Temperature Measurements on La Spaziale S1 (Updated Circuit Board)

Master Temp										ן	Lights On During Fine Temperature Adjustment							
•	Fine Temp	Setting	Reading 1	Reading 2	Reading 3	Reading 4	Reading 5	Average	Avg Error	Reading 1 Err	85	90	95	100	105	110	120	ECON
90C	-3	87	88.4	88.4	88.2	89.4	88.7	88.6	1.6	1.4	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
	-2	88	88.0	89.2	89.0	88.3	88.7	88.6	0.6	0.0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
	-1	89	89.5	90.4	90.0	90.3	91.0	90.2	1.2	0.5	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
	0	90	90.1	91.3	91.1	91.6	89.5	90.7	0.7	0.1	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
	+1	91	91.1	91.4	92.3	91.7	92.0	91.7	0.7	0.1	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	Ŏ
	+2	92	92.4	91.7	93.3	93.4	92.7	92.7	0.7	0.4	\circ	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc		\bigcirc
	+3	93	93.0	94.1	93.8	93.6	93.6	93.6	0.6	0.0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc		
95C	-3	92	90.9	92.2	92.4	92.4	92.5	92.1	0.1	-1.1	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
	-2	93	92.7	92.4	94.3	93.7	94.3	93.5	0.5	-0.3	=	\bigcirc						
	-1	94	93.1	93.1	94.6	95.1	94.4	94.1	0.1	-0.9	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
	0	95	94.4	95.2	95.2	94.6	95.7	95.0	0.0	-0.6	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
	+1	96	94.5	95.7	96.2	96.3	97.0	95.9	-0.1	-1.5	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
	+2	97	97.0	97.1	97.1	97.2	97.9	97.3	0.3	0.0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc		\bigcirc
	+3	98	97.0	97.6	98.2	97.9	97.7	97.7	-0.3	-1.0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc		
100C	-3	97	96.3	97.1	96.8	97.9	98.6	97.3	0.3	-0.7	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
	-2	98	97.1	97.5	97.6	98.8	98.8	98.0	0.0	-0.9	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
	-1	99	98.1	98.5	98.4	98.5	98.7	98.4	-0.6	-0.9	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
	0	100	98.8	98.8	98.6	99.7	99.2	99.0	-1.0	-1.2	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
	+1										\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
	+2										\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc		\bigcirc
	+3										\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc		
Notes:	First reading always 3-5°C low & thrown out as a PF warm up cycle; i.e. took six readings about 45 seconds apart but only recording the last five.																	
10000	Recorded reading is highest observed during a 2oz volumetric pull.																	
	Always waited after each shot for light to stop blinking so temp stable and boiler off during reading (about 45 sec)																	
	Always waited after each shot for light to stop blinking so temp stable and boller off during reading (about 45 sec) Always waited at least 15 minutes after temp change for group temp to stabilize before taking new reading set																	
										l coffee puck wi	th TC t	in flush	with to	n of sr	onde			
	Thermomco												with te	,p 01 0p	ongo			
										get above 100°	Cat 1 a	atm of n	recour	Ъ.				
		01 0, 102				as may are	sincannyic			901 00000 100 1		ann or p	100000	0				
Conclusion:	The conclus	ion I read	h from this	data is to de	etermine the	e temperatu	ire at which	vou wish	to pull your	r shot. Find the	reading	above	whose	e avera	qe is c	losest	to	
										desired tempera								

hit the 2 cup button and run a double through the empty PF. Then immediately dry it off, load and tamp the coffee, reattach the PF and pull the shot. After this first shot, you can continue to pull additional shots every 45seconds and continue to rely on a stable temperature. However, once 5+ minutes have elapsed since the last shot repeat the above procedure before pulling another shot.