

RC 360 Detector Power Button Test Cases

Test Writer: Matt Whiteside, T08						
Test Case:		Servo control			Test ID: RC360-t1	
Description:		This test verifies that the button enables/disables the motor, but leaves the LED and distance sensing active.			Type: White box	
Objective:		Test type: functionality, acceptance. Button should work as described in state diagram.				
Tester Information						
Name of Tester:		Homer			Date:	
Hardware Ver:		1.0			Time:	
Setup:		the circuit board, assembled up to the point where the motor control and LED control signals are working;				
Resources:		digital multimeter; oscilloscope				
Step	Action	Expected Result	Pass	Fail	N/A	Comments
1	power-up	System motor is off, sensor/LEDs are active				
2	first button press	motor should start spinning, i.e., active state				
3	second button press	system should return to 'INIT' state				
4	3rd button press	system should return to active state				
Overall Test Result:						

References  
1) button state machine documentation: <https://github.com/RC360Detector/RC360Detector/blob/master/system-modeling/state-diagram.pdf>  
Test Version: 1.1  
Date of this version: 12/9/2015  
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