Safe system approach: Vehicle countermeasures

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Vehicle designs for pedestrian protection

- Streamlined contour
- Aggressive bumper styling contours
- Recessed wiper mounts
- Headlamps outside testing area
- Hood wraps around side of vehicle
- Crushable fender standoffs
- Plastic hood release and recessed latch
- Thermoplastic bumper
- Lower bumper support
- Covered strut towers
Vehicle types in single-vehicle fatal pedestrian crashes
2009–18

- cars, +44%
- SUVs, +93%
- pickups, +40%
- minivans/large vans, +2%
- medium/heavy trucks, +34%
**GOOD**: 2018 Hyundai Kona with LED projector headlights

**POOR**: 2018 Hyundai Kona with halogen projector headlights
Pedestrian automatic emergency braking

Percent change in pedestrian-related injury claim frequency, Subaru’s EyeSight

More claims

Fewer claims

<table>
<thead>
<tr>
<th>Model</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impreza 4dr 4WD</td>
<td>-60%</td>
</tr>
<tr>
<td>Impreza station wagon 4WD</td>
<td>-40%</td>
</tr>
<tr>
<td>XV Crosstrek station wagon 4WD</td>
<td>-20%</td>
</tr>
<tr>
<td>Forester 4dr 4WD</td>
<td>0%</td>
</tr>
<tr>
<td>Outback station wagon 4WD</td>
<td>-20%</td>
</tr>
<tr>
<td>Legacy 4dr 4WD</td>
<td>-60%</td>
</tr>
<tr>
<td>All vehicles</td>
<td>-60%</td>
</tr>
</tbody>
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