

F1 | BRAKE CIRCUIT **IDENTITY CARDS**

2015 FORMULA 1 UNITED STATES GRAND PRIX

23-25 OCT 2015

CIRCUIT OF THE AMERICAS (AUSTIN)

TYPE OF CIRCUIT

MEDIUM

TIME SPENT BRAKING

AVERAGE DECELERATION

BRAKING ENERGY PRODUCED BY A CAR DURING THE GP

132 kWh

TOTAL PEDAL LOAD **DURING THE GP**

77896 Kg

HARDER BRAKING

	STOPPING DISTANCE		MAXIMUI PEDAL LO
12 01 11		128 m 126 m 132 m	4 / _k
	••••••	126 m	WA —





CIRCUIT DATA

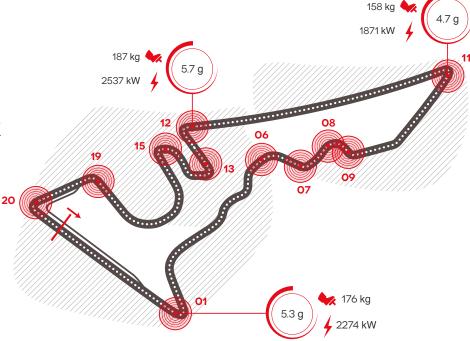
Length: 5,513 m Number of laps: 56

Number of brake zones/lap: 11

COMMENT

The Austin track can be considered to have a medium demand on the braking system with the drivers using the brakes for about 18% of the time on each lap, but it is characterised by two very sudden braking sections. The T12 turn is worth a mention. It is one of the most demanding of the season in terms of dissipated energy and one of the most sudden for the driver with a G force of -5.7 Gs.

* Turn 12 is considered the most demanding for the braking system.



01

Initial speed	318	(Km/h)
Final speed	73	(Km/h)
Stopping distance	126	(m)
Braking time	1.37	(sec)
Maximum deceleration	5.3	(g)
Maximum pedal load	176	(Kg)
Braking power	2274	(Kw)

07

h)
h)

09

Initial speed	202	(Km/h)
Final speed	128	(Km/h)
Stopping distance	62	(m)
Braking time	0.91	(sec)
Maximum deceleration	2.7	(g)
Maximum pedal load	92	(Kg)
Braking power	677	(Kw)

12*

Initial speed	332	(Km/h)
Final speed	77	(Km/h)
Stopping distance	128	(m)
Braking time	1.36	(sec)
Maximum deceleration	5.7	(g)
Maximum pedal load	187	(Kg)
Braking power	2537	(Kw)

15

Initial speed	211	(Km/h)
Final speed	76	(Km/h)
Stopping distance	62	(m)
Braking time	0.90	(sec)
Maximum deceleration	2.9	(g)
Maximum pedal load	95	(Kg)
Braking power	758	(Kw)

06

285	(Km/h)
223	(Km/h)
19	(m)
0.68	(sec)
4.5	(g)
99	(Kg)
1249	(Kw)
	223 19 0.68 4.5 99

08

221	(Km/h)
175	(Km/h)
19	(m)
0.70	(sec)
3.1	(g)
92	(Kg)
829	(Kw)
	175 19 0.70 3.1 92

11

Initial speed	293	(Km/h)
Final speed	77	(Km/h)
Stopping distance	132	(m)
Braking time	1.55	(sec)
Maximum deceleration	4.7	(g)
Maximum pedal load	158	(Kg)
Braking power	1871	(Kw)

Initial speed	199	(Km/h)
Final speed	94	(Km/h)
Stopping distance	72	(m)
Braking time	1.03	(sec)
Maximum deceleration	2.7	(g)
Maximum pedal load	89	(Kg)
Braking power	648	(Kw)

19

17			
Initial speed	283	(Km/h)	
Final speed	169	(Km/h)	
Stopping distance	70	(m)	
Braking time	0.89	(sec)	
Maximum deceleration	4.4	(g)	
Maximum pedal load	145	(Kg)	
Braking power	1686	(Kw)	



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18%

AVERAGE DECELERATION

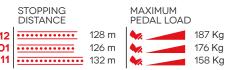
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4.0 g

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HARDER BRAKING



CIRCUIT DATA

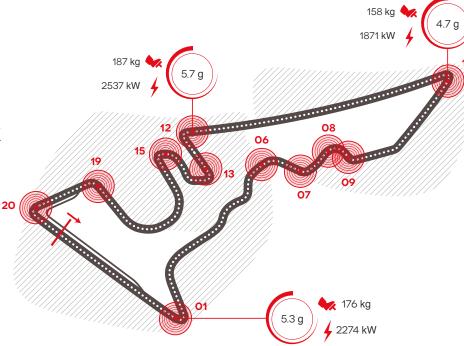
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20		
Initial speed	249	(Km/h)
Final speed	95	(Km/h)
Stopping distance	104	(m)
Braking time	1.31	(sec)
Maximum deceleration	3.7	(g)
Maximum pedal load	124	(Kg)
Braking power	1197	(Kw)