Frequently Asked Questions



5-Star Safety Ratings Overview

1. What is the 5-Star Safety Ratings System?

Also called the New Car Assessment Program (NCAP), the 5-Star Safety Ratings System was created by the National Highway Traffic Safety Administration (NHTSA) to provide consumers with information about the crash protection and rollover safety of new vehicles beyond what is required by statute. One star is the lowest rating, five stars is the highest. More stars equal safer cars.

2. How long has the 5-Star System been around?

The 5-Star Safety Ratings System was initiated in 1978 to measure the level of increased safety for vehicle occupants in frontal crashes. Side crash rating results were added with 1997 model year vehicles and rollover assessments with 2001 models. This is a program that encourages manufacturers to voluntarily design safer vehicles by giving them safety ratings that can be used by consumers to compare vehicles when shopping for a new car.

3. Where can I find 5-Star Safety Ratings?

5-Star Safety Ratings can be found on SaferCar.gov and are posted on the Monroney labels (window stickers) that are required to be displayed on all new vehicles.

4. Do other organizations crash rate vehicles?

Yes, other organizations test crash vehicles, but NHTSA is the only organization that rates rollover resistance, in addition to frontal and side crashworthiness.

5-Star Safety Ratings Changes: 2011 Models and Beyond

5. Why has the 5-Star Safety Ratings System changed and what is the program's goal?

As the 5-Star Safety Ratings of vehicles improved, the agency looked for new ways to encourage the continuous advancement of vehicle safety. Also, the agency wanted to provide more comprehensive information about vehicles to consumers so they can make more educated purchasing decisions. The additional testing and data that is reflected in the new ratings will better discriminate between the relative safety of vehicle models.

NHTSA's ultimate goal is to continuously improve occupant protection and crash avoidance by enhancing the incentives for vehicle manufacturers to improve the crashworthiness aspects of vehicles and include new safety technologies.

6. What are the changes in the new Safety Ratings?

New criteria for the ratings system include side pole testing, using different sized test dummies, collecting more crash data, offering a single *Overall Vehicle Score* per vehicle, and highlighting new crash avoidance technologies.

7. Are crash avoidance technologies part the enhanced 5-Star System?

While not part of the 5-Star Ratings System, NHTSA identifies if rated vehicles are also equipped with advanced technology features like Electronic Stability Control (ESC), Lane Departure Warning (LDW), and Forward Collision Warning (FCW)

Safety starts here.





U.S. Department of Transportation National Highway Traffic Safety Administration to help consumers buy a safer car. ESC applies braking to individual wheels during sudden turns so that the driver will not lose control of the vehicle. ESC ensures that the vehicle travels in the direction intended by the driver. LDW monitors lane markings and alerts the driver if a vehicle appears to be inadvertently drifting into an adjoining lane. FCW recognizes when a vehicle gets too close to another vehicle, and signals the driver to apply the brakes to avoid a collision.

8. When will the changes in the new Safety Ratings be implemented?

The changes will be implemented beginning with 2011 model year vehicles.

9. How will ratings changes affect the Monroney label?

The new 5-Star Safety Ratings, will be displayed on the Monroney label, beginning with MY 2012 vehicles.

10. How does NHTSA choose vehicles to rate? If NHTSA didn't rate my vehicle, how do I know it's safe?

Each year, NHTSA rates a sample of new vehicles that are predicted to have high sales volume, those that have been structurally redesigned, or those with improved safety equipment. Tested vehicles are purchased from dealerships across the country; the vehicles are not supplied directly to NHTSA by the manufacturer, a common misperception.

For the 2011 model year, NHTSA estimates 60 percent of the light vehicle fleet will be rated. Though NHTSA is unable to rate every car, all vehicles sold in the U.S. must meet Federal Motor Vehicle Safety Standards.

11. Do the changes in the new Safety Ratings mean that vehicles that previously received 4- or 5-star ratings may get lower ratings even if no changes have been made to the vehicle?

Yes, NHTSA expects many star ratings to be lower. However, it does not mean that your current 4- or 5-star vehicle is unsafe. Due to more vigorous testing, a vehicle that once received 5 stars under the old system, may receive a lower score under the new system, even if no changes have been made to the model. **12. Will NHTSA revise the ratings for older vehicles?** No, NHTSA will not revise the published safety ratings for any 2010 or prior model year vehicle. However, old ratings will still be available via the SaferCar.gov website.

The new 5-Star Safety Ratings include, for the first time, an *Overall Vehicle Score*, and a combination of results from two side-impact crash tests. The intention of the new ratings and tougher crash tests is to encourage manufacturers to build the safest vehicles possible.

5-Star Safety Ratings Test Procedures

13. How does NHTSA perform the frontal crash test?

Crash test dummies representing an average-sized adult male and a small-sized adult female are placed in the driver and front passenger seats, respectively, and are secured with seat belts. Vehicles are crashed into a fixed barrier at 35 miles per hour (mph), which is equivalent to a head-on collision between two similar vehicles each moving at 35 mph.

Instruments measure the force of impact to each dummy's head, neck, chest, pelvis, femur (legs), and feet. The frontal crash rating is an evaluation of injury to the head, neck, chest, and femur (legs) for the driver and right front seat passenger. Since the frontal crash test reflects a crash between two similar vehicles, only vehicles from the same weight class, plus or minus 250 pounds, can be compared when looking at frontal crash ratings.

14. How does NHTSA perform the side barrier crash test?

Crash test dummies representing an average-sized adult male and a small-sized adult female are placed in the driver and rear passenger seats (driver's side), respectively, and are secured with seat belts. The side crash rating represents an intersection-type collision by having a 3,015-pound barrier moving at 38.5 mph into a standing vehicle. The moving barrier is covered with material that is crushable to replicate the front of a vehicle.

Instruments measure the force of impact to each dummy's body regions. The side barrier front seat rating is an evaluation of injury to the head, chest, abdomen, and pelvis for the driver and front seat passenger dummy. The side barrier rear seat rating is an evaluation of injury to the head and pelvis for the rear seat passenger (second row occupants). It is possible to compare all vehicles with each other when looking at side barrier ratings since all rated vehicles are impacted by the same-sized barrier.

15. How does NHTSA perform the new side pole crash test and how are vehicles rated?

A small-sized adult female crash test dummy is placed in the driver's seat and is secured with a seat belt. The test vehicle, angled at 75 degrees, is then pulled sideways at 20 mph into a 25-cm diameter pole at the driver's seating location. This test mimics a side impact crash involving a narrow, fixed object like a utility pole or tree.

Instruments measure the force of impact to the dummy's head, chest, lower spine, abdomen, and pelvis. Unless otherwise noted, the side pole rating is an evaluation of injury to the head and pelvis for both the driver and front seat passenger. It is possible to compare all vehicles to each other when looking at side pole ratings because all rated vehicles impact the same-sized pole.

16. What other side ratings does NHTSA assign to vehicles?

NHTSA combines the driver front seat rating from the side pole test with the driver front seat rating from the side barrier test for a combined side barrier and pole front seat rating. The probabilities of injury from the front and rear seat occupants in the side barrier test and the front seat occupant in the side pole crash test are then weighted and combined to assign a side crash rating.

The side crash rating is compared to the side crash performance of an average vehicle in the fleet. A lower than average risk of injury is better; occupants in these vehicles will be less likely than average to sustain injury in side impact collisions with other vehicles or stationary objects such as trees and utility poles.

- = Side crash injury risk for this vehicle is much less than average
- **Side crash injury risk for this vehicle is less than** average to average
- **Side crash injury risk for this vehicle is average**
- than average
- = Side crash injury risk for this vehicle is much greater than average

17. Why doesn't NHTSA do rear impact crash ratings?

NHTSA's 5-Star Ratings System has a limited budget and must concentrate its ratings on front and side-impact crashes that are responsible for the highest percentage of deaths and serious injuries.

Comparing Vehicles Based on 5-Star Safety Ratings

18. How does NHTSA categorize vehicles?

NHTSA categorizes vehicles by class and "curb" weight. Curb weight is the weight of a vehicle with standard equipment including the maximum capacity of fuel, oil, coolant, and air conditioning. Passenger cars are further subdivided.

- Passenger cars mini (PC/Mi) (1,500–1,999 lbs.)
- Passenger cars light (PC/L) (2,000–2,499 lbs.)
- Passenger cars compact (PC/C) (2,500–2,999 lbs.)
- Passenger cars medium (PC/Me) (3,000–3,499 lbs.)
- Passenger cars heavy (PC/H) (3,500 lbs. and over)
- Sport utility vehicles (SUV)
- Pickup trucks (PU)
- Vans (VAN)

19. Can I compare vehicles from different classes?

Side crash rating results can be compared across all classes because all vehicles are hit with the same force by the same moving barrier or pole. Rollover ratings can also be compared across all classes. Frontal crash rating results can only be compared to other vehicles in the same class and whose weight is plus or minus 250 pounds of the vehicle being rated. This is because a frontal crash rating into a fixed barrier represents a crash between two vehicles of the same weight.

20. What does it mean if the symbol (**A**) appears on a vehicle's ratings label?

This symbol alerts consumers to a safety concern the government has about the vehicle. That concern can include: structural failure or some type of unintended performance of a vehicle component such as a fuel leakage or a door opening. Please note that safety concerns are NOT part of the calculation for an *Overall Vehicle Score*. A vehicle can have a high star rating, but still have a safety concern. However, if a safety concern is identified, the symbol will appear in the correct crash category and *Overall Vehicle Score* area.

U.S. Department of Transportation National Highway Traffic Safety Administration Safety starts here.

