Breadboarding Series Parallel Circuits

We will be breadboarding two basic circuits using PTL 3 and PTL 4 breadboards.
PTL 3 circuit 1, schematic diagram
First insert a connecting wire.
Insert Resistor 1

Remember to line up the connections vertically.
Insert Resistor 2

Remember to line up the connections vertically.
Insert Resistor 3

Look at the vertical connections in 12 g – 12 j.
Insert last connecting wire, thus circuit 1 on the PTL 3 is complete
PTL 4 circuit 1, schematic diagram
First insert a connecting wire.
Insert Resistor 1
Insert Resistor 2
Insert Resistor 3
Place last jumper wires, thus circuit 1 on the PTL 4 is complete.

Look at the vertical connections in 21 g – 21 j.
PTL 3 circuit 2, schematic diagram
Insert the first jumper wire
Insert the first resistor
Insert the second resistor
Insert the third resistor
Insert the fourth resistor

Make sure R2 – R4 are in parallel.
Insert the fifth resistor

Look at the vertical connections in \textbf{21 f – 21 i}. 
Insert last wire, thus circuit 2 on PTL 3 is complete.

Look at the vertical connections in 21 b & 21 d.
PTL 4 circuit 2, schematic diagram
Insert the jumper wire
Insert the first resistor

Look at the vertical connections in 13 h & 13 i.
Insert the second resistor

Look at the vertical connections in 20 i & 20 j.
Insert the third resistor

Look at the vertical connections in 27 h & 27 j.
Insert fourth resistor

Look at the vertical connections in 21 g – 21 j
Insert the fifth resistor

Look at the vertical connections in 21 f – 21 j
Insert last jumper wires, thus circuit 2 on PTL4 is complete.

Look at the vertical connections in 27 b & 27 d.
Completed circuit with the jumper wires slightly different

Look at the vertical connections.
The End

- Developed and Produced by the Instructors in the CIE Instruction Department. © 09/2011