Aalborg University Copenhagen
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Sensors Technology

Basic electronic circuits – analysis and sensing applications

Lab excercises 02

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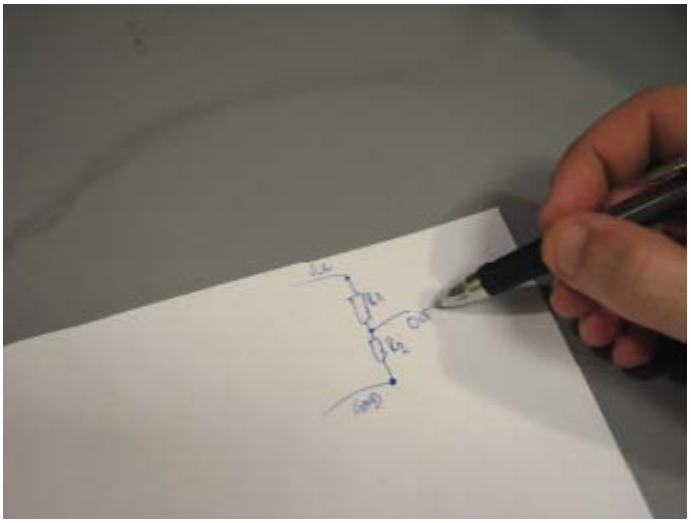
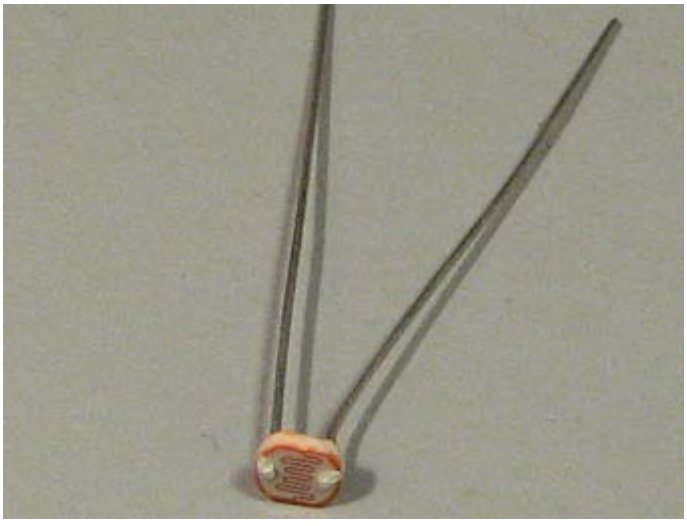
Contents

1 Introduction

With this sheet, we begin our lab excercises in sensors technology. Therefore, we will first get acquainted with the tools at our disposal - and then we will proceed with implementation of some of the circuits discussed in the corresponding part of the lectures.

2 A LDR (photoresistor) voltage divider circuit



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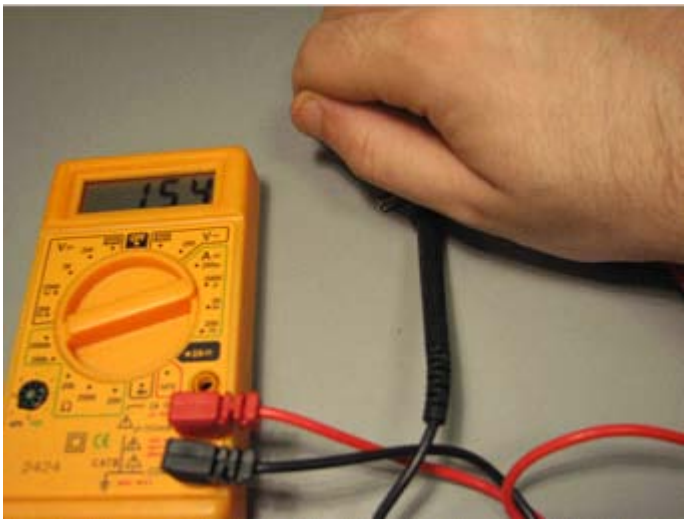
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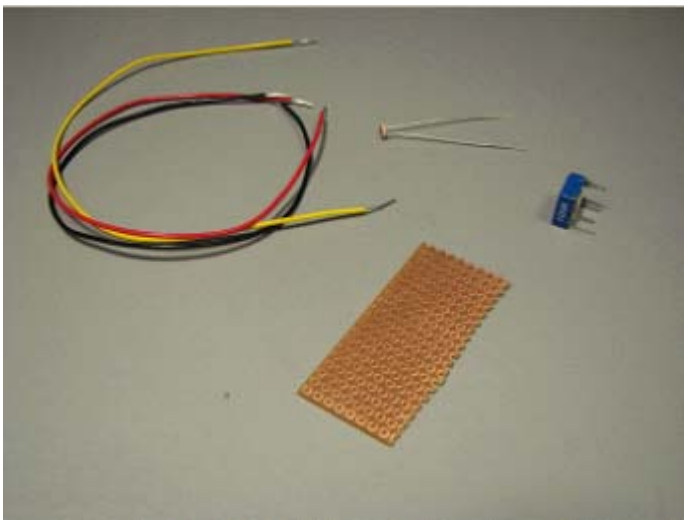

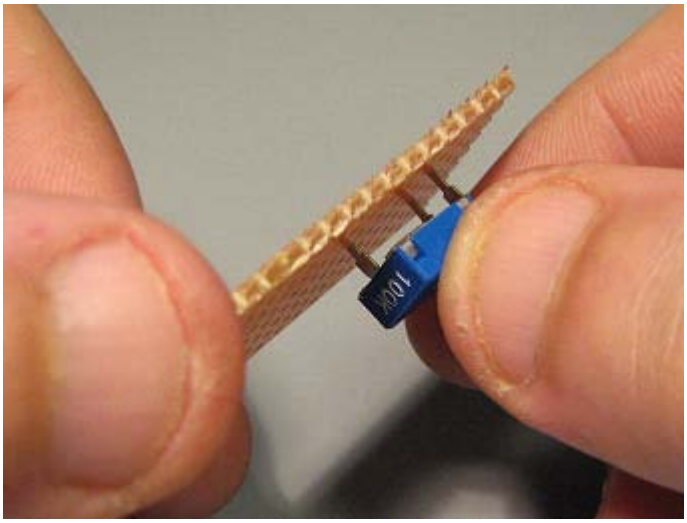

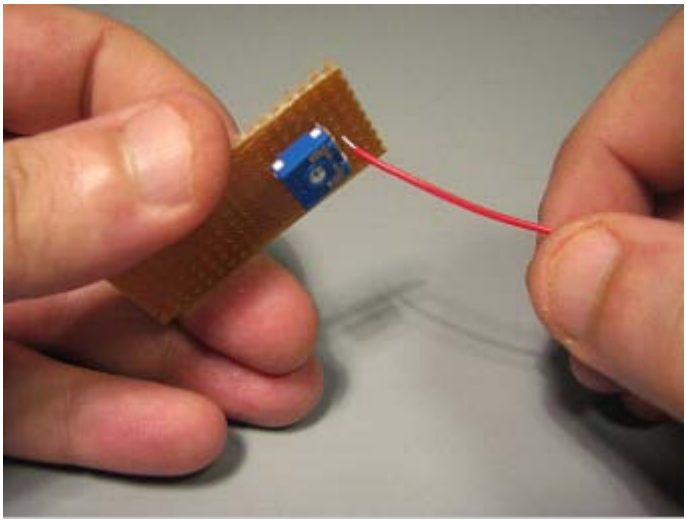

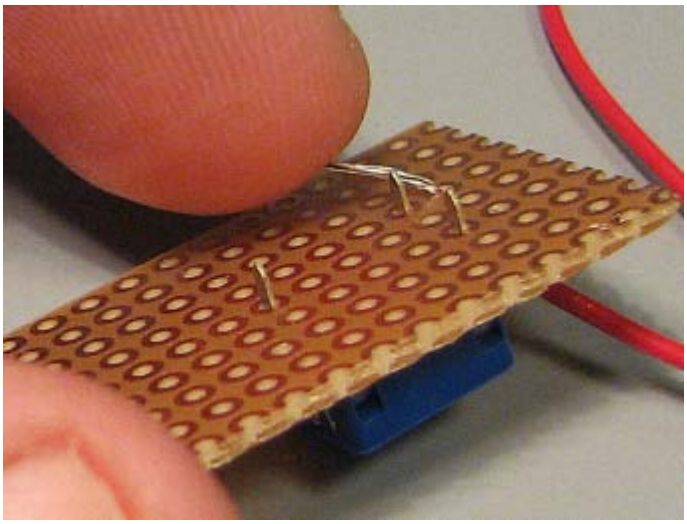

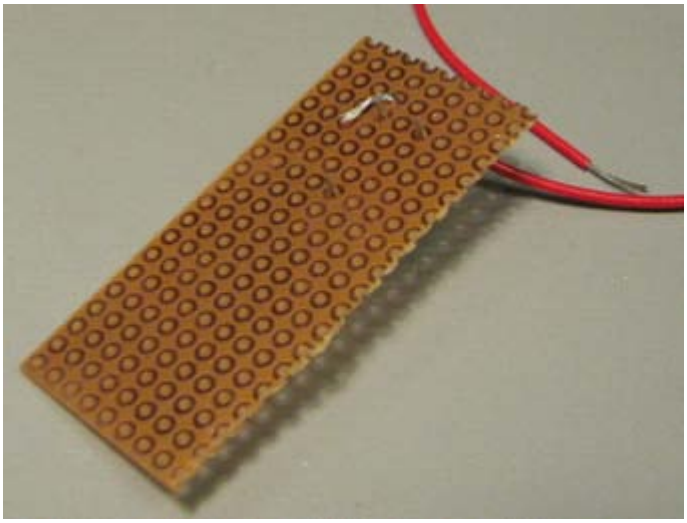

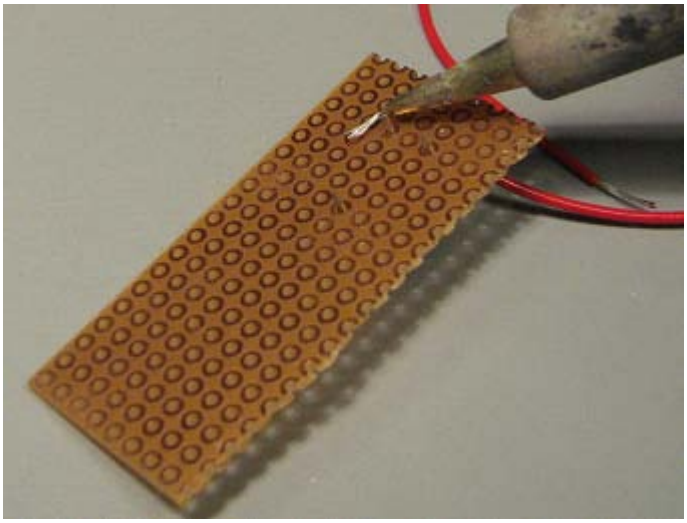

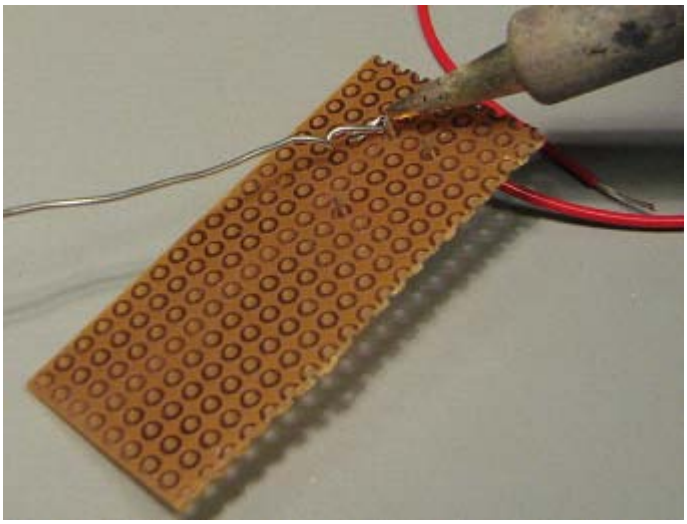

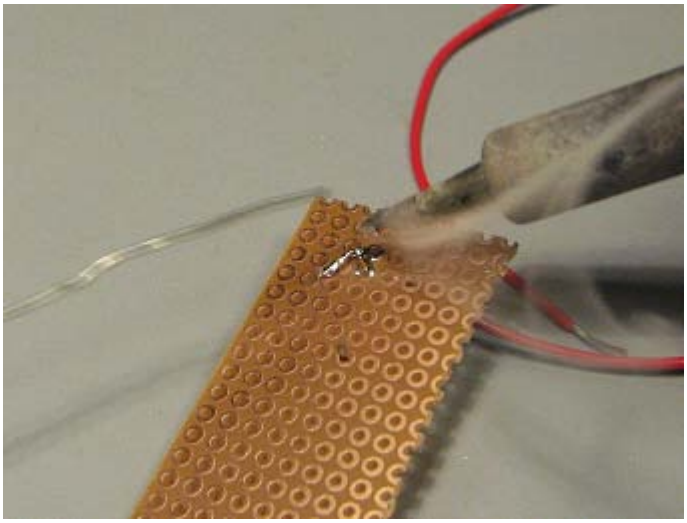

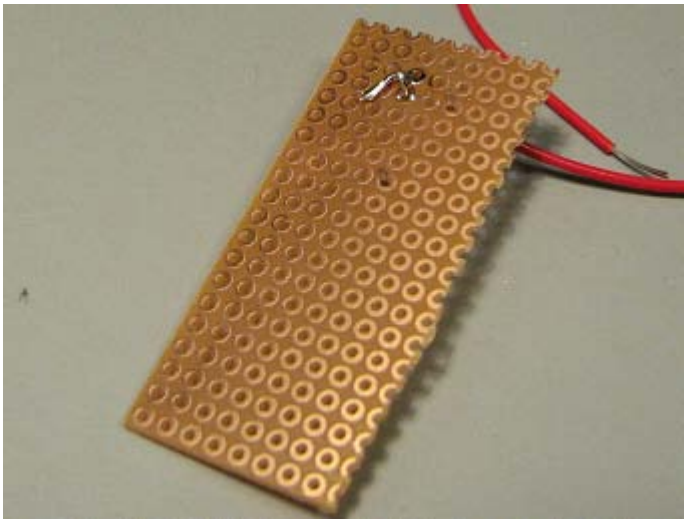

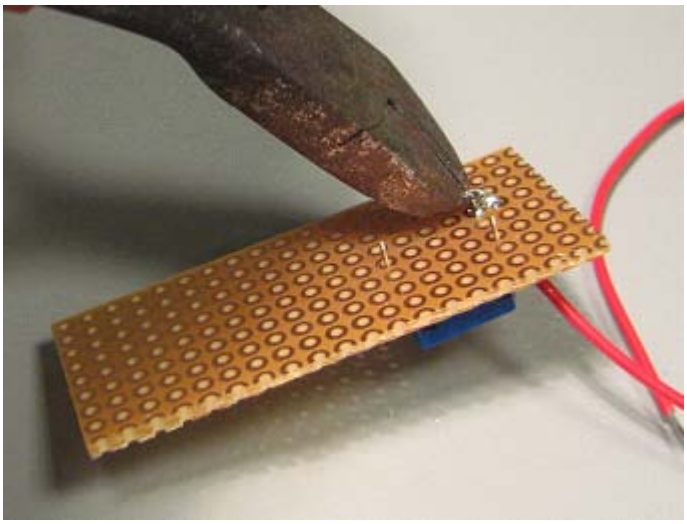

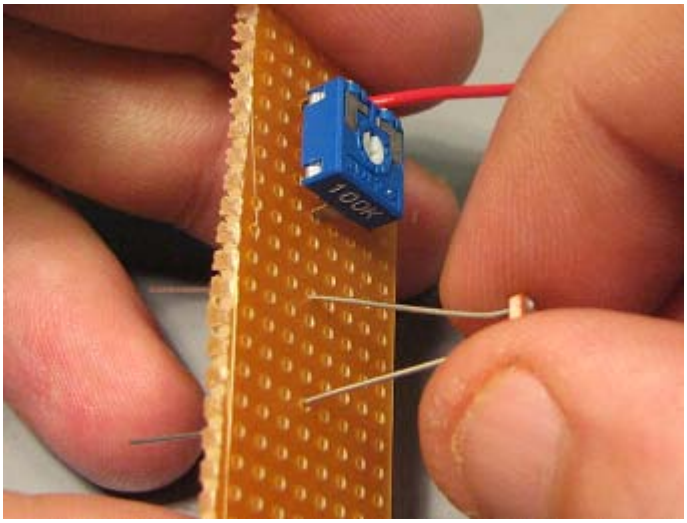
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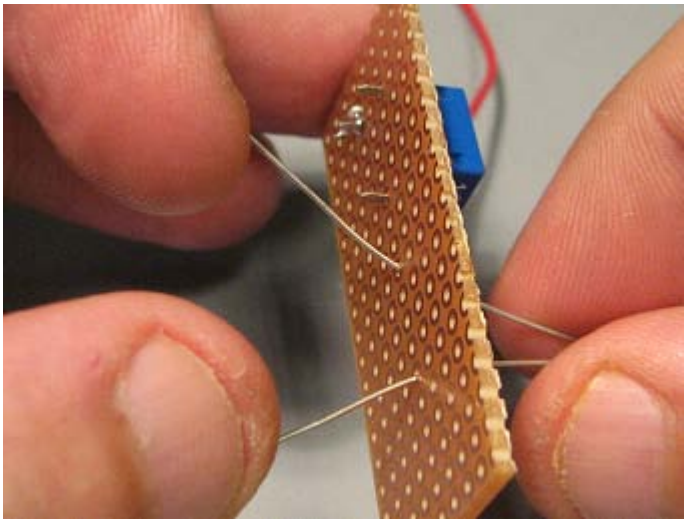
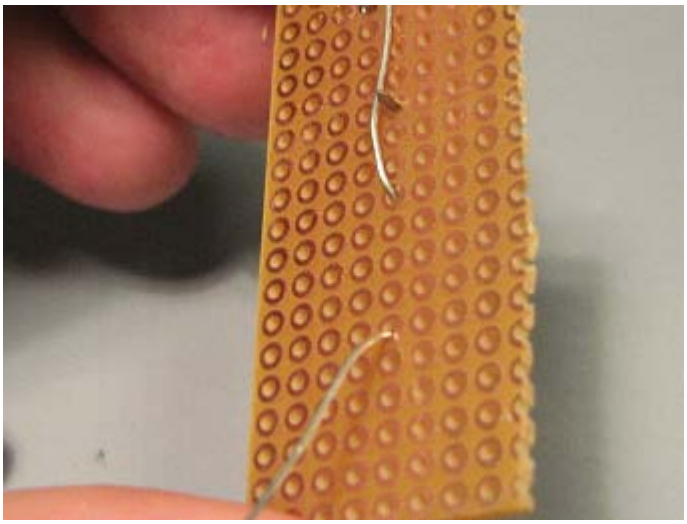
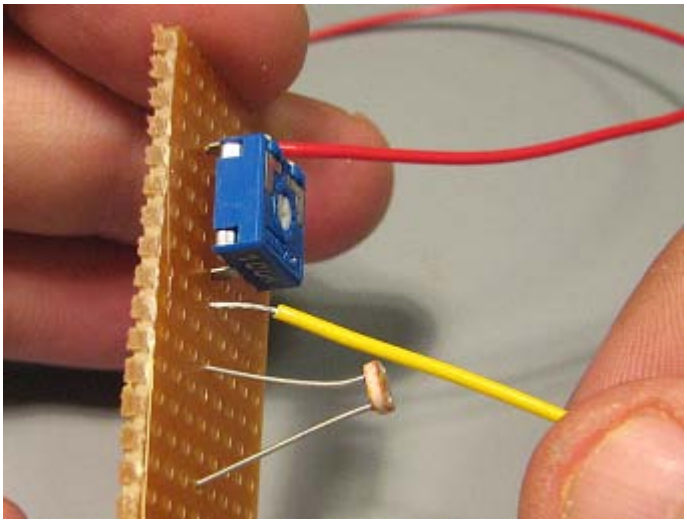
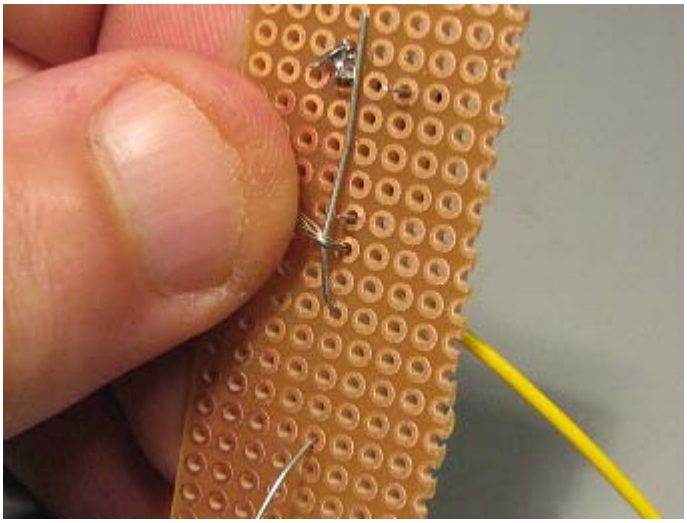
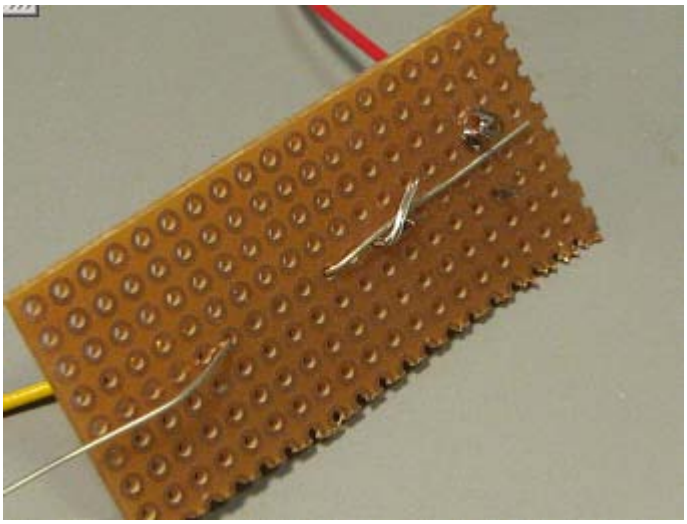
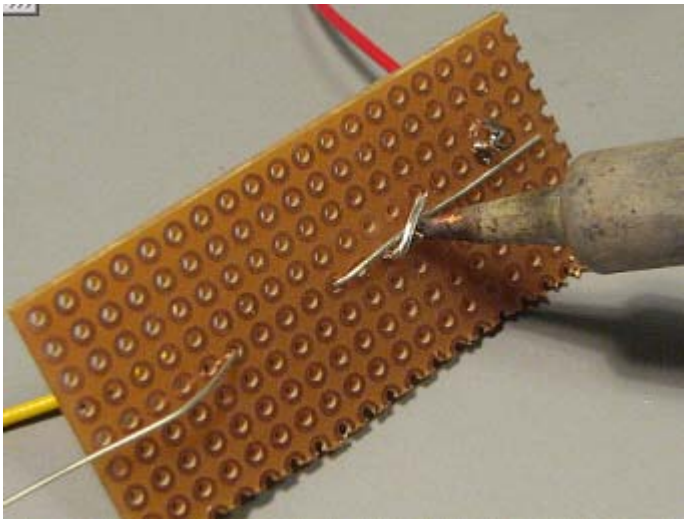


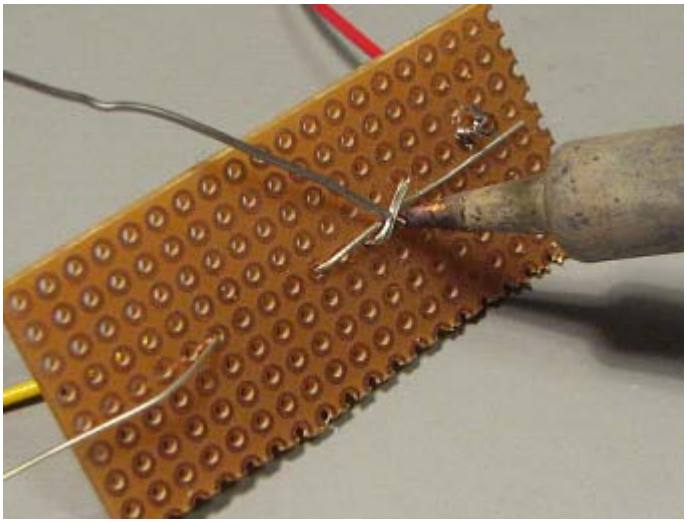


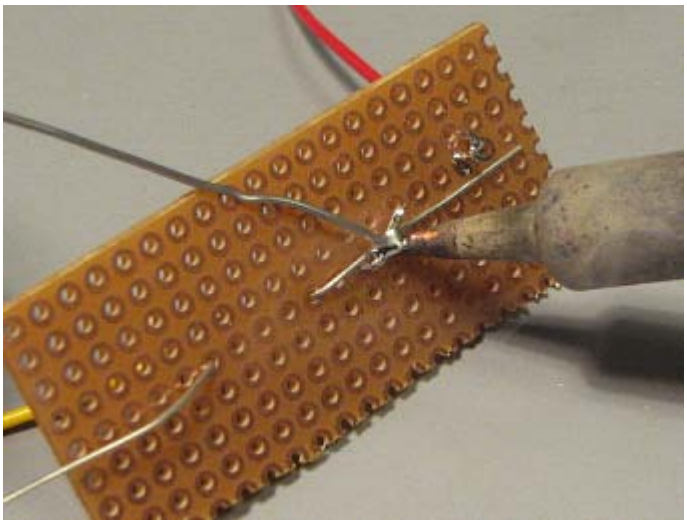


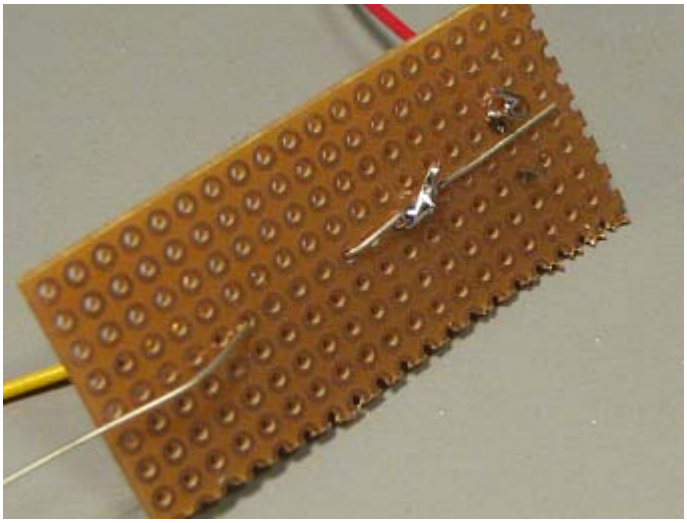


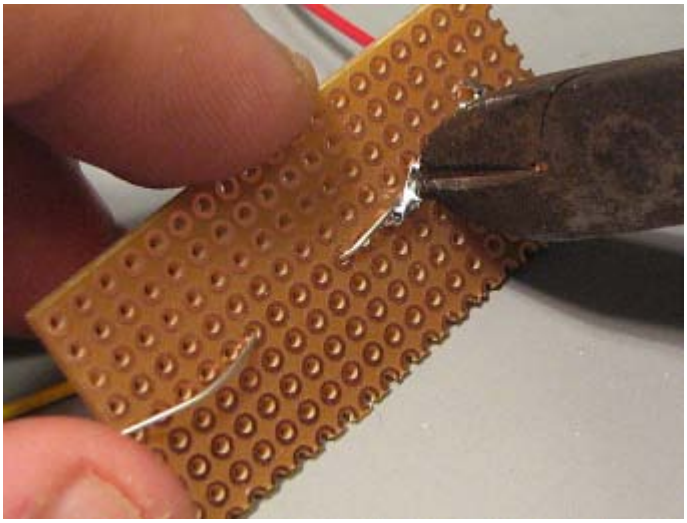


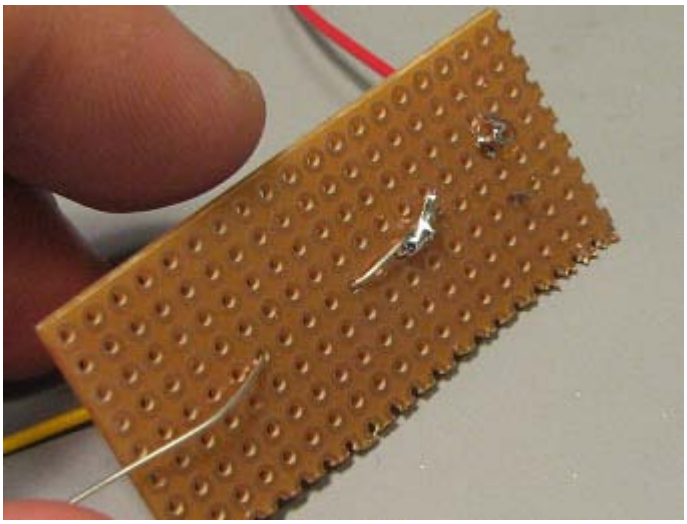


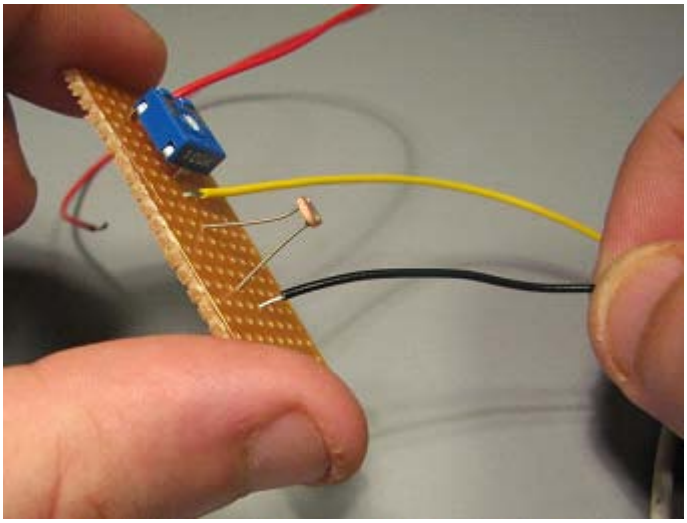


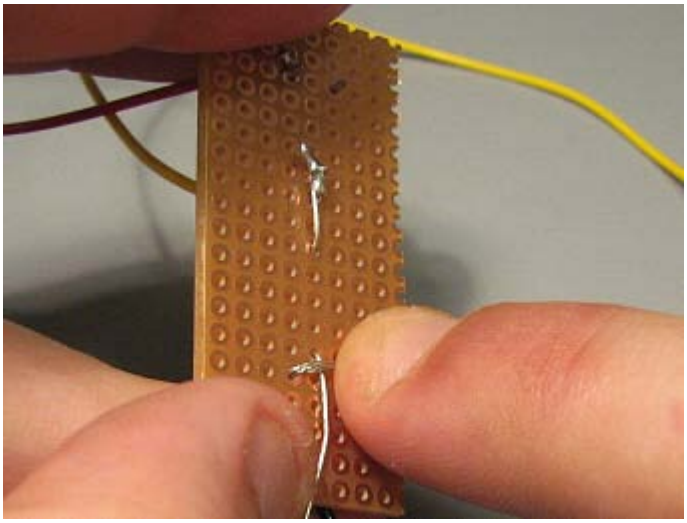


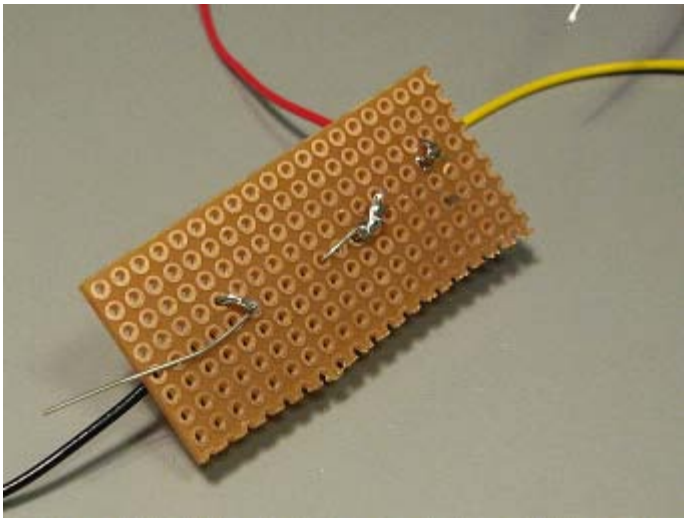


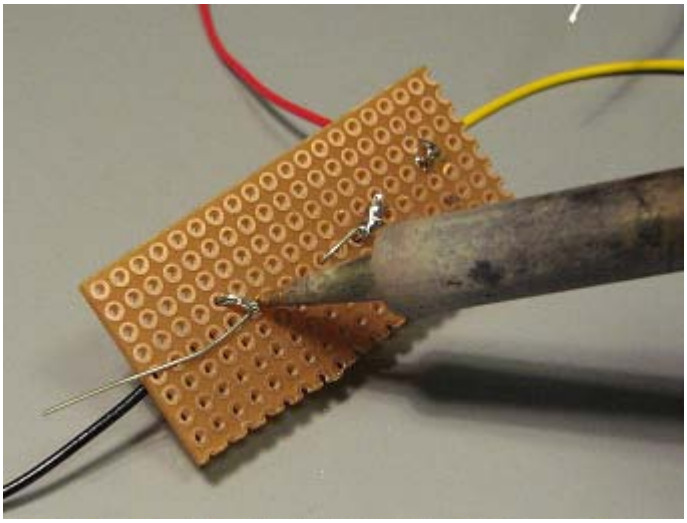


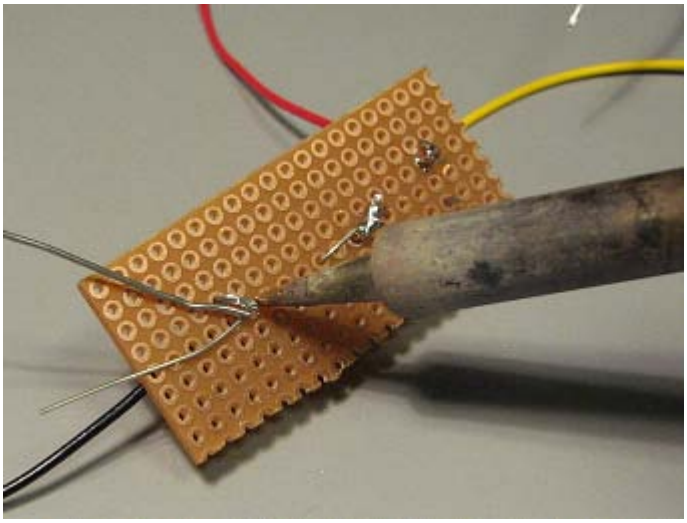


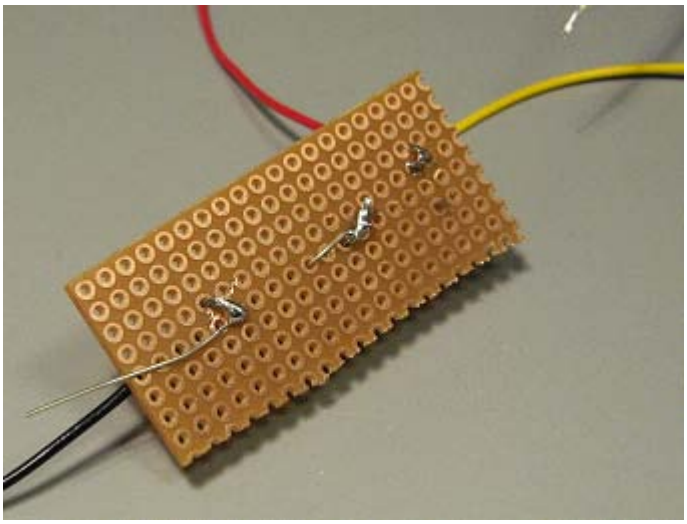


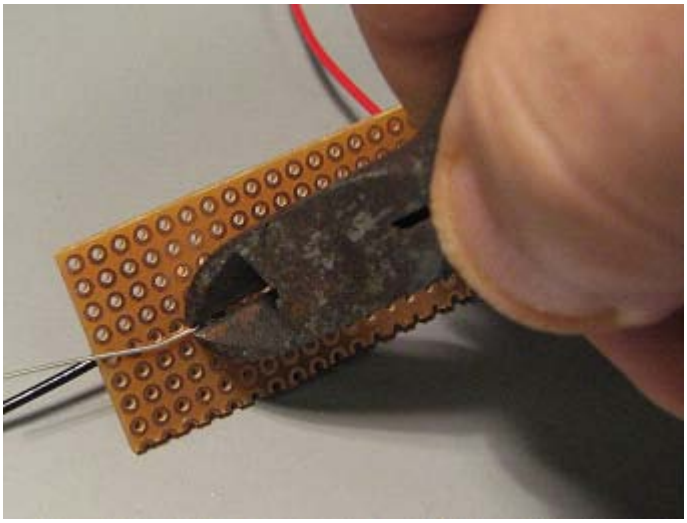


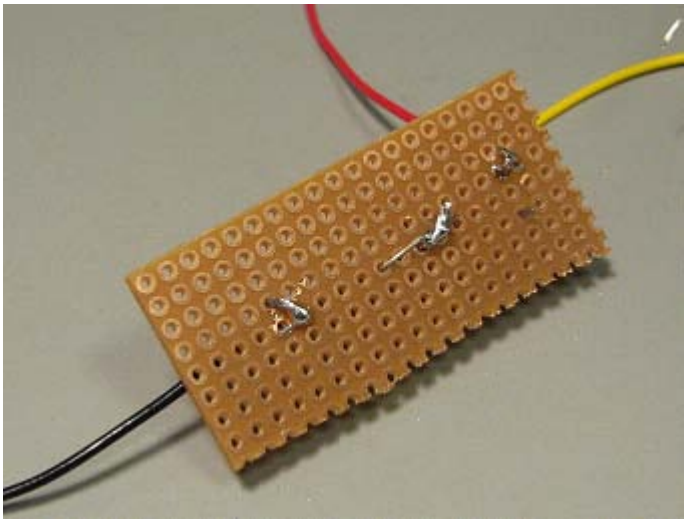


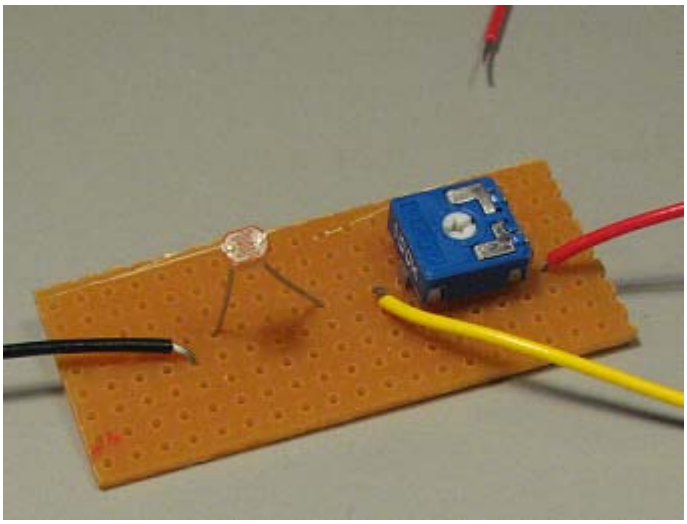




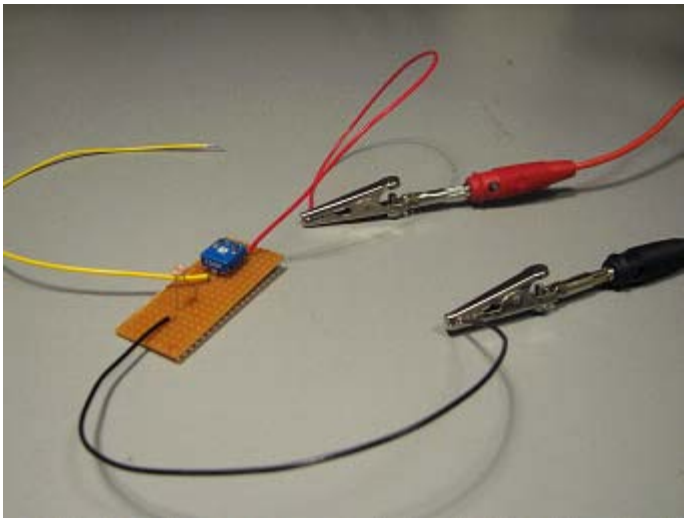


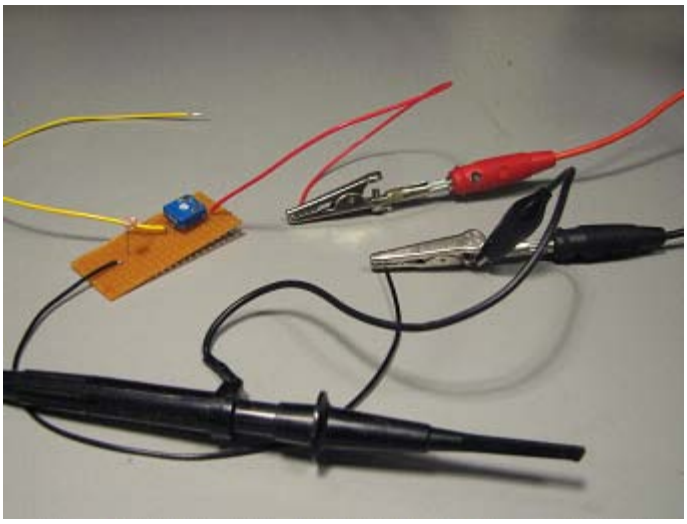


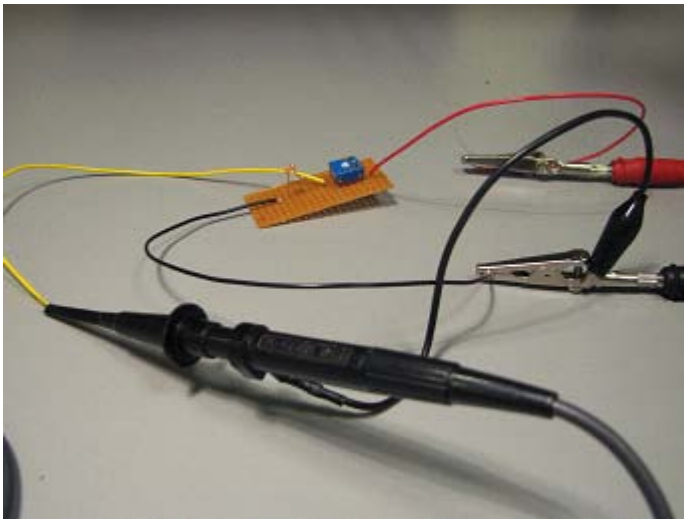


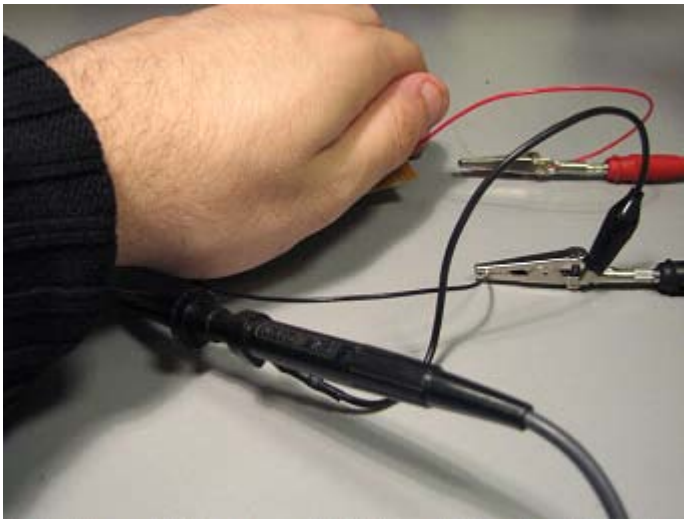


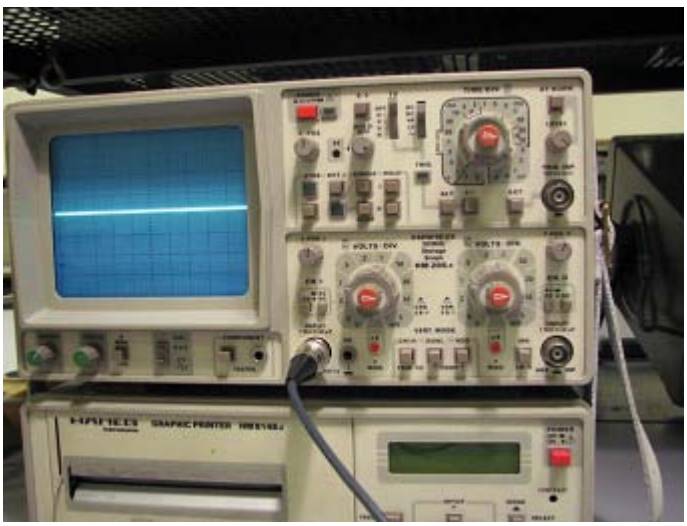
2.1 Powering and measurement

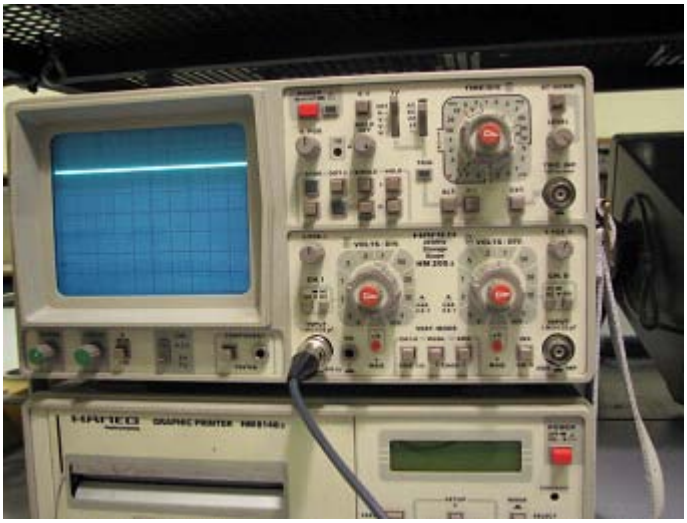


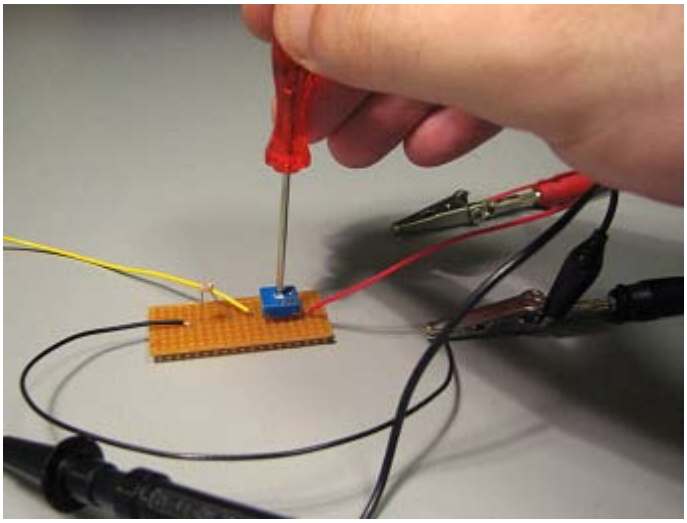




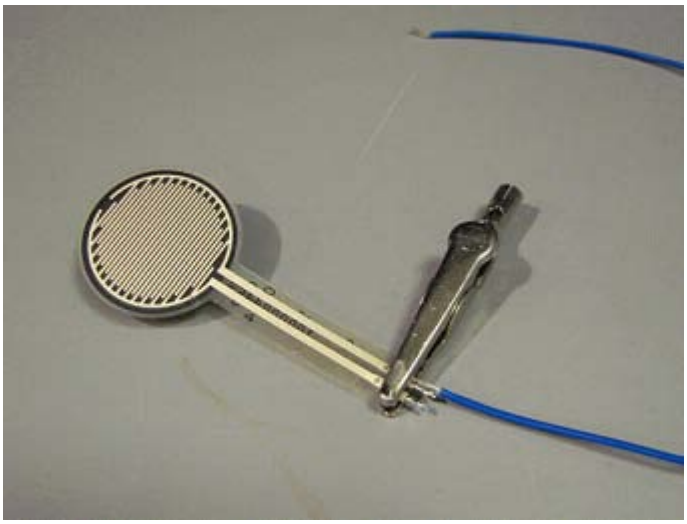


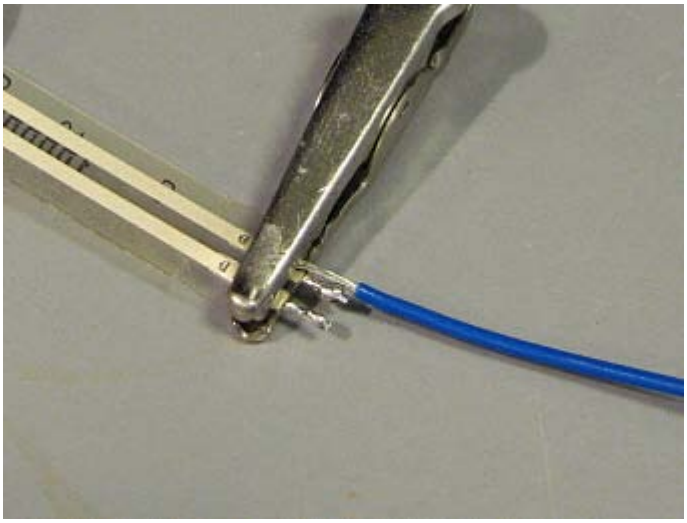


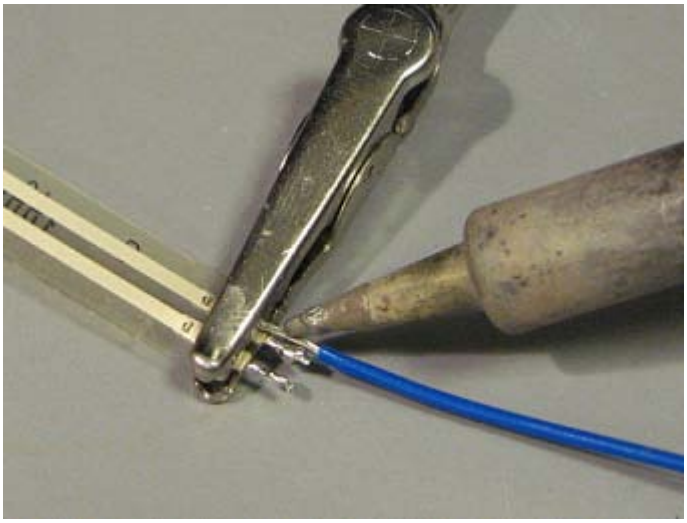


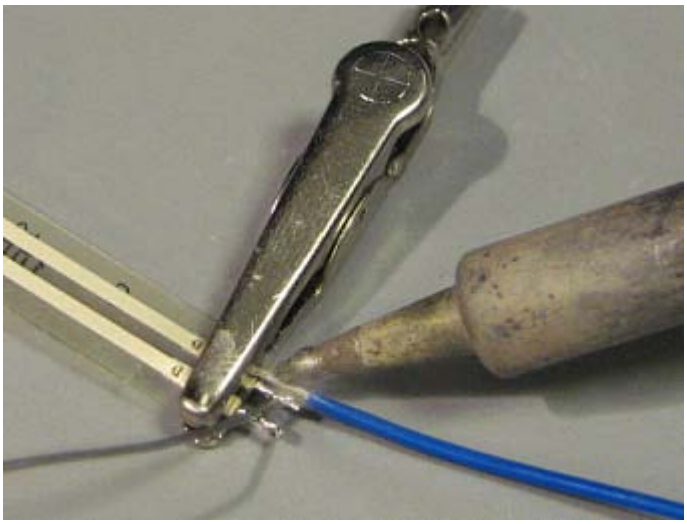


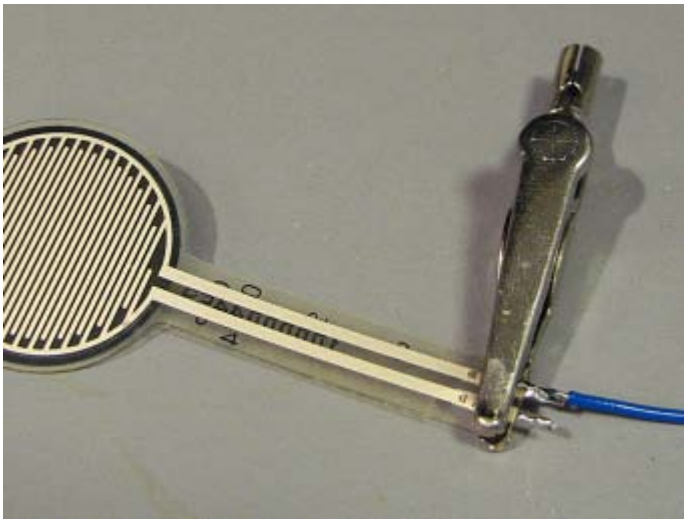
3 FSR (Force-sensitive resistor) voltage divider circuit, implemented with Molex connectors

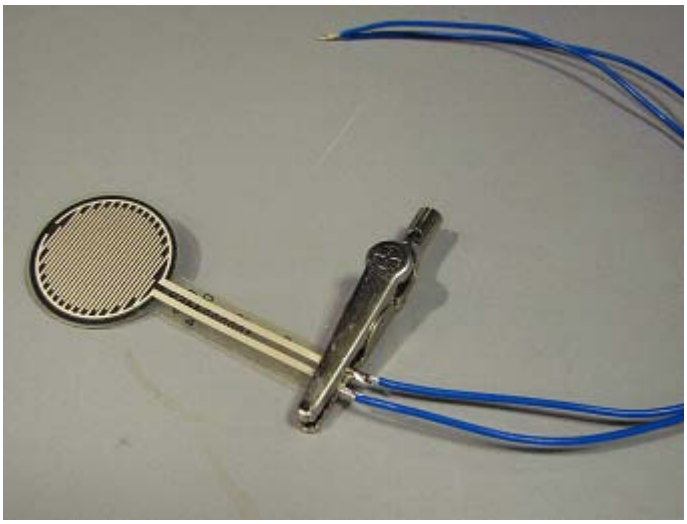


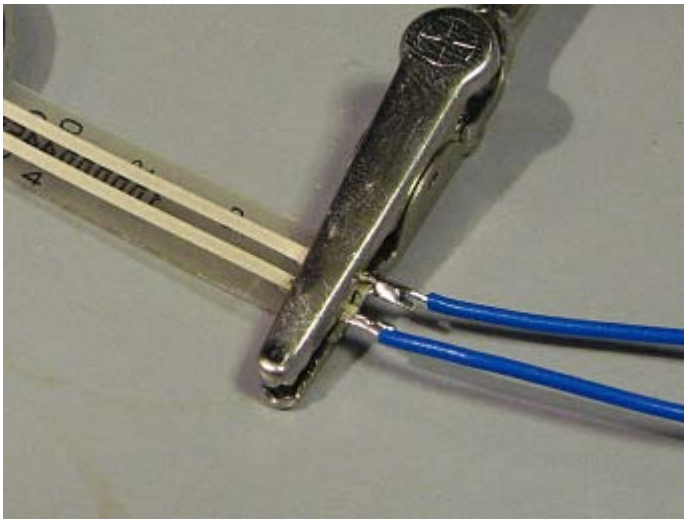


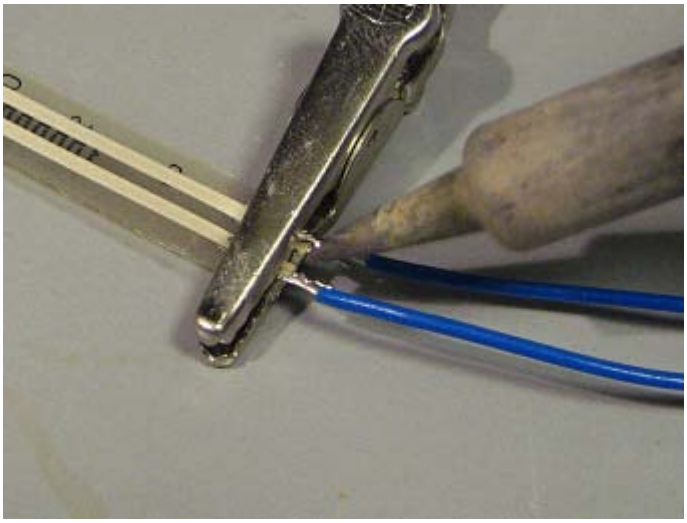


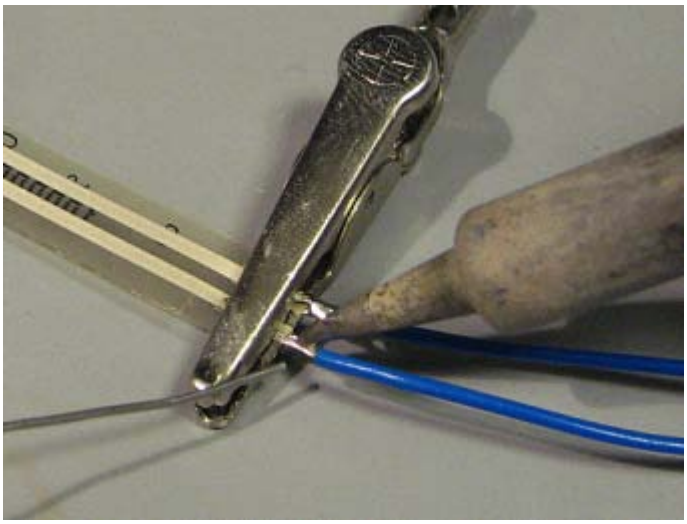


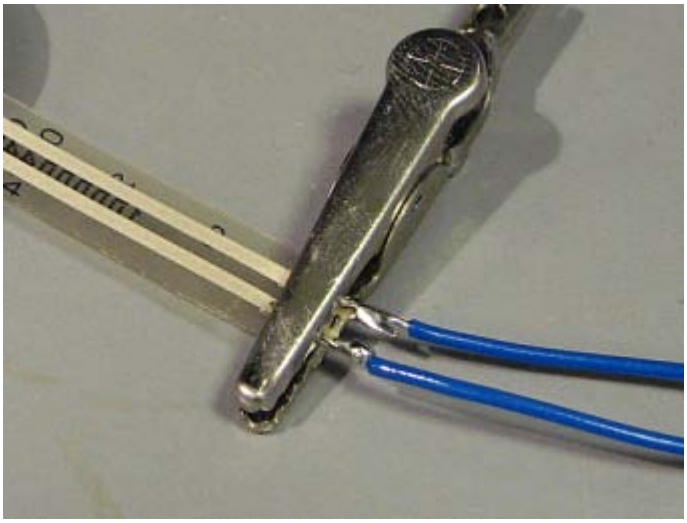


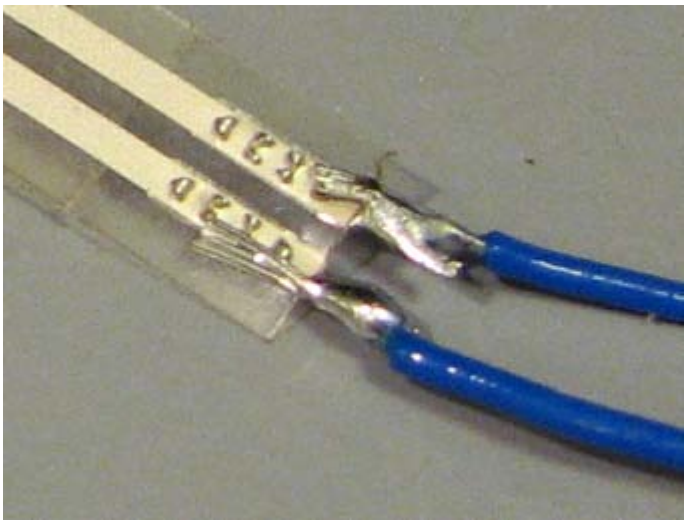


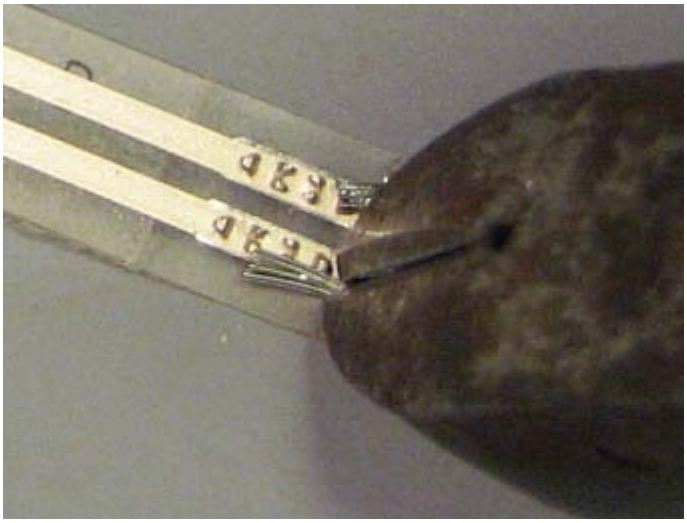


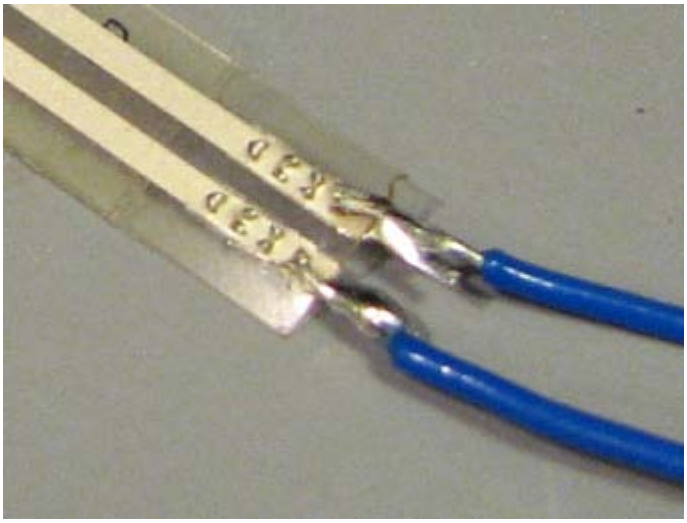


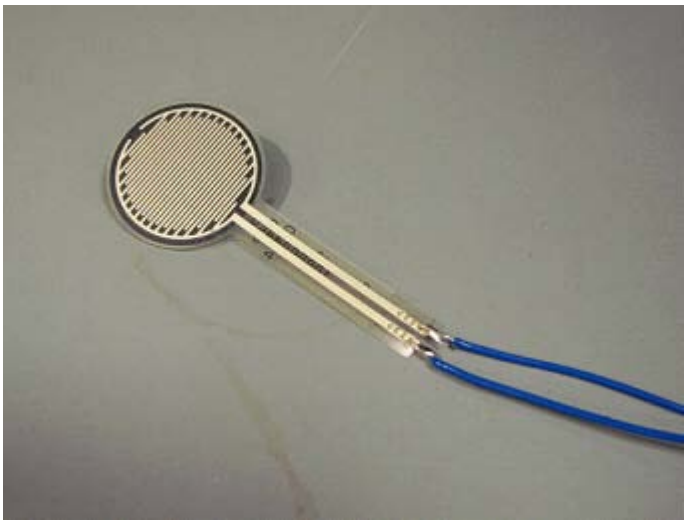


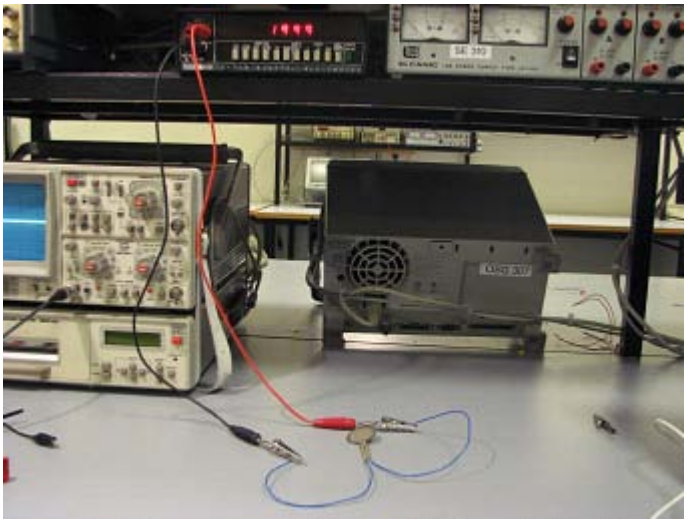


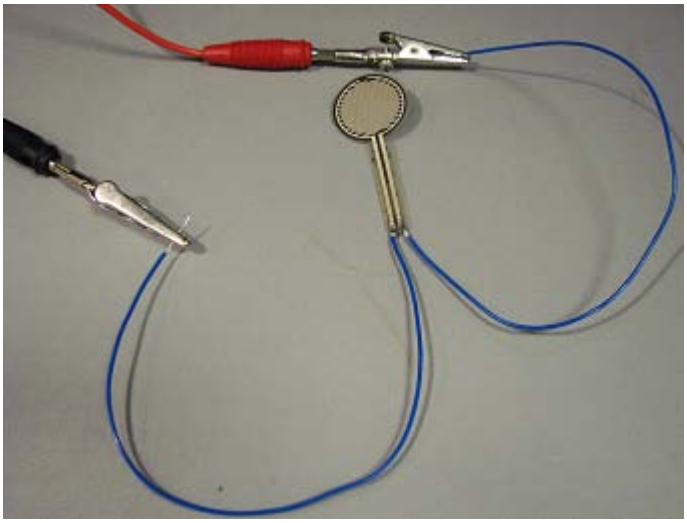


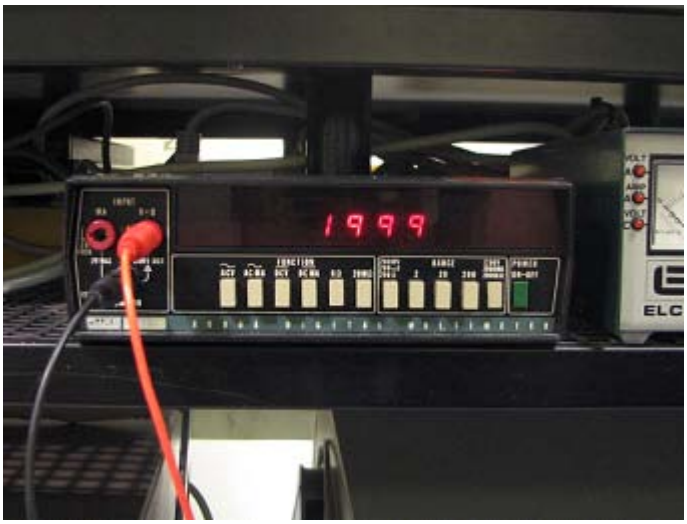








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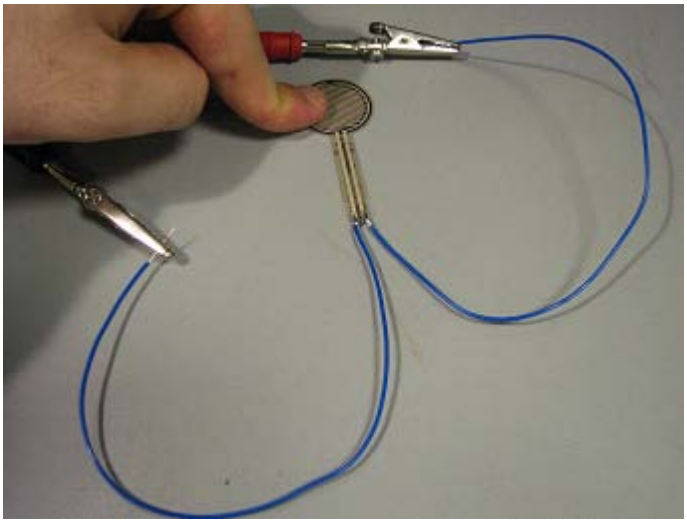

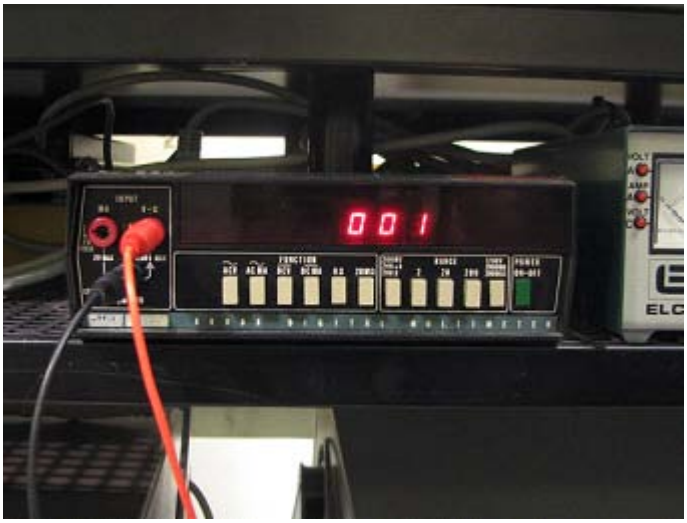
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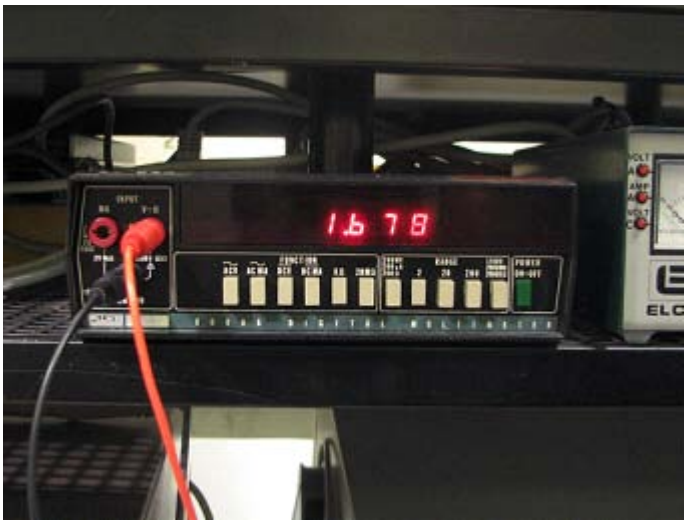
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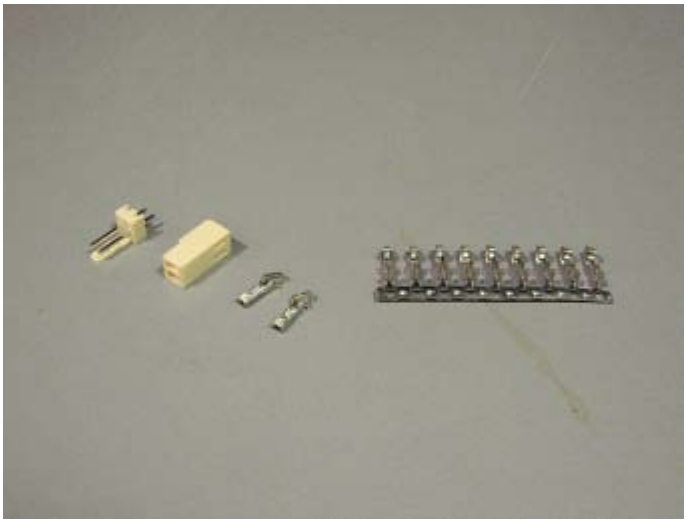

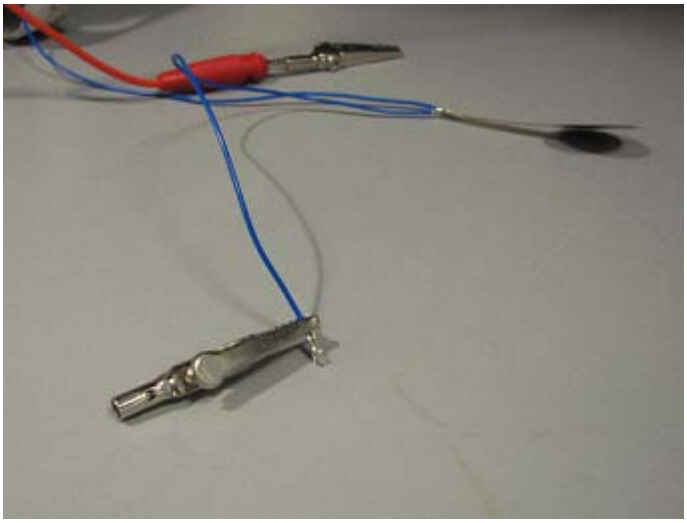

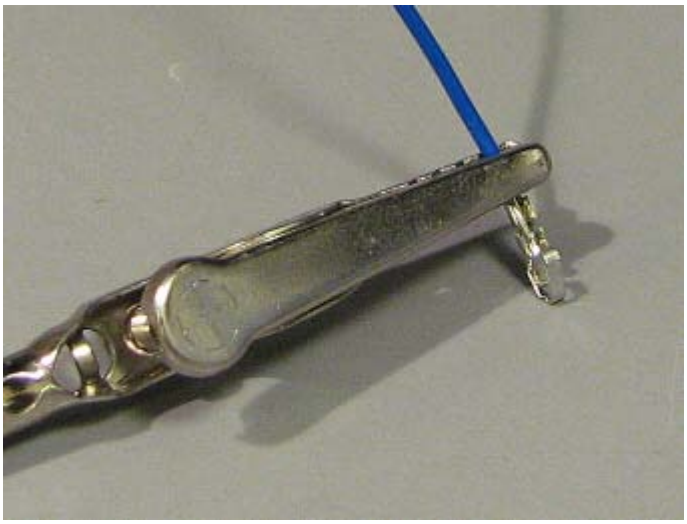

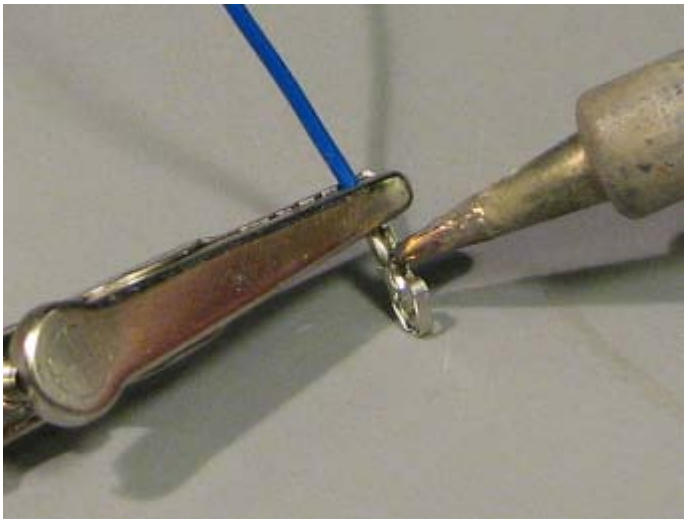

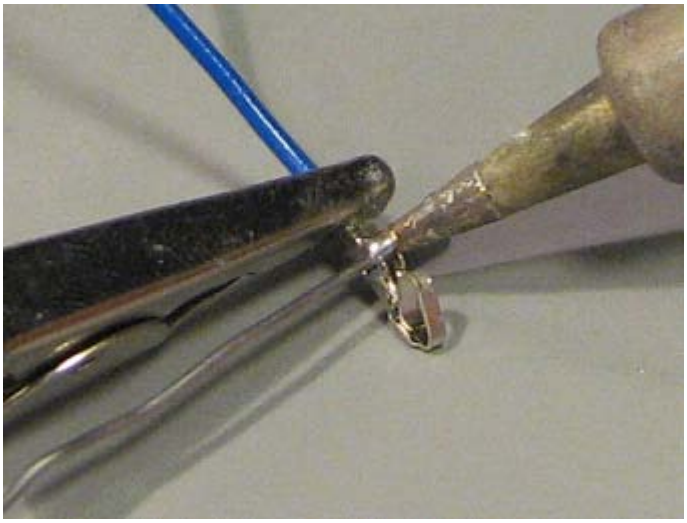

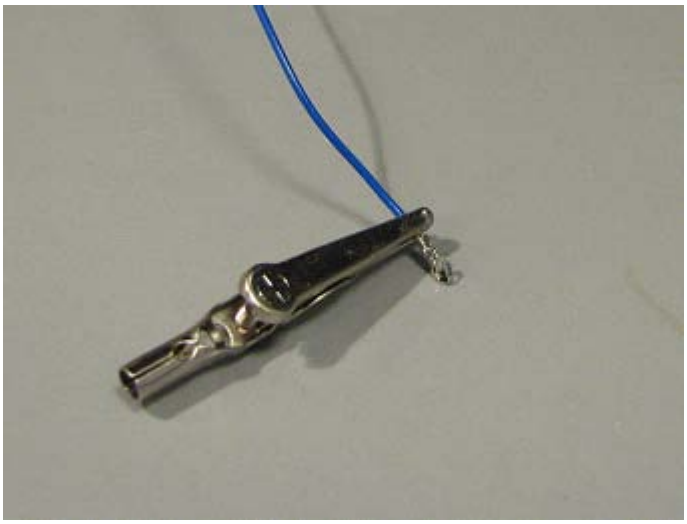

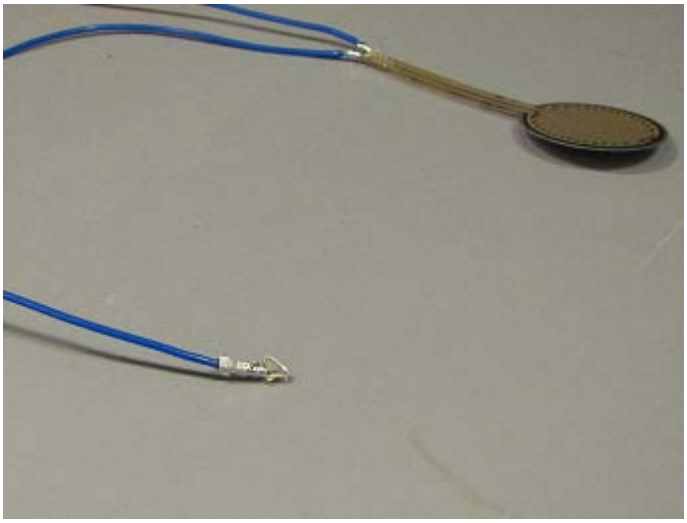

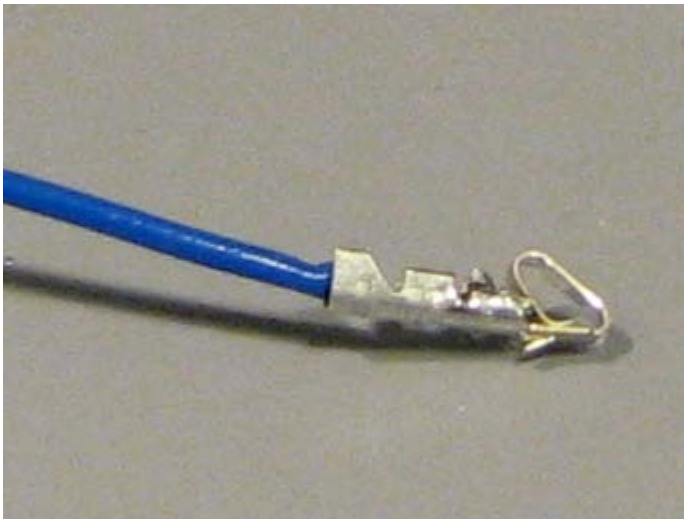

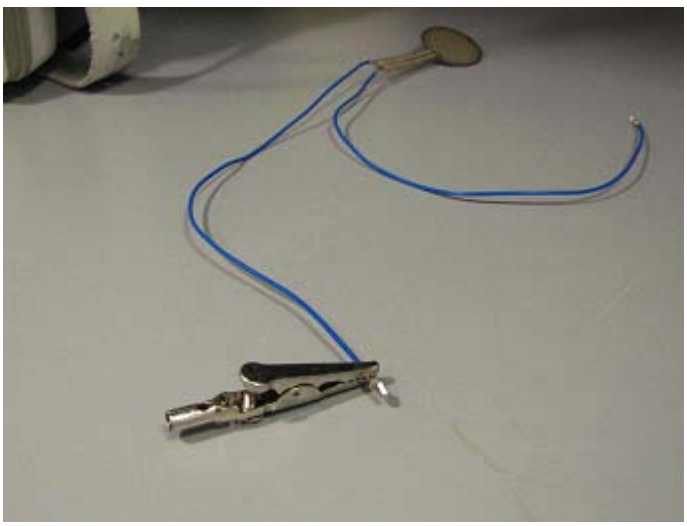

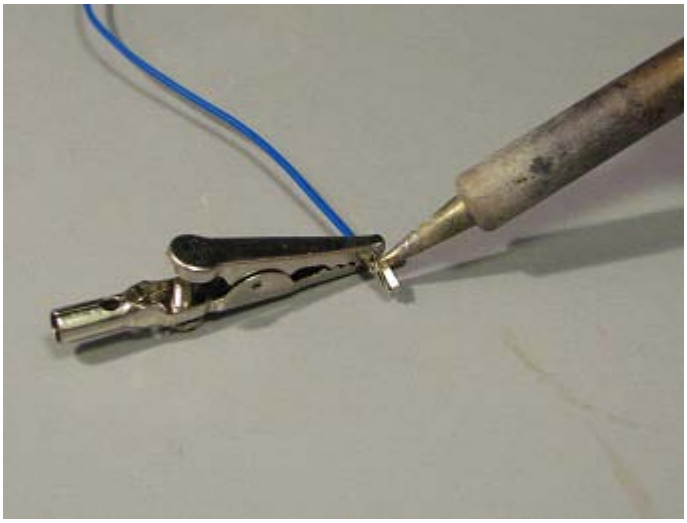

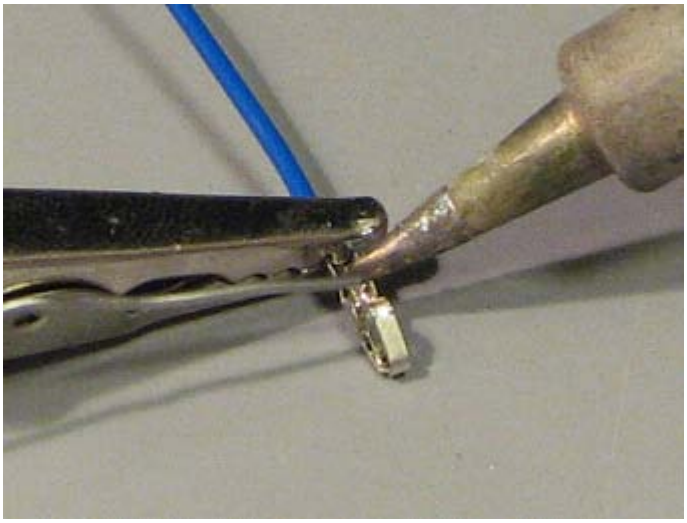

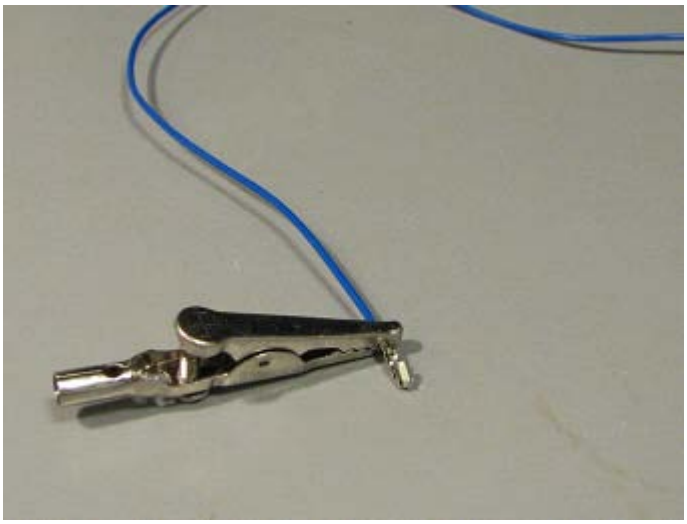

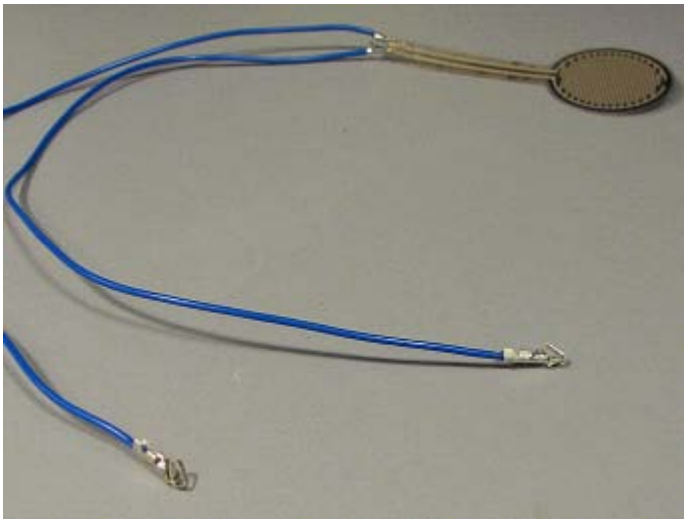

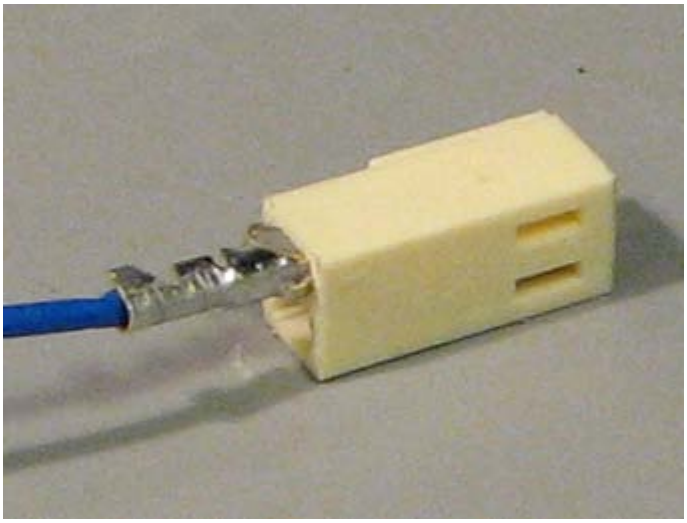

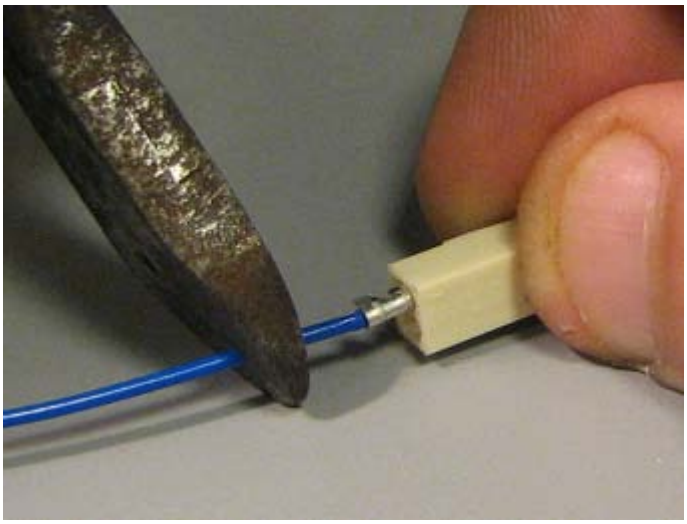

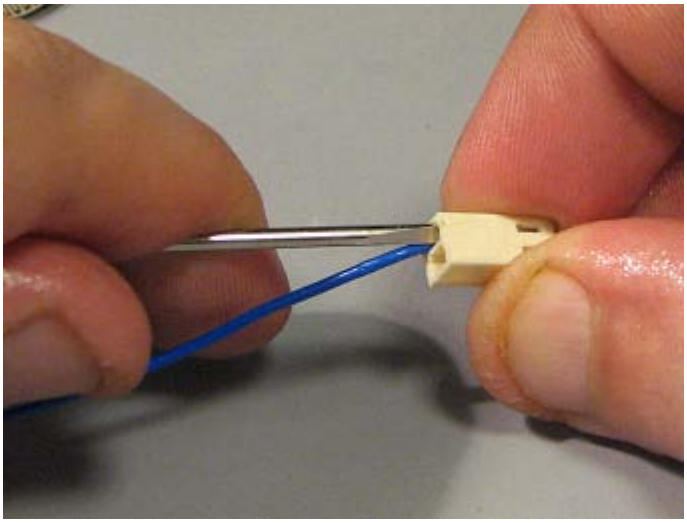

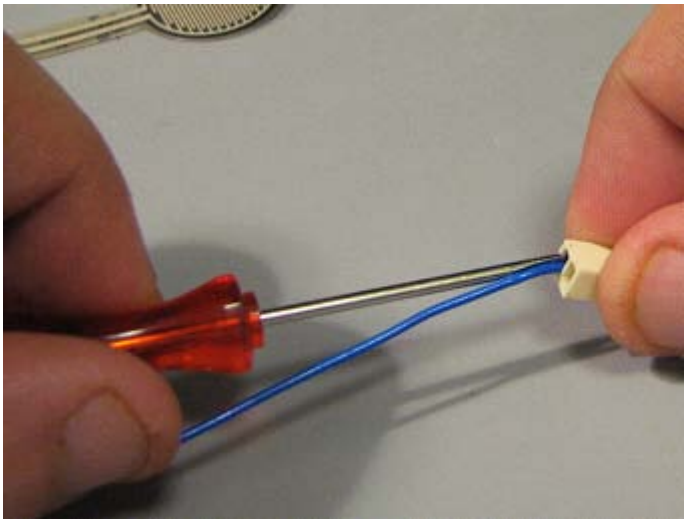

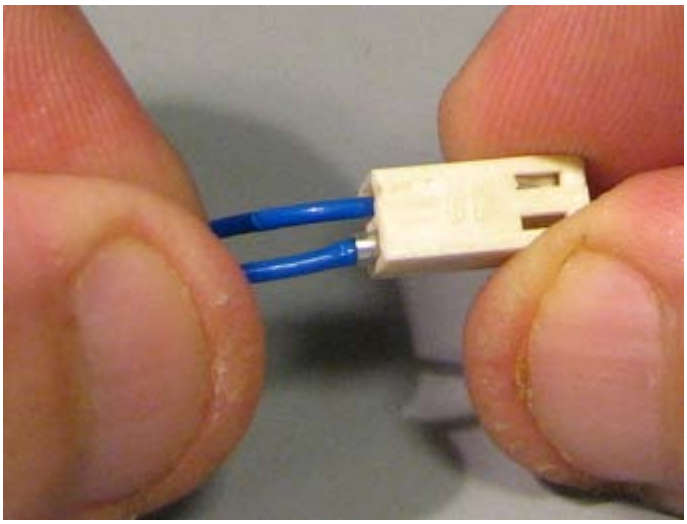

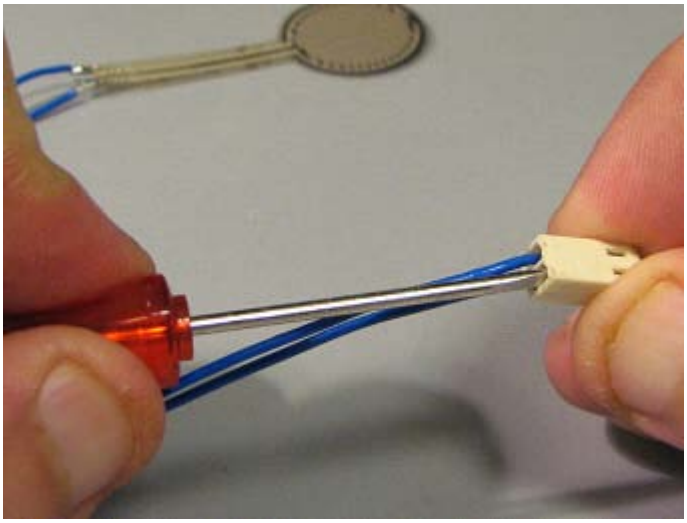

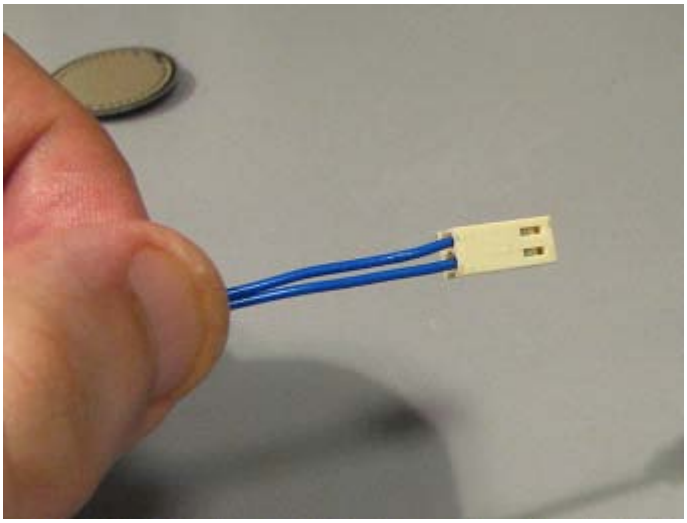

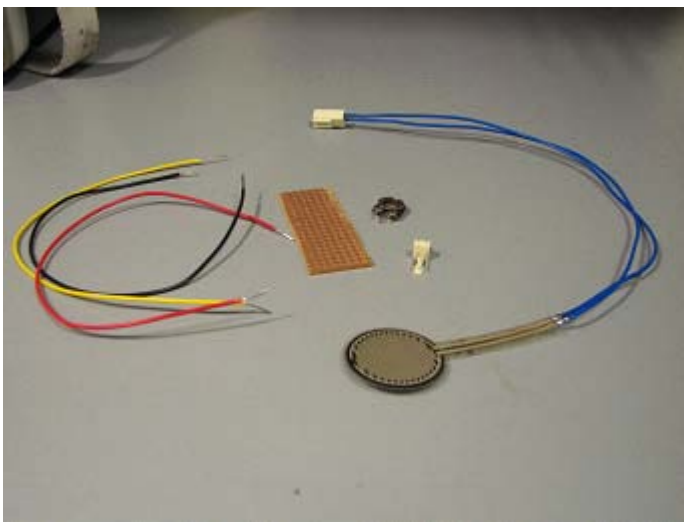

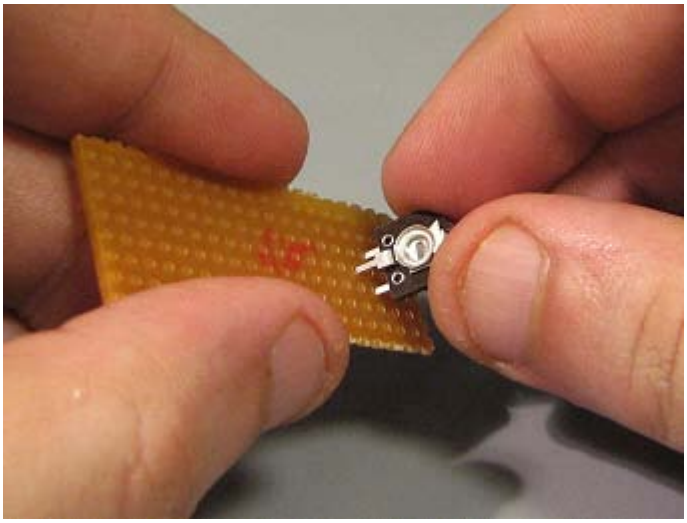

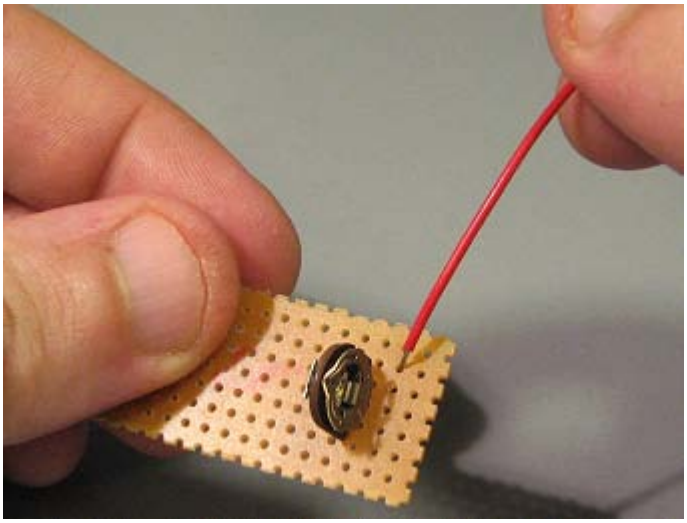

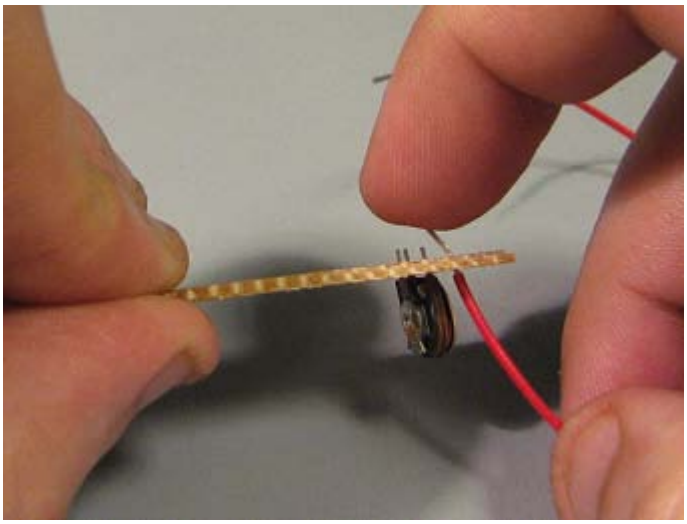

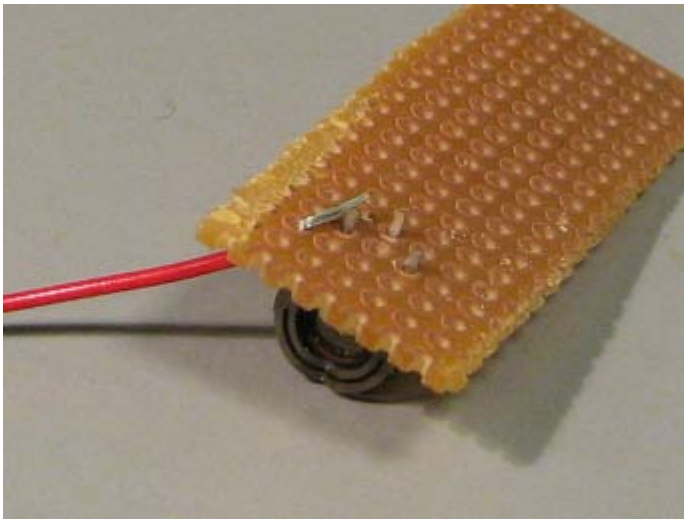

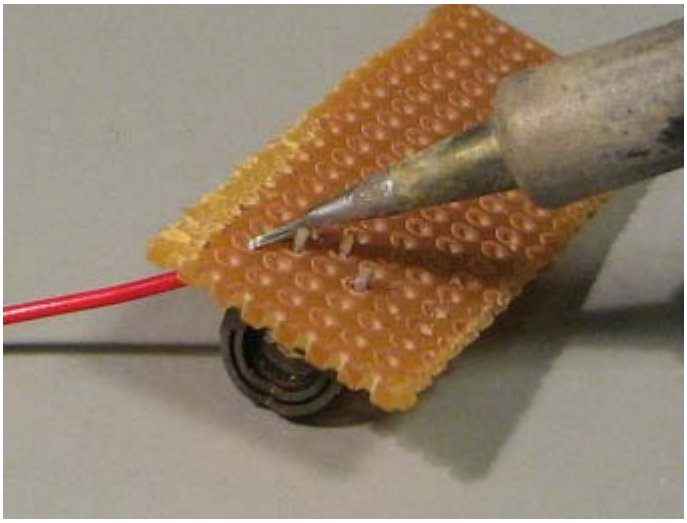

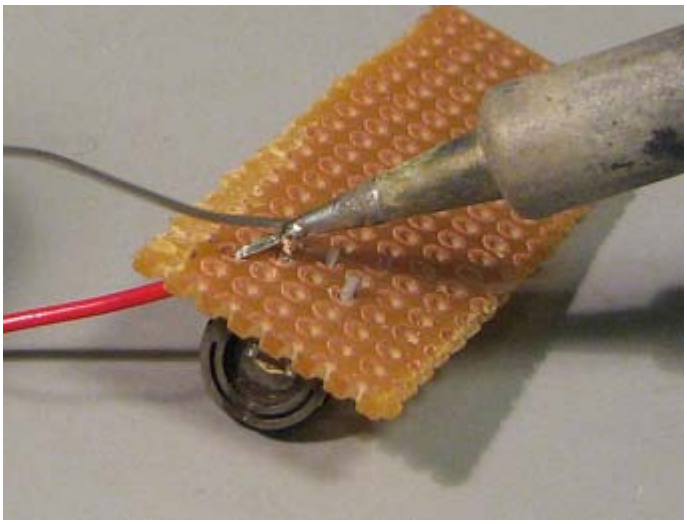

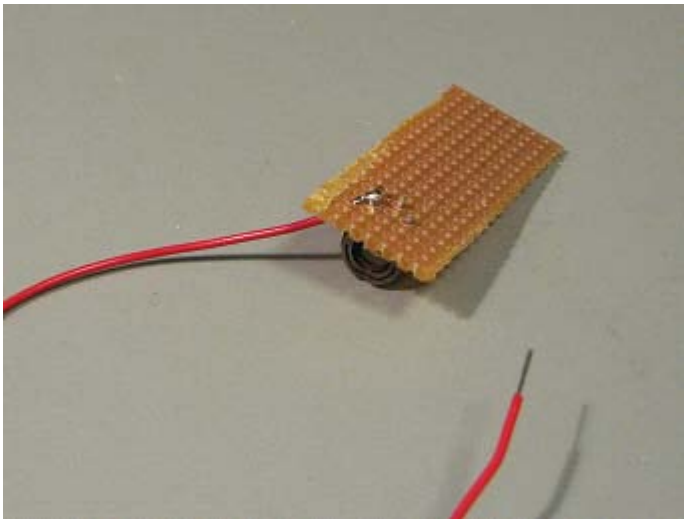

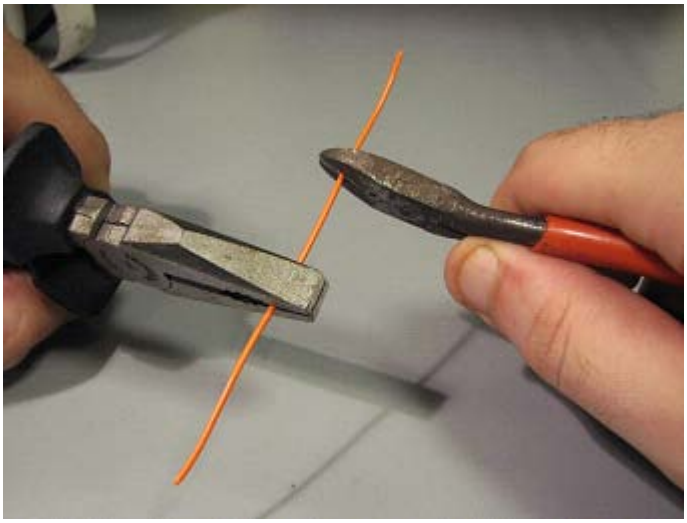

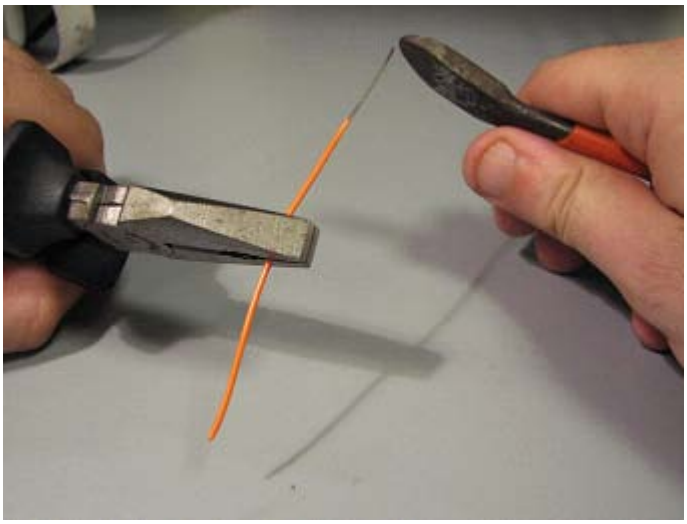

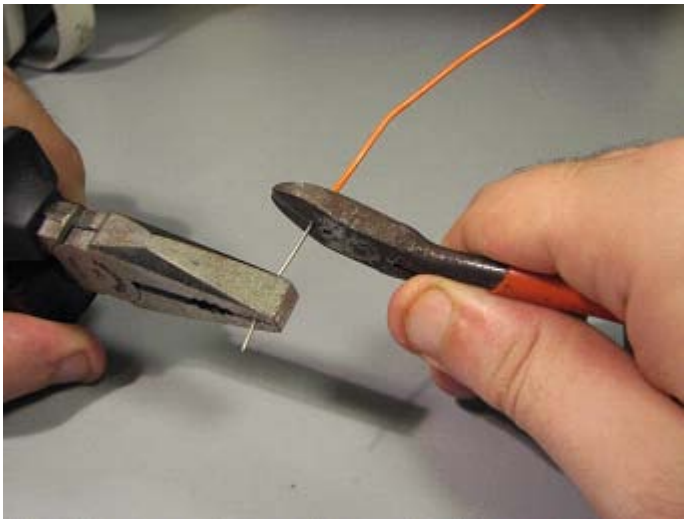

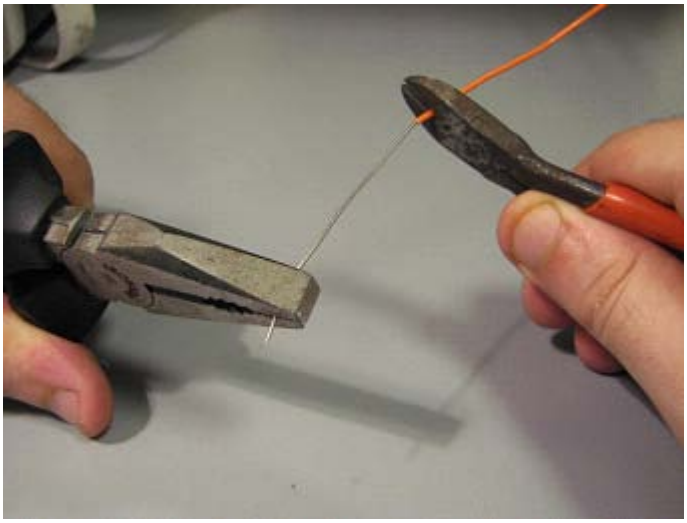

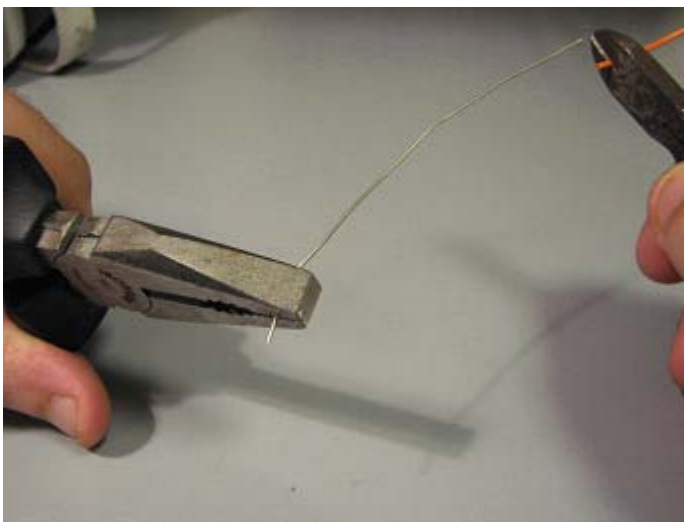

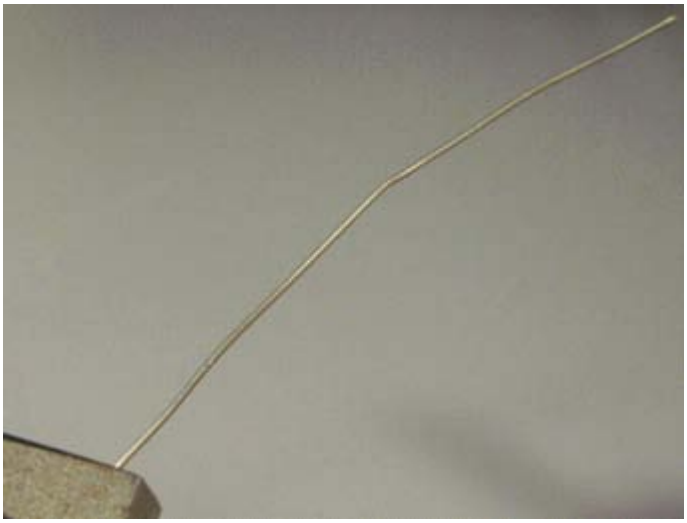

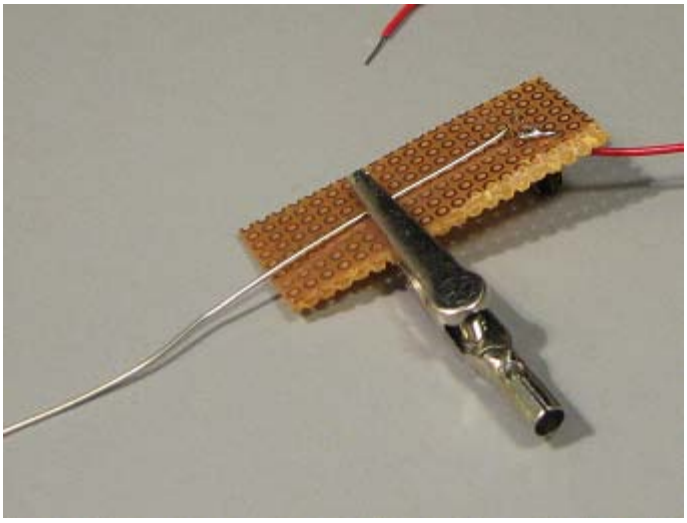

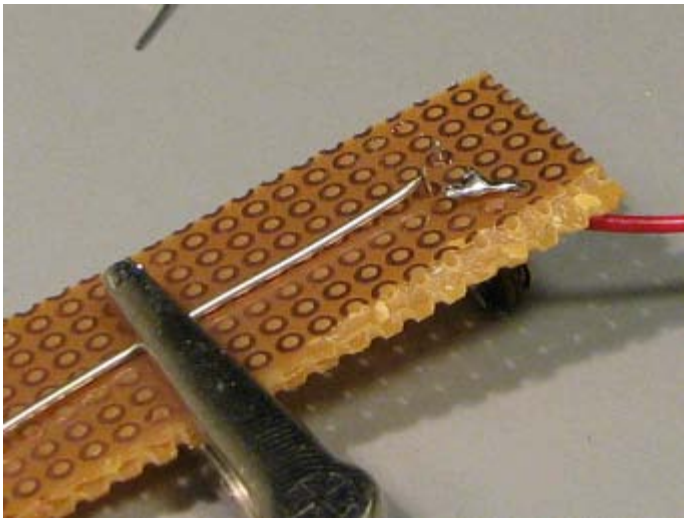

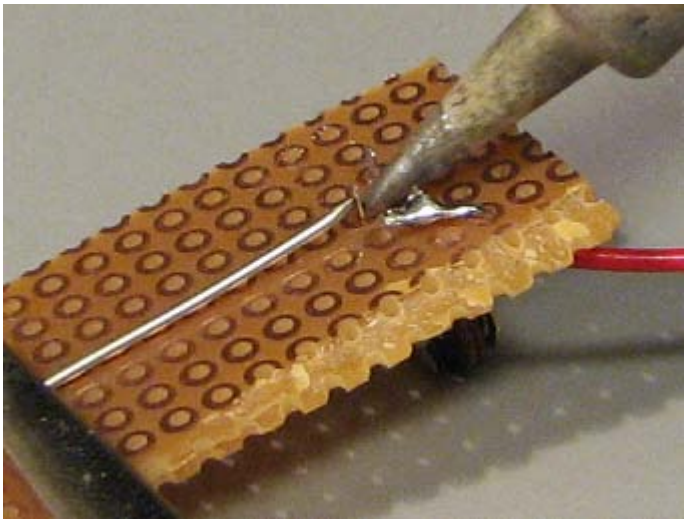

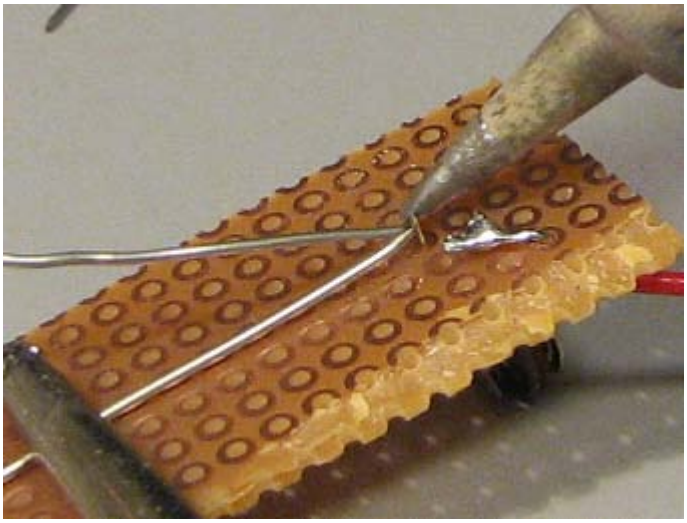

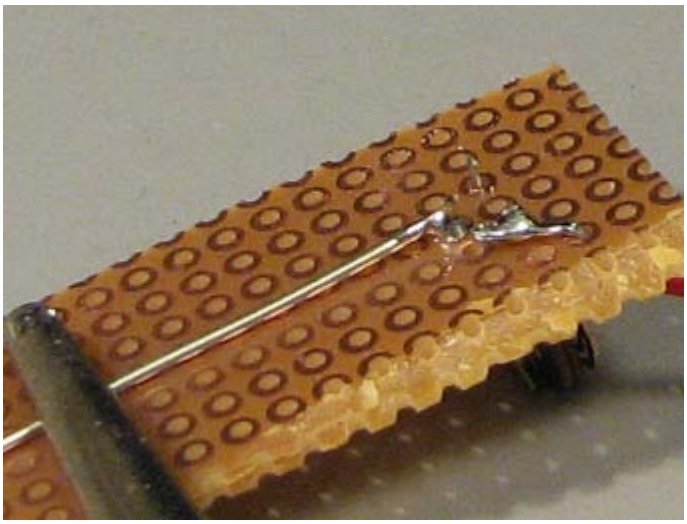

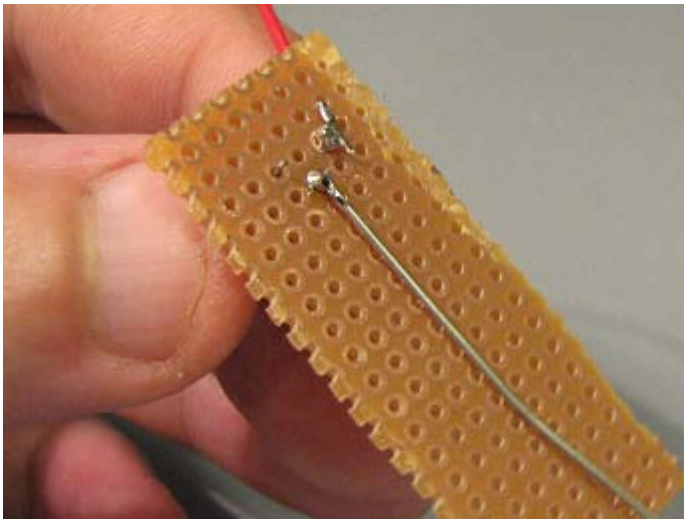

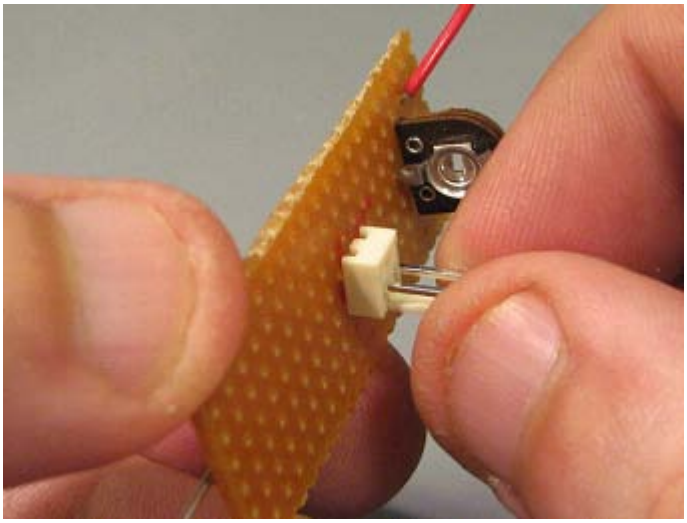

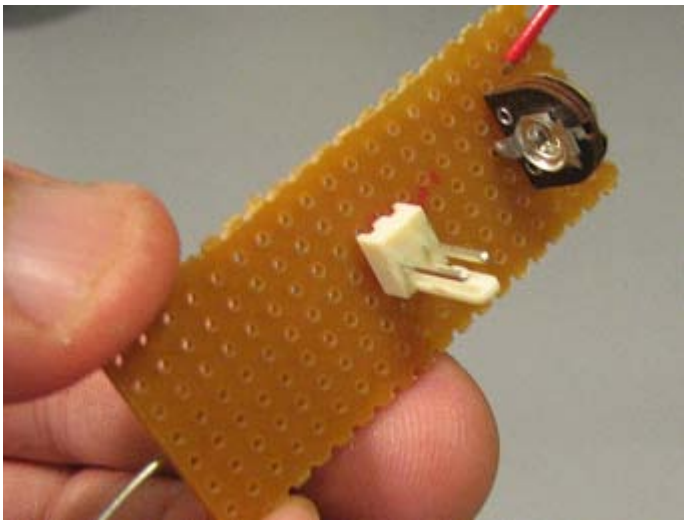

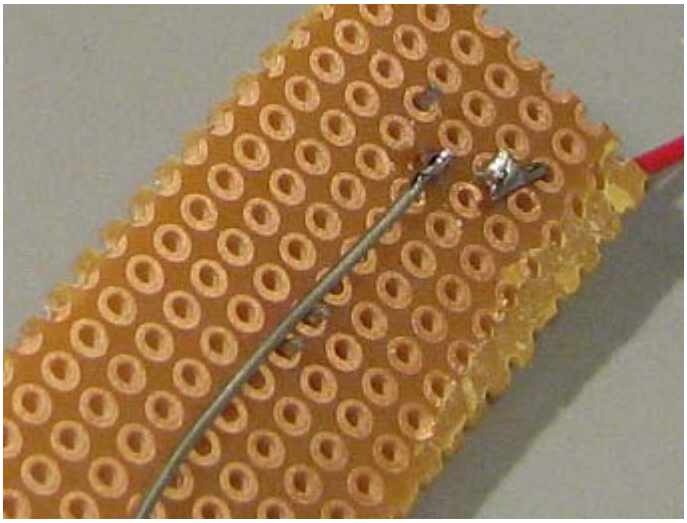

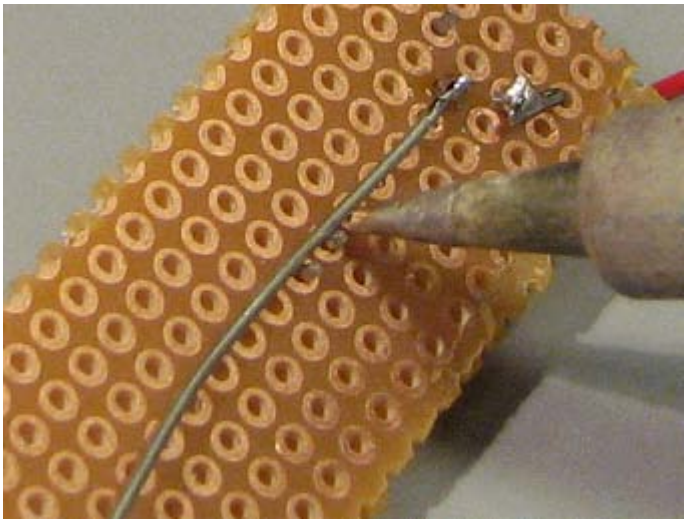

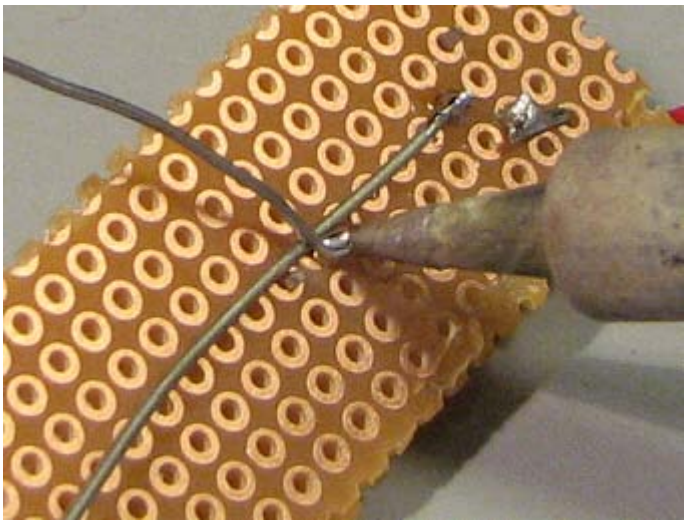

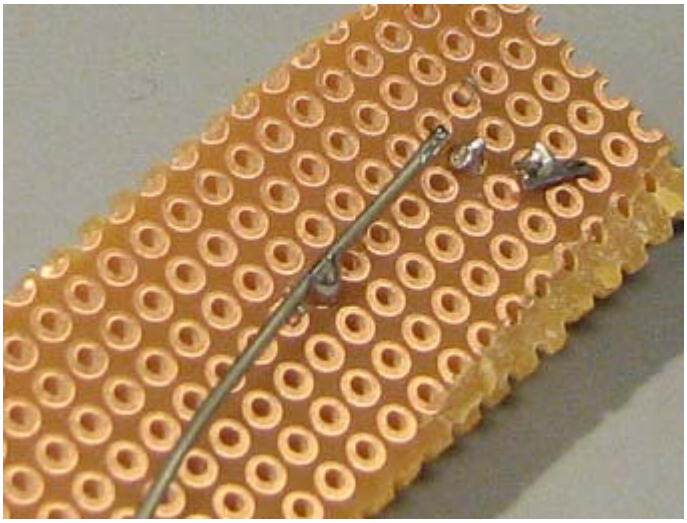

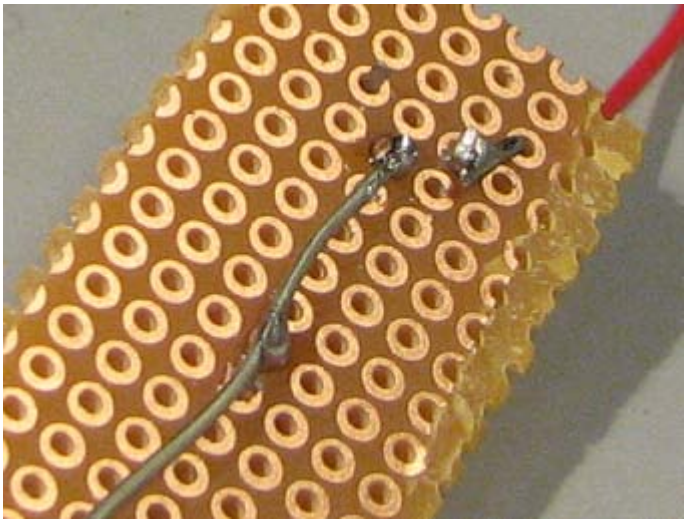

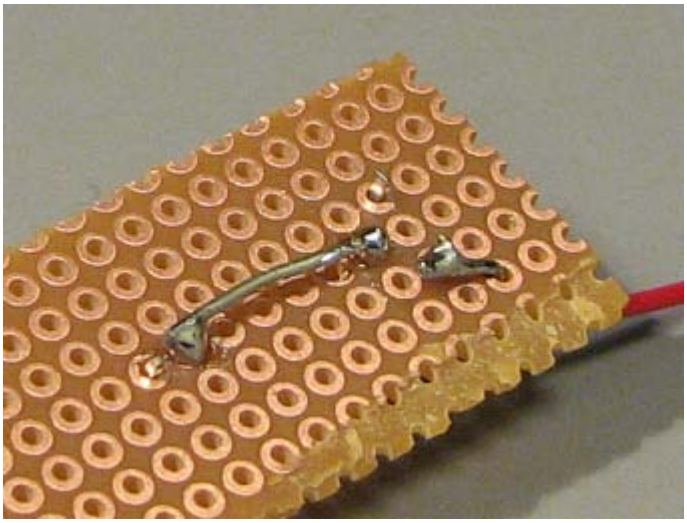

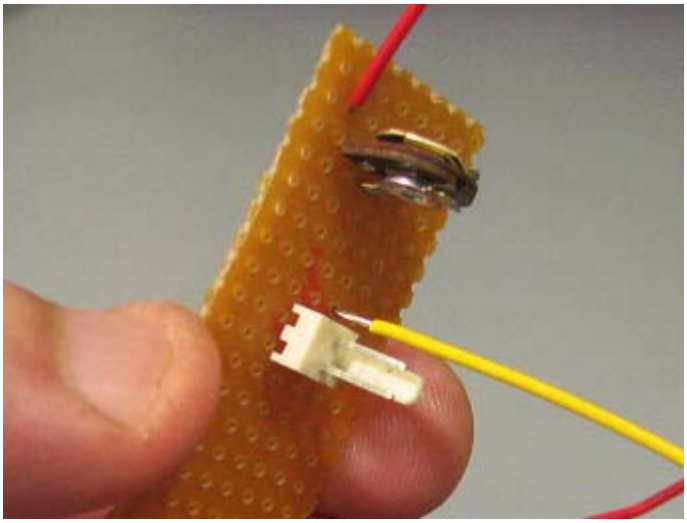

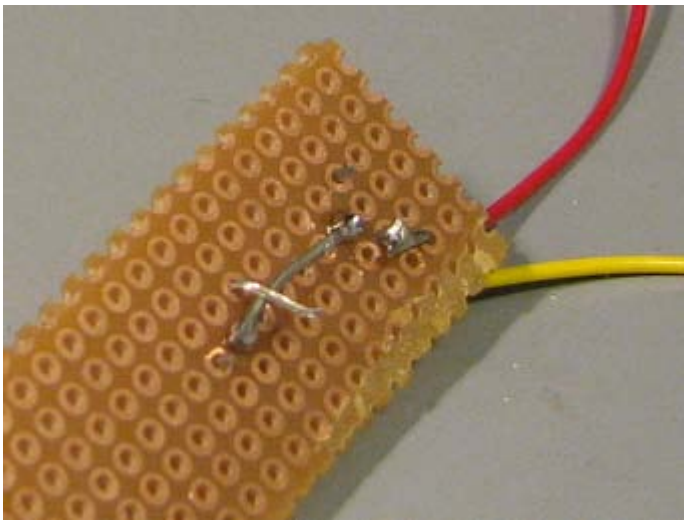

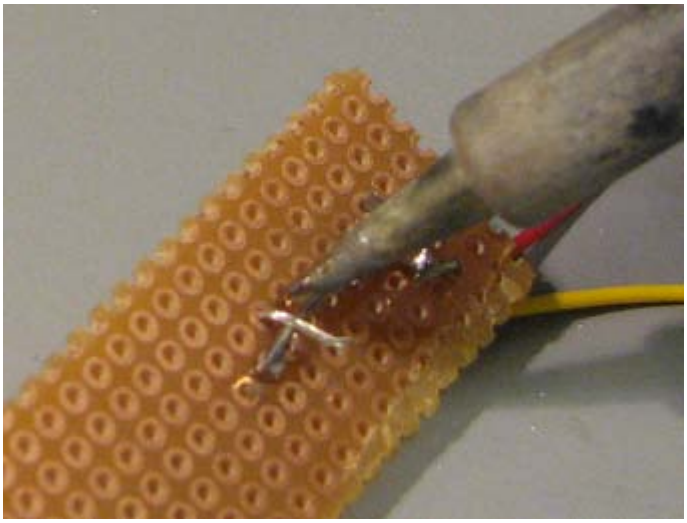

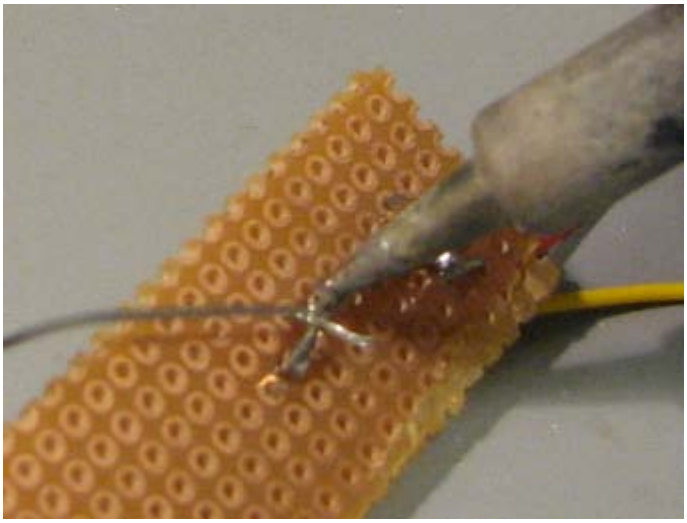

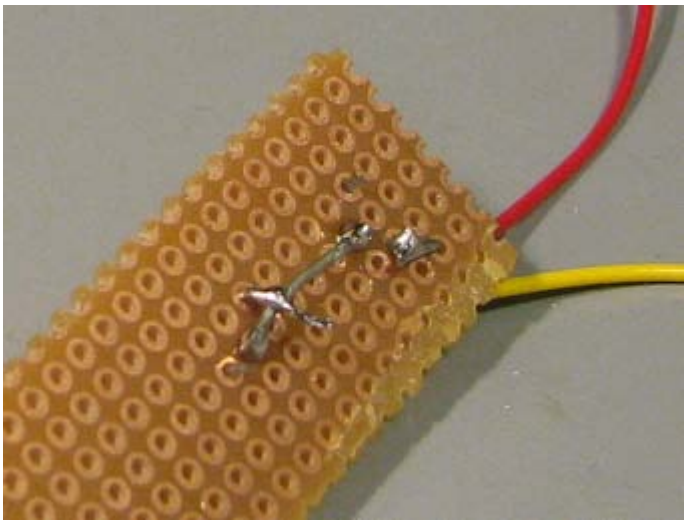

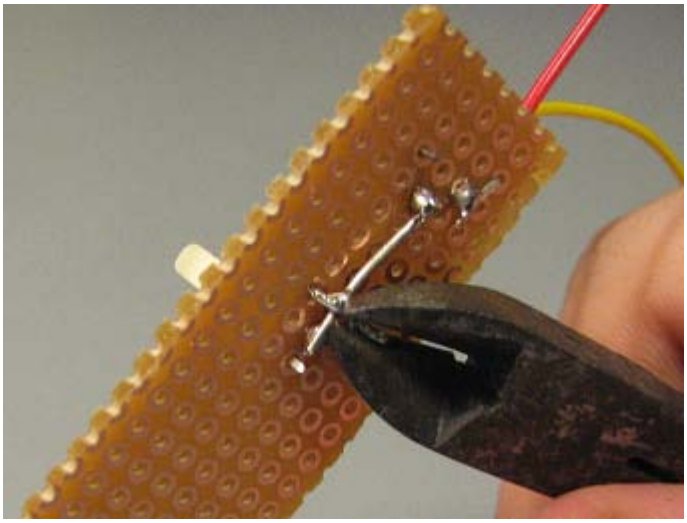

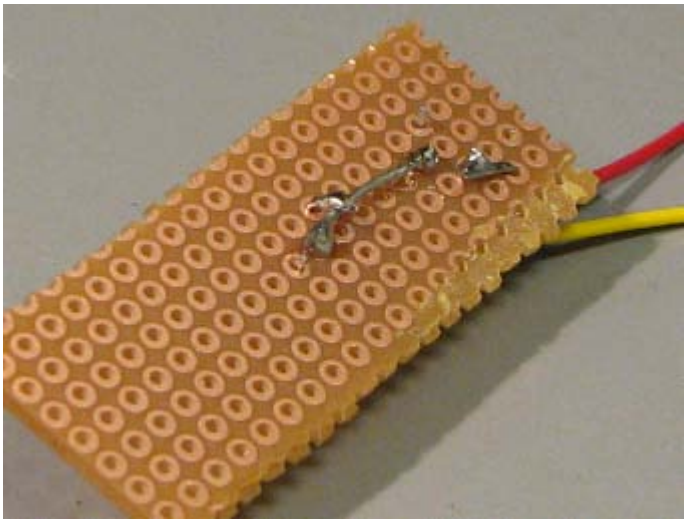

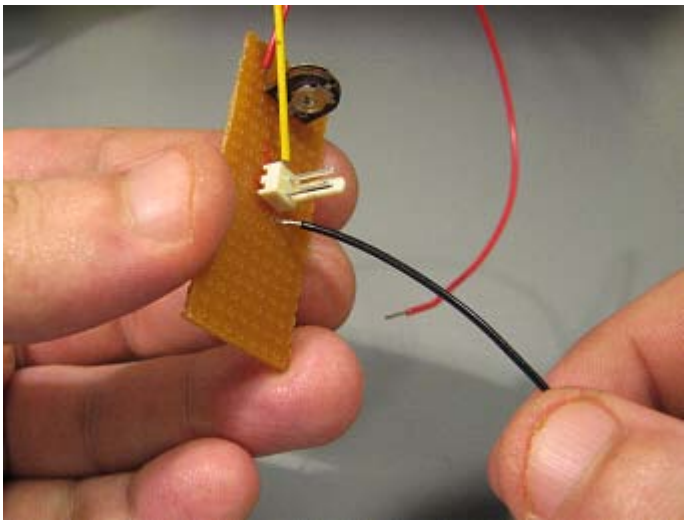

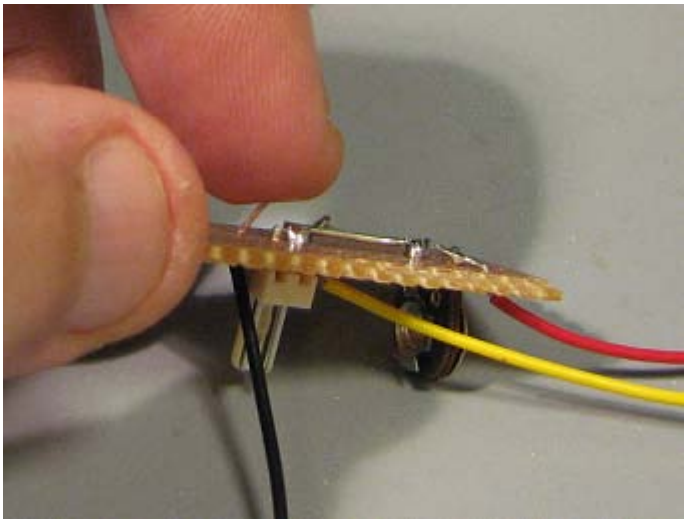

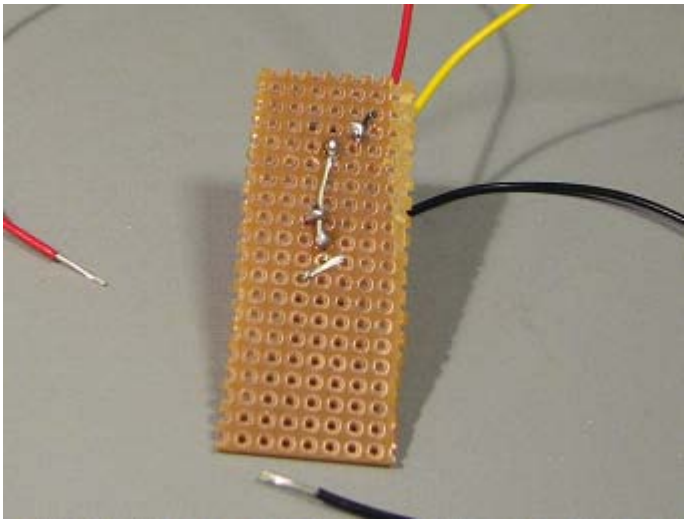

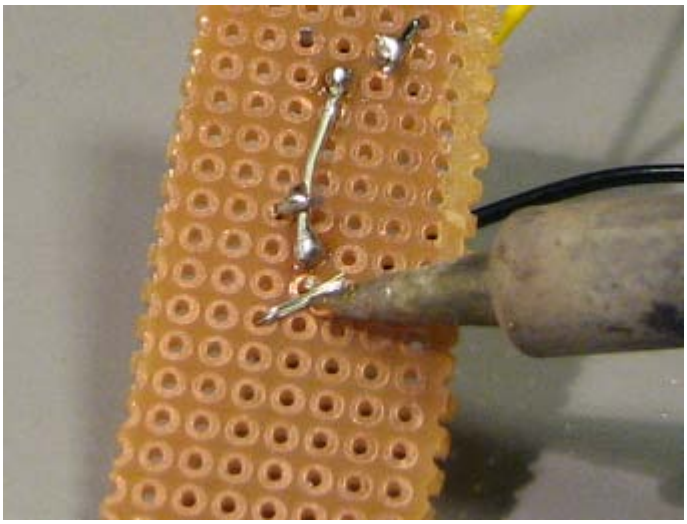

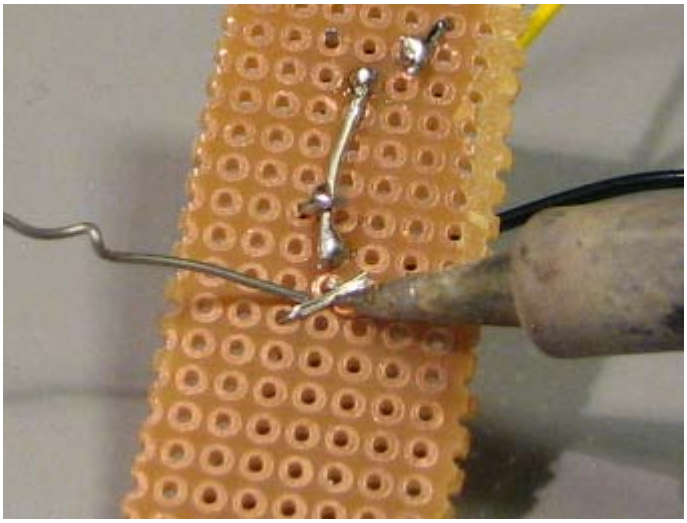

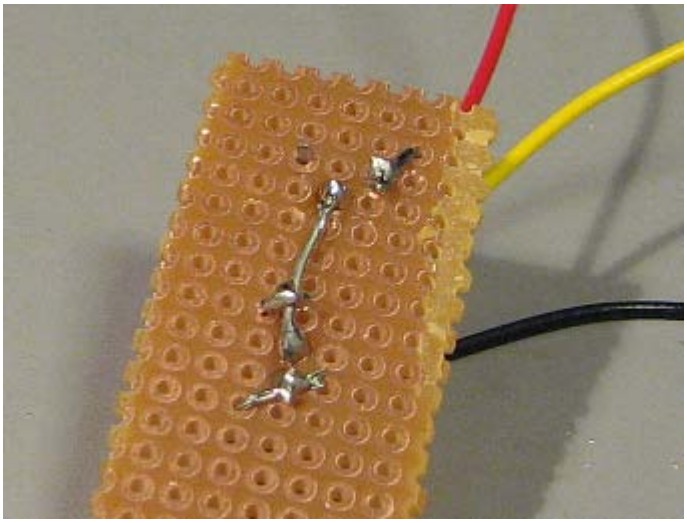

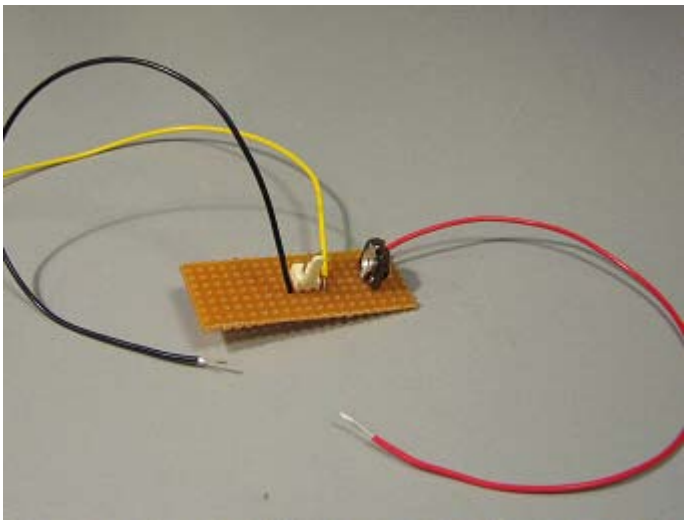

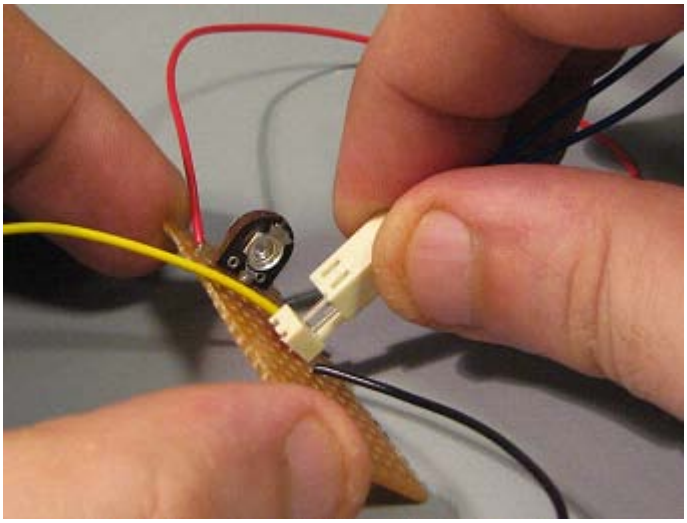

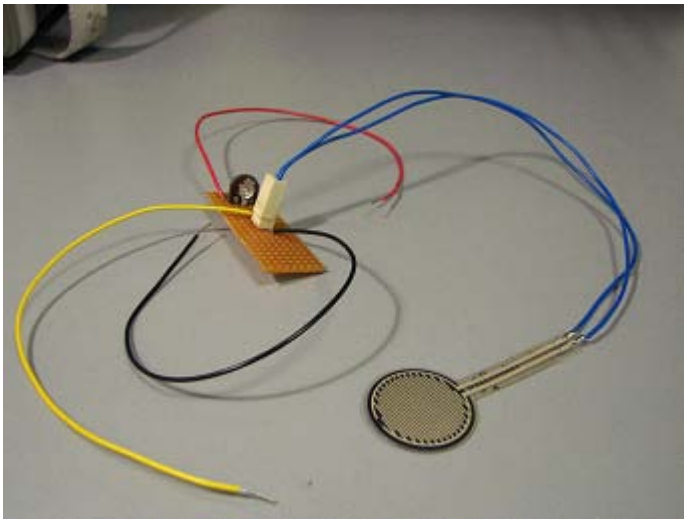

3.1 Powering and measurement