

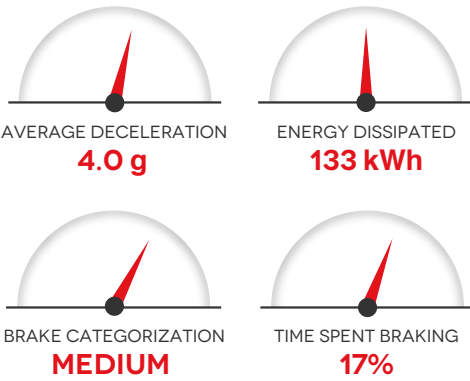


F1 | BRAKE CIRCUIT IDENTITY CARDS

2016 FORMULA 1
UNITED STATES GRAND PRIX

21-23 OCT 2016

CIRCUIT OF THE AMERICAS (AUSTIN)



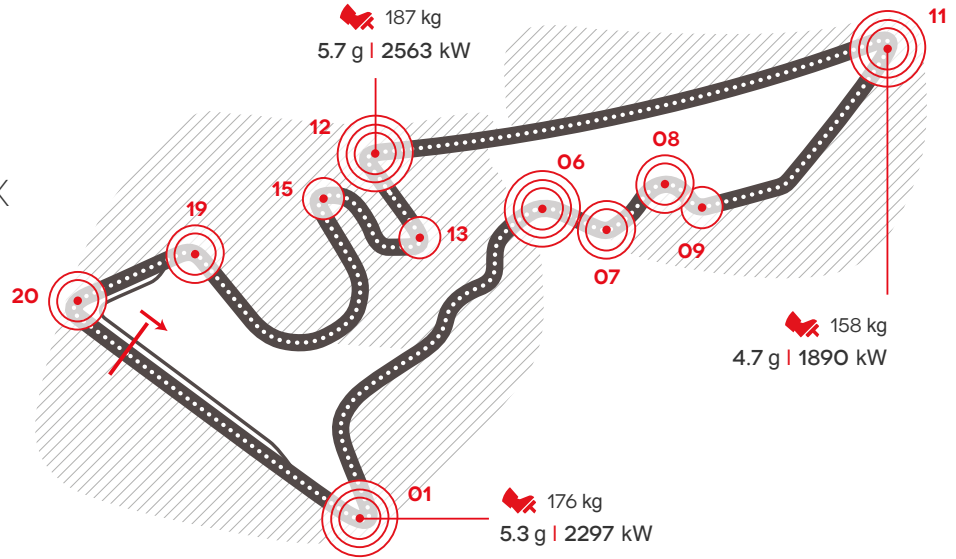
CIRCUIT DATA

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 17% 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	322	(Km/h)
Final speed	74	(Km/h)
Stopping distance	125	(m)
Braking time	1.37	(sec)
Maximum deceleration	5.3	(g)
Maximum pedal load	176	(Kg)
Braking power	2297	(Kw)

07

Initial speed	269	(Km/h)
Final speed	195	(Km/h)
Stopping distance	23	(m)
Braking time	0.74	(sec)
Maximum deceleration	4.0	(g)
Maximum pedal load	135	(Kg)
Braking power	1445	(Kw)

09

Initial speed	205	(Km/h)
Final speed	129	(Km/h)
Stopping distance	61	(m)
Braking time	0.91	(sec)
Maximum deceleration	2.7	(g)
Maximum pedal load	92	(Kg)
Braking power	684	(Kw)

12*

Initial speed	337	(Km/h)
Final speed	78	(Km/h)
Stopping distance	127	(m)
Braking time	1.35	(sec)
Maximum deceleration	5.7	(g)
Maximum pedal load	187	(Kg)
Braking power	2563	(Kw)

15

Initial speed	214	(Km/h)
Final speed	77	(Km/h)
Stopping distance	61	(m)
Braking time	0.90	(sec)
Maximum deceleration	2.9	(g)
Maximum pedal load	95	(Kg)
Braking power	765	(Kw)

20

Initial speed	252	(Km/h)
Final speed	97	(Km/h)
Stopping distance	103	(m)
Braking time	1.31	(sec)
Maximum deceleration	3.7	(g)
Maximum pedal load	124	(Kg)
Braking power	1209	(Kw)

06

Initial speed	290	(Km/h)
Final speed	226	(Km/h)
Stopping distance	18	(m)
Braking time	0.68	(sec)
Maximum deceleration	4.5	(g)
Maximum pedal load	99	(Kg)
Braking power	1262	(Kw)

08

Initial speed	224	(Km/h)
Final speed	178	(Km/h)
Stopping distance	19	(m)
Braking time	0.70	(sec)
Maximum deceleration	3.1	(g)
Maximum pedal load	92	(Kg)
Braking power	837	(Kw)

11

Initial speed	298	(Km/h)
Final speed	78	(Km/h)
Stopping distance	131	(m)
Braking time	1.55	(sec)
Maximum deceleration	4.7	(g)
Maximum pedal load	158	(Kg)
Braking power	1890	(Kw)

13

Initial speed	202	(Km/h)
Final speed	96	(Km/h)
Stopping distance	71	(m)
Braking time	1.03	(sec)
Maximum deceleration	2.7	(g)
Maximum pedal load	89	(Kg)
Braking power	654	(Kw)

19

Initial speed	287	(Km/h)
Final speed	172	(Km/h)
Stopping distance	69	(m)
Braking time	0.89	(sec)
Maximum deceleration	4.4	(g)
Maximum pedal load	145	(Kg)
Braking power	1703	(Kw)