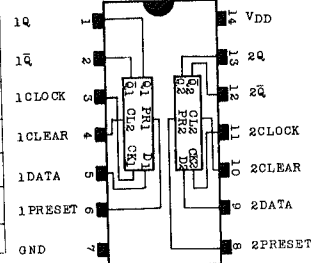


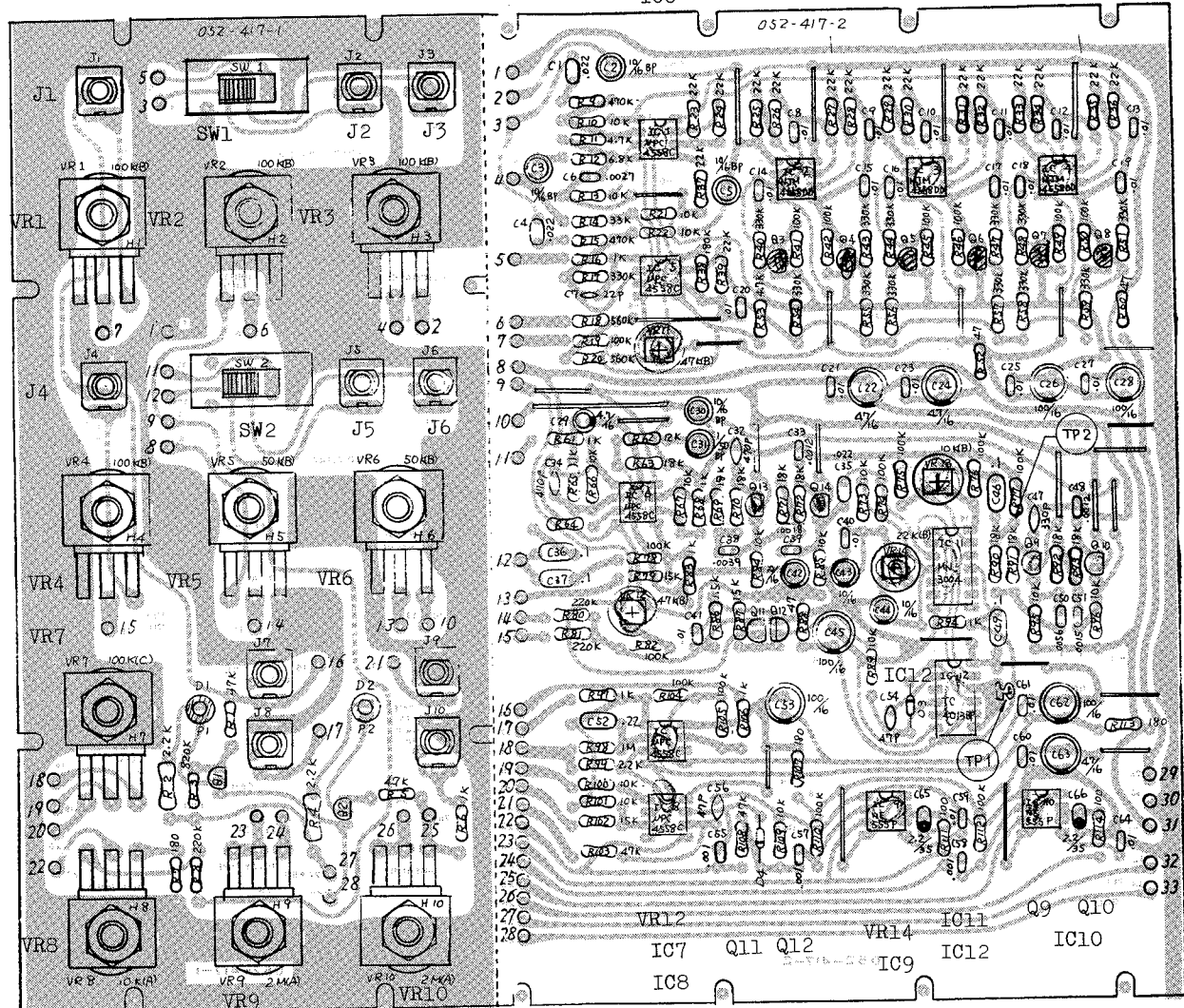
TRUTH TABLE

INPUTS				OUTPUTS	
CL	PR	D	CP	Q _{n+1}	Q̄ _{n+1}
L	H	*	*	H	L
H	L	*	*	L	H
H	H	1*	*	L	H
L	L	L	↑	L	H
L	L	H	↑	H	L
L	L	*	↓	Q _n	Q̄ _n

*: Don't Care
.: No Change



NOMENCLATURE	PART NO.	PART NAME
J-	1-10	13449402 SJ-409-1-2
SW-	1, 2	13159103 SSB02242
VR-	1, 2, 4	13219220 VM1ORB10C K20 100KB
VR-	3	13219225 VM1ORC38C K20 10KB
VR-	5, 6	13219219 VM1ORB10C K20 50KB
VR-	7	13219226 VM1ORC38C K20 100KB
VR-	8	13219222 VM1ORC38C K20 10KA
VR-	9,10	13219221 VM1ORC38C K20 2MA
IC-	1,5,6,7,8	15189105 uPC4558C
IC-	2, 3,4	15189102 NJM4558DD BP MONO Dual
IC-	9, 10	15219109 NE555P
IC-	11	15219203 MN3004 BBD
IC-	12	15159105T0 TC4013BP
Q-	1,2,9-11 13, 14	15129107 2SC945-Q
Q-	3-8	151391030A 2SK30ATM-GR selected
Q-	12	15119106 2SA733-Q
D-	3, 4	15019103 1S2473
C-	65, 66	13619709N0 tantalum 2.2/35V
VR-	11, 12	13299116 SR19R 47KB
VR-	13	13299114 SR19R 10KB
VR-	14	13299115 SR19R 22KB



OP9109-030 (7910903000)
(pcb 052-417-1)



OP9109-040 (Part number 7910904000)
(pcb 052-417-2)

PH.SHIFT-200Hz-8kHz/1080°F resp:20Hz-20kHz
S/N:60dB/In:10V,50kohm/Out:less 1kohm
EXTCV:10V max 50kohm/Out:less than 1kohm

A.DELAY-.0m-7ms/30Hz-20kHz/ S/N:60dB/In:10V
50k/Out:less 1k/EXTCV:10Vmax 50kohm

