F1 | BRAKE CIRCUIT IDENTITY CARDS

2015 FORMULA 1 SINGAPORE<br>AIRLINES SINGAPORE GRAND PRIX

## 18-20 SEP 2015

MARINA BAY STREET CIRCUIT (SINGAPORE)


Length: 5,073 m
Number of laps: 61
Number of brake zones/lap: 13

## COMMENT

As they pick their way through the turns and chicanes on the Singapore Street Circuit the drivers are well aware that they will need to put a lot of stress on their single-seater's brakes with almost a full fourth of the time spent on them.
Of the 13 braking sections that characterise this circuit, non of them are particularly demanding, but the heated pace and the lack of adequate space for cooling make it one of the hardest on the braking systems. Friction material wear is one of the things that need to be monitored constantly in telemetry during each lap of the race.

[^0]

| O1 |  |  |
| :--- | :--- | :--- |
| Initial speed | 311 | $(\mathrm{Km} / \mathrm{h})$ |
| Final speed | 126 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 113 | $(\mathrm{~m})$ |
| Braking time | 1.22 | $(\mathrm{sec})$ |
| Maximum deceleration | 4.9 | $(\mathrm{~g})$ |
| Maximum pedal load | 151 | $(\mathrm{Kg})$ |
| Braking power | 2052 | $(\mathrm{Kw})$ |

05

| Initial speed | 261 | $(\mathrm{Km} / \mathrm{h})$ |
| :--- | :--- | :--- |
| Final speed | 121 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 95 | $(\mathrm{~m})$ |
| Braking time | 1.15 | $(\mathrm{sec})$ |
| Maximum deceleration | 3.8 | $(\mathrm{~g})$ |
| Maximum pedal load | 118 | $(\mathrm{Kg})$ |
| Braking power | 1320 | $(\mathrm{Kw})$ |


| O8 |  |  |
| :--- | :--- | :--- |
| Initial speed | 205 | $(\mathrm{Km} / \mathrm{h})$ |
| Final speed | 69 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 93 | $(\mathrm{~m})$ |
| Braking time | 1.31 | $(\mathrm{sec})$ |
| Maximum deceleration | 2.7 | $(\mathrm{~g})$ |
| Maximum pedal load | 85 | $(\mathrm{Kg})$ |
| Braking power | 670 | $(\mathrm{Kw})$ |

## 10

| Initial speed | 276 | $(\mathrm{Km} / \mathrm{h})$ |
| :--- | :--- | :--- |
| Final speed | 115 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 106 | $(\mathrm{~m})$ |
| Braking time | 1.24 | $(\mathrm{sec})$ |
| Maximum deceleration | 4.1 | $(\mathrm{~g})$ |
| Maximum pedal load | 128 | $(\mathrm{Kg})$ |
| Braking power | 1506 | $(\mathrm{Kw})$ |


| $\mathbf{1 4}$ |  |  |
| :--- | :--- | :--- |
| Initial speed | 285 | $(\mathrm{Km} / \mathrm{h})$ |
| Final speed | 78 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 122 | $(\mathrm{~m})$ |
| Braking time | 1.42 | $(\mathrm{sec})$ |
| Maximum deceleration | 4.3 | $(\mathrm{~g})$ |
| Maximum pedal load | 134 | $(\mathrm{Kg})$ |
| Braking power | 1633 | $(\mathrm{Kw})$ |


| O3 |  |  |
| :--- | :--- | :--- |
| Initial speed | 138 | $(\mathrm{Km} / \mathrm{h})$ |
| Final speed | 83 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 0.96 | $(\mathrm{mec})$ |
| Braking time | 1.6 | $(\mathrm{~g})$ |
| Maximum deceleration | 56 | $(\mathrm{Kg})$ |
| Maximum pedal load | 197 | $(\mathrm{Kw})$ |
| Braking power |  |  |

07*

| Initial speed | 319 | $(\mathrm{Km} / \mathrm{h})$ |
| :--- | :--- | :--- |
| Final speed | 99 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 132 | $(\mathrm{~m})$ |
| Braking time | 1.43 | $(\mathrm{sec})$ |
| Maximum deceleration | 5.1 | $(\mathrm{~g})$ |
| Maximum pedal load | 155 | $(\mathrm{Kg})$ |
| Braking power | 2181 | $(\mathrm{Kw})$ |


| O9 |  |  |
| :--- | :--- | :--- |
| Initial speed | 191 | $(\mathrm{Km} / \mathrm{h})$ |
| Final speed | 115 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 63 | $(\mathrm{~m})$ |
| Braking time | 0.94 | $(\mathrm{sec})$ |
| Maximum deceleration | 2.4 | $(\mathrm{~g})$ |
| Maximum pedal load | 73 | $(\mathrm{Kg})$ |
| Braking power | 524 | $(\mathrm{Kw})$ |


| 13 |  |  |
| :--- | :--- | :--- |
| Initial speed | 167 | $(\mathrm{Km} / \mathrm{h})$ |
| Final speed | 110 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 0.92 | $(\mathrm{~m})$ |
| Braking time | 2.0 | $(\mathrm{sec})$ |
| Maximum deceleration | 65 | $(\mathrm{Kg})$ |
| Maximum pedal load | 356 | $(\mathrm{Kw})$ |


| 16 |  |  |
| :--- | :--- | :--- |
| Initial speed | 239 | $(\mathrm{Km} / \mathrm{h})$ |
| Final speed | 99 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 1.25 | $(\mathrm{sec})$ |
| Braking time | 3.3 | $(\mathrm{~g})$ |
| Maximum deceleration | 100 | $(\mathrm{Kg})$ |
| Maximum pedal load | 1031 | $(\mathrm{Kw})$ |
| Braking power |  |  |

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[^1]
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