

RC 360 Detector PCB Board Test Cases

Test Writer: Matt Whiteside, T08						
Test Case:		PCB quality checks			Test ID: RC360-t1	
Description		Test that board connections are as they should be, ie, components receiving power. Objective: verify that the board is ready to program.			Type: White box	
Tester Information						
Name of Tester:		Homer			Date:	
Hardware Ver:		1.0			Time:	
Setup:		Preconditions: unassembled PCB board, components, ready to assemble.				
Resources:		oscilloscope, digital multimeter, test probes				
Step	Action	Expected Result	Pass	Fail	N/A	Comments
1	trace check	no shorts between power/ground				
2	assemble regulators	output of 3 regulators is 3.3V, 5V and 7V				
3	Test power rails	Microcontroller should be receiving 5V				
4	Test programming	new program should load onto micro controller, without errors				
5	signal traces	all components should be receiving power/ground signals as expected				
Overall Test Result:						

References
1) board schematic: https://github.com/RC360Detector/RC360Detector/blob/master/T08_rc360detector_final.sch
2) board layout: https://github.com/RC360Detector/RC360Detector/blob/master/T08_rc360detector_final.brd
Test Version: 1.1
Date of this version: 12/9/2015
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