

Resistors (RG's for optional Grayhill switch are on the schematic)							
Part # Qty	Position	Value	Type	Manufacturer	Spacing	Man. Part#	Vender
2	R1	10k	.25W 1% MF	Xicon		271-10K-RC	Mouser
	R3						
1**	R2**	150k	.25W 1% MF	Xicon		271-150K-RC	Mouser
1	R4	20k	.25W 1% MF	Xicon		271-20K-RC	Mouser
2	R5	200R	.25W 1% MF	Xicon		271-200-RC	Mouser
	R11						
2	R6	6.8k	.4W 0.1% MF	Vishay		MBB 0207-25 0.1% C1 6k8	CAPI
	R7						
2	R8	750R	.25W 1% MF	Xicon		271-750-RC	Mouser
	R10						
1	R9	160R	.25W 1% MF	Xicon		271-160-RC	Mouser
1	R12	1R	.25W 5% CF	Xicon		291-1.0-RC	Mouser
1	R13	10R	.5W 5% CF	Xicon		293-10-RC	Mouser

Diodes							
Part # Qty	Position	Value	Type	Manufacturer	Spacing	Man. Part#	Vender
4~	CR1	400V	Rectifier	Fairchild Semiconductor		1N4004	Mouser
	CR2						
	CR3~						
	CR4~						
1	LED1	Red	Round, 3mm, T-1	Lumex		SSL-LX3044ID	Digi-Key



Capacitors							
Part # Qty	Position	Value	Type	Manufacturer	Spacing	Man. Part#	Vender
1	C1	220pF, 50V	COG Ceramic	Murata	2.5mm	RPE5C1H221J2P1A03B	Digi-Key
1	C2	120pF, 50V	COG Ceramic	Murata	2.5mm	RPE5C1H121J2P1A03B	Digi-Key
2	C5	1000pF, 50V	COG Ceramic	Murata	2.5mm	RPE5C1H102J2P1A03B	Digi-Key
	C6						
2~~	C3~~	47µF, 25V	Radial, Electrolytic	Nichicon	2mm	UHE1E470MDD	Mouser
	C4~~						
2~	C3~	100µF, 50V	Radial, Electrolytic	Panasonic	3.5mm	EEU-FM1H101	Mouser
	C4~						
1	C7	120µF, 50V	Radial, Electrolytic	Nichicon	3.5mm	UHE1H121MPD	Mouser
1	C8	330µF, 16V	Radial, Electrolytic	Nichicon	3.5mm	UHE1C331MPD	Mouser

Operational Amplifiers							
Part # Qty	Position	Value	Type	Manufacturer	Spacing	Man. Part#	Vender
1	A1		Discrete	??			

Transformers							
Part # Qty	Position	Value	Type	Manufacturer	Spacing	Man. Part#	Vender
1	T1		Input	audioiron		EA2622	CAPI
1	T2		Output	audioiron		EA2503	CAPI

Potentiometers & Knobs							
Part # Qty	Position	Value	Type	Manufacturer	Spacing	Man. Part#	Vender
1	RV1A-B-C	Custom	600 ohm T-pad, CP	Bourns		Bourns-51-t-pad	CAPI
1	RV2	25k	CCW Log, CP	Bourns	0.1	51CAN-D20-G17L	CAPI
1	RV1A-B-C	.25" Shaft	Control Knob	Vemaline		5-62-1B	CAPI
1	RV2	.125" Shaft	Control Knob	Vemaline		5-50-1A	CAPI



Switches							
Part # Qty	Position	Value	Type	Manufacturer	Spacing	Man. Part#	Vender
1	SW1	SPDT	Toggle-Flat Lever	C&K Components		7101P3YZQE	CAPI
3	SW2	2PDT	Pushbutton	C&K Components		F2UEETB	CAPI
	SW3						
	SW4						
1~	SW6~	DPDT	Slide	C&K Components		1201-M2-S3-CQE2	
2	SW2	Black	Pushbutton Cap	C&K Components		F0101	CAPI
	SW4						
1	SW3	White	Pushbutton Cap	C&K Components		F0102	CAPI

Miscellaneous							
Part # Qty	Position	Value	Type	Manufacturer	Spacing	Man. Part#	Vender
6	Opamp		PC Sockets	Mill-Max		0322-0-15-15-34-27-10-0	CAPI
1	L Bracket		Aluminum	CAPI		VPx L-Bkt	CAPI
1	Faceplate		Aluminum	CAPI		VP312 Kit-F-P	CAPI
1	Hardware		Mixed	Mixed		VP25-312 Hardware Kit	CAPI

** = Optional loading resistor, not typically found on a vintage 312 card

~ = Not used on a VPR build, only used on a 51x build

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