

## FSAE TTC -- ROUND 6 RUN GUIDE

Run numbers correspond to the data files, such as "A1654run17.dat" for Run 17.

Rim Diameter, in	Tire			Rim Width, in	Free-Rolling (Cornering)					
					<sup>1</sup> Transient	<sup>2</sup> Initial 12 psi	10, 14 psi	8 psi	<sup>3</sup> Final 12 psi	<sup>4</sup> Speed test
13	Hoosier	20.5 x 6.0 13 R25B A2500 (Item 43127)	6	1	2	2	3, 4	3, 4	3, 4	
13	Hoosier	20.5 x 6.0 13 R25B A2500 (Item 43127)	7	5	6	6	7	7	7	
13	Hoosier	20.5 x 7.0 13 R25B A2500 (Item 43163)	7	8	9	9	10	10	10	
13	Hoosier	20.5 x 7.0 13 R25B A2500 (Item 43163)	8	11	12	12	13	13	13	
13	Continental	205/510R13 (4914)	7	14	15	15	16	16	16	
13	Continental	205/510R13 (4914)	8	17	18	18	19	19	19	
10	Hoosier	18.0 x 7.5 10 R25B (Item 43105)	7	20	21	21	22	22	22	
10	Hoosier	18.0 x 7.5 10 R25B (Item 43105)	8	23	24	24	25	25	25	
10	Hoosier	18.0 x 6.0 10 R25B (Item 43101)	6	28	29	none	none	none	29	
10	Hoosier	18.0 x 6.0 10 R25B (Item 43101)	7	26	27	none	none	none	27	
10	Hoosier	6.0 / 18.0 10 LCO C2000 (Item 41100)	6	30	31	none	none	none	31	
10	Hoosier	6.0 / 18.0 10 LCO C2000 (Item 41100)	7	32	33	none	none	none	33	

1. Includes initial spring rates (12 psi) and step steers for transient analysis (12, 10 and 14 psi)
2. Includes cold to hot sweeps, break-in and post-break-in spring rates
3. Slip angle sweeps at 12 psi repeated after 10, 14 and 8 psi for comparison with the initial 12 psi block.
4. Slip angle sweeps at 12 psi tested at 15 mph and 45 mph. In all previous slip angle sweeps the speed is 25 mph.

Rim Diameter, in	Tire			Rim Width, in	Drive/Brake/Combined					
					<sup>5</sup> Warmup	Initial 12 psi	10, 14 psi	8 psi	<sup>6</sup> Final 12 psi	<sup>7</sup> Speed test
13	Hoosier	20.5 x 6.0 13 R25B A2500 (Item 43127)	6	48	49	49	50	50	50	
13	Hoosier	20.5 x 6.0 13 R25B A2500 (Item 43127)	7	51	52	52	53	53	53	
13	Hoosier	20.5 x 7.0 13 R25B A2500 (Item 43163)	7	54	55	55	56	56	56	
13	Hoosier	20.5 x 7.0 13 R25B A2500 (Item 43163)	8	57	58	58	59	59	59	
13	Continental	205/510R13 (4914)	7	60	61	61	62	62	62	
13	Continental	205/510R13 (4914)	8	63	64	64	65	65	65	
10	Hoosier	18.0 x 7.5 10 R25B (Item 43105)	7	34	35	35	36	36	36	
10	Hoosier	18.0 x 7.5 10 R25B (Item 43105)	8	37	38	38	39	39	39	
10	Hoosier	18.0 x 6.0 10 R25B (Item 43101)	6	40	41	none	none	none	41	
10	Hoosier	18.0 x 6.0 10 R25B (Item 43101)	7	42	43	none	none	none	43	
10	Hoosier	6.0 / 18.0 10 LCO C2000 (Item 41100)	6	44	45	none	none	none	45	
10	Hoosier	6.0 / 18.0 10 LCO C2000 (Item 41100)	7	46	47	none	none	none	47	

5. Includes initial spring rates, cold to hot, break-in and spring rates. Note, zero-speed spring rate block replaced with additional 25 mph spring rate block.
6. Slip ratio sweeps at 12 psi repeated after 10, 14 and 8 psi for comparison with the initial 12 psi block.
7. Slip ratio sweeps at 12 psi tested at 15 mph and 45 mph. In all previous slip angle sweeps the speed is 25 mph.

See "1654 Summary Tables.xls" for Calspan's complete description of the test procedures.

Tire spring rate, cornering stiffness, probe temperatures, tire weights and wheel weights are also included.