

2021 FORMULA 1 ARAMCO UNITED STATES GRAND PRIX

brembo 
22-24 OCT 2021

BRAKE CIRCUIT IDENTITY CARD

BRAKES EFFORT

 **MEDIUM**

TIME SPENT BRAKING

 **18%**

CIRCUIT LENGTH

 **5,513 M**

NUMBER OF LAPS

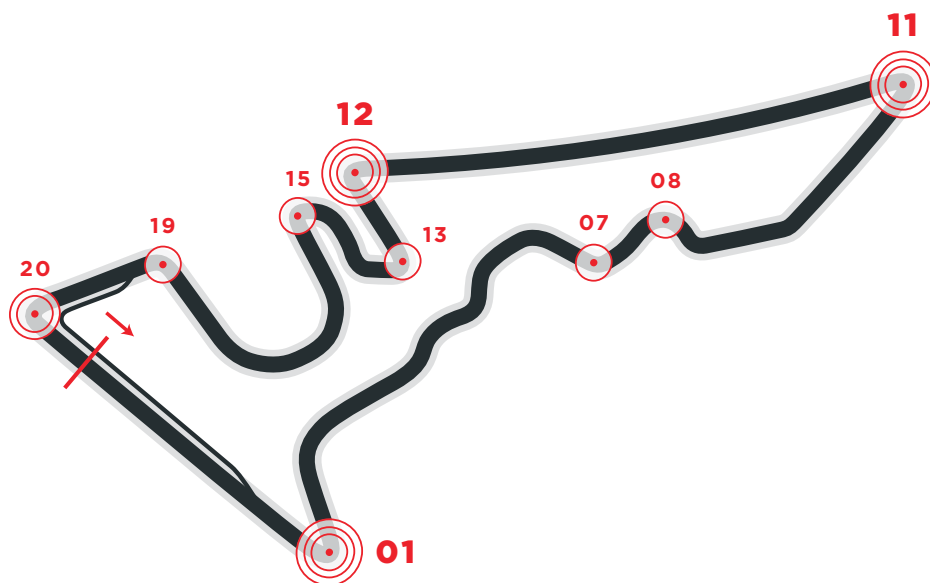
 **56**

NUMBER OF BRAKE ZONES/LAP

 **09**

IMPORTANT

TURN 12*, **TURN 01*** and **TURN 11***
are considered the most demanding
for the braking system.



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 characterized by three very sudden braking sections.

The turn 12 is worth a mention: it is one of the most demanding of the season in terms of dissipated energy.

Should you publish any of the data contained here please quote Brembo as source used.

01	Initial speed	323	(Km/h)
	Final speed	104	(Km/h)
	Stopping distance	120	(m)
	Braking time	2.38	(sec)
	Maximum deceleration	5.3	(g)
	Maximum pedal load	159	(Kg)
	Braking power	2484	(Kw)

07	Initial speed	255	(Km/h)
	Final speed	197	(Km/h)
	Stopping distance	73	(m)
	Braking time	1.17	(sec)
	Maximum deceleration	1.7	(g)
	Maximum pedal load	24	(Kg)
	Braking power	166	(Kw)

08	Initial speed	231	(Km/h)
	Final speed	173	(Km/h)
	Stopping distance	47	(m)
	Braking time	0.85	(sec)
	Maximum deceleration	2.4	(g)
	Maximum pedal load	27	(Kg)
	Braking power	357	(Kw)

11	Initial speed	294	(Km/h)
	Final speed	82	(Km/h)
	Stopping distance	109	(m)
	Braking time	2.51	(sec)
	Maximum deceleration	5.1	(g)
	Maximum pedal load	171	(Kg)
	Braking power	2111	(Kw)

12	Initial speed	332	(Km/h)
	Final speed	95	(Km/h)
	Stopping distance	120	(m)
	Braking time	2.38	(sec)
	Maximum deceleration	5.6	(g)
	Maximum pedal load	183	(Kg)
	Braking power	2880	(Kw)

13	Initial speed	222	(Km/h)
	Final speed	98	(Km/h)
	Stopping distance	84	(m)
	Braking time	2.08	(sec)
	Maximum deceleration	3.1	(g)
	Maximum pedal load	86	(Kg)
	Braking power	875	(Kw)

15	Initial speed	233	(Km/h)
	Final speed	83	(Km/h)
	Stopping distance	102	(m)
	Braking time	2.61	(sec)
	Maximum deceleration	3.0	(g)
	Maximum pedal load	96	(Kg)
	Braking power	1100	(Kw)

19	Initial speed	300	(Km/h)
	Final speed	215	(Km/h)
	Stopping distance	73	(m)
	Braking time	1.03	(sec)
	Maximum deceleration	3.1	(g)
	Maximum pedal load	41	(Kg)
	Braking power	718	(Kw)

20	Initial speed	273	(Km/h)
	Final speed	104	(Km/h)
	Stopping distance	92	(m)
	Braking time	2.05	(sec)
	Maximum deceleration	4.7	(g)
	Maximum pedal load	125	(Kg)
	Braking power	1704	(Kw)