Test Case Name:		TCU Unit Test #2				Test ID#:	TCU-UT-02
Description:		Checks the function of the user interface circuitry. Verifies no opens/shorts and operation of LED's and switches.				Туре:	Black Box
Tester Inf	formation						
Name of Tester:						Date:	
Hardware Version:		User Interface - Version 005				Time:	
Setup:		9-pin ribbon connector from user interface should be connected according to the pin assignments below. Pin 9: +5V Pin 8: Connect to normally open switch to ground Pin 7: Connect to normally open switch to ground Pin 6-2: Connect each pin to individual test point for volt meter Pin 1: Connect to ground					
Step	Action	Expected Result	Pass	Fail	N/A	Comments	;
1	Apply +5V to User Interface	Green power led should light up	. 433	I un	IV/A	Comment	
	Measure voltage at pin 8. Depress	Intitial voltage at pin 8 should measure					
2	normally open switch, measure	0V, when switch is closed voltage should					
	voltage while switch is closed	measure +5V +/-5% Red LED (heat					
		indicator) should be on					
	Measure voltage at pin 7. Depress	Initial voltage at pin 7 should measure 0V,					
3	normally open switch, measure	when switch is closed voltage should					
	voltage while switch is closed	measure +5V +/-5%, Blue LED (Cooling					
		Indicator) should be on					
4	Measure voltage at pin 6. Depress	The measured voltage at pin 6 should be					
	Red switch (Reset) on user interface,	+5V +/-5% with the switch open, and 0V					
	measure voltage at pin 6 while switch is closed	with the switch closed					
	Measure voltage at pin 5. Depress	The measured voltage at pin 5 should be	1				
5	White switch (Up) on user interface,	+5V +/-5% with the switch open, and 0V					
	1 - 1	with the switch closed					
	is closed	with the switch closed					
	Measure voltage at pin 4. Depress	The measured voltage at pin 4 should be					
_	Black switch (Down) on user	+5V +/-5% with the switch open, and 0V					
6	interface, measure voltage at pin 4	with the switch closed					
	while switch is closed						
	Measure voltage at pin 3. Depress	The measured voltage at pin 3 should be					
7	Blue switch (Set) on user interface,	+5V +/-5% with the switch open, and 0V					
,	measure voltage at pin 3 while switch	with the switch closed					
	is closed						
8	Measure voltage at pin 2. Depress	The measured voltage at pin 2 should be					
	Green switch (Normal) on user	+5V +/-5% with the switch open, and 0V					
	interface, measure voltage at pin 2	with the switch closed					
	while switch is closed						
			1			1	