

Guide to recapping Solid State Logic 4000/6000/8000 E/G/G+ Series Consoles

Document Version 1.1beta

Parts used on 611G Channel

pw = caps used in power rails

cc = coupling caps (ip = input, op = output)

	Film Pan Mk I	281 G Film Pan Mk II	291 G Channel Amp	292 G EQ pink	294 G Group Amp	82E10 Dynamics	82E13 VCA	G-Series Logic	# of parts on a single 611 channel + recommended part	
Electrolytic Capacitors										
Polarized	for values 10uF and lower, use Pansonic FC Series or WIMA MKS Film Caps (more expensive)									
0,47uF 50V	-	-	-	-	-	-	-	1	1	optional: WIMA MKS2B034701B00K100
3,3u 50V	-	-	-	-	-	4 pw	-	-	4	Panasonic EEU-FC1H3R3 optional: WIMA MKS2B043301H00KSSD
6,8u 75V	-	-	-	-	-	1	-	-	1	Panasonic EEU-FC1J6R8 optional: WIMA MKS2B046801M00KSSD
10u 35V	3 pw	3 pw	2 cc ip	2 pw	2	4 pw (1sc)	1* cc	2	17	Panasonic EEU-FC1H100LB optional:WIMA MKS2B051001N00KSSD
Polarized	for values 22uF and higher, use Pansonic FR Series Electrolytic Capacitors									
22u 25V	-	-	2 pw	-	2 pw	1	2 pw 15V	-	7	Panasonic EEU-FR1H220
100u 10V	-	-	7 cc op	-	-	1	4 cc	-	12	Panasonic EEU-FR1A101
100u 25V	-	-	-	-	-	1 pw	-	-	1	
220u 25V	-	-	1 pw	-	-	2 cc	2 pw 15V	-	5	Panasonic EEU-FR1H221
2200u 6,3V	-	-	-	-	1 (C1*)	-	-	-	1	
Non-Polar	use Nichicon Muse ES Non-Polar Electrolytic Capacitors									
10u 16V	-	1 (REV1-5)	-	-	1	-	-	-	2	Nichicon UES1C100MDM
100u 25V	1 cc	1 (REV6)	-	5	-	-	1 cc	-	7	Nichicon UES1E101MPM
220u 6V	-	-	-	1 C9	7 cc	-	-	-	8	Nichicon UES0J221MPM
					* C1 was 220u NP before 1992		* C9 100uF Jim Williams Mod			
							* on C8 and C9 author also uses WIMA MKP2 0,01uF Film-Cap as Bypass			

Parts used on SL651G Centre Section

pw = caps used in power rails

cc = coupling caps

	82E22 Monitor Outputs	82E23 SLS/AFL	82E24 Monitor Matrix (Quad)	82E274 G+ Film Matrix (Film Pan)	82E25 Quad Outputs	82E26 651G QComp 4 Cards	82E27 Comp QFade G+		82E338 Ext Mon Selector 2 Cards	82E29 Ext Mon Buffers 2 Cards	82E30 St Echo ReturnBus 2 Cards	82E31 Patch EQ 2x 3x	82E32 Cue Mix Amp/Comp 2x 3x	82E33 Talkback MD 2 Cards	82E34 Oscill Buffer	82E148 Dual (Option)			
Polarized	for values 10uF and lower, use Panasonic FC Series or WIMA MKS Film Caps (more expensive)								for values 10uF and lower, use Panasonic FC Series or WIMA MKS Film Caps (more expensive)										
0,47uF 50V	-	-	-	-	-	-	5	0,47uF 50V	-	-	-	-	-	-	-	-	5	optional: WIMA optional: WIMA MKS2B041501E00KSSD optional: WIMA MKS2B043301H00KSSD optional: WIMA MKS2B046801M00KSSD optional: WIMA MKS2B051001N00KSSD	
1,5u 50V	-	-	2	-	-	-	7	1,5u 50V	1 (2)	-	-	-	-	1 (2)	1	-	14		
3,3u 50V	-	-	-	-	-	-	-	3,3u 50V	-	-	-	8 (48)	-	-	-	-	48		Panasonic EEU-FC1H3R3
6,8u 35V	-	-	-	-	-	1 (4)	3	6,8u 35V	-	-	-	-	-	-	1	-	8		Panasonic EEU-FC1J6R8
10u 35V	4 pw	3	3	3	2	6 (24)	4	10u 35V	2 (4)	44 (88)*	10 (20)	3 (18) pw	(10)	6 (12)	5	-	197		Panasonic EEU-FC1H100LB
Polarized	for values 22uF and higher, use Panasonic FR Series Electrolytic Capacitors								for values 22uF and higher, use Panasonic FR Series Electrolytic Capacitors										
22u 25V	-	-	-	-	-	-	-	22u 25V	-	-	-	-	-	-	-	4	4	Panasonic EEU-FR1H220	
100u 10V	-	-	10	4	-	-	-	100u 10V	-	-	-	-	-	2 (4)	-	-	14	Panasonic EEU-FR1A101	
100u 25V	-	-	2	-	1	2 (8)	-	100u 25V	-	-	-	-	-	-	1	2	16		
180u 18V	-	-	-	-	-	-	-	180u 18V	-	-	-	2 (12)**	-	-	-	-	12	use 220u 25V	
220u 25V	-	-	-	-	-	-	-	220u 25V	-	-	-	-	(24)	-	-	6	30	Panasonic EEU-FR1H221	
470u 16V	-	-	-	-	-	-	-	470u 16V	-	-	-	-	-	1 (2)	1	-	3	Panasonic EEU-FR1C471	
2200u 6,3V	-	-	-	-	-	2 (8)	-	2200u 6,3V	-	-	-	-	-	-	-	-	8	Panasonic EEU-FR0J222	
Non-Polar	use Nichicon Muse ES Non-Polar Electrolytic Capacitors								use Nichicon Muse ES Non-Polar Electrolytic Capacitors										
10u 16V	-	-	-	8	-	-	-	10u 16V	-	-	-	-	-	-	-	-	8	Nichicon UES1C100MDM	
100u 25V*	-	-	-	8	-	4 (16)	-	100u 25V	-	-	-	-	-	-	-	-	24	Nichicon UES1E101MPM	
220u 6V	-	9	-	-	-	2 (8)	-	220u 6V	-	-	-	-	-	-	-	-	17	Nichicon UES0J221MPM	
220u 25V*	12 cc	4	-	-	14	-	1	220u 25V	-	-	-	6* G+	2 (12)	-	-	-	49	Nichicon UES1C221MPM (16V rated which is sufficient)	
max. height		enough space for bypass film caps			enough space for bypass film caps	20 - 22mm tight but possible for bypass film caps					1 Card allows 25mm height		25mm height possible						
Questions?									*half power-rail, half coupling		4x 3,3u 100V?		3,3u 100V?		2,2u ?				
												*10uF 50V (- Apr 93) **use 220u 25V (np?)							