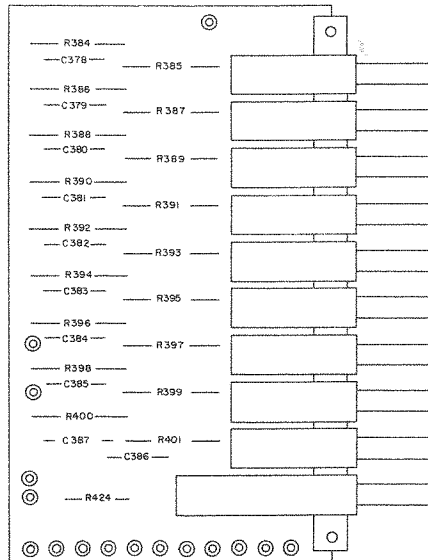
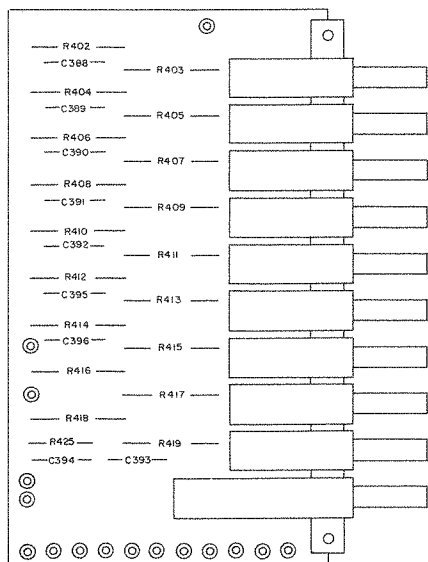


S104 - 100s FREQUENCY DECADE

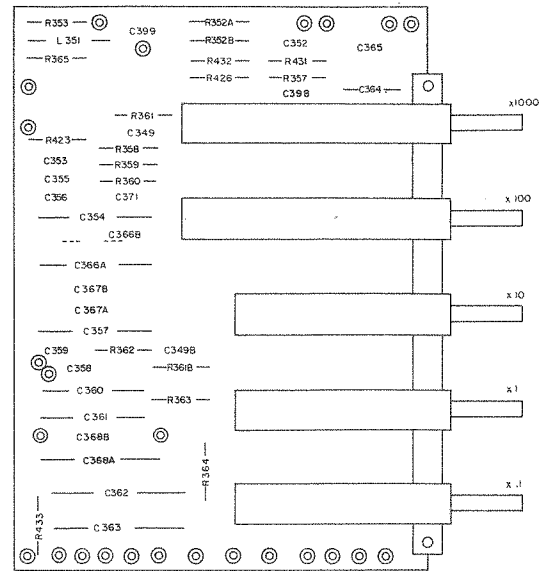


S105 - 10s FREQUENCY DECADE



S106 - 1s FREQUENCY DECADE

FIGURE 11. PUSHBUTTON FREQUENCY PRINTED CIRCUIT CARDS (PC-415)



S103 MULTIPLIER

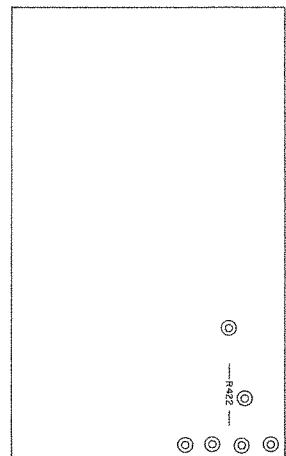


FIGURE 12. PUSHBUTTON MULTIPLIER PRINTED CIRCUIT CARDS (PC-416 AND PC-417)

## PARTS LIST

When ordering parts, please specify Instrument Model No. and serial No., circuit symbol, description and manufacturers' part No.

Engineering modifications incurred since the printing of this document may be found (when applicable), at the rear of this manual.

The Manufacturer's part numbers listed below are either those used in the Instrument, or a directly interchangeable part.

## CAPACITORS

Symbol	Description	Mfr.	Mfr. Part No.	Symbol	Description	Mfr.	Mfr. Part No.
C101	800mf	50V	MAL TYPE FP	C312	100mf	3V	SP TE-1059.5
C102	0.47mf	100V	AVX 3420-100E-474M	C314	.01mf	100V	CD WMF151
C103	.01mf	500V	SP 5GAS-S10	C315	10pf	10%	500V QC TYPE QC
C104	15mf	50V	SP TE-1304.2	C316	2pf	10%	500V QC TYPE QC
C105	1mf	20%	35V SP 196D105X0035HA1	C331	33pf	5%	500V KGN DM15C330J
C106	800mf	50V	MAL TYPE FP	C349A	390pf	10%	500V KGN DM15C391K
C107	0.22mf	20%	50V AVX 3420-050E-224M	C349B	.01mf	20%	500V SP 56A-S10
C109	.01mf	20%	500V SP 5GAS-S10	C351	390pf	10%	500V KGN DM15C391K
C110	1mf	20%	35V SP 196D105X0035HA1	C352	15pf	5%	500V KGN DM15C150J
C111	15mf	20%	50V SP TE-1304.2	C353	220pf	10%	500V KGN DM15C221K
C131	TRIM		TYPE DM	C354	1000pf	5%	500V KGN CM19C102J
C132	10-60pf	TRIMMER	STT 10S-TR1K0-06-10/60pf	C355	680pf	10%	500V KGN DM15C681K
C134	12pf	10%	500V QC TYPE QC	C356	.0047mf	20%	1000V SP 56A-D47
C135	0.1mf	20%	100V AVX 3420-100E-104M	C357	.0033mf	10%	100V CD WMF1033
C136	.22mf	100V	CD WMF1P22	C358	1mf	20%	100V AVX 3421-100E-105M
C137	6.8mf	20%	35V SP 196D685X0035HA1	C359	.0033mf	20%	1000V SP 56A-D33
C138	6.8mf	20%	35V SP 196D685X0035HA1	C360	2mf		16V SP TE-1149
C139	62pf	5%	500V KGN DM15C620J	C361	.022mf	10%	100V CD WMF1S22
C161	.039mf	10%	100V CD WMF1S39	C362	.068mf	10%	100V CD WMF1S68
C162	470pf	10%	500V KGN DM15C471K	C363	25mf		16V SP TE-1157.1
C163	6.8pf	10%	500V QC TYPE QC	C364	8.2pf	10%	500V QC TYPE QC
C164	680 pf	10%	500V KGN DM15C681K	C365	3-9pf	TRIMMER	STT 7S-TR1K0-07-3/9pf
C165	.001mf	20%	1000V SP 56A-D10	C366A	905pf		500V KH CM19C9050F
C166	.001mf	20%	1000V SP 56A-D10	C366B	TRIM		
C167	12pf	10%	500V QC TYPE QC	C367A	9910pf	.15%	100V KH DM20C992F
C168	.01uF	20%	500V SP 5GAS-S10	C367B	TRIM		
C190	1mf	20%	35V SP 196D105X0035HA1	C368A*	0.1mf	+0%, -4%	100V TRW X463UW-10
C191	10mf		16V SP TE-1155	C368B*	TRIM		
C192	.01mf	20%	500V SP 5GAS-S10	C369A**	1mf	+0%, -4%	200V TRW X463UW-8
C193	.01mf	20%	500V SP 5GAS-S10	C369B**	TRIM		
C194	33pf	5%	500V KGN DM15C330J	C370A+	10mf	+0%, -4%	100V TRW X463UW
C195	15pf	5%	500V KGN DM15C150J	C370B+	TRIM		
C196	22pf	10%	500V KGN DM15C680J	C371	200pf	1%	500V KGN DM15C201F
C198	0.1mf	20%	100V AVX 3420-100E-104M	C372	6.8pf	10%	500V QC TYPE QC
C199	.01mf	20%	500V SP 5GAS-S10	C373	5.6pf	10%	500V QC TYPE QC
C200	15pf	10%	500V KGN DM15C150K	C374	1pf	10%	500V QC TYPE QC
C201	5.1pf	10%	500V QC TYPE QC	C375	2pf	10%	500V QC TYPE QC
C202	0.1mf	20%	100V AVX 3420-100E-104M	C376	10pf	10%	500V QC TYPE QC
C203	56pf	10%	500V KGN DM15C560K	C377	.001mf	20%	1000V SP 56A-D10
C204	7-35pf	TRIMMER	STT 7S-TR1K0-02-7/35pf	C378	4.7pf	10%	500V QC TYPE QC
C205	51pf	10%	500V KGN DM15C910J	C379	8.2pf	10%	500V QC TYPE QC
C206	20mf		50V SP TE-1305	C380	6.2pf	10%	500V QC TYPE QC
C207	6.8mf	20%	35V SP 196D685X0035KA1	C381	6.2pf	10%	500V QC TYPE QC
C208	6.8mf	20%	35V SP 196D685X0035KA1	C382	8.2pf	10%	500V QC TYPE QC
C209	0.1mf	20%	100V AVX 3420-100E-104M	C383	6.8pf	10%	500V QC TYPE QC
C210	560pf	10%	500V KGN DM15C561K	C384	6.2pf	10%	500V QC TYPE QC
C241	100pf	10%	500V KGN DM15C101K	C385	4.7pf	10%	500V QC TYPE QC
C242	390pf	10%	500V KGN DM15C391K	C386	15pf	10%	500V KGN DM15C150K
C243	47pf	10%	500V KGN DM15C470K	C387	18pf	10%	500V KGN DM15C180K
C244	5.1pf	10%	500V QC TYPE QC	C388	3.9pf	10%	500V QC TYPE QC
C245	22pf	10%	500V KGN DM15C220K	C389	6.8pf	10%	500V QC TYPE QC
C246	36pf	5%	500V KGN DM15C360J	C390	6.2pf	10%	500V QC TYPE QC
C247	18pf	10%	500V KGN DM15C180K	C391	6.2pf	10%	500V QC TYPE QC
C248	8.2pf	10%	500V QC TYPE QC	C392	5.6pf	10%	500V QC TYPE QC
C249	.02mf	20%	500V SP 5GAS-S20	C393	3.3pf	10%	500V QC TYPE QC
C250	.01mf	20%	500V SP 5GAS-S10	C394	12pf	10%	500V QC TYPE QC
C281	10pf	10%	500V QC TYPE QC	C395	4.7pf	10%	500V QC TYPE QC
C282	100pf	10%	500V KGN DM15C101K	C396	3.9pf	10%	500V QC TYPE QC
C283	10pf	10%	500V QC TYPE QC	C397	5.6pf	10%	500V KGN DM15C560K
C284	.001mf	20%	1000V SP 56A-D10	C398	68pf	5%	500V KGN DM15C680J
C285	.001mf	20%	1000V SP 56A-D10	C399	27pf	10%	500V KGN DM15C270K
C286	1mf	20%	35V SP 196D105X0035HA1				
C287	6.8mf	20%	35V SP 196D685X0035HA1				
C288	22pf	10%	500V KGN DM15C220K				
C289	560pf	10%	500V KGN DM15C561K				
C290	3.3pf	10%	500V QC TYPE QC				
C311	5.1pf	10%	500V QC TYPE QC				

NOTES:  
 \*C368 selected and trimmed for final value of .0998mf, ±15%.  
 \*\*C369 selected and trimmed for final value of .9975mf, ±15%.  
 +C370 selected and trimmed for final value of 9.98mf, ±15%.  
 mf = microfarad pf = picofarad