

## TAVISH DESIGN VINTAGE 6SL7 PHONO STAGE

Bill of Materials

Apr.17

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QTY	Part No	Value	Description	Vendor	Manufacturer or Vendor Part No.
1	C1	1000uF 16v	electrolytic 5mm LS	Mouser	647-UPW1C102MPD
4	C2, C12, C103, C203	2200uF 6.3v	audio grade electrolytic 5mm LS	Mouser	647-UKA0J222MPD
1	C3	2200uF 16v	audio grade electrolytic 5mm LS	Mouser	647-UKA1C222MHD
1	C4	100uF 16v	electrolytic 2mm LS	Mouser	667-ECA-1CM101
1	C5	1uF 25v	MLCC	Mouser	80-C315C105K3R
3	C6, C7, C9	100uF 6.3v	electrolytic 2mm LS	Mouser	667-ECA-0JM101
1	C8	0.01uF	film capacitor 5mm LS	Mouser	80-R82EC2100Z350J
1	C10	3300uF 25v	electrolytic 7.5mm LS	Mouser	667-EEU-FR1E332
1	C11	1000uF 25v	electrolytic 5mm LS	Mouser	647-UVR1E102MPD
1	C13	100uF 25v	electrolytic 2.5mm LS	Mouser	667-ECA-1EHG101
1	C14	68uF 350v	electrolytic 7.5mm LS	Mouser	647-UCS2V680MHD
2	C15, C16	2.2uF 400v	electrolytic 5mm LS	Mouser	647-UVR2G2R2MPD
4	C101, C105, C201, C205	33uF 250v	electrolytic 5mm LS	Mouser	667-EEU-ED2E330
2	C102, C202	0.22uF 250v	film capacitor 10mm LS	Mouser	667-ECQ-E2224KF
2	C104, C204	33nF 250v 2%	film capacitor 5mm LS	Mouser	80-R791C2330SH45G
2	C106, C206	220pF 100v 2.5%	film capacitor 5mm LS	Mouser	505-FKP2220/100/2.5
2	C107, C207	2.2uF 250v	WIMA film capacitor 22.5mm LS	Mouser	505-MKS42.2/250/10
2	C108, C208	47pF 5%	MLCC 5mm LS	Mouser	810-FK28C0G1H470J
2	C109, C209	100pF 5%	MLCC 5mm LS	Mouser	810-FK28C0G1H101J
2	C110, C210	180pF 5%	MLCC 5mm LS	Mouser	810-FK28C0G2E181J
2	C111, C211	4.7uF 63v	WIMA film capacitor 15mm LS	Mouser	505-MKS44.7/63/20
2	C112, C212	0.1uF 250v	Film capacitor 7.5mm LS	Mouser	667-ECQ-E2104KF

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QTY	Part No	Value	Description	Vendor	Manufacturer or Vendor Part No.
1	B1	2A 100v	bridge rectifier	Digikey	2KBP01M-E4/51GI-ND
1	D1	1N4744 15v	1W Zener diode	Mouser	512-1N4744A
3	D2, D4, D6	1N4002	1A 100v rectifier diode	Mouser	863-1N4002RLG
1	D3	1N5817	1A 20v Schottky	Mouser	625-1N5817-E3/53
1	D5	1N5817	1A 20v Schottky	Mouser	625-1N5817-E3/53
4	D7, D8, D9, D10	UF4007	1A 1000v fast rectifier	Mouser	512-UF4007
1	D13	1N4735 6.2v	1W Zener diode	Mouser	512-1N4735A
2	D14, D15	1N4007	1A 1000v rectifier diode	Mouser	750-1N4007-G
1	HS1	AAVID- B037	TO-220 heatsink	Mouser	532-574502B03700G
1	IC1	LM555N	IC Timer 8-pin DIP	Mouser	512-LM555CN
1	IC2	7805	5v fixed TO-220 regulator	Mouser	511-L7805CV

1	IC3	LM1086IT- ADJ	Adj. TO-220 regulator	Mouser	926-LM1086ITADJNOPB
1	IC4	LM317LZ	Adj. TO-92 regulator	Mouser	512-LM317LZ
1	IC5	LM311N	IC Comparator 8-pin DIP	Mouser	926-LM311N/NOPB
2	ICS1, ICS2	IC socket	3M 8-pin DIP socket	Mouser	517-4808-3004-CP
	LED2		No longer used		
	LED3		No longer used		
1	Q2	MJF18004	NPN high voltage transistor TO-220P	Mouser	863-MJF18004G
1	Q5	2N3904	NPN TO-92 transistor	Mouser	610-2N3904
1	Q6	MPSA42	NPN high voltage transistor TO-92	Mouser	610-MPSA42
2	Q101, Q201	2SK209	Toshiba low noise audio JFET SC-59, GR-grade	Mouser	757-2SK209GRTE85LF
2	Q102, Q202	MMBFJ270	Fairchild p-channel JFET	Digikey	MMBFJ270CT-ND

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QTY	Part No	Value	Description	Vendor	Manufacturer or Vendor Part No.
	R1, R8, R14, R31, R32	0 = jumper	jumper		
5	R3, R116, R121, R216, R221	330 1/2W 1% (or 332)	metal film	Mouser	273-330-RC
7	R4, R111, R122, R125, R211, R222, R225	1k 1/2W 1%	metal film	Mouser	273-1K-RC
2	R5, R18	1k 1/2W 5%	carbon film	Mouser	660-CF1/2C102J
1	R6	150k 1/2W 5%	carbon film	Mouser	CF1/2C154J
1	R7	6.8k 1/2W 5%	carbon film (use 4.7k for diffused blue LED)	Mouser	CF1/2C472J or CF1/2C682J
1	R9	500 ohm trimmer	Bourns single turn cermet trimmer	Mouser	3362P-1-501LF
2	R10, R16	100 1/2W 5%	carbon film	Mouser	CF1/2C101J
1	R11	1.2k 1/2W 5%	carbon film	Mouser	CF1/2C122J
2	R13, R26	1M 1/2W 5%	carbon film	Mouser	CF1/2C105J
1	R15	No longer used			
1	R17	22k 1/2W 5%	carbon film	Mouser	CF1/2C223J
1	R19	470 1/2W 5%	carbon film	Mouser	CF1/2C471J
1	R20	47 1/2W 5%	carbon film	Mouser	CF1/2C470J
1	R21	36k 1W 5%	metal oxide	Mouser	RSF100JB-73-36K
1	R22	33k 1W 5%	metal oxide	Mouser	RSF100JB-73-33K
1	R23	10k ohm trimmer	Bourns single turn cermet trimmer	Mouser	3362P-1-103LF
1	R24	3.3k 1/2W 5%	carbon film	Mouser	CF1/2C332J
1	R25	2.2k 1/2W 5%	carbon film	Mouser	CF1/2C222J
1	R27	10k 1/2W 5%	carbon film	Mouser	CF1/2C103J
1	R28	2k 1/2W 5%	carbon film	Mouser	CF1/2C202J
1	R29	12k 1/2W 5%	carbon film	Mouser	CF1/2C123J
1	R30	3.9k 1/2W 5%	carbon film	Mouser	CF1/2C392J

6	R100, R113, R120, R200, R213, R220	100 1/2W 1%	metal film	Mouser	273-100-RC
4	R101, R128, R201, R228	680 1/2W 1%	metal film	Mouser	273-680-RC
4	R102, R114, R202, R214	100k 1/2W 1%	metal film	Mouser	273-100K-RC

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QTY	Part No	Value	Description	Vendor	Manufacturer or Vendor Part No.
2	R103, R203	3.3k 1W 5%	metal oxide	Mouser	RSF100JB-73-3K3
2	R104, R204	49.9k 1/2W 1%	metal film	Mouser	273-49.9K-RC
2	R105, R205	82k 1/2W 1%	metal film	Mouser	273-82K-RC
2	R106, R206	10k 1/2W 1%	metal film	Mouser	273-10K-RC
2	R107, R207	470k 1/2W 1%	metal film	Mouser	273-470K-RC
2	R108, R208	330k 1/2W 1%	metal film	Mouser	273-330K-RC
2	R109, R209	3.3k, 1/2W 1%	metal film	Mouser	273-3.3K-RC
2	R110, R210	160k 1/2W 1% for TungSol or JJ 6	metal film	Mouser	273-160K-RC
2	R112, R212	470 1W 5%	metal oxide	Mouser	RSF100JB-73-470R
2	R117, R217	47.5k 1/2W 1%	metal film	Mouser	273-47.5K-RC
2	R118, R218	820 1/2W 1%	metal film	Mouser	273-820-RC
2	R119, R219	6.2 1/2W 1%	metal film	Mouser	603-MFR50SFT52- 6R2
6	R115, R123, R124, R215, R223, R224	1M 1/2W 1%	metal film	Mouser	273-1.0M-RC
	R126, R226		Not used, provision only		
2	R127, R227	820 1/2W 1% (or 825)	metal film	Mouser	273-820-RC
2	R129, R229	22k, 1/2W 1% (or 22.1k)	metal film	Mouser	273-22K-RC
2	R130, R230	1.2k 1/2W 1% (or 1.21k)	metal film	Mouser	273-1.2K-RC

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QTY	Part No	Value	Description	Vendor	Manufacturer or Vendor Part No.
2	RLY1, RLY2	G6K-2P-DC5	Omron low-signal relay	Mouser	653-G6K-2P-DC5
2	S1, S2	7 position DIP switch	C&K DIP switch, gold plated contacts	Mouser	611-SDA07H1BD
1	S3	2 position DIP switch	C&K DIP switch, gold plated contacts	Mouser	611-SDA02H1BD
1	SW1	7101SY9AV2BE	C&K vertical right-angle toggle SW	Mouser	611-7101SY9AV2BE
1	T1	AMVECO70033K	Talema 70033K 7VA PC mount toroidal transformer dual	Digikey	1295-1047-ND
2	J1, J2	PJRS1X2	Switchcraft dual phono jack	Mouser	502- PJRS1X2S01AUX
1	FH1	LITTLEFUSE649	5x20mm fuseholder	Mouser	64900001039
1	F1	400mA fuse	Littlefuse 0217.400HXP	Mouser	0217.400HXP
1	J4	PJ-102A	2.1mm power jack (CUI)	Mouser	PJ-102A
1	U1	KEYSTONE7779	snap in screw terminal	Mouser	534-7779
3			PCB test points (black, yellow, red)		
3	TS1, TS2, TS3	8 pin octal tube socket	ceramic, gold plated contacts	Antique Electronic Supp	P-ST8-193G
3	V1 – V3	6SL7GT	vacuum tube, Sovtek 6H9C/6SL7GT	Antique Electronic Supp	T-6SL7GT-SOVT

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QTY	Part No	Value	Description	Vendor	Manufacturer or Vendor Part No.
1	1 Dialight green hi-efficiency 3mm panel mount LED			Mouser	558-0501-027F
1	1 Dialight blue hi-efficiency 3mm panel mount LED			Mouser	558-6003-027F
1	1 rocker switch (R13-73A2-B-02-R)			Jameco	316111
2	2 Quick connect terminals, 0.187"			Digikey	A27804-ND
8	8 1/4" nylon hex standoff #6-32				
8	nylon hex nut #6-32				
8	1/4" nylon screw #6-32				
2	3/8" #4-40 screw				
2	#4-40 nut				
2	#4-40 split washer				
2	#4-40 flat washer				
1	3/8" #6-32 pan head screw				
2	1/4" #6-32 pan head screw				
1	3/8" #6-32 black oxide pan head screw				
2	#3-24 plastite screw				
1	ground terminal 1/4-20				
4	#6-32 split washer				
1	#6 nylon flat washer				
1	ground post (Emerson 111-2223-001)			Mouser	530-111-2223-001
1	1/4-20 tooth washer				
1	18" 22ga. insulated stranded wire				
1	8" 24ga. insulated stranded wire (black)				
1	4" 24ga. insulated stranded wire (red)				
1	4" 24ga. insulated stranded wire (white)				
4	Self-adhesive rubber feet			Mouser	517-SJ-5012BK
1	Serial number sticker				
1	High voltage sticker				
1	Decorative flange				
1	Enclosure				
1	Wall transformer, 18VAC 1A			Jameco	ADU180100
1	Chassis mount RCA jack, red			AES	S-H267R
1	Chassis mount RCA jack, white			AES	S-H267W