The Importance of Brake Adjustment

In Adjustment Brakes Prevent Crashes that could be caused by a Lack of Sufficient Braking Force

Drivers can’t feel a brake Out of Adjustment

Stopping Distance Depends on...

- Available Brake force
  - Speed
  - Weight
  - Driver Reaction Time
  - Brake System Activation Time
  - Road Conditions (slope, friction)
  - Tire Conditions (wear, pressure)

<table>
<thead>
<tr>
<th>Brake Force (Avg. Per Wheel)</th>
<th>Calculated Stopping Distance (from 60 mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000 lbs</td>
<td>321 ft</td>
</tr>
<tr>
<td>1000 lbs</td>
<td>962 ft</td>
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</tbody>
</table>

Brakes In Adjustment

Max. Available Brake Force

Brakes Out of Adjustment

Reduced Brake Force

Estimated Number of Trucks in Crashes in which: 
Brake Failure, out of adjustment, etc. was an associated factor.

29.4%

Assumptions: 80,000 lb vehicle, Brake Force is the same at all wheels, Instantaneous and Constant Deceleration, Dry Concrete, No Brake Fade

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