

LESSON 11

Solderless Circuit Board

Watch video Lesson 11



Let's now take a look at what is called a **Solderless Circuit Board** or Solderless Breadboard.

Study the five boxes on the right very carefully so understand well how a solderless circuit board is constructed.

There are many sizes of solderless circuit boards so that we can build both small and large circuits.

We mostly use low voltages with solderless circuit boards so that we do not cause damage to them.

1. A **Solderless Circuit Board** has many groups of 5 holes. Each group of the 5 holes is connected inside the board by a continuous metal clip. This clip holds onto any wire plugged into it.

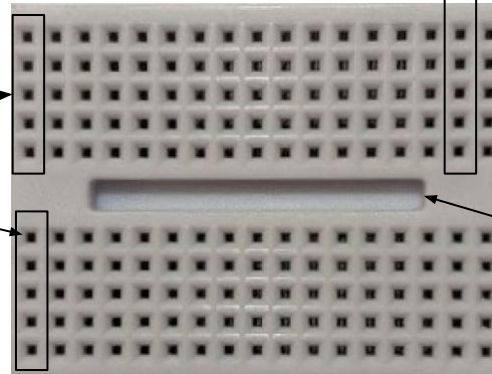
Any lead (or wire) inserted into one hole of a group of 5 is connected to any other lead inserted into that same group.

Note: None of the groups of 5 are connected to each other.

2. **Group of 5 holes**

There are 34 of these groups on this board.

5. This group is **not** connected to this group or any other group.



3. This is a **Channel** to allow insertion of an integrated circuit across it.

4. On this solderless circuit board, there are 17 groups of 5 holes on each side of the Channel, for a **total of 34 groups**.



Practice Quiz

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Answer these questions	Activity Page Lab 1201	Connecting with a Solderless Circuit Board	11b
<p>(1) How many groups of 5 holes are there in the solderless circuit board?</p> <p>_____</p> <p>(2) What is the purpose of the channel in the middle of the solderless circuit board is to allow the insertion of an integrated:</p> <p>_____</p> <p>(3) Are any groups of 5 holes connected to any other group?</p> <p>_____</p>	<p>(4) The purpose of a solderless circuit board is to be able to connect circuits without the use of?</p> <p>_____</p> <p>(5) True or False? There is only one size of solderless circuit board.</p> <p>_____</p> <p>(6) How many groups of 5 holes are on each side of the channel of the solderless circuit board in this lab?</p> <p>_____</p> <p>(7) True or False? To connect two wires on a solderless circuit board, you insert the two wires into the same group of 5.</p> <p>_____</p> <p>Copyright Mr Circuit Technology 2023</p>	<p>(8) Technicians and engineers use solderless circuit boards to allow them to build circuits without the use of:</p> <p>_____</p> <p>(9) True or False? We use low voltages on solderless circuit boards to prevent damage to them.</p> <p>_____</p> <p>(10) True or False? Each group of 5 holes has a metal clip that connects any wires plugged into that group of 5 holes.</p> <p>_____</p>	