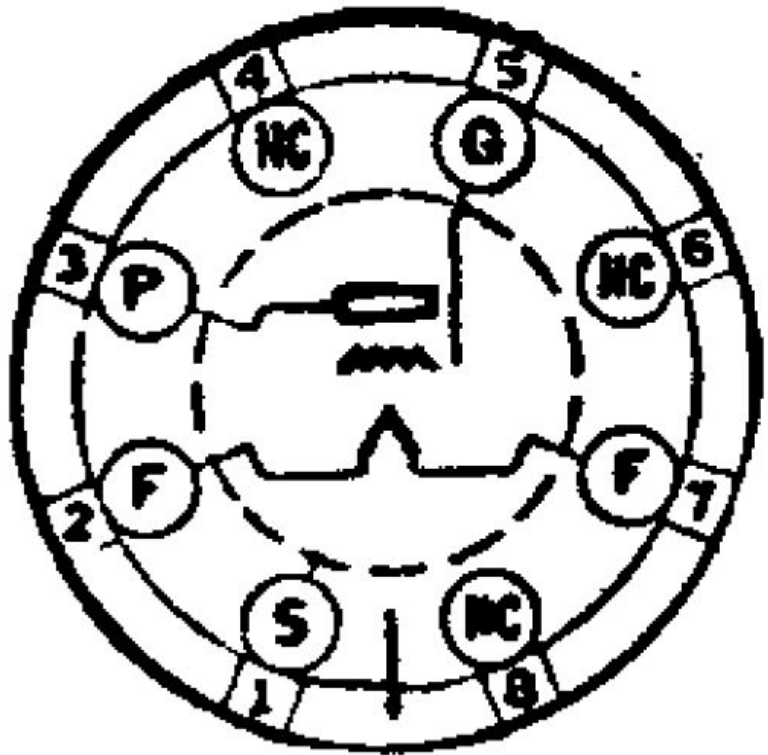


diytube

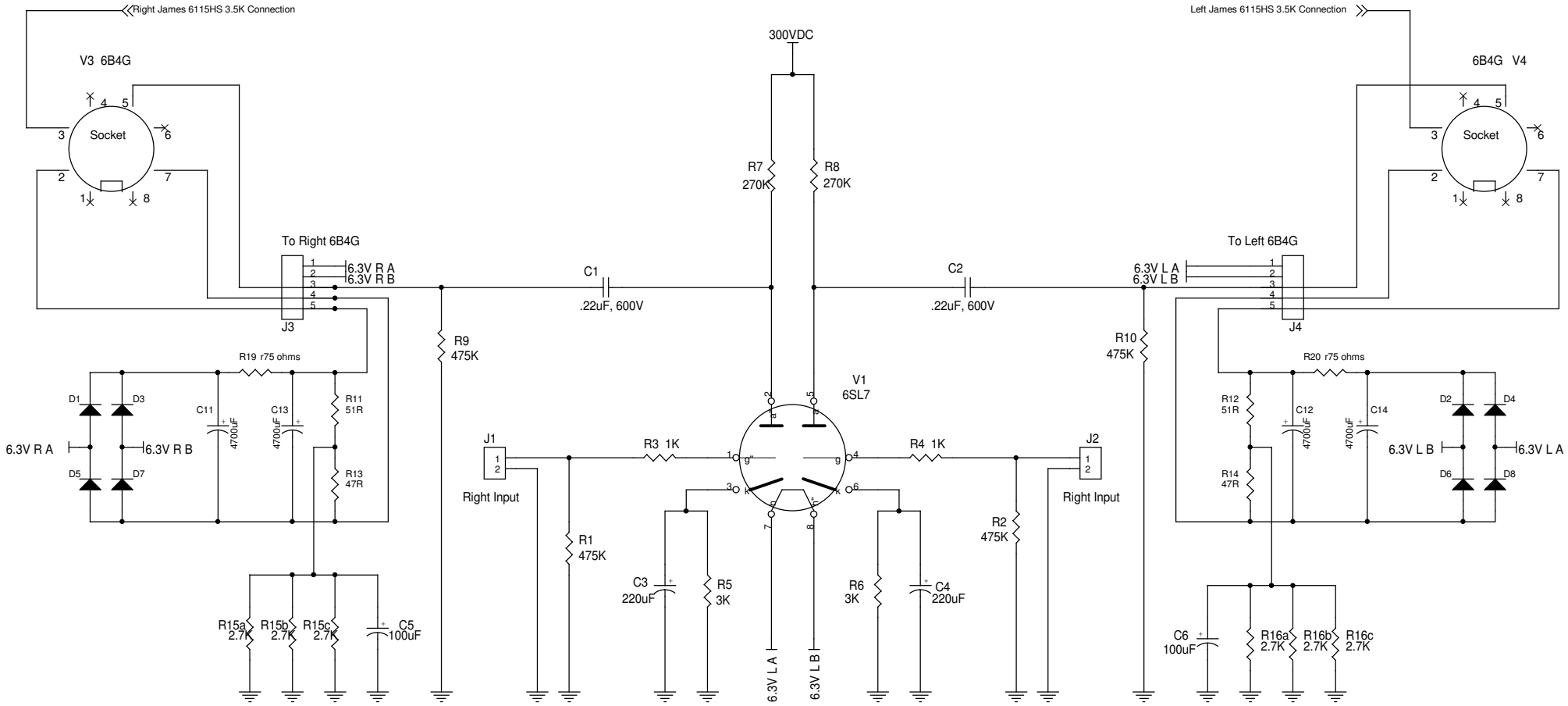
Get*Set*Go

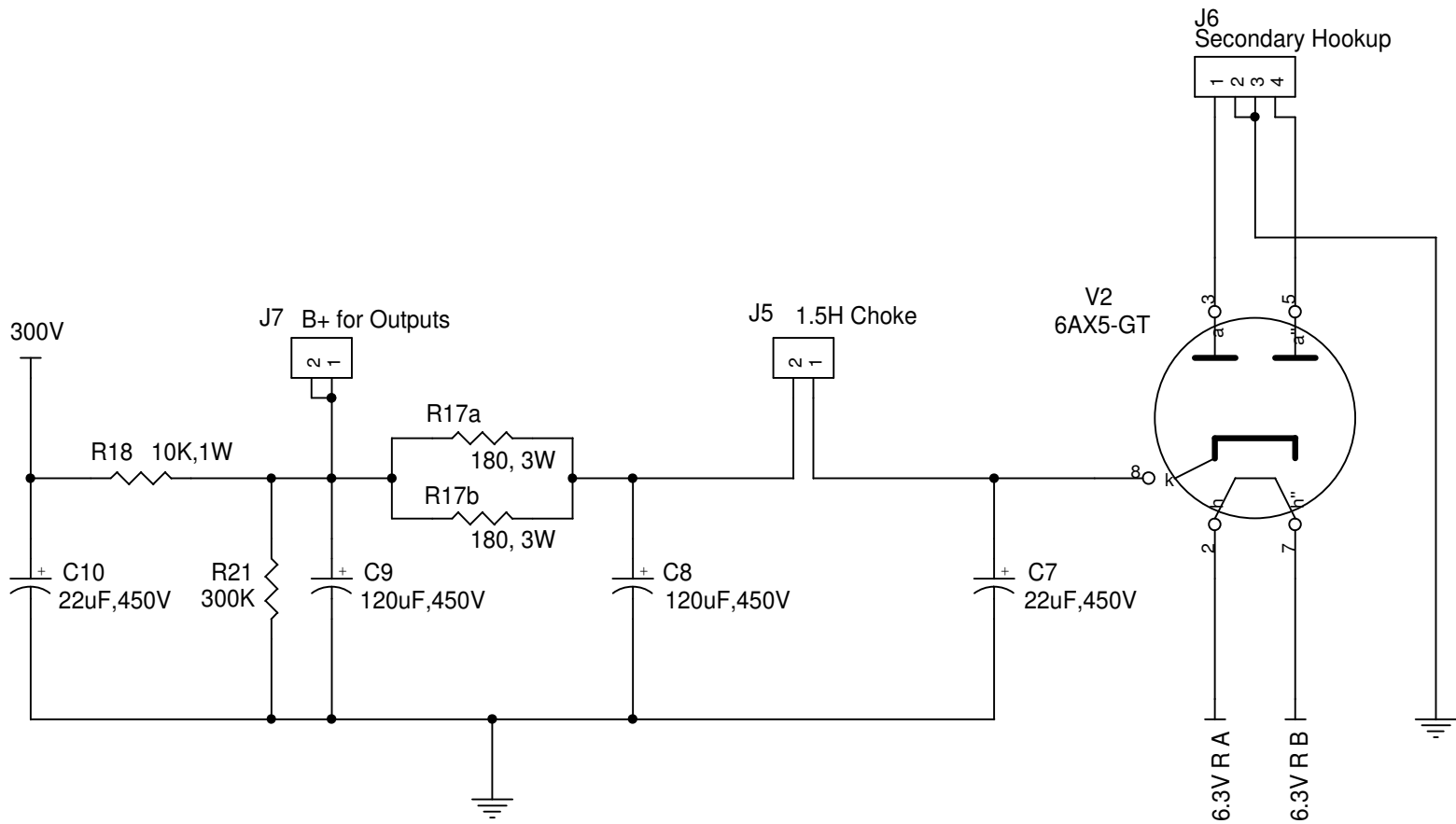
A Directly Heated, Single Ended Triode Design

INSTRUCTIONS FOR ASSEMBLY AND OPERATION



Price \$10.00





VOLTAGE CHART

- DC measurements (unless noted)
- Shorted input, no signal
- All measurements +/-5%

V1 6SL7

PIN#

1	0V
2	147V
3	1.8V
4	0V
5	147V
6	1.8V
7	6.3VAC < w/ 51V bias
8	6.3VAC < w/ 51V bias

V2 6AX5GT

PIN#

1	0V
2	6.3VAC < w/ 51V bias
3	324VAC
4	0V
5	324VAC
6	0V
7	6.3VAC < w/ 51V bias
8	333V

V3-V4 6B4G

PIN#

1	0V
2	54V < 6.3VDC difference
3	308V
4	0V
5	0V
6	0V
7	48V < 6.3VDC difference
8	0V

J1 & J2

PIN#

1	0V
2	0V

J3 & J4

PIN#

1	6.3VAC < w/ 51V bias
2	6.3VAC < w/ 51V bias
3	0V
4	54V
5	48V

J5

PIN#

1	333V
2	327V

J6

PIN#

1	324VAC
2	0V
3	0V
4	324VAC

J7

PIN#

1	319V
2	319V

diytube get*set*go

Tip: Put a dot in the checkbox if you have the part already as a quick reference when ordering parts. 'X' out the checkbox when you have installed the part on the PCB.

Item	QTY	Reference	Part	Mouser Part	Unit Cost
<input type="checkbox"/>	4	R1,R2,R9,R10	475K, 1/4W	71-RN60D-F-475K	0.24
<input type="checkbox"/>	2	R3,R4	1K, 1/4W	71-RN60D-F-1.0K	0.09
<input type="checkbox"/>	2	R5,R6	3.01K, 1/4W	71-RN60D-F-3.01K	0.09
<input type="checkbox"/>	2	R7,R8	270K, 1W	281-270K-RC	0.13
<input type="checkbox"/>	2	R11,R12	51 ohm, 1W	281-51-RC	0.13
<input type="checkbox"/>	2	R13,R14	47 ohm, 1W	281-47-RC	0.13
<input type="checkbox"/>	6	R15a-c,R16a-c	2.7K, 3W	71-CW2B-2.7K	1.21
<input type="checkbox"/>	2	R17a,R17b	180, 3W	72-RWM410-180-5	0.40
<input type="checkbox"/>	1	R18	10K, 1W	281-10K-RC	0.13
<input type="checkbox"/>	2	R19,R20	0R75, 3W	71-CW2B-0.75	1.21
<input type="checkbox"/>	1	R21	300K, 1W	281-300K-RC	0.13
<input type="checkbox"/>	2	C1,C2	0.22uF, 600V	75-715P600V0.22	3.37
<input type="checkbox"/>	2	C3,C4	220uF, 25V	647-UVZ1E221MPD	0.39
<input type="checkbox"/>	2	C5,C6	100uF, 100V	647-UVZ2A101MPD	0.63
<input type="checkbox"/>	2	C7,C10	22uF, 450V	647-UVZ2W220MHD	1.47
<input type="checkbox"/>	2	C8,C9	120uF, 450V	5985-380-450V121	3.10
<input type="checkbox"/>	4	C11-C14	4700uF, 16V	647-UVR1C472MHD	1.42
<input type="checkbox"/>	8	D1-D8	1N5821 Schottky	511-1N5821	0.39
<input type="checkbox"/>	4	J1,J2,J5,J7	2P .375" Terminal	571-14376644	0.61
<input type="checkbox"/>	2	J3,J4	5P .375" Terminal	571-14376647	1.53
<input type="checkbox"/>	1	J6	4P .375" Terminal	571-14376646	0.84
Terminals:		534-1502-2	0.17		
Stake punch:		534-TL-2	11.01		
Anvil kit:		534-1721	25.27		

diytube get*set*go

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Item	QTY	Ref	Part	Part Number	Unit Cost
<input type="checkbox"/>	1	SW1	Green Neon ON/OFF	103-R13-135B-02G-EV	1.76
<input type="checkbox"/>	1	F1	Fuse Holder	504-HTB-28M	2.88
<input type="checkbox"/>	1		Slo-Blo 3A Fuse	693-0034.3122	0.27
<input type="checkbox"/>	1		2-Prong AC Cord	173-11112-E	2.35
<input type="checkbox"/>	1		Rubber Grommet	534-740	0.24
<input type="checkbox"/>	2		Wire bushing	561-MP6258	0.15
<input type="checkbox"/>	2		Isolated RCA jacks	502-3501FPX	1.67
<input type="checkbox"/>	2		Washer	502-S2207	0.40
<input type="checkbox"/>	2		Washer	502-S1564	0.41
<input type="checkbox"/>	10		Standoffs	534-8414	0.52
<input type="checkbox"/>	2		Speaker Binding Post	164-19B2-EX	3.68

The following hardware can be purchased from BoltDepot.com and uses their part numbers. Locknuts can be subbed with nuts and star washers.

<input type="checkbox"/>	4		4-40 x 5/16 SS Phil Pan	9628	0.07
<input type="checkbox"/>	4		4-40 Locknuts	12018	0.14
<input type="checkbox"/>	10		6-32 x 1/4 SS Phil Pan	5316	0.07
<input type="checkbox"/>	10		6-32 Locknuts	12019	0.15
<input type="checkbox"/>	8		8-32 x 1/2 SS Phil Pan	1346	0.12
<input type="checkbox"/>	8		8-32 Locknuts	12020	0.16
<input type="checkbox"/>	6		10-32 x 1/2 SS Phil Pan	1366	0.13
<input type="checkbox"/>	6		10-32 Locknuts	12022	0.17

diytube get*set*go

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Item	QTY	Ref	Part	Part Number	Unit Cost
<input type="checkbox"/>	1	V1	6SL7		
<input type="checkbox"/>	1	V2	6AX5GT		
<input type="checkbox"/>	2	V3,V4	6B4G		
<input type="checkbox"/>	2	V1,V2	8pin PCB Socket		
<input type="checkbox"/>	2	V3,V4	8pin Chassis Socket		
<input type="checkbox"/>	1	T1	Dynaco PA-774 Power Transformer	PA774	59.95
<input type="checkbox"/>	2	T2,T3	James 6115HS Output Transformer	6115HS	\$145/pair

get*set*go Assembly Instructions

The get*set*go PCB has a dual silkscreen design, which permits mounting of all components – except the tube sockets – on either side. For typical construction, almost all the components will be placed on the bottom side of the board – the side with the diytube logo. The top side has silkscreen saying “PUT SOCKET ON THIS SIDE”.

- 1) On the top side of the board, where it says “PUT SOCKET ON THIS SIDE”, insert octal PCB socket. Fully insert the socket and solder pins 1, 4 & 6. Using an octal tube (junkbox variety is handy), test both sockets for ease of insertion. Also straighten the sockets at this point to where it is symmetrical and pleasing to the eye. Then solder the rest of the socket legs. This is a good time to inspect the socket, confirming that all eight pin sockets securely connect to the tube pins. Any that appear loose can be tightened up with a small screwdriver.
- 2) Stuff board with all through-hole resistors. Cross-reference the part with the parts list and check off the resistor once it is placed. Bend the leads of the resistor so that the part identifier markings are clearly visible. Once inserted, fold the leads back to hold the part in place. You can easily stuff the board before soldering them in place, which permits easy correction for misplaced components. Diodes and power resistors should be mounted about 1/8” off of the board for effective cooling. It is also suggested that for maximum heat dissipation that the following resistors be placed on the top side (ie socket side) of the PCB: R15A, R15C, R16A, R16C, R17B, R19, R20 and Rxx (future bleeder).
- 3) Solder all the stuffed resistors. Then gently pull back the excess lead straight out from the board with pair of small pliers. With a pair of cutters, trim close to the board, but do not cut into the solder joint itself.
- 4) Stuff and solder the electrolytic capacitors, noting the polarized markings.
- 5) When stuffing your coupling caps, you will be able to use three different sets of holes. Use what fits your capacitor best. The thru-holes are large enough for hookup wire in case you want to use a larger outboard cap. 400V rated capacitors are OK for use. Any value .22uF and up is fine.

TIP: If using Auricaps, mount with the black lead towards the center of the board.

