	S	15A-25720-7	TOP CASE ASS'Y LCD WINDOW 超音波組合	1.0000	PC		970415	991231		
150	4		4	P	15-25720-7	TOP CASE ABS 94V-0 432C ECT-689	1.0000	PC		970415	991231		
151	4		4	P	15-25728-1	LCD WINDOW 壓克力	1.0000	PC		970415	991231		
152			4	F	16-25042-1	RUBBER KEY (POWER) 123C	1.0000	PC		960525	991231		
153	3		4	F	16-25043-1	RUBBER KEY 430C	1.0000	PC		960525	991231		
154	3		4	F	16-25101-1	RUBBER PLATE 53.2x6x2.6mm	2.0000	PC		970617	991231		
155	3		4	P	24-25493-11	OVERLAY DM-689	1.0000	PC		970708	991231		
156	3		4	T	24-25493-8	MODEL OVERLAY ECT-689	1.0000	PC		970528	991231		
157	3		4	T	29S-25047-2	SPONGE 40x12x6t	1.0000	PC		960525	991231		BATERY CASE
158	3		4	S	3-25014-2	STUD φ6.8x13.1	1.0000	PC	PC 0.6 (HM-187)	960525	991231	PC 1/7 (HM-2227)	JAW/TOP CASE
159	3		4	F	3-25161-3A	STUD M2*11.1mm	4.0000	PC		970604	991231		
160	3		4	S	3-25654-1	STEEL BALL φ3.0	2.0000	PC		960525	991231		KNOB
161	3				4-11403-1002	SCREW T3x10	1.0000	PC		960525	991231		TOP/BOTTOM CASE
162	3		4	S	4-114283-1002	SCREW T2.3x10	Δ 5.0000	PC	PC 10 (HM-230)	960525	991231	S2F3	JAWx2,LOWER PCBx1
162.5					4A-11402-0802	SCREW T2.1x8							PCB
163	3		4	F	4A-11102-0802	SCREW M2x0.4Px8.0	8.0000	PC		960525	991231	PC 1/4 (HM-2210)	TOP PCBx4 LOWER I
164	3		4	T	4B-11103-0802	SCREW M3x8	2.0000	PC		960525	991231		TOP/BOTTOM CASEx1
165	3		4	S	6-16104-04	E TYPE CLIP 4mm	1.0000	PC		960525	991231		KNOB
166	3		4	S	9-25002-1	SPRING φ9.0x53.0	1.0000	PC		970617	991231		JAW
167	3		4	S	9-25652-1A	SPRING 5mm	2.0000	PC	PC 2 (HM-188)	960525	991231		KNOBx2
168					9-25745-1	EARTH SPRING							Buzzer

—— 結 束 ——