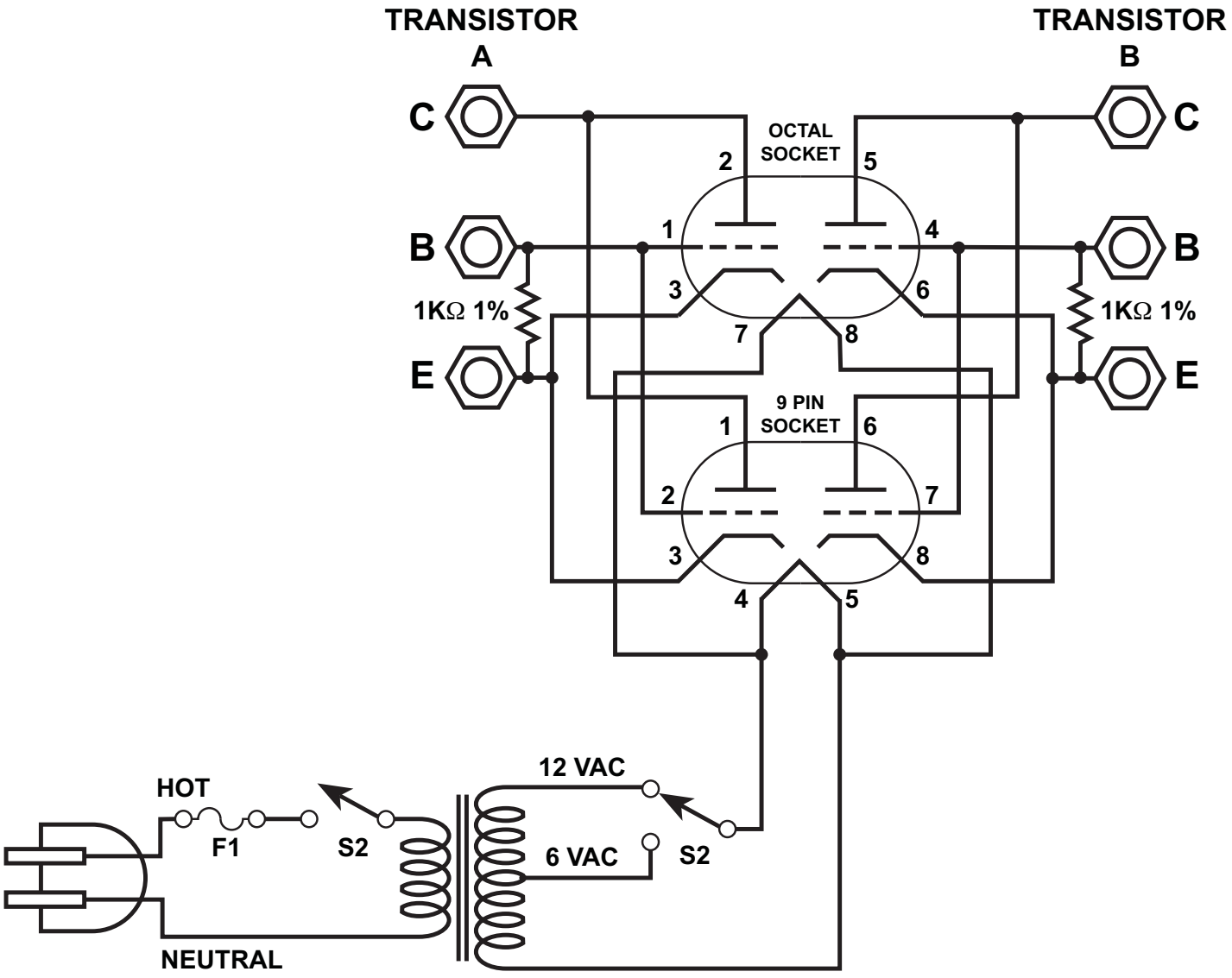
Dual Triode & Pentode Test Fixtures for the Tektronix 575 Transistor Tester

By glydeck for TekScopes Yahoo Group

This document describes the construction and use of very simple test fixtures for the Tektronix 575 transistor tester that will allow it to be used for the testing of some of the most common dual triodes and minature pentodes used in audio and hobby electronics.

Schematic for Triode Test Fixture

Rev. 1 - Added Resistors to Fixture

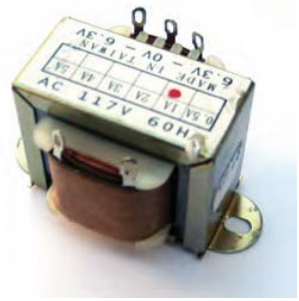


By adding the 1K resistors the ma curent settings are converted to volts per step

STEP SELECTOR	VOLTS / STEP
.1 ma per step	.1 volt per step
.2 ma per step	.2 volt per step
.5 ma per step	.5 volt per step
1 ma per step	1 volt per step
2 ma per step	2 volt per step
5 ma per step	5 volt per step

Parts List for Triode Test Fixture

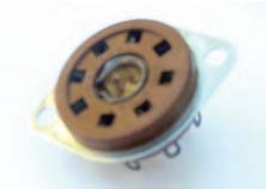
SERPAC Enclosure
from Frys



Heater Transformer
from All Electronics

Power Switch S1
From All Electronics

12V 6V Switch S2
From All Electronics



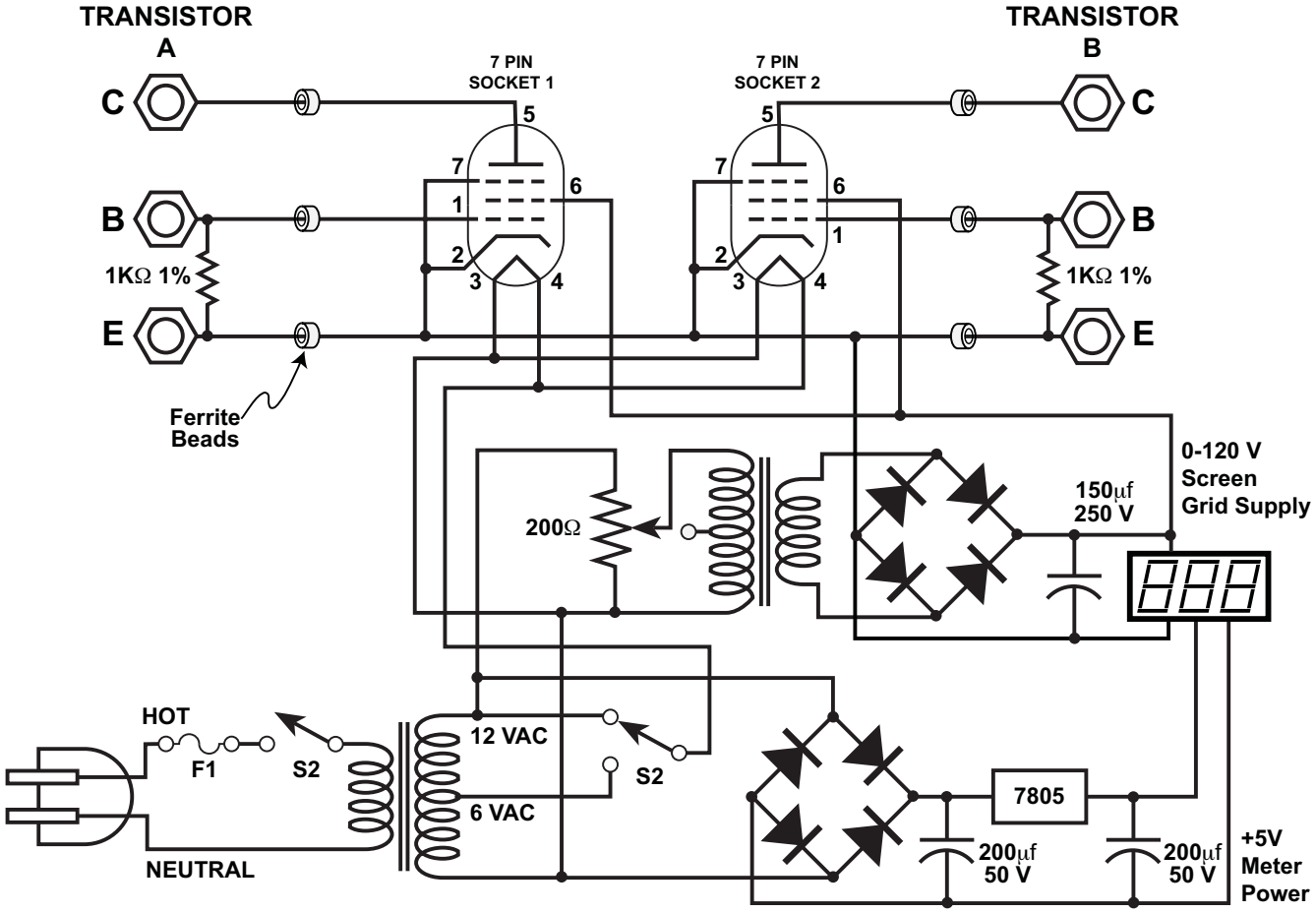
Octal Tube Socket
Apex Surplus

9 Pin Tube Socket
Apex Surplus

6 Pins for Tek 575
Apex Surplus

Schematic for Pentode Test Fixture

Rev. 2- Added meter and screen grid supply



By adding the 1K resistors the ma curent settings are converted to volts per step

Parts List for PentodeTest Fixture - 1

SERPAC Enclosure
from Frys

2 - Heater Transformers
from All Electronics

LED Panel Meter
from All Electronics

2 - Switches S1 & S2
From All Electronics

Knob
From All Electronics

2 - 7 Pin Tube Sockets
Apex Surplus

Parts List for PentodeTest Fixture - 2

6 - Ferrite Beads
from All Electronics

2 - 1K 1% Resistors
from All Electronics

2 - Bridge Rectifiers
from All Electronics

5 Volt Regulator
from All Electronics

2 - Low Voltage Caps
From All Electronics

High Voltage Cap
From All Electronics

200 Ohm Rehostat
Apex Surplus

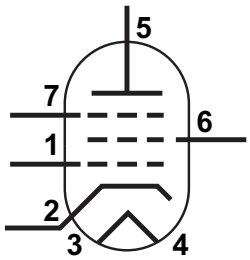
6 Pins for Tek 575
Digikey #6072K-ND

Supported Dual Triodes

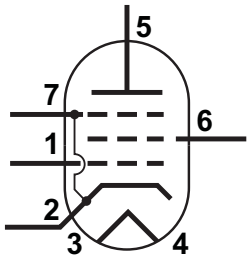
Tube	Heater Voltage	Socket
ECC85	6.3 VAC	9 PIN
ECC83	12.6 VAC	9 PIN
ECC82	12.6 VAC	9 PIN
ECC81	12.6 VAC	9 PIN
ECC189	6.3 VAC	9 PIN
EC88	6.3 VAC	9 PIN
6SN7	6.3 VAC	8 PIN
6SL7	6.3 VAC	8 PIN
6GU7	6.3 VAC	9 PIN
6FQ7	6.3 VAC	9 PIN
6ES8	6.3 VAC	9 PIN
6EM7	6.3 VAC	8 PIN
6EA7	6.3 VAC	8 PIN
6DT8	6.3 VAC	9 PIN
6DN7	6.3 VAC	8 PIN
6DJ8	6.3 VAC	9 PIN
6CG7	6.3 VAC	9 PIN
6BZ8	6.3 VAC	9 PIN
6BQ7A	6.3 VAC	9 PIN
6BL7GTA	6.3 VAC	8 PIN
6BK7B	6.3 VAC	9 PIN
6BC8	6.3 VAC	9 PIN
6AS7G	6.3 VAC	8 PIN
6AQ8	6.3 VAC	9 PIN
12BH7	12.6 VAC	9 PIN
12AZ7	12.6 VAC	9 PIN
12AY7	12.6 VAC	9 PIN
12AX7	12.6 VAC	9 PIN
12AU7	12.6 VAC	9 PIN
12AT7	12.6 VAC	9 PIN
7803	6.3 VAC	9 PIN

Supported Pentodes

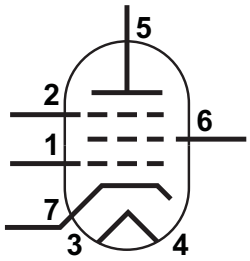
Tube	Heater Voltage	Diagram	7 PIN SOCKETS
EF95	6.3 VAC	7BD	
EF93	6.3 VAC	7BK	
6JH6	6.3 VAC	7CM	
6JH6	6.3 VAC	7CM	
6HZ6	6.3 VAC	7EN	
6HS6	6.3 VAC	7BK	
6GY6	6.3 VAC	7EN	
6GX6	6.3 VAC	7EN	
6GM6	6.3 VAC	7CM	
6EW6	6.3 VAC	7CM	
6DT6A	6.3 VAC	7EN	
6DK6	6.3 VAC	7CM	
6DE6	6.3 VAC	7CM	
6DC6	6.3 VAC	7CM	
6CF6	6.3 VAC	7CM	
6CE5	6.3 VAC	7BD	
6CB6A	6.3 VAC	7CM	
6BZ6	6.3 VAC	7CM	
6BJ6	6.3 VAC	7CM	
6BH6	6.3 VAC	7CM	
6BC5	6.3 VAC	7BD	
6BA6	6.3 VAC	7BK	
6AU6	6.3 VAC	7BK	
6AK6	6.3 VAC	7BK	
6AK5	6.3 VAC	7BD	
6AH6	6.3 VAC	7BD	
6AG5	6.3 VAC	7BD	
12EK6	12.6 VAC	7CM	
12DZ6	12.6 VAC	7CM	
12CX6	12.6 VAC	7CM	
12BZ6	12.6 VAC	7CM	
12BL6	12.6 VAC	7CM	
12BD6	12.6 VAC	7CM	
12BA6	12.6 VAC	7CM	
12AW6	12.6 VAC	7CM	
12AU6	12.6 VAC	7BK	
12AF6	12.6 VAC	7CM	



7CM, 7EN



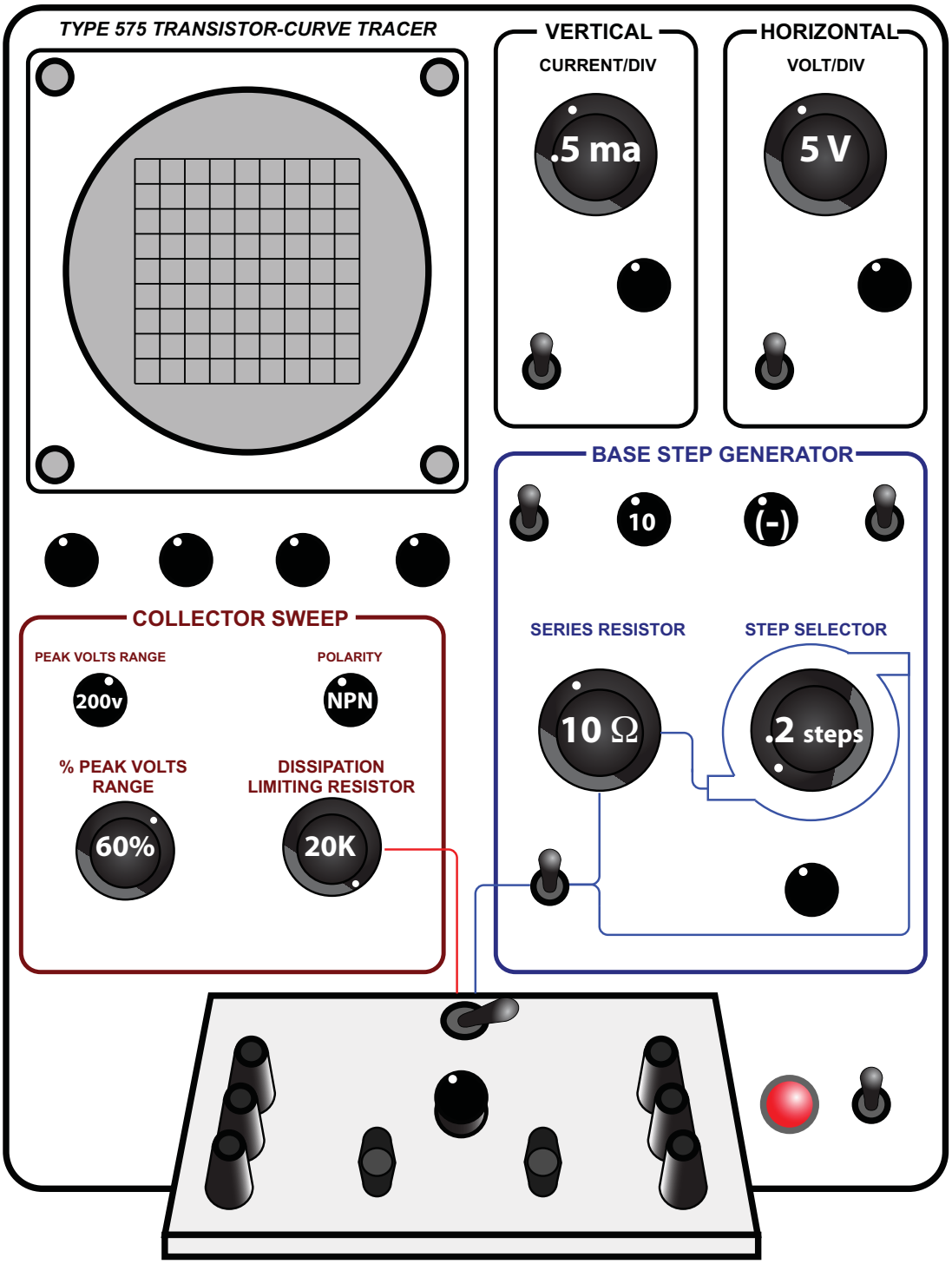
7BD



7BK

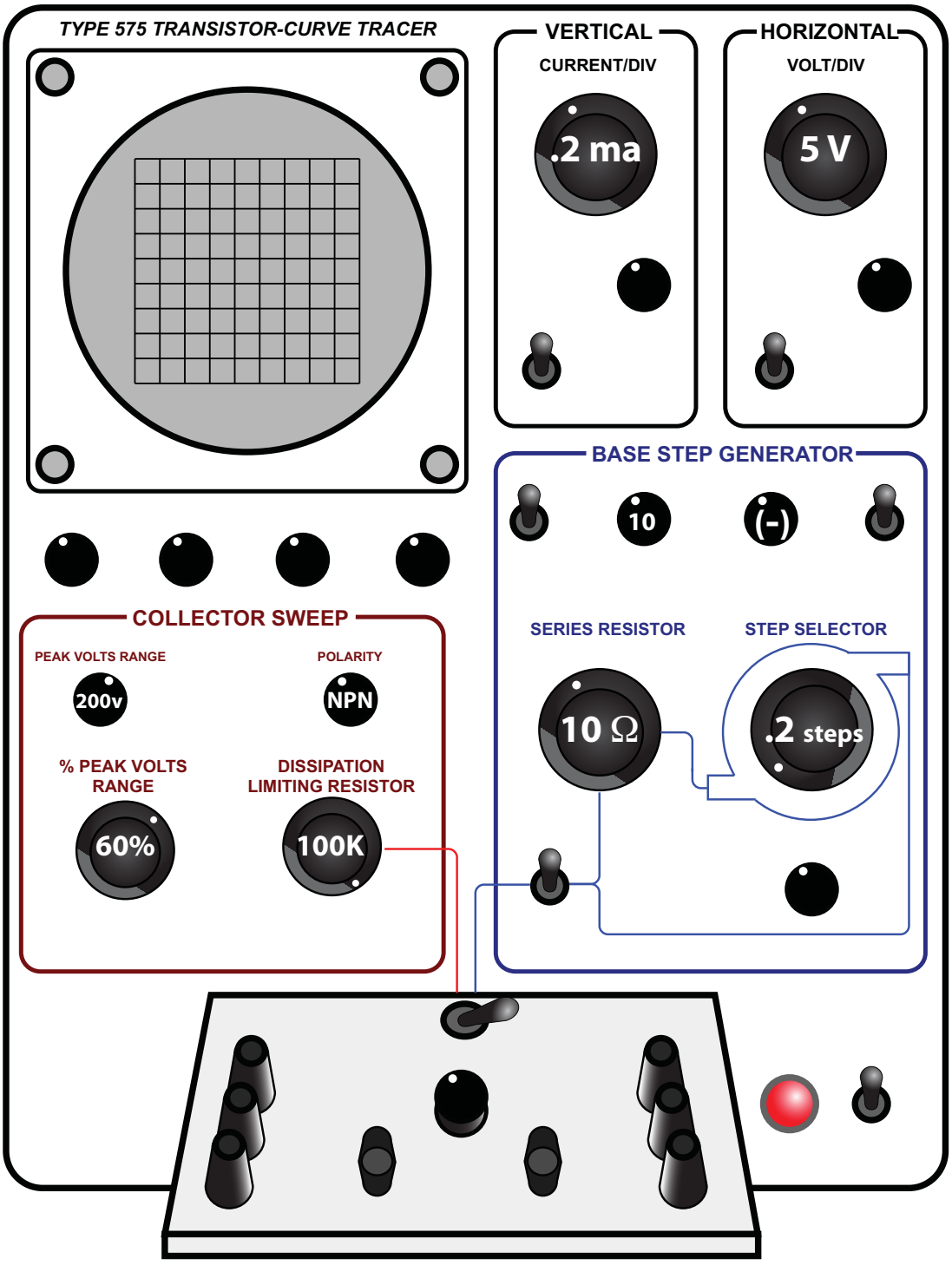
6DJ8

Set Heater to 6 volts on Test Fixture



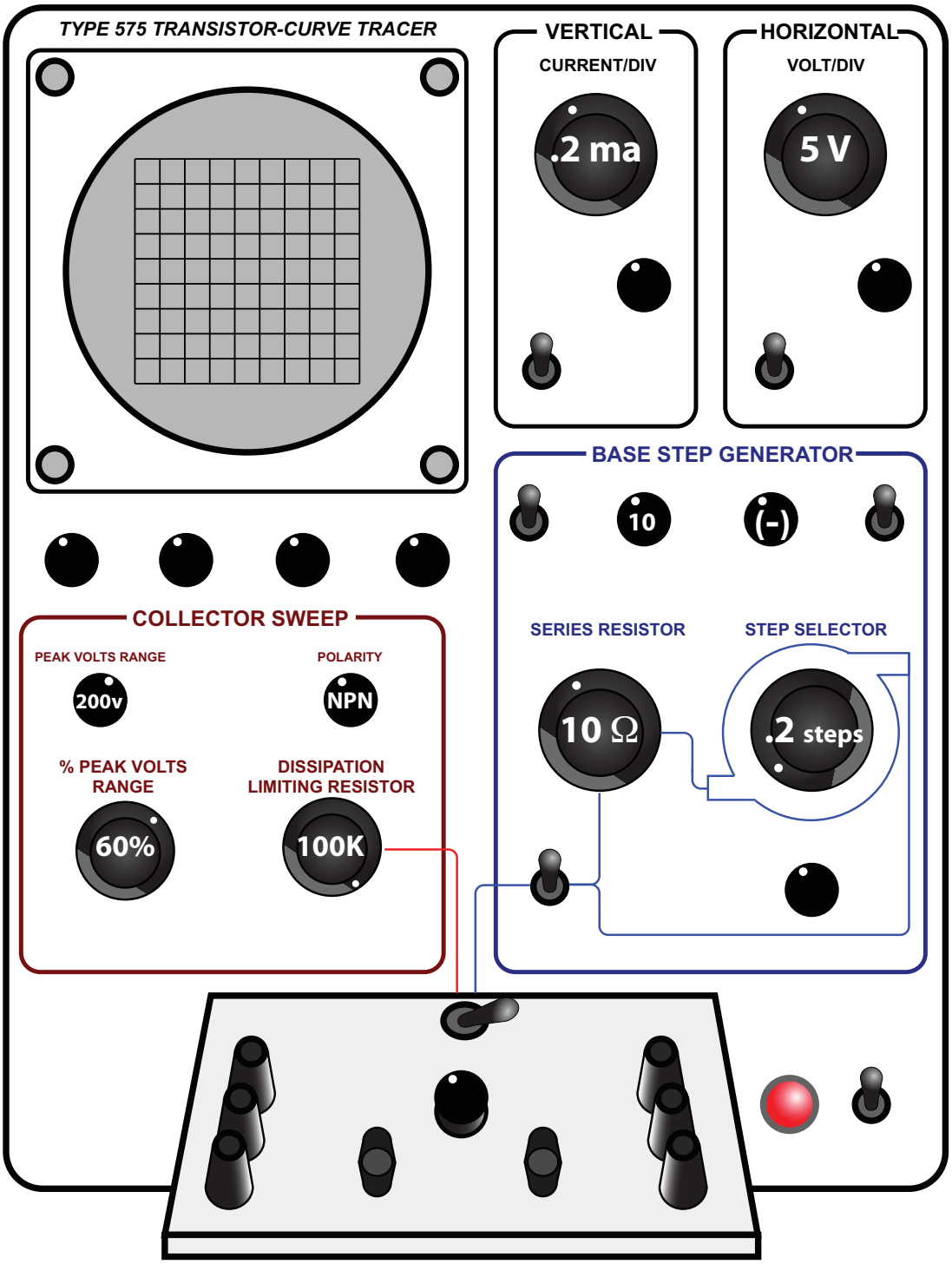
6SN7

Set Heater to 6 volts on Test Fixture



12AU7

Set Heater to 12 volts on Test Fixture



12AX7

Set Heater to 12 volts on Test Fixture