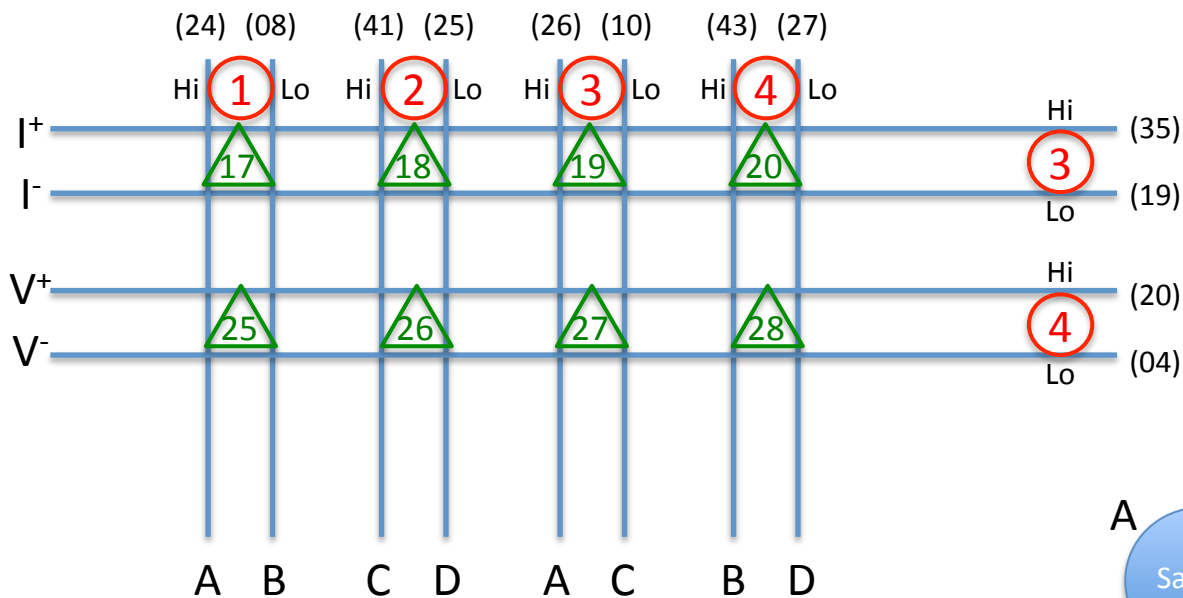
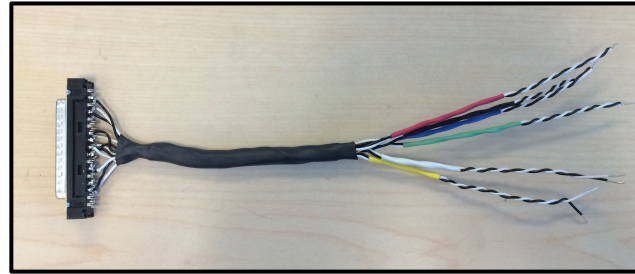


Resistivity Matrix Card Configuration – Keithley 7709

Wiring Color Code

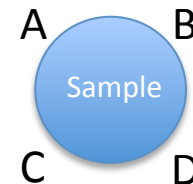
A – Red
B – Black
C – Blue
D – Green
I – White
V – Yellow



- Row/Column

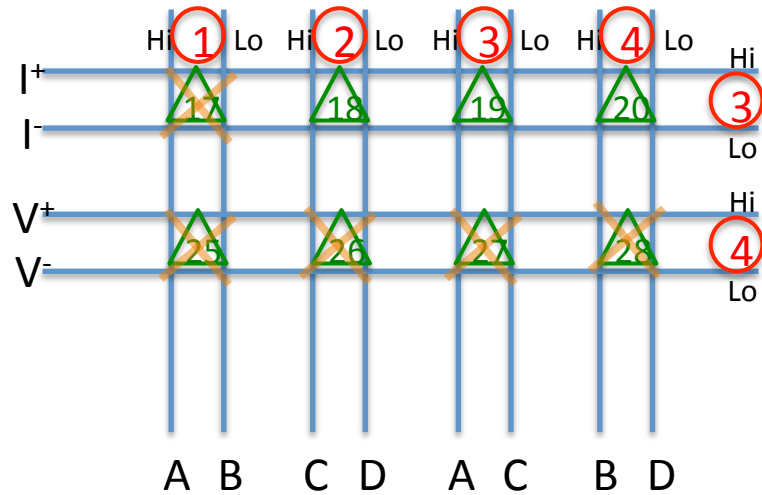
- Channel

(#) - Wiring Pin

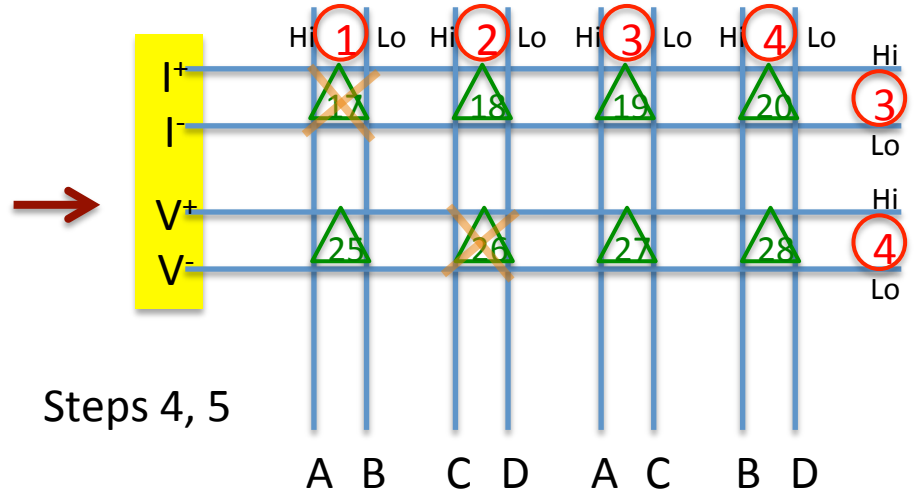
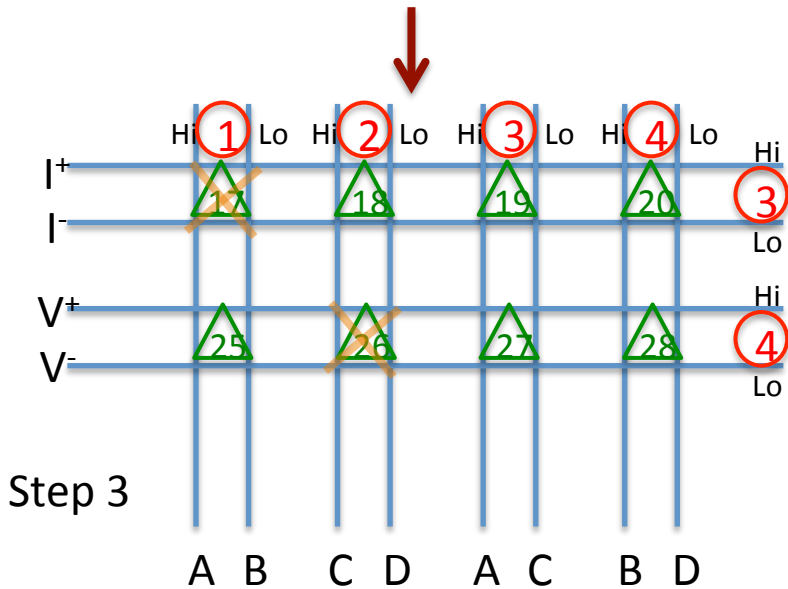


Measurement Sequence – $R_{AB, CD}$

Steps 1, 2

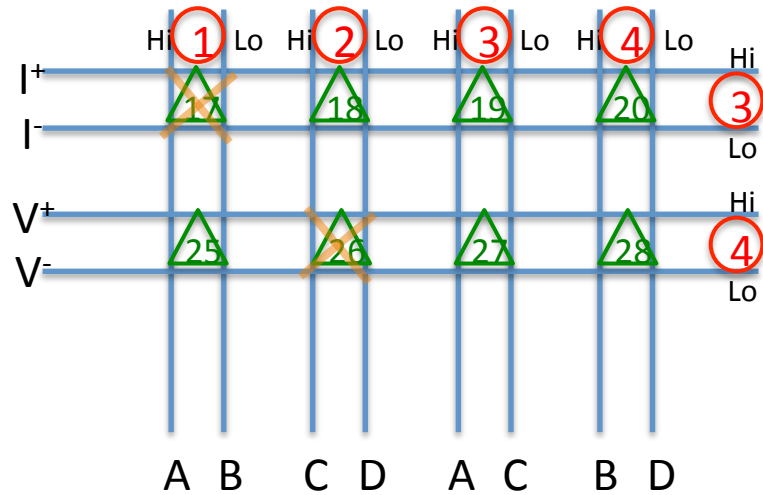


1. Current Off
2. Short Card – Close 17, 25, 26, 27, 28
3. Prepare Measurement - Open 25, 27, 28
4. Current On, Delay, Measure Voltage
5. Current Reverse, Delay, Measure Voltage



Measurement Sequence – $R_{AB, CD}$

Step 6

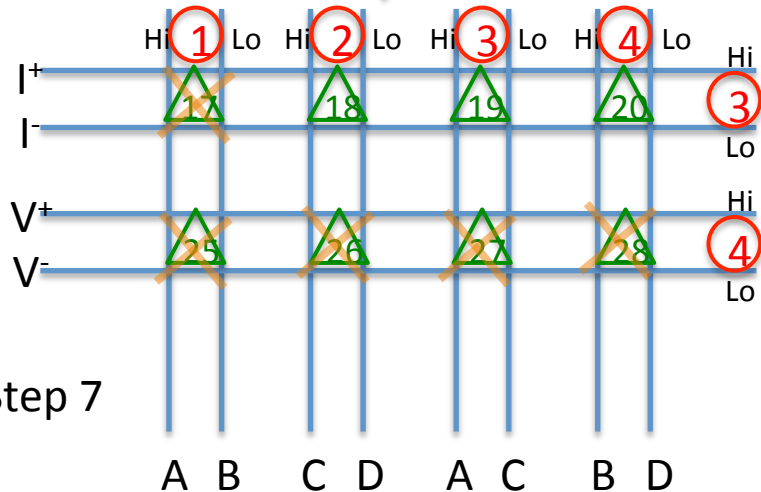


6. Current Off

7. Short Card – Close 25, 27, 28

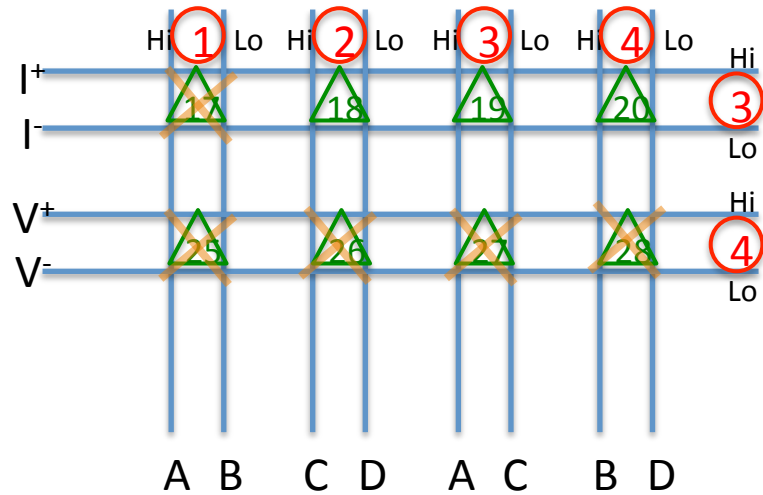


Step 7

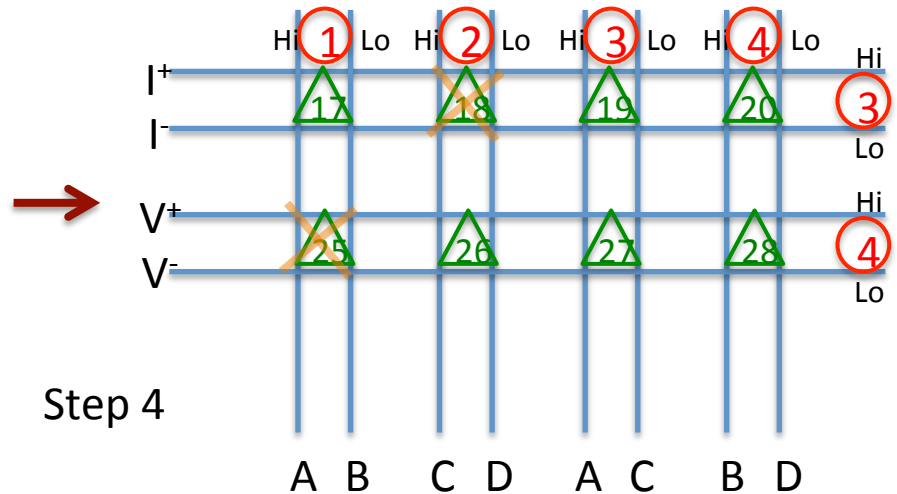
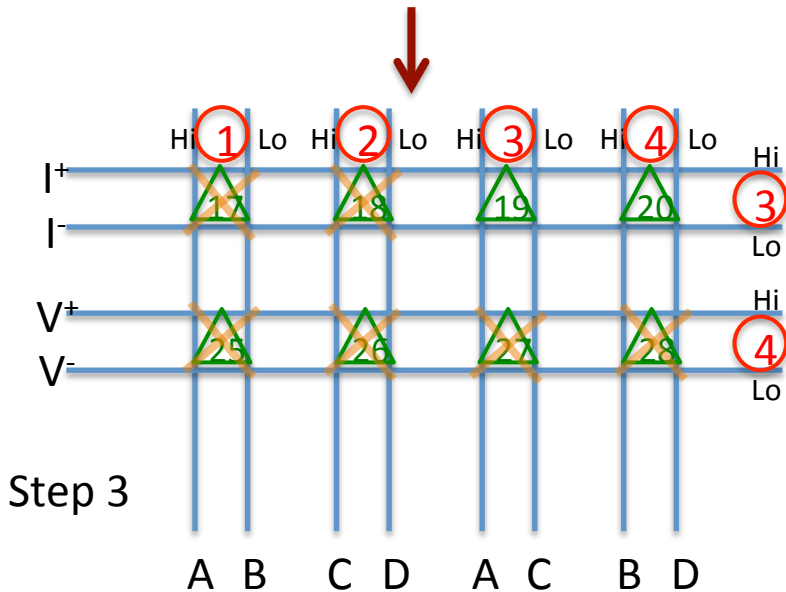


Measurement Sequence – $R_{CD, AB}$

Steps 1, 2

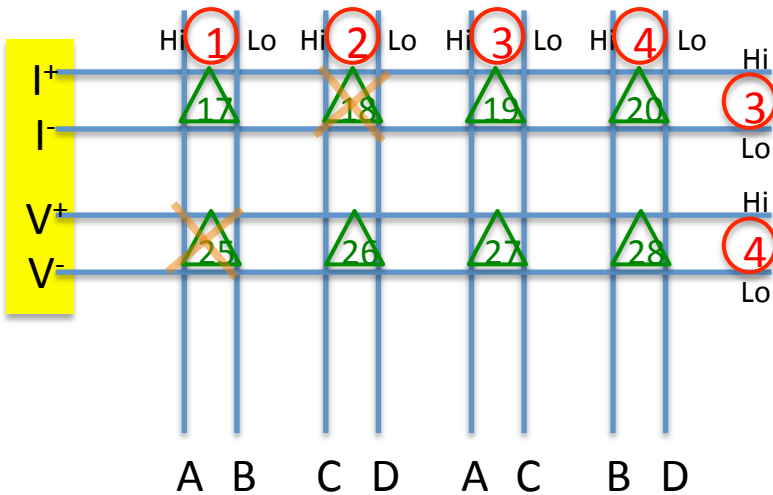


1. Current Off
2. Short Card – Close 17, 25, 26, 27, 28
3. Prepare Measurement – Close 18
4. Prepare Measurement – Open 17, 26, 27, 28

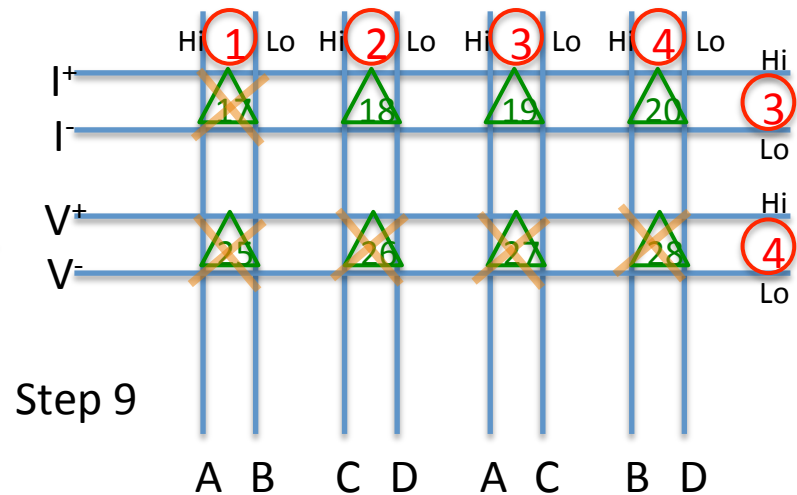
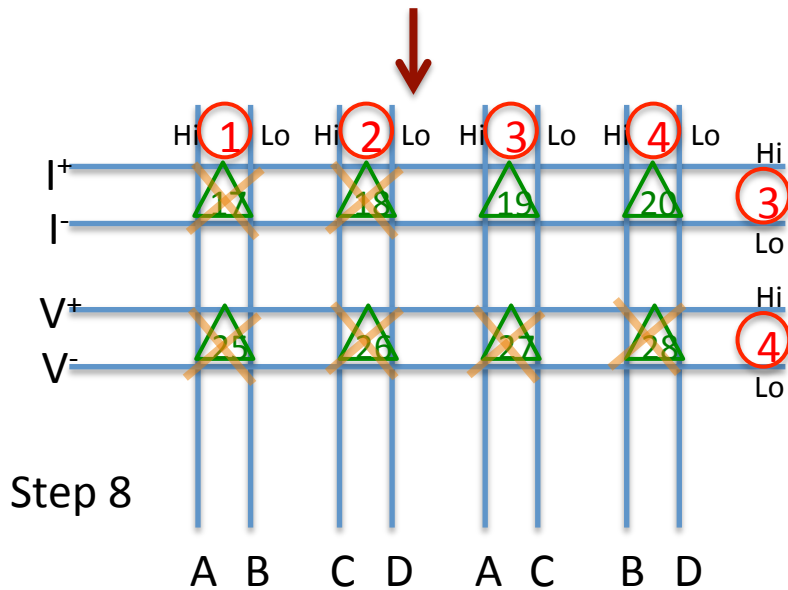


Steps 5, 6, 7

Measurement Sequence – $R_{CD, AB}$

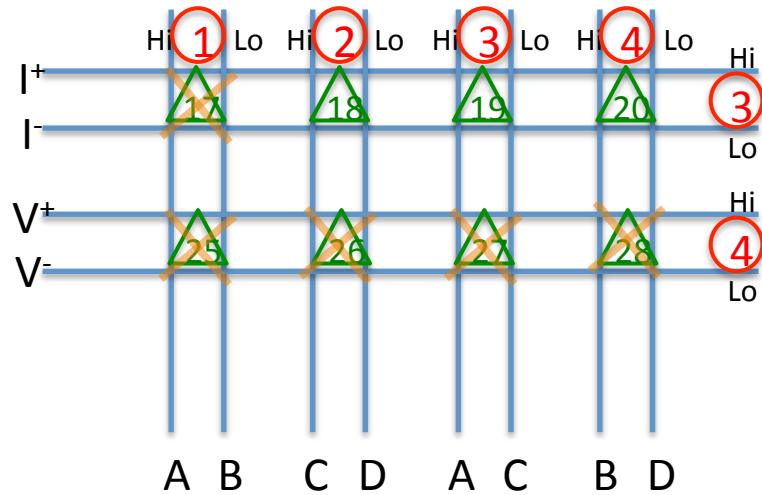


5. Current On, Delay, Measure Voltage
6. Current Reverse, Delay, Measure Voltage
7. Current Off
8. Short Card – Close 17, 26, 27, 28
9. Finish – Open 18

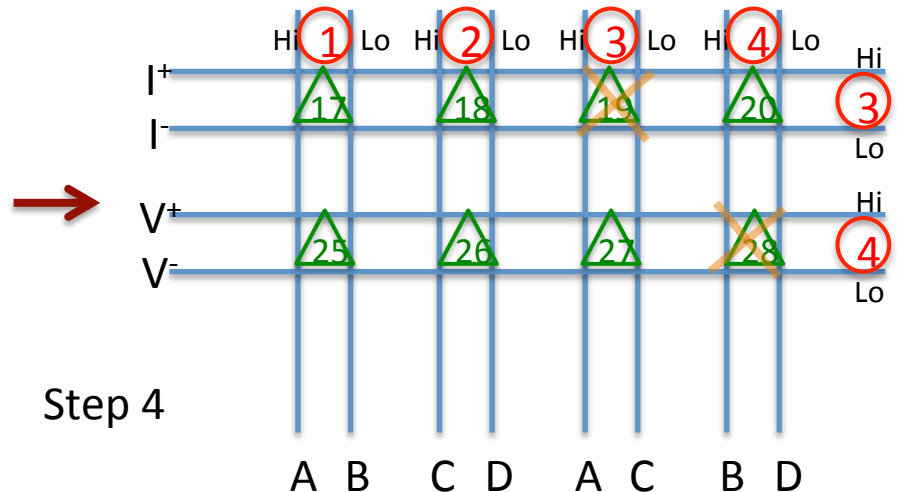
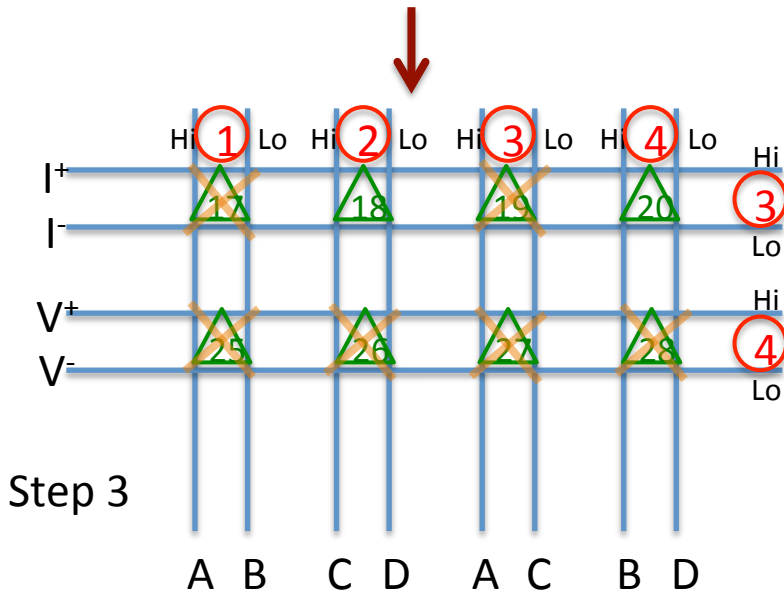


Measurement Sequence – $R_{AC, BD}$

Steps 1, 2

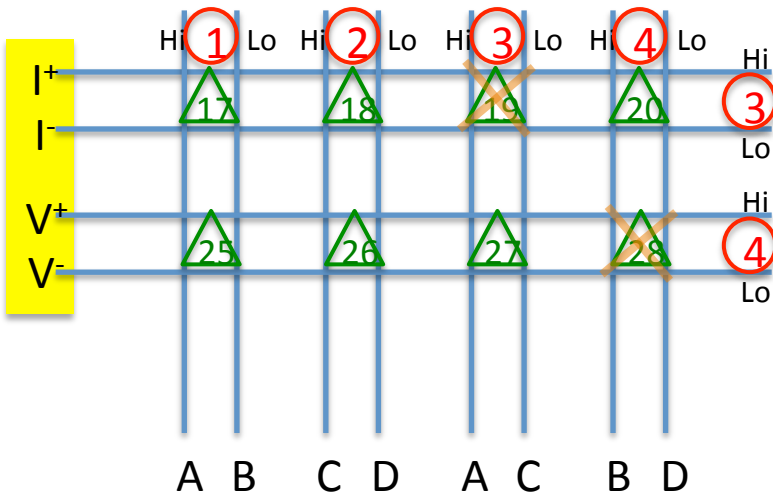


1. Current Off
2. Short Card – Close 17, 25, 26, 27, 28
3. Prepare Measurement – Close 19
4. Prepare Measurement – Open 17, 25, 26, 27

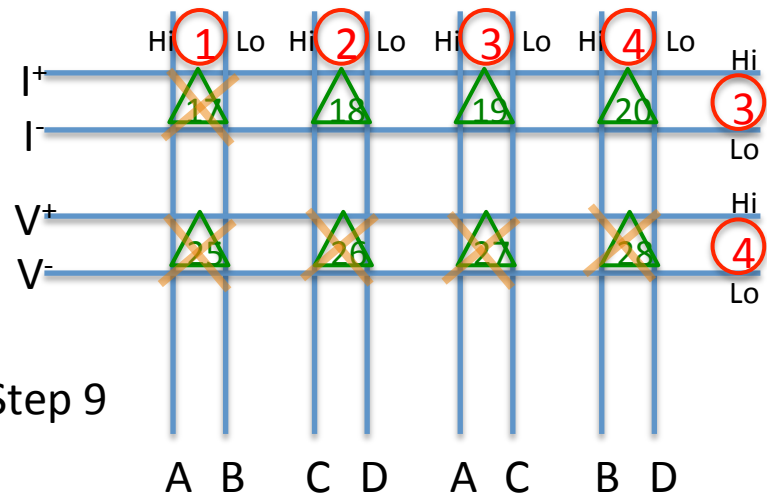
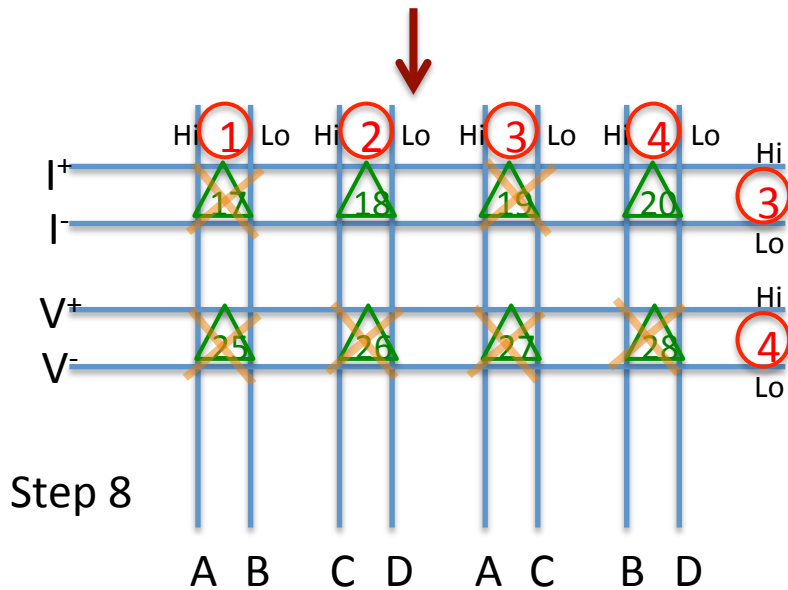


Steps 5, 6, 7

Measurement Sequence – $R_{AC, BD}$

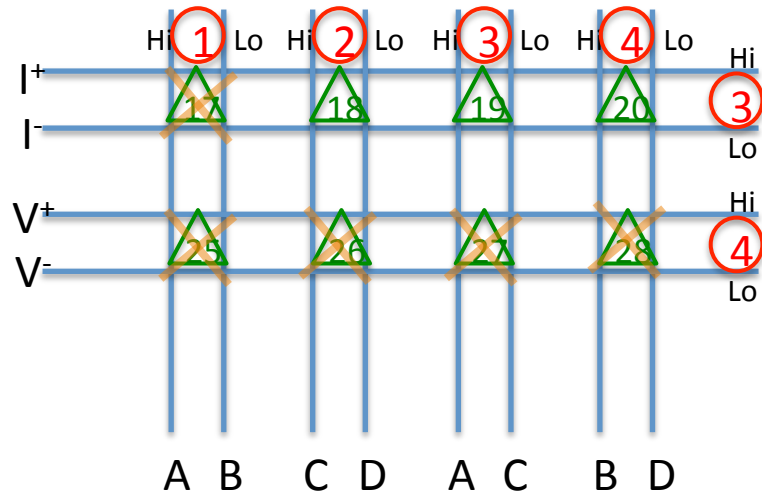


5. Current On, Delay, Measure Voltage
6. Current Reverse, Delay, Measure Voltage
7. Current Off
8. Short Card – Close 17, 25, 26, 27
9. Finish – Open 19

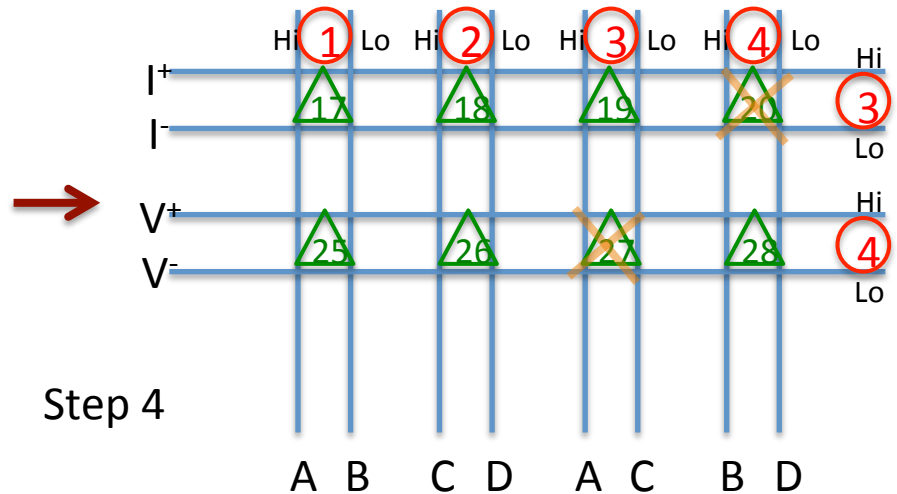
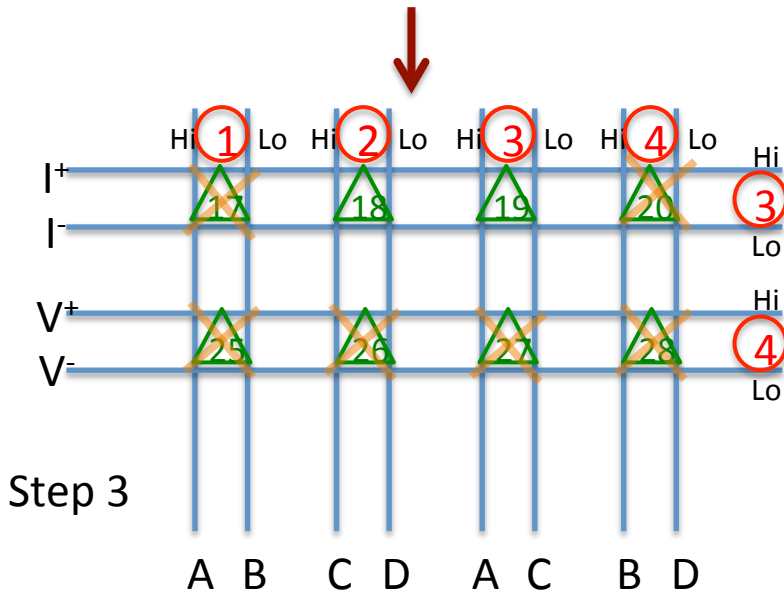


Measurement Sequence – $R_{BD, AC}$

Steps 1, 2

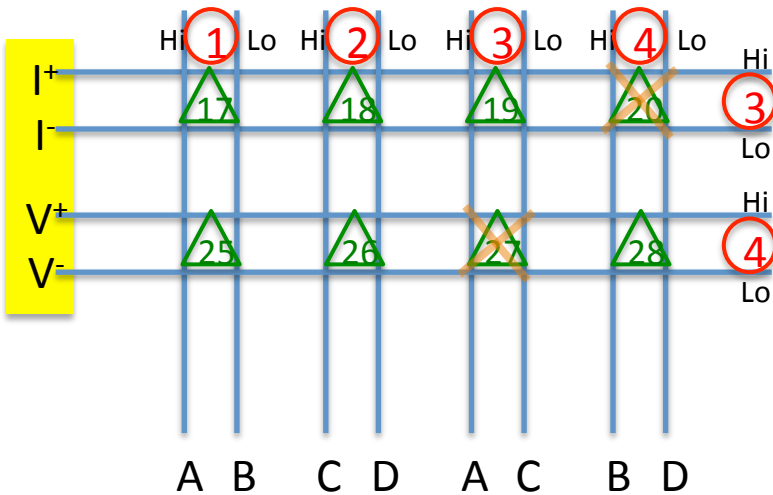


1. Current Off
2. Short Card – Close 17, 25, 26, 27, 28
3. Prepare Measurement – Close 20
4. Prepare Measurement – Open 17, 25, 26, 28



Steps 5, 6, 7

Measurement Sequence – $R_{BD, AC}$



5. Current On, Delay, Measure Voltage
6. Current Reverse, Delay, Measure Voltage
7. Current Off
8. Short Card – Close 17, 25, 26, 28
9. Finish – Open 20

