

FSAE TTC -- ROUND 7 RUN GUIDE

Run numbers correspond to the data files, such as "A1706run17.dat" for Run 17.

Rim Diameter, in	Tire		Rim Width, in	Free-Rolling (Cornering)					
				¹ Transient	² Initial 12 psi	10, 14 psi	8 psi	³ Final 12 psi	⁴ Speed test
10	Avon	7.0/16.0-10	7	1	2	2	3	3	3
10	Avon	7.0/16.0-10	8	4	5	5	6	6	6
13	Avon	8.2/20.0-13	8	7	8	8	9	9	9
13	Avon	8.2/20.0-13	9	11	12	12	13	13	13
13	Avon	7.2/20.0-13	7	14	15	15	16	16	16
13	Avon	7.2/20.0-13	8	17	18	18	19	19	19
13	Avon	6.2/20.0-13	6	20	21	21	22	22	22
13	Avon	6.2/20.0-13	7	23	24	24	25	25	25

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					
				⁵ Warmup	Initial 12 psi	10, 14 psi	8 psi	⁶ Final 12 psi	⁷ Speed test
13	Avon	6.2/20.0-13	6	26	27	27	28	28	28
13	Avon	6.2/20.0-13	7	29	30	30	31	31	31
13	Avon	7.2/20.0-13	7	32	33	33	34	34	34
13	Avon	7.2/20.0-13	8	35	36	36	37	37	37
13	Avon	8.2/20.0-13	8	38	39	39	40	40	40
13	Avon	8.2/20.0-13	9	41	42	42	43	43	43

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 "1706 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.