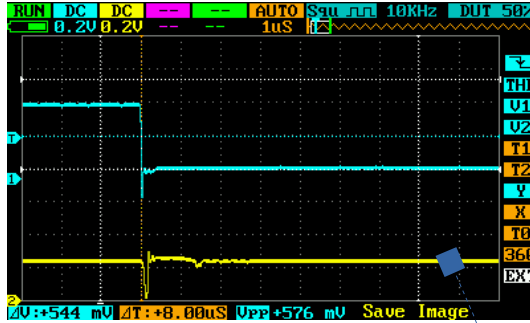


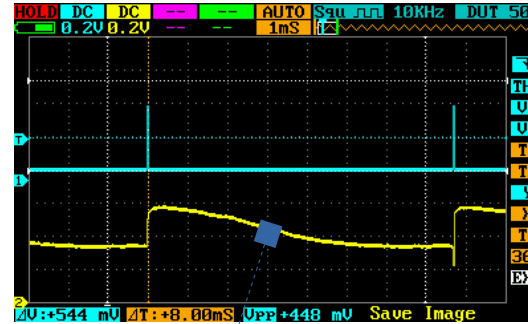
# Eco Friendly Metal Detector – Oscilloscope Traces

By TechKiwi  
July 2017

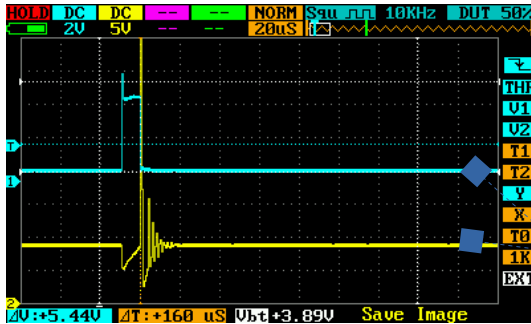
RX Circuit Input:  
1. Blue Trace 2V per cm – Arduino TX Pulse (Trigger)  
2. Yellow Trace 2V per cm – RX transistor input on Base



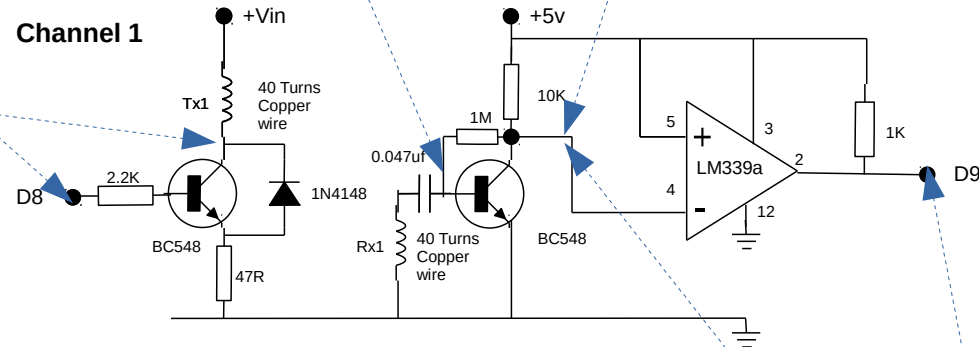
RX Circuit Output:  
1. Blue Trace 2V per cm – Arduino TX Pulse (Trigger)  
2. Yellow Trace 2V per cm – RX transistor output on RX Collector



TX Circuit:  
1. Blue Trace 2V per cm – Arduino TX Pulse (Trigger)  
2. Yellow Trace 5V per cm – TX transistor output on Collector



Channel 1



Note:  
1. Two Traces used with Zero Baseline as below  
2. Unless shown scale is 2V per cm

Schmitt Trigger effect to clean up pulse:  
1. Blue Trace 2V per cm – LM339 Output to Arduino (Trigger)  
2. Yellow Trace 2V per cm – RX transistor output on RX Collector

