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# BUYING A SAFER CAR

## FOR CHILD PASSENGERS

# 2009

A GUIDE FOR PARENTS



DOT HS 811 091  
August 2009

What to Look for When Buying a New Car

Child Safety and Booster Seat Basics

Vehicle Safety Tips, FAQs and Contact Information

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## **SAFER CARS, SAFER CHILDREN**

*Buying a Safer Car for Child Passengers 2009* is a National Highway Traffic Safety Administration guidebook designed to help parents understand vehicle child safety features, make an informed buying decision when purchasing a family car, properly use child safety and booster seats, and help keep children as safe as possible whenever they are in or around vehicles.

When referenced as a vehicle buying guide for your family, this brochure should be used in tandem with the NHTSA *Buying A Safer Car 2009* brochure, which contains a full range of safety feature information, crash tests, and rollover resistance results on cars, light trucks, SUVs, and vans. To view the most updated government crash test results, access the *Buying A Safer Car 2009* brochure or order a free copy by visiting [www.safercar.gov](http://www.safercar.gov) today.

## SAFETY FEATURES FOR CHILD PASSENGERS

Safety is one of the most important considerations when buying a family vehicle. As you shop for your new car, you'll want to become familiar with available child safety features. The safety features listed here are designed to help reduce the risk of children incurring crash-related injuries and other vehicle-related injuries, such as those posed by certain types of power windows.

Keep in mind that some safety features listed here are required on all 2009 model vehicles, while others are available only on select vehicles as either standard or optional equipment. The "Child Safety Features by Model – 2009" charts, which begin on page 8 of this booklet, will help you locate vehicles that include specific child safety features.

However, it's important to remember that no safety technology can replace the need to monitor children when they are in and around motor vehicles — or the need to see that your child passengers are safely buckled up at all times. Statistics show that children are much less likely to be seriously injured in a crash if they are properly restrained.

In fact, the most important safety precaution a parent or caregiver can take is to secure child passengers 12 and younger in weight-appropriate child restraints or seat belts — in the vehicle's rear seat. Inside the pages of this booklet, you'll find information about those features that can help ensure your little passengers are properly secured every trip, every time.

### Lower Anchors and Tethers for Children (LATCH)

LATCH is a system that makes child safety seat installation easier — without using seat belts.

Check Vehicle Instructions for Alternative Tether Anchor Locations



How does LATCH work? Anchors on a LATCH-equipped vehicle are used to install a child safety seat equipped with LATCH fasteners. Most LATCH-equipped vehicles have anchors in the right and left rear seat positions.

If the center seat doesn't have anchors, you can still install your child safety seat using a seat belt. If your vehicle isn't LATCH-equipped, use the seat belt and, if available, a top tether. LATCH is required on child safety seats and vehicles manufactured after September 1, 2002.

Since the LATCH system has been required on new vehicles since 2002, you will not find a listing for LATCH-equipped vehicles in the "Child Safety Features by Model – 2009" charts included in this booklet. However, you will find information on LATCH locations for those vehicles listed.

### Rear Center-Seat Lap and Shoulder Belts

In 2004, NHTSA published a final rule requiring that all rear designated seating positions, other than side-facing seats, be equipped with lap/shoulder seat belts by September 1, 2007. This made rear

center-seat lap and shoulder belts available, which provide better protection than a lap belt alone and benefit older children and children in booster seats who often ride in the rear center-seat position.

### Adjustable Upper Belts (Rear)

Because seat belts must fit people of various sizes, including older children, some manufacturers offer an adjustable upper belt anchorage that lets you change the position of the shoulder strap to accommodate a person's size. This feature allows adjustment and may improve the shoulder belt fit for the passenger. Check the manufacturer's instructions to correctly adjust the seat belts in your vehicle.

### Built-In Child Safety Seats

Some manufacturers offer built-in child safety seats that are designed to restrain children at least 1 year old and over 20 pounds. Specific weight and height requirements may vary; check with the vehicle manufacturer for details. Since the introduction of the Lower Anchors and Tethers for Children system, which was designed to make child safety seats easier to install, only a very small percentage of manufacturers offer this feature. As a result, you will not find this safety feature listed in the "Child Safety Features by Model – 2009" charts included in this booklet. Check with your dealer or manufacturer for more information about vehicle models that include built-in child safety seats.

### Manual Air Bag On-Off Switch

Vehicles with no rear seat, or a rear seat that is not appropriate for a child safety seat, may have a switch that lets the driver control the front-seat passenger air bag. The switch has a warning light that must be clearly visible to all front-seat passengers to let them know when the air bag has been turned off.

Infants and children riding in the front passenger seat can be seriously injured — or even killed — if

the air bag inflates. However, we recognize that there may be occasions when a parent or caregiver has no other option than to place a child in the front passenger seat, such as:

1. In a pickup truck or sports car with insufficient, inadequate, or no rear seats, or
2. If a parent is transporting too many children for all to ride in the rear, or
3. If a child with a medical condition requires monitoring and the driver is the only available adult in the vehicle.

In such cases where transporting a child 12 or younger is unavoidable the air bag on-off switch should be set to the OFF position.

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***Refer to your owner's manual for information on the correct use of the air bag on-off switch.***

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In addition to vehicle with no rear, or a rear seat that is not appropriate for a child safety seat, NHTSA will authorize the installation of an air bag on-off switch under the following four circumstances:

1. People who must transport infants riding in rear-facing infant seats in the front passenger seat.
2. People who must transport children 12 and younger in the front passenger seat.
3. Drivers who cannot change their customary driving positions to keep 10 inches between the center of the steering wheel and the center of the breastbone.
4. People whose medical conditions pose a special risk that outweighs the safety benefits of air bags in a crash.

To view the NHTSA “Air Bags & On-Off Switches: Information for an Informed Decision” brochure go to: <http://www.safercar.gov/airbags/Brochure/index.html>

To download the “Request for Air Bag On-Off Switch” form go to: [http://www.safercar.gov/staticfiles/DOT/safercar/pdf/ON-OFF\\_Switch\\_Request.pdf](http://www.safercar.gov/staticfiles/DOT/safercar/pdf/ON-OFF_Switch_Request.pdf)

Otherwise, to receive a copy of the brochure or form by mail call the **DOT Vehicle Safety Hotline** at 888-327-4236 (TDD 800-424-9153).

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***On-off switches are not available for all vehicles. Ensure a switch is available for your vehicle before you request authorization to have it installed.***

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### **Push-Down, Pull-Up Window Switches**

With a conventional rocker or toggle-type window switch, a child can accidentally lean or kneel on the switch and cause a window to close — trapping hands, arms, or other body parts in the power window, which can cause serious injury or even death. Push-down, pull-up switches help eliminate this safety risk. These switches work just like their names indicate: You “push” the switch to lower the window and “pull” it to raise the window, making it virtually impossible to close a window by accident. A Federal rule requires that these safer power window switches be installed in all cars, vans, pickup trucks, and sport utility vehicles made for sale in the United States on or after October 1, 2008.

Note: Even without the safer switches, power windows in all vehicles are disabled by taking the ignition key out of the car. Never leave the key in the ignition of your vehicle with a child present unless an adult is also present to supervise.

### **Anti-Pinch/Auto-Reversal Windows**

Automatic reversal windows (also called “pinch protection,” “anti-entrapment,” or “bounceback” windows) are designed to stop closing and to reverse direction if they sense that something is in the way. There are several different types of systems available. Check with your dealer about the specific operation of anti-pinch/auto-reversal windows.

### **Automatic Door Lock**

It is important that the rear doors be locked when children are in the rear seat so that they do not inadvertently open them while in transit. Automatic door locks are designed to activate when a car is put into gear or reaches a certain speed. Currently 70 to 85 percent of vehicle models have automatic door locks. Some automatic door locks also allow the driver in the front seat to engage or disengage these child safety locks. When child safety locks are engaged, the rear doors cannot be opened from the inside.

### **Brake Transmission Shift Interlock**

A brake transmission shift interlock (BTSI) device helps prevent children from accidentally shifting a car into gear, which would put them — and any children near or around the vehicle — at risk for being run over. As long as the key is in the ignition, it’s relatively easy for a child to shift a vehicle with an automatic transmission into gear. The motor doesn’t even have to be turned on. A child might simply turn the key to accessory mode to listen to the radio, and end up accidentally putting the car in motion. A BTSI device helps prevent this by requiring the driver’s foot be on the brake before a vehicle can be shifted out of Park. By September 1, 2010, every car and truck sold in the United States must be equipped with a BTSI mechanism.

## ADDITIONAL SAFETY FEATURES TO CONSIDER

The following safety features aren't typically considered specific to children, but they do have an impact on children and teenagers. In researching the purchase of a new or used vehicle, it's important to consider how these technologies may affect everyone in your family.

### Active Head Restraints

The newest type of head restraint is an active head restraint, which comes in a number of designs for the front seats of vehicles. Preliminary research has shown that active head restraints may help reduce whiplash. While this safety feature has no impact on children 12 and younger, who should always ride in the rear seat, active head restraints may provide additional protection to teenagers in the front seat during a rear-end crash. In such a crash, active head restraints automatically close the gap between the occupant's head and the head restraint by moving forward and up, relative to the occupant's head — and in some instances increase their height relative to the occupant's head. (Note that active head restraints may also be height-adjusted manually.)

### Frontal Air Bags

Frontal air bags deploy forcefully and rapidly, posing a danger for children under 13. Therefore, NHTSA recommends that all children under 13 should always ride in the rear seat — where it's safest for them. Vehicles with no rear seat, or a rear seat that is not appropriate for a child safety seat, may have a switch that lets the driver control the front seat passenger air bag. Refer to the "Manual Air Bag On-Off Switch" section of this booklet on page 4 to learn more about these switches and how and when to use them to protect your child passengers.

### Advanced Frontal Air Bags

All passenger vehicles produced after September 1, 2006, are required to have advanced frontal air bags, which are designed to provide the life-saving benefits associated with air bags while reducing the risk of air bag-related injuries and death to small-stature occupants. Advanced frontal air bags automatically determine if, and with what level of power, the driver frontal air bag and passenger frontal air bag will inflate. The appropriate level of power is based upon sensor inputs that typically detect: (1) the size or weight of an occupant, (2) if the occupant is wearing a seat belt, (3) how far back the occupant's seat is set, and (4) the severity of the crash.

Even in vehicles equipped with advanced frontal air bags, children under 13 should never ride in the front seat. However, parents who have teenagers 13 and older who ride in the front seat of the family vehicle should be aware of the safety advantages of advanced frontal air bags, particularly as teenagers tend to be of smaller stature than the average adult.

### Side Impact Air Bags

Side air bag (SAB) technology has advanced rapidly over recent years and various types of SABs have emerged. SABs offer additional protection to two principal areas of the body — the head and the chest — during side impact crashes. Head-protecting curtain or tubular SABs deploy overhead and downward from the roof rail. Door-mounted or seat-mounted SABs, also called torso bags, are designed to offer protection to the chest. A combination SAB, or "combo bag," deploys from the seat back and offers protection to both the chest and head.

A Technical Working Group of experts representing the automotive and insurance industries devel-

oped voluntary SAB testing procedures to minimize the potential risk of SAB-related injuries for out-of-position occupants, which often include children who are seated very close (called “out of position”) to a deploying SAB.

If a vehicle has a “meets specification” in the section labeled “SAB Out-of-Position Testing,” on the [www.safercar.gov](http://www.safercar.gov) Web site, it means the manufacturer has reported to the government that all SABs in the vehicle have successfully completed the full battery of out-of-position tests specified under the voluntary guidelines.

You should read the owner’s manual or contact your manufacturer for specific information about how the side air bag system in your vehicle works in the event of a crash. Visit [www.safercar.gov/airbags](http://www.safercar.gov/airbags) for more detail on SABs and children. NHTSA also provides more detailed information in a searchable SAB database at [www.safercar.gov](http://www.safercar.gov).

Some facts that parents will want to remember about child occupant protection in general — and side air bags in particular — are listed here:

- ALL children should use safety restraints appropriate for their age and size (this could be a safety seat, booster seat, or adult seat belt).
- Children under 13 are safest sitting in the rear seat and properly restrained.
- To minimize injury risks, NHTSA recommends that children not lean or rest against chest-only or head/chest combination SABs.
- NHTSA has not seen any indication of risks to children from current roof-mounted head SABs.

## Interior Trunk Release

Almost all passenger cars with trunks manufactured after September 1, 2001, are required to be equipped with interior trunk releases. This safety feature is intended to help all individuals — and especially children — who may become locked in the trunk of a vehicle to escape. Check with your automobile dealer for specific information on the type of trunk release system offered and which vehicle manufacturers offer retrofit kits for installing an interior trunk release in an older car. Ensure that your children know where the interior trunk release is located and how to use it.

## CHILD SAFETY FEATURES BY MODEL – 2009

The following charts, ordered by vehicle type, are designed to help you select a family vehicle with key child safety features. Included in these charts is information about the following child safety features:

- Adjustable Upper Belt - Rear
- Air Bag On-Off Switch
- Anti-Pinch/Auto Reversal Windows
- Automatic Door Lock
- Brake Transmission Shift Interlock
- LATCH Positions
- Side Air Bags – 2nd Row
- Side Air Bag Out-of-Position Tests



Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
<b>Mini Passenger Car</b>												
Smart Fortwo w/SAB	2dr	SBs1	SB1		M			SnSe	S	S		
Smart Fortwo Cabriolet w/SAB	Conv	SBs1	SB1		M			SnSe	S	S		
<b>Light Passenger Car</b>												
Audi A5 w/SAB	2dr	STs1	SC2		M		4,6	SnSe	S	S		S
Audi R8 w/SAB	2dr	SBs1	SB1		M			SnSe		S		
Audi S5 w/SAB	2dr	STs1	SC2		M		4,6	SnSe	S	S		S
Chevrolet Aveo w/SAB	5dr	SBs1	SB1		M		4,6	Oe	S			S
Honda Fit w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S			S
Mazda MX-5/Miata w/SAB	Conv	SBs1	SB1		M	S		Se	S			
Mercedes-Benz SLK-Class - w/SAB	Conv	SBs1	SB1		M			SnSe	S	S		
MINI Clubman S w/SAB	2dr	STs1	SC2	Yes			4,6	SnSe	S	S		S
MINI Clubman w/SAB	2dr	STs1	SC2	Yes			4,6	SnSe	S	S		S
MINI Cooper w/SAB	Conv	SBs1	SB1		M			SnSe	S	S		S
MINI Cooper S w/SAB	Conv	SBs1	SB1		M			SnSe	S	S		S
MINI Cooper S w/SAB	2dr	STs1	SC2	Yes	M		4,6	SnSe	S	S		S
MINI Cooper w/SAB	2dr	STs1	SC2	Yes	M		4,6	SnSe	S	S		S
MINI John Cooper Works w/SAB	Conv	SBs1	SB1		M			SnSe	S	S		S
MINI John Cooper Works w/SAB	2dr	STs1	SC2	Yes	M		4,6	SnSe	S	S		S
Pontiac G3 w/SAB	5dr	SBs1	SB1		M		4,6	Oe	S			S
Toyota Yaris w/SAB	4dr	STs1	SC2		M	D	4,6	Se	S			S
Toyota Yaris Liftback w/SAB	2dr	STs1	SC2		M	D	4,6	Se	S			S
Toyota Yaris Liftback w/SAB	4dr	STs1	SC2		M	D	4,6	Se	S			S
Volvo C30 w/SAB	2dr	STs1	SC2		M		4,6	SnSe	S	S		S
<b>Compact Passenger Car</b>												
BMW 128i/135i w/SAB	Conv	SBs1	SB1					SnSe	S	S		S
BMW 128i/135i w/SAB	2dr	STs1	SC2	Yes			4,6	SnSe	S	S		S
Chevrolet Aveo w/SAB	4dr	SBs1	SB1		M		4,6	Oe	S			S
Chevrolet Cobalt w/SAB	2dr		SC2		M		4,5,6	Se	S	O	S	S
Chevrolet Cobalt w/SAB	4dr		SC2		M		4,5,6	Se	S	O	S	S
Ford Focus w/SAB	3dr	STs1	SC2		M		4,6	Se	S	O		S

Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
Ford Focus w/SAB	4dr	ST&1	SC2		M		4,6	Se	S	O		S
Honda Civic w/SAB	2dr	ST&1	SC2		M		4,6	OnSe	S	S		S
Honda Civic w/SAB	4dr	ST&1	SC2		M		4,6	OnSe	S	S		S
Honda Civic GX (CNG) w/SAB	4dr	ST&1	SC2		M		4,6	SnSe	S	S		S
Honda Civic Hybrid w/SAB	4dr	ST&1	SC2		M		4,6	SnSe	S	S		S
Honda S2000	Conv							Se				
Hyundai Accent w/SAB	4dr	ST&1	SC2		M		4,6	Oe	S			S
Hyundai Accent w/SAB	3dr	ST&1	SC2		M		4,6	Oe	S			S
Hyundai Elantra w/SAB	4dr	ST&1	SC2		M		4,6	SeOn	S	D		S
Hyundai Elantra Wagon w/SAB	4dr	ST&1	SC2		M		4,6	SeOn	S	D		S
Kia Rio w/SAB	4dr	ST&1	SC2		M		4,6	Oe	S			S
Kia Rio w/SAB	5dr	ST&1	SC2		M		4,6	Oe	S			S
Kia Spectra w/SAB	4dr	ST&1	SC2		M		4,6	Oe	S			S
Kia Spectra w/SAB	5dr	ST&1	SC2		M		4,6	Oe	S			S
Mazda3 w/SAB	4dr	ST&1	SC2		M		4,6	Se	S			S
Mazda3 w/SAB	5dr	ST&1	SC2		M		4,6	Se	S			S
Mitsubishi Eclipse w/SAB	3dr	ST&1	SC1		M		4,6	Se	S			
Mitsubishi Eclipse Spyder w/SAB	Conv	SB&1	SB1		M			Se	S			
Mitsubishi Lancer w/SAB	4dr	ST&1	SC2		M		4,6	Se	S			S
Mitsubishi Lancer Evolution w/SAB	4dr	ST&1	SC2		M		4,6	Se	S			S
Mitsubishi Lancer Sportback w/SAB	5dr	ST&1	SC2		M		4,6	Se	S			S
Nissan Sentra w/SAB	4dr	ST&1	SC2		M		4,6	SnSe	S	S		S
Nissan Versa w/SAB	4dr	ST&1	SC2		M		4,6	SeOn	S	O		S
Nissan Versa w/SAB	5dr	ST&1	SC2		M		4,6	SeOn	S	O		S
Pontiac G5 w/SAB	2dr		SC2		M		4,5,6	Se	S	O	S	S
Pontiac Solstice	2dr							Se	S	O		
Pontiac Solstice	Conv							Se	S	O		
Pontiac Vibe w/SAB	4dr	ST&1	SC2		M		4,6	Se	S	S		S
Saturn Astra w/SAB	2dr	ST&1	SC2		M		4,6	Se	S	S	S	
Saturn Astra w/SAB	4dr	ST&1	SC2		M		4,6	Se	S	S	S	
Saturn Sky	Conv							Se	S	O		
Toyota Corolla w/SAB	4dr	ST&1	SC2		M	D	4,6	Se	S	O		S

Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
Toyota Matrix w/SAB	4dr	STs1	SC2		M	D	4,6	Se	S	O		S
Toyota Prius w/SAB	4dr	STs1	SC2		M	D	4,6	SnSe	S			S
Toyota Scion tC w/SAB	2dr	STs1	SC2		M	D	4,6	SnSe	S			S
Toyota Scion xD w/SAB	4dr	STs1	SC2		M	D	4,6	Se	S			S
Volkswagen New Beetle w/SAB	2dr	SBs1	SB1		M		4,6	SnSe		S		S
Volkswagen New Beetle w/SAB	Conv	SBs1	SB1		M			SnSe		S		S
<b>Medium Passenger Car</b>												
Acura TSX w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
Audi A3 w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S
Audi A4 Cabriolet w/SAB	Conv	SBs1	SB1		M			SnSe		S		S
Audi A6 w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S
Audi A6 Avant Wagon w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S
Audi S4 Cabriolet w/SAB	Conv	SBs1	SB1		M			SnSe		S		S
Audi S6 w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S
Audi TT w/SAB	2dr	SBs1	SB1		M		4,6	SnSe	S	S		
Audi TT w/SAB	Conv	SBs1	SB1		M			SnSe	S	S		
Audi TTS w/SAB	2dr	SBs1	SB1		M		4,6	SnSe	S	S		
Audi TTS w/SAB	Conv	SBs1	SB1		M			SnSe	S	S		
BMW 3 Series w/SAB	2dr	STs1	SC2	Yes	M		4,6	SnSe	S	S		S
BMW 3 Series w/SAB	4dr	STs1	SC2	Yes	M		4,6	SnSe	S	S		S
BMW 3 Series w/SAB	Conv	SBs1	SB1		M			SnSe	S	S		S
BMW 3 Series Wagon w/SAB	4dr	STs1	SC2	Yes	M		4,6	SnSe	S	S		S
Cadillac XLR w/SAB	Conv	SBs1	SB1		M			SnSe	S	S		
Chevrolet Corvette	2dr	OBs1	OB1		M			SnSe	S	S		
Chevrolet Corvette w/SAB	Conv	OBs1	OB1		M			SnSe	S	S		
Chevrolet Corvette Z06	2dr	OBs1	OB1		M			SnSe	S	S		
Chevrolet Corvette ZR1	2dr	OBs1	OB1		M			SnSe	S	S		
Chevrolet Malibu Hybrid w/SAB	4dr	STs1	SC2		M		4,5,6	SnSe	S	S	S	
Chevrolet Malibu w/SAB	4dr	STs1	SC2		M		4,5,6	SnSe	S	S	S	
Chrysler Sebring w/SAB	4dr	STs1	SC2		M		4,6 or 5	SnSe	S	S		
Dodge Avenger w/SAB	4dr	STs1	SC2		M		4,6 or 5	SnSe	S	S		
Dodge Caliber w/SAB	4dr	OTs1	SC2		M		4,6 or 5	Se	S	O		S

Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
Dodge Viper	2dr								S			
Dodge Viper Roadster	Conv								S			
Ford Fusion w/SAB	4dr	ST&1	SC2		M		4,6	Se	S	S		
Ford Mustang w/SAB	2dr	SB&1	SB1		M		4,6	SnSe	S	S		
Honda Accord w/SAB	2dr	ST&1	SC2		M		4,6	SnSe	S	S	S	
Honda Accord w/SAB	4dr	ST&1	SC2		M		4,6	SnSe	S	S	S	
Honda FCX w/SAB	4dr	ST&1	SC2		M		4,6	SnSe	S	S	S	
Hyundai Sonata w/SAB	4dr	ST&1	SC2		M		4,6	SnSe	S	S	S	
Jaguar XF w/SAB	4dr	ST&1	SC2		M		4,6	SnSe	S	S	S	
Jaguar XK w/SAB	2dr	SB&1	SB1		M		4,6	SnSe	S	S		
Jaguar XK w/SAB	Conv	SB&1	SB1		M		4,6	SnSe	S	S		
Kia Optima w/SAB	4dr	ST&1	SC2		M		4,6	SeOn	S	S	S	
Kia Rondo w/SAB	4dr	ST&1	SC2/3		M		4,6	Se	S		S	
Lexus GS350/460 w/SAB	4dr	ST&1/OT&2	SC2		M	D	4,6	SnSe	S	S	S	
Lexus GS450h w/SAB	4dr	ST&1/OT&2	SC2		M	D	4,6	SnSe	S	S	S	
Lexus IS F w/SAB	4dr	ST&1	SC2		M	D	4,6	SnSe	S	S	S	
Lexus IS250/350 w/SAB	4dr	ST&1	SC2		M	D	4,6	SnSe	S	S	S	
Lexus LS460/460L w/SAB	4dr	ST&1/OT&2	SC2		M	D	4,6	SnSe	S	S	S	
Lexus LS600hL w/SAB	4dr	ST&1/OT&2	SC2		M	D	4,6	SnSe	S	S	S	
Lexus SC430 w/SAB	Conv	ST&1			M	D	4,6	SnSe	S	S	S	
Lincoln MKZ w/SAB	4dr	ST&1	SC2		M		4,6	SnSe	S	S		
Mazda RX-8 w/SAB	4dr	ST&1	SC2		M		4,6	SnSe	S			
Mazda5 w/SAB	5dr	ST&1	SC3		M		4,6	Se	S		S	
Mazda6 w/SAB	4dr	ST&1	SC2		M		4,6	SnSe	S		S	
Mercedes-Benz C-Class w/SAB	4dr	STd1	SC2		M		4,6	SnSe	S	S	S	
Mercedes-Benz CL-Class w/SAB	2dr	ST&1	SC2	Yes	M		4,6	SnSe	S	S	S	
Mercedes-Benz CLK-Class w/SAB	2dr	STd2	SC2				4,6	SnSe	S	S	S	
Mercedes-Benz CLK-Class w/SAB	Conv	SB&1/OT&2	SB1	Yes			4,6	SnSe	S	S	S	
Mercedes-Benz SLR-Class w/SAB	2dr	SBd1	SB1					SnSe	S	S		
Mercury Milan w/SAB	4dr	ST&1	SC2		M		4,6	Se	S	S		
Mitsubishi Galant w/SAB	4dr	ST&1	SC2		M		4,6	Se	S		S	
Nissan 370Z w/SAB	2dr	ST&1	SC1		M			SnSe	S	S		

Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
Nissan Altima w/SAB	2dr	STs1	SC2		M		4,6	SnSe	S	S		S
Nissan Altima Hybrid w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
Nissan Altima w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
Pontiac G6 w/SAB	2dr	STs1	SC2		M		4,6	Se	S	S	S	
Pontiac G6 w/SAB	4dr	STs1	SC2		M		4,5,6	Se	S	S	S	
Pontiac G6 w/SAB	Conv	STs1			M			Se	S	S	S	
Porsche 911 Carrera w/SAB	2dr	STd1	SB1		M	O		SnSe	S	S		
Porsche 911 Carrera 4 w/SAB	2dr	STd1	SB1		M	O		SnSe	S	S		
Porsche 911 Carrera 4 Cabriolet w/SAB	Conv	STd1	SB1		M	O		SnSe	S	S		
Porsche 911 Carrera Cabriolet w/SAB	Conv	STd1	SB1		M	O		SnSe	S	S		
Porsche 911 Targa w/SAB	2dr	STd1	SB1		M	O		SnSe	S	S		
Porsche 911 Turbo w/SAB	2dr	STd1	SB1		M	O		SnSe	S	S		
Porsche 911 Turbo Cabriolet w/SAB	Conv	STd1	SB1		M	O		SnSe	S	S		
Porsche Boxster w/SAB	Conv	STd1	SB1		M	O		SnSe	S	S		
Porsche Cayman w/SAB	2dr	STd1	SB1		M	O		SnSe	S	S		
Saab 9-3 w/SAB	4dr	STs1	SC2		M		4,6	SeOn	S	S		S
Saab 9-3 w/SAB	Conv	SBs1	SB1		M		4,6	SeOn	S	S		S
Saab 9-3 Wagon w/SAB	4dr	STs1	SC2		M		4,6	SeOn	S	S		S
Subaru Impreza w/SAB	4dr	STs1	SC2		M		4,6	Se	S			S
Subaru Impreza Wagon w/SAB	4dr	STs1	SC2		M		4,6	Se	S			S
Subaru Legacy w/SAB	4dr	STs1	SC2		M		4,6	Se	S			S
Suzuki SX-4 w/SAB	4dr	STs1	SC2		M		4,6	Se	S			S
Suzuki SX-4 Wagon w/SAB	4dr	STs1	SC2		M		4,6	Se	S			S
Toyota Camry w/SAB	4dr	STs1	SC2		M	D	4,6	OnSe	S	O		S
Toyota Camry Hybrid w/SAB	4dr	STs1	SC2		M	D	4,6	Se	S	S		S
Toyota Scion xB Wagon w/SAB	4dr	STs1	SC2		M	D	4,6	Se	S	S		S
Volkswagen CC w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S
Volkswagen Eos w/SAB	Conv	SBs1	SB1		M			SnSe	S	S		S
Volkswagen GLI w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S
Volkswagen GTI w/SAB	2dr	STs1	SC2		M		4,6	SnSe	S	S		S
Volkswagen GTI w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S
Volkswagen Jetta w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S

Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
Volkswagen Jetta Sportwagen w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S
Volkswagen Passat w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S
Volkswagen Passat Wagon w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S
Volkswagen Rabbit w/SAB	2dr	STs1	SC2		M		4,6	SnSe	S	S		S
Volkswagen Rabbit w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S
Volvo C70 w/SAB	Conv	STs1	SC1	Yes	M		4,6	SnSe	S	S		S
Volvo S40 w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
Volvo S60 w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
Volvo V50 Wagon w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
Volvo V70 Wagon w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
Volvo XC70 Wagon w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
<b>Heavy Passenger Car</b>												
Acura RL w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
Acura TL w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
Audi A4 w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S
Audi A4 Avant Wagon w/SAB	4dr	STs1/OTs2	SC2		M		4,6	SnSe	S	S		S
Audi A8 w/SAB	4dr	STs2	SC2		M		4,6	SnSe	S	S		S
Bentley Arnage RL w/SAB	4dr	STs2			M		4,6	SnSe	S	S		S
Bentley Arnage T/R w/SAB	4dr	STs2	SC2		M		4,6	SnSe	S	S		S
Bentley Continental Flying Spur w/SAB	4dr	STs2	SC2		M		4,6	SnSe	S	S		S
Bentley Continental GT w/SAB	2dr	STs1	SC2		M		4,6	SnSe	S	S		S
Bentley Continental GTC w/SAB	Conv	STs1			M			SnSe	S	S		S
BMW 5 Series w/SAB	4dr	STd1/OTd2	SS2	Yes	M		4,6	SnSe	S	S		S
BMW 5 Series Wagon w/SAB	4dr	STd1/OTd2	SS2	Yes	M		4,6	SnSe	S	S		S
BMW 6 Series w/SAB	2dr	STd1	SS1	Yes	M		4,6	SnSe	S	S		S
BMW 6 Series w/SAB	Conv	STd1			M			SnSe	S	S		S
BMW 7 Series w/SAB	4dr	STd1	SC2	Yes	M		4,6	SnSe	S	S		S
Buick LaCrosse w/SAB	4dr		SC2		M		4,5,6	Se	S	S	S	
Buick Lucerne w/SAB	4dr	STs1	SC2		M		4,5,6	SnSe	S	S	S	
Cadillac CTS w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S	S	S
Cadillac DTS w/SAB	4dr	STs1	SC2		M		4,5,6	SnSe	S	S	S	S
Cadillac STS w/SAB	4dr	STs1	SC2		M		4,5,6	SnSe	S	S	S	S

Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
Chevrolet Impala w/SAB	4dr		SC2		M		4,5,6	Se	S	S	S	
Chrysler 300	4dr	OTs1	OC2		M		4,5,6	SnSe	S	S		S
Chrysler Sebring w/SAB	Conv	SBs1	SB1				4,6	Se	S	S		
Dodge Challenger w/SAB	2dr		SC2		M		4,5,6	Se	S	S		S
Dodge Charger	4dr	OTs1	OC2		M		4,5,6	SnSe	S	S		S
Ford Crown Victoria w/SAB	4dr	SBs1	SB1		M		4,6	Se	S	S		
Ford Mustang w/SAB	Conv	SBs1	SB1				4,6	SnSe	S	S		
Ford Taurus w/SAB	4dr	STs1	SC2	Yes	M		4,5,6	Se	S	S		S
Hyundai Azera w/SAB	4dr	STs2	SC2		M		4,6	SnSe	S	D		S
Hyundai Genesis w/SAB	4dr	STs2	SC2		M		4,6	SnSe	S	D		S
Infiniti EX35 w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
Infiniti G37 w/SAB	2dr	STs1	SC2		M		4,6	SnSe	S	S		S
Infiniti G37 w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
Infiniti G37 w/SAB	Conv	STs1	SBD1				4,6	SnSe	S	S		S
Infiniti M35/45 w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
Jaguar XJ w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
Kia Amanti w/SAB	4dr	STs2	SC2		M		4,6	SnSe	S			S
Lexus ES350 w/SAB	4dr	STs1/OTs2	SC2		M	D	4,6	SnSe	S	S		S
Lincoln MKS w/SAB	4dr	STs1	SC2	Yes	M		4,5,6	Se	S	S		S
Lincoln Town Car w/SAB	4dr	SBs1	SB1		M		4,6	Se	S	S		
Mercedes-Benz CLS w/SAB	4dr	STs2	SC2	Yes			4,6	SnSe	S	S		S
Mercedes-Benz E-Class w/SAB	4dr	STs2	SC2	Yes			4,6	SnSe	S	S		S
Mercedes-Benz E-Class Wagon w/SAB	4dr	STs2	SC2	Yes			4,6	SnSe	S	S		S
Mercedes-Benz Maybach 57 w/SAB	4dr	STs2	SC2	Yes			4,6	SnSe	S	S		S
Mercedes-Benz Maybach 62 w/SAB	4dr	STs2	SC2	Yes			4,6	SnSe	S	S		S
Mercedes-Benz S-Class w/SAB	4dr	STd2	SC2	Yes	M		4,6	SnSe	S	S		S
Mercedes-Benz SL-Class w/SAB	Conv	SBD1	SB1					SnSe	S	S		
Mercury Grand Marquis w/SAB	4dr	SBs1	SB1		M		4,6	Se	S	S		
Mercury Sable w/SAB	4dr	STs1	SC2	Yes	M		4,5,6	Se	S	S		S
Nissan 350Z w/SAB	Conv	STs1			M			SnSe	S	S		
Nissan GT-R	2dr	OTs1	OC1		M		4,6	SnSe	S	S		
Nissan Maxima w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S

Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
Pontiac G8 w/SAB	4dr	STs1	SC2		M		4,5,6	Se	S	S	S	S
Saab 9-5 w/SAB	4dr	SBs1	SB1				4,6	SeOn	S	S	S	S
Saab 9-5 Wagon w/SAB	4dr	SBs1	SB1				4,6	SeOn	S	S		S
Saturn Aura w/SAB	4dr	STs1	SC2		M		4,5,6	SnSe	S	S	S	
Saturn Aura Hybrid w/SAB	4dr	STs1	SC2		M		4,5,6	SnSe	S	S	S	
Toyota Avalon w/SAB	4dr	STs1	SC2		M	D	4,6	SnSe	S	S		S
Volvo S80 w/SAB	4dr	STs1	SC2		M		4,6	SnSe	S	S		S
<b>Sport Utility Vehicle</b>												
Acura MDX w/SAB	4dr	STs1	SC3	Yes	M		4,5,6	SnSe	S	S		S
Acura RDX w/SAB	4dr	STs1	SC2	Yes	M		4,5,6	SnSe	S	S		S
Audi Q5 w/SAB	4dr	STs1/OTs2	SC2	Yes	M		4,6	SnSe	S	S		S
Audi Q7 w/SAB	4dr	STs1/OTs2	SC3	Yes	M		4,6,7,9	SnSe	S	S	S	S
BMW X3 w/SAB	4dr	STd1/OTd2	SC2	Yes	M		4,6	SnSe		D		S
BMW X5 w/SAB	4dr	STs1	SC2	Yes	M		4,6	SnSe	S	S		S
Buick Enclave w/SAB	4dr	STs1	SC3	Yes	M		4,6	SnSe	S	S	S	S
Cadillac Escalade Hybrid w/SAB	4dr		SC3	Yes	M		4,6 or 5,6	SnSe	S	S	S	S
Cadillac Escalade w/SAB	4dr		SC3	Yes	M		4,6 or 5,6	SnSe	S	S	S	S
Cadillac Escalade ESV w/SAB	4dr		SC3	Yes	M		4,6 or 5,6	SnSe	S	S	S	S
Cadillac Escalade EXT w/SAB	4dr		SC2	Yes	M		5,6	SnSe	S	S	S	S
Cadillac SRX w/SAB	4dr	STs1	SC2		M		4,6	Sn	S	S	S	S
Chevrolet Avalanche w/SAB	4dr		SC2	Yes	M		5,6	Se	S	S	S	S
Chevrolet Equinox w/SAB	4dr		SC2	Yes	M		4,5,6		S	S	S	S
Chevrolet HHR w/SAB	4dr		SC2	Yes	M		4,6	Se	S	S	S	S
Chevrolet Suburban 1500 w/SAB	4dr		SC3	Yes	M		4,6 or 5,6	Se	S	S	S	S
Chevrolet Suburban 2500 w/SAB	4dr		SC3	Yes	M		4,6 or 5,6	Se	S	S	S	S
Chevrolet Tahoe w/SAB	4dr		SC3	Yes	M		4,6 or 5,6	Se	S	S	S	S
Chevrolet Tahoe Hybrid w/SAB	4dr		SC3	Yes	M		4,6 or 5,6	Se	S	S	S	S
Chevrolet Trailblazer w/SAB	4dr		SC2	Yes	M		4,6	Se	S	S	S	S
Chevrolet Traverse w/SAB	4dr	STs1	SC3	Yes	M		4,6	SnSe	S	S	S	S
Chrysler Aspen w/SAB	4dr		SC3		M		4,6 or 5 40/20/40 seat, 4,6 with console	SnSe	S	S	S	S



Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
Dodge Durango w/SAB	4dr		SC3		M		4,6 or 5 40/20/40 seat, 4,6 with console	SnSe	S	S	S	S
Dodge Journey w/SAB	4dr	ST&1	SC3		M		4,6 or 5,6	SnSe	S	S		S
Dodge Nitro w/SAB	4dr		SC2		M		4,6 or 5	SnSe	S	S		S
Ford Edge w/SAB	4dr	ST&1	SC2	Yes	M		4,6	SnSe	S	S		S
Ford Escape w/SAB	4dr	ST&1	SC2	Yes	M		4,6	SnSe	S	S		S
Ford Escape Hybrid w/SAB	4dr	ST&1	SC2	Yes	M		4,6	SnSe	S	S		S
Ford Expedition w/SAB	4dr	ST&1	SC3	Yes	M		7pass: 4,6; 8pass: 4,5,7	Se	S	S		S
Ford Expedition Extended w/SAB	4dr	ST&1	SC3	Yes	M		7pass: 4,6; 8pass: 4,5,6	Se	S	S		S
Ford Explorer w/SAB	4dr	ST&1	SC2	Yes	M		5 & 7pass: 4,6; 6pass: 4,6	SeOn	S	S		S
Ford Explorer Sport Trac w/SAB	4dr	ST&1	SC2	Yes	M		4,6	SeOn	S	S		S
Ford Flex w/SAB	4dr	ST&1	SC3	Yes	M		4,6,9	Se	S	S		S
Ford Taurus X w/SAB	4dr	ST&1	SC3	Yes	M		4,6,9	Se	S	S		S
GMC Acadia w/SAB	4dr	ST&1	SC3	Yes	M		4,6	SnSe	S	S	S	S
GMC Envoy w/SAB	4dr		SC2	Yes	M		4,6	Se	S	S	S	S
GMC Yukon w/SAB	4dr		SC3	Yes	M		4,6	Se	S	S	S	S
GMC Yukon Hybrid w/SAB	4dr		SC3	Yes	M		4,6 or 5,6	Se	S	S	S	S
GMC Yukon XL w/SAB	4dr		SC3	Yes	M		4,6 or 5,6	Se	S	S	S	S
Honda CR-V w/SAB	4dr	ST&1	SC2	Yes	M		4,5,6	SnSe	S	S		S
Honda Element w/SAB	4dr	ST&1	SC2	Yes	M		4,6	SnSe	S			S
Honda Pilot w/SAB	4dr	ST&1	SC3	Yes	M		4,5,6,9	SnSe	S	S	S	S
Hummer H2 w/SAB	4dr		SC3	Yes	M	S	5,6	Se	S	S	S	S
Hummer H3 w/SAB	4dr		SC2	Yes	M		4,6	Se	S	S	S	S
Hyundai Santa Fe w/SAB	4dr	ST&1	SC3		M		4,6	Se	S	D		S
Hyundai Tucson w/SAB	4dr	ST&1	SC2		M		4,6	Se	S			S
Hyundai Veracruz w/SAB	4dr	ST&1	SC3		M		4,6	SnSe	S	D		S
Infiniti FX35/50 w/SAB	4dr	ST&1	SC2	Yes	M		4,6	SnSe	S	S	S	S
Infiniti QX56 w/SAB	4dr	ST&1	SC3	Yes	M		4,6	SnSe	S	S	S	S
Jeep Commander w/SAB	4dr		SC3		M		4,5,6	SnSe	S	S		S
Jeep Compass w/SAB	4dr	OT&1	SC2		M		4,6 or 5	Se	S	O		S
Jeep Grand Cherokee w/SAB	4dr		SC2		M		4,6 or 5	SnSe	S	S		S
Jeep Liberty w/SAB	4dr		SC2		M		4,6 or 5	SnSe	S	S		S

Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
Jeep Patriot w/SAB	4dr	OTs1	SC2		M		4,6 or 5	Se	S	O		S
Jeep Wrangler	2dr	OBs1	OB1		M		4,6		S	O		S
Jeep Wrangler Unlimited	4dr	OBs1	OB1		M		4,6 or 5		S	O		S
Kia Borrego w/SAB	4dr	STs1	SC3	Yes	M		4,6	SeOn	S	S		S
Kia Sorento w/SAB	4dr		SC2		M		4,6	Se	S			S
Kia Sportage w/SAB	4dr	STs1	SC2		M		4,6	Se	S			S
Land Rover LR2 w/SAB	4dr	STs1	SC2	Yes	M		4,6	SnSe	S	S		S
Land Rover LR3 w/SAB	4dr	STs1	SC3	Yes	M		4,6	SnSe	S	S		S
Land Rover Range Rover w/SAB	4dr	STs1	SU2		M		4,6	SnSe	S	S	S	S
Land Rover Range Rover Sport w/SAB	4dr	STs1	SC2	Yes	M		4,6	SnSe	S	S		S
Lexus GX470 w/SAB	4dr	STs1	SC2	Yes	M	D	4,6	SnSe	S	S	S	S
Lexus LX570 w/SAB	4dr	STs1	SC3	Yes		D	4,6	SnSe	S	S	S	S
Lexus RX350 w/SAB	4dr	STs1	SC2	Yes	M	D	4,6	SnSe	S	S		S
Lincoln MKX w/SAB	4dr	STs1	SC2	Yes	M		4,6	SnSe	S	S		S
Lincoln Navigator w/SAB	4dr	STs1	SC3	Yes	M		7pass: 4,6; 8pass: 4,5,6	Se	S	S		S
Lincoln Navigator Extended w/SAB	4dr	STs1	SC3	Yes	M		7pass: 4,6; 8pass: 4,5,7	Se	S	S		S
Mazda CX-7 w/SAB	4dr	STs1	SC2	Yes	M		4,6	SnSe	S			S
Mazda CX-9 w/SAB	4dr	STs1	SC3	Yes	M		4,6	SnSe	S			S
Mazda Tribute w/SAB	4dr	STs1	SC2	Yes	M			SnSe	S	S		S
Mazda Tribute Hybrid w/SAB	4dr	STs1	SC2	Yes	M			SnSe	S	S		S
Mercedes-Benz G-Class w/SAB	4dr		SC2				4,6	SnSe	S	S		S
Mercedes-Benz ML-Class w/SAB	4dr	STs2	SC2	Yes	M		4,6	SnSe	S	S		S
Mercedes-Benz R-Class w/SAB	4dr	STs2	SC3	Yes	M		4,6,7,9	SnSe	S	S		S
Mercury Mariner w/SAB	4dr	STs1	SC2	Yes	M		4,6	SnSe	S	S		S
Mercury Mariner Hybrid w/SAB	4dr	STs1	SC2	Yes	M		4,6	SnSe	S	S		S
Mercury Mountaineer w/SAB	4dr	STs1	SC2	Yes	M		5 & 7pass: 4,6; 6pass: 4,6	SeOn	S	S		S
Mitsubishi Endeavor w/SAB	5dr	STs1	SC2	Yes	M		4,6	Se	S			S
Mitsubishi Outlander w/SAB	5dr	STs1	SC2	Yes	M		4,6	Se	S			S
Nissan Armada w/SAB	4dr	OTs1	SC3	Yes	M		4,6	SnSe	S	S	S	S
Nissan Murano w/SAB	4dr	STs1	SC2	Yes	M		4,6	SnSe	S	S	S	S
Nissan Pathfinder w/SAB	4dr	STs1	SC3	Yes	M		4,6	SnSe	S	S	S	S
Nissan Rogue w/SAB	4dr	STs1	SC2	Yes	M		4,6	SeOn	S	S	S	S

Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
Nissan Xterra w/SAB	4dr	ST&1	SC2	Yes	M		4,6	Se	S	S	S	S
Pontiac Torrent w/SAB	4dr		SC2	Yes	M		4,5,6		S	S	S	S
Porsche Cayenne w/SAB	4dr	ST&1	SC2	Yes			4,6	SnSe	S	S	S	S
Saab 9-7X w/SAB	4dr		SC2	Yes	M		4,6	Se	S	S	S	S
Saturn Outlook w/SAB	4dr	ST&1	SC3	Yes	M		4,6	SnSe	S	S	S	S
Saturn VUE w/SAB	4dr	ST&1	SC2	Yes	M		4,6	Se	S	S	S	S
Saturn VUE Hybrid w/SAB	4dr	ST&1	SC2	Yes	M		4,6	Se	S	S	S	S
Subaru Forester w/SAB	4dr	ST&1	SC2	Yes	M		4,6	Se	S			S
Subaru Outback Wagon w/SAB	4dr	ST&1	SC2		M		4,6	Se	S			S
Subaru Tribeca w/SAB	4dr	ST&1	SC2	Yes	M		4,6	Se	S			S
Suzuki Grand Vitara w/SAB	4dr	ST&1	SC2	Yes	M		4,6	Se	S			S
Suzuki XL7 w/SAB	4dr		SC3	Yes	M		4,5,6	Se	S	S		S
Toyota 4Runner w/SAB	4dr	ST&1	SC2	Yes	M	D	4,6	SnSe	S	S		S
Toyota FJ Cruiser w/SAB	4dr	ST&1	SC2	Yes	M	D	4,6	Se	S			S
Toyota Highlander w/SAB	4dr	ST&1	SC3	Yes	M	D	4,6	SnSe	S			S
Toyota Highlander Hybrid w/SAB	4dr	ST&1	SC3	Yes	M	D	4,6	SnSe	S			S
Toyota Landcruiser w/SAB	4dr	ST&1	SC3	Yes		D	4,6	SnSe	S	S	S	S
Toyota RAV4 w/SAB	4dr	ST&1	SC2	Yes	M	D	4,6	SnSe	S			S
Toyota Sequoia w/SAB	4dr	ST&1	SC3	Yes	M	D	4,5,6	SnSe	S	S	S	S
Toyota Venza w/SAB	4dr	ST&1	SC2		M	D	4,6	SnSe	S	S		S
Volkswagen Tiguan w/SAB	4dr	ST&1/OTS2	SC2	Yes	M		4,6	SnSe	S	S		S
Volkswagen Touareg 2 w/SAB	4dr	ST&1	SC2	Yes	M		4,6	SnSe	S	S		S
Volvo XC60 w/SAB	4dr	ST&1	SC2	Yes	M		4,6	SnSe	S	S		S
Volvo XC90 w/SAB	4dr	ST&1	SC3	Yes	M		4,6	SnSe	S	S		S
<b>Pickup</b>												
Chevrolet Colorado	4dr		OC2		M		4,6	Se	S	S	S	S
Chevrolet Colorado Extended Cab	2dr		OC2		M		4,6	Se	S	O		
Chevrolet Colorado Regular Cab	2dr		OC1		M			Se	S	O		
Chevrolet Silverado 1500	4dr		OC2	Yes	M		4,6	Se	S	S	S	S
Chevrolet Silverado 1500 Hybrid w/SAB	4dr		SC2	Yes	M		4,6	Se	S	S	S	S
Chevrolet Silverado 1500 Extended Cab	2dr		OC2	Yes	M		4,6	Se	S	O	S	S
Chevrolet Silverado 1500 Regular Cab	2dr		OC1	Yes	M			Se	S	O		

Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
Chevrolet Silverado 2500	4dr						4,6	Se	S	O	S	S
Chevrolet Silverado 2500 Extended Cab	2dr					S	4,6	Se	S	O	S	S
Chevrolet Silverado 2500 Regular Cab	2dr					S		Se	S	O		
Chevrolet Silverado 3500	4dr						4,6	Se	S	S	S	S
Chevrolet Silverado 3500 Extended Cab	2dr					S	4,6	Se	S	O	S	S
Chevrolet Silverado 3500 Regular Cab	2dr					S		Se	S	O		
Dodge Dakota	4dr		OC2		M		4,6	Se	S	S		S
Dodge Dakota Extended Cab	2dr		OC2		M	S	3,4,6	Se	S	S		
Dodge Ram 1500 Quad Cab w/SAB	4dr		SC2		M		4,6	SnSe	S	S		S
Dodge Ram 1500 Crew Cab w/SAB	4dr		SC2		M		4,6 or 4,5,6	SnSe	S	S		S
Dodge Ram 1500 Regular Cab w/SAB	2dr		SC1		M			Se	S	S		S
Dodge Ram 2500 Mega Cab w/SAB	4dr		OC2				4,6	Se	S	S		
Dodge Ram 2500 Extended Cab w/SAB	2dr		OC2		M		4,6	Se	S	S		
Dodge Ram 2500 Regular Cab w/SAB	2dr		OC1		M			Se	S	S		
Ford F-150 w/SAB	4dr	ST&1	SC2	Yes	M		4,6	Se	S	S		S
Ford F-150 Extended Cab w/SAB	2dr	ST&1	SC2	Yes	M		4,6	Se	S	O		S
Ford F-150 Regular Cab w/SAB	2dr	ST&1	SC1	Yes	M			Se	S	O		
Ford F-250	4dr							Se	S	O		S
Ford F-250 Extended Cab	2dr							Se	S	O		S
Ford F-250 Regular Cab	2dr							Se	S	O		
Ford F-350	4dr					S		Se	S	O		S
Ford F-350 Extended Cab	2dr					S		Se	S	O		S
Ford F-350 Regular Cab	2dr					S		Se	S	O		S
Ford Ranger Extended Cab	2dr							Se	S			
Ford Ranger Regular Cab	2dr							Se	S			
GMC Canyon w/SAB	4dr		OC2		M		4,6	Se	S	S	S	S
GMC Canyon Extended Cab w/SAB	2dr		OC2		M		4,6	Se	S	O		
GMC Canyon Regular Cab w/SAB	2dr		OC1		M			Se	S	O		
GMC Sierra 1500 Hybrid	4dr		OC2	Yes	M		4,6	Se	S	S	S	S
GMC Sierra 1500 w/SAB	4dr		OC2	Yes	M		4,6	Se	S	S	S	S
GMC Sierra 1500 Extended Cab	2dr		OC2	Yes	M		4,6	Se	S	O	S	S
GMC Sierra 1500 Regular Cab w/SAB	2dr		OC1	Yes	M			Se	S	O		

Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
GMC Sierra 2500	4dr						4,6	Se	S	S	S	S
GMC Sierra 2500 Extended Cab	2dr					S	4,6	Se	S	O	S	S
GMC Sierra 2500 Regular Cab	2dr					S		Se	S	O		
GMC Sierra 3500	4dr						4,6	Se	S	S	S	S
GMC Sierra 3500 Extended Cab	2dr					S	4,6	Se	S	O	S	S
GMC Sierra 3500 Regular Cab	2dr					S		Se	S	O		
Honda Ridgeline w/SAB	4dr	STs1	SC2	Yes	M		4,5,6	SnSe	S	S		S
Hummer H2 Pickup w/SAB	4dr		SC2	Yes	M	S	5	Se	S	S	S	S
Hummer H3T w/SAB	4dr		SC2	Yes	M		4,6	Se	S	S	S	S
Mazda B-Series	2dr							Se	S			
Mazda B-Series Extended Cab	2dr							Se	S			
Mitsubishi Raider Club	2dr		OC2		M	S	3,4,6	Se	S	S		
Mitsubishi Raider Quad Cab	4dr		OC2		M		4,6	Se	S	S		S
Nissan Frontier	4dr	OTs1	OC2	Yes	M		4,6	Se	S	S		S
Nissan Frontier Extended Cab	2dr	OTs1	OC2	Yes	M			Se	S	S		S
Nissan Titan	4dr	OTs1	OC2	Yes	M		4,6	SnSe	S	S		S
Nissan Titan Extended Cab	2dr	OTs1	OC2	Yes	M		4,6	SeOn	S	S		S
Suzuki Equator	4dr	STs1	SC2		M		4,6	Se	S	S		S
Suzuki Equator Extended Cab	2dr	STs1	SC2		M		4,6	Se	S	S		S
Toyota Tacoma w/SAB	4dr	STs1	SC2	Yes	M	D	4,6	Se	S			S
Toyota Tacoma Extended Cab w/SAB	2dr	STs1	SC2	Yes	M	D	3,4	Se	S			
Toyota Tacoma Regular Cab w/SAB	2dr	STs1	SC1	Yes	M	S	3		S			S
Toyota Tundra w/SAB	4dr	STs1	SC2	Yes	M	D	4,6	Se	S		S	S
Toyota Tundra Extended Cab w/SAB	2dr	STs1	SC2	Yes	M	D	4,6	Se	S			S
Toyota Tundra Regular Cab w/SAB	2dr	STs1	SC1	Yes	M	S	3	Se	S			
<b>Van</b>												
Chevrolet Express 12 Passenger 3500 Van			SC3	Yes	M	S		Se	S			
Chevrolet Express 15 Passenger Van w/SAB			SC3	Yes	M	S	4,6,7,9,10,12	Se	S			
Chevrolet Express Passenger 1500 Van w/SAB			SC3	Yes	M		4,6,7,9	Se	S			
Chevrolet Express 12 Passenger 2500 Van w/SAB			SC3	Yes	M	S	4,6,7,9,10,12	Se	S			
Chevrolet HHR Panel Truck w/SAB	2dr		SC1	Yes	M			Se	S	S		
Chrysler PT Cruiser w/SAB	4dr	SBs1	SB1		M		4,6 or 5		S	S		S

Make and Model	Body	Air Bags					Safety Features					
		Side Air Bags				Air Bag On/Off Switch	LATCH Locations	Safety Power Windows	BTSI	ADLS	Adjustable Upper Belt-Rear	Head Restraints-Rear
		Chest Air Bag	Head Air Bag	Head Air Bag - Rollover	SAB Out of Position Tests							
Chrysler Town & Country w/SAB			SC3		M		4,6,8	SnSe	S	S	S	S
Dodge Grand Caravan w/SAB			SC3		M		4,6,8	SnSe	S	S	S	S
Ford E-150 Passenger Wagon							7pass: 4,8; 8pass: 5,8	Se	S	S		S
Ford E-350 12 Passenger Wagon							12pass: 5,8	Se	S	S		
Ford E-350 15 Passenger Wagon							11pass:5,8,11; 15pass: 5,8,11	Se	S	S		
GMC Savana 3500 15 Passenger Van w/SAB			SC3	Yes	M	S	4,6,7,9,10,12	Se	S	S		
GMC Savana 3500 12 Passenger Van			SC3	Yes	M	S	4,6,7,9,10,12	Se	S	S		
GMC Savana 2500 12 Passenger Van			SC3	Yes	M	S	4,6,7,9,10,12	Se	S	S		
GMC Savana Passenger 1500 Van w/SAB			SC3	Yes	M		4,6	Se	S			
Honda Odyssey w/SAB	4dr	ST&1	SC3	Yes	M		4,6,8	SnSe	S	S	S	S
Hyundai Entourage Van w/SAB	4dr	ST&1	SC3		M		4,6,7,8	Se	S		S	S
Kia Sedona Van LWB w/SAB		ST&1	SC3		M		4,6,9	Se	S		S	S
Kia Sedona Van SWB w/SAB		ST&1	SC2		M		4,6,7	Se	S		S	S
Nissan Cube w/SAB		ST&1	SC2		M		4,6	SnSe	S	S		S
Nissan Quest Van w/SAB		ST&1	SC3		M		4,6,8	SnSe	S	S	S	S
Toyota Sienna w/SAB		ST&1	SC3		M	D	4,6,8,9 or 4,5,6,8,9	SnSe	S	S	S	S
Volkswagen Routan w/SAB			SC3		M		4,6,8	SnSe	S	S		S

## Key

### Code Definition

S	Standard Equipment
O	Optional Equipment
D	Dealer Installed Option
B	Combo Air Bag for Head and Chest Protection
C	Curtain Air Bag for Head Protection
M	Meets Requirements
e	Push Down Lift Up Switch
n	Anti-Pinch

### Code Definition

s	Seat-Mounted Torso Air Bag for Chest Protection
d	Door-Mounted Torso Air Bag for Chest Protection
r	Head Air Bag Also Deploys As Rollover Air Bag
T	Torso Air Bag for Chest Protection
U	Tube Air Bag for Head Protection
1	Row 1
2	Rows 1 and 2
3	Rows 1, 2, and 3

## CHILD SAFETY SEATS AND BOOSTER SEATS

If you have children and are shopping for a family car, you'll want to check to see that your child safety seat and booster seat are compatible with the vehicle. Review the following compatibility information, ease-of-use ratings, and child safety and booster seat usage chart to make sure your new vehicle and safety seat will work together properly to protect your child in the event of a crash.

### Vehicle Compatibility Considerations

Not all child safety seats can be installed in all vehicles and in all seating positions. With so many models of child safety seats, more than 300 models of passenger vehicles, and the wide range of seat types and belt systems available today, correctly installing a child safety seat can be a challenge. See page 3 for more information on LATCH.

Vehicle design factors that can affect child safety seat placement include: two-door vehicles, small back seats, deep bucket seats, slope and contour of the back seat, splits in bench seats, forward-anchored belts, and pickup truck jump seats/extended cabs. (Note: side-facing jump seats are unsafe for a child safety seat under all circumstances!)

To ensure your child safety seat is compatible with a vehicle you are looking to purchase, NHTSA recommends you test the fit of your child safety seat in the vehicle before you buy. If the vehicle proves incompatible with your existing seat, you can either select another vehicle that is compatible — or purchase and install a new car seat that fits well in the new vehicle.

You'll find car seat installation instructions in the child safety seat manual and in your vehicle owner's manual. Once you have installed the seat, test the fit by firmly pulling at the base of the child seat, at the seat belt path, from side to side and forward. A properly installed seat should not move more than one inch in any direction. You can have a technician check the seat by visiting a local child safety seat inspection station. To find a location near you, go to [www.nhtsa.dot.gov/cps/cpsfitting](http://www.nhtsa.dot.gov/cps/cpsfitting) or call the DOT Vehicle Safety Hotline at 888-327-4236, or call 866-SEATCHECK.

### Ease-of-Use Ratings

A child safety or booster seat that's installed and used properly will better protect your child in the event of a crash. That's why NHTSA developed a new ratings system that allows you to evaluate how easy certain car seat features are to use before you buy a seat. Seats are rated on a scale of one to five stars (five being excellent, which is the highest rating). It's important to remember that these star ratings are not safety ratings. All child restraints are required to meet Federal safety standards. Instead, the new ratings are based on several ease-of-use factors, including:

- Evaluation of Instructions
- Vehicle Installation Features
- Evaluation of Labels
- Securing the Child

Visit [www.nhtsa.gov](http://www.nhtsa.gov) and click on Child Safety Seat Usage Ratings, or go directly to [www.nhtsa.dot.gov/CPS/CSSRating/Index.cfm](http://www.nhtsa.dot.gov/CPS/CSSRating/Index.cfm) to find updated ease-of-use ratings for both child safety seats and booster seats.



## KEEPING KIDS SAFE: INSIDE & OUT

The dangers of leaving a child unattended in or near a vehicle are widely misunderstood and underestimated. Children are free-spirited and move very quickly. Since they are small, they are harder to see. If left alone — sometimes even for mere seconds — a child could:

- Start the car, or put it in neutral, and cause a crash, resulting in injuries or death;
- Die of heat stroke, exposure to cold, or carbon monoxide poisoning;
- Become trapped in your vehicle's trunk and die of heat stroke or suffocation;
- Get hit or run over by another vehicle while inside or out of your car; or
- Be killed or seriously injured by a driver who may not be aware of or see a child when backing out of a parking space or driveway.

### Beyond Safety Technologies and Equipment

Vehicle safety technologies and proper child restraints can go a long way towards helping to keep child passengers safe. However, these are no replacement for careful monitoring by a parent or adult caregiver whenever a child is inside or even

near a vehicle. To keep children safe from danger, never allow them access to your car keys or a remote locking/unlocking device. Never leave them unattended in a vehicle.

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***Bottom line: keep children outside of your vehicle and away from any vehicle unless you are there to watch them!***

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For more information on ensuring child safety both inside and outside of vehicles, please visit <http://www.nhtsa.gov/KeepingKidsSafe>

## FREQUENTLY ASKED QUESTIONS

- Q. Is the back seat the safest place for my child?**
- A.** Yes, children under 13 should be properly restrained in the rear seat of the vehicle. It is estimated that children are 26 percent less likely to be fatally injured in a crash if seated in the rear seat of a passenger vehicle.
- Q. What if I have no choice but to place a child under 13 in the front seat?**
- A.** There may be occasions when a parent or caregiver has no other option than to place a child in the front seat, for example:
- In a pickup truck with insufficient or no available rear seat, or
  - If a parent is transporting too many children for all to ride in the back, or
  - When transporting a child with a medical condition that requires monitoring and another adult is not available.

Infants in rear-facing child safety seats must never ride in the front seat of a vehicle with an active front passenger air bag. In the event there is no available



rear seat and parents have no other option than to place a child (other than an infant in a rear-facing child safety seat) in a front passenger seating position, take these steps:

1. Ensure the child is properly restrained,
2. Move the vehicle seat as far back as possible,
3. Make sure the child is not leaning out of position, and
4. Set the air bag on-off switch, if available, to the OFF position.

When faced with having to choose which child other than an infant in a rear-facing child safety seat to place in front of an air bag in the front seat, select the child that can be most relied upon to remain in a proper seating position. This may not necessarily be the oldest child.

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***Remember: Infants in rear-facing child safety seats must NEVER ride in the front seat of a vehicle with an active front passenger air bag.***

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**Q. How do I choose the most appropriate passenger restraint for my child?**

**A.** Refer to the 4 Steps for Kids chart on page 21 to help you choose the child restraint system that is correct for the age, size, and weight of your child.

**Q. When should a child use a booster seat?**

**A.** All children who have outgrown child safety seats should be properly restrained in booster seats until they properly fit in seat belts. This generally occurs when they reach the age of 8, or height of 4'9. When used correctly, booster seats can help prevent injury to older children

by making adult-sized seat belts fit properly. The adult lap and shoulder belt should fit the child snugly, with the lap belt lying flat across the upper thigh area, and the shoulder belt crossing the chest, resting against the middle of the child's shoulder.

**Q. What could happen if my child doesn't use a booster seat?**

**A.** Without a booster seat:

The lap belt can ride up over the child's stomach and cause serious internal injuries in a crash.

The shoulder belts may be uncomfortably high, leading to misuse if children put the seat belts behind their backs or under their arms. These misuses can cause very serious internal injuries.

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***Regardless of weight or height, all children under 13 should be properly restrained in the rear seat. Always read the child safety seat or booster seat manufacturer's instructions, as well as the vehicle owner's manual, before installing a child safety seat.***

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**Q. Will a vehicle's seat belt system meet the needs of my children?**

**A.** Correct seat belt use for all vehicle occupants should be the rule in your vehicle. Children who have clearly outgrown child safety seats and booster seats should be able to fit the adult belt system correctly.

Read the vehicle owner's manual to be sure you understand how to use the seat belt correctly, and remember the following:

- The lap belt should fit low over the child's upper thighs when the child is sitting straight against the vehicle seat back. The child's knees should bend naturally and comfortably over the edge of the vehicle seat.
- The shoulder belt should stay on the shoulder and lie against the child's chest. Never put the shoulder belt under the arm or behind the child's back.
- A lap-only belt (without a shoulder belt) should be used to restrain a child only if no other seat belt system is available. If you must transport several children in a vehicle that has a lap-only belt in the middle rear seat, and one of the children is in a rear-facing or a /toddler child safety seat, follow these guidelines:
  - Have the older children use the lap and shoulder belts.
  - Put the child riding in a child safety seat in the middle.
  - Secure the child safety seat with the lap-only belt.

**Q. Is it safe to use the child safety seat after it has been in a crash?**

- A.** NHTSA recommends that child safety seats be replaced following a moderate or severe crash in order to ensure a continued high level of crash protection for child passengers. NHTSA recommends that child safety seats do not automatically need to be replaced following a minor crash. Minor crashes are those that meet ALL of the following criteria:
- The vehicle was able to be driven away from the crash site;
  - The vehicle door nearest the safety seat was undamaged;

- There were no injuries to any of the vehicle occupants;
- The air bags (if present) did not deploy; AND
- There is no visible damage to the safety seat.

**Q. Which vehicles have the LATCH system?**

- A.** Since September 2000, all new passenger vehicles (except most s) have been equipped with the top tether anchors. All vehicles manufactured after September 1, 2002, are equipped with the lower anchors. Although vehicles are exempt from tether anchor requirements, some manufacturers offer them as a safety enhancement. Check your owner's manual or contact the manufacturer to see if your older vehicle is equipped with tether anchors or has pre-drilled points where tether anchors can be installed.

**Q. What if my vehicle is not LATCH-equipped?**

- A.** Any child safety seat, even one with LATCH, can be installed using the vehicle seat belt and, if available, a top tether. Be sure to follow the vehicle owner's manual and child safety seat instructions.

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***See the 4 Steps for Kids chart on page 21 for specifics and tips on how to choose and use the right child safety and/or booster seat for your children.***

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# Think Your Vehicle or Child Safety Seat Has a Safety Defect?

**Visit**

**[www.safercar.gov](http://www.safercar.gov)**

**Call**

**888-327-4236**

**Mail**

**NHTSA**

**Office of Defects Investigation**

**1200 New Jersey Avenue SE.**

**Washington, DC 20590**

*All complaints are carefully reviewed by our team of safety experts.*

*We welcome your input.*

## **ADDITIONAL RESOURCES**

To access additional information on child and vehicle safety, visit the National Highway Traffic Safety Administration Web site at [www.nhtsa.gov](http://www.nhtsa.gov). For specific information about vehicle safety technologies and to obtain updated Government crash test results, visit [www.safercar.gov](http://www.safercar.gov) or call the DOT Vehicle Safety Hotline at 888-327-4236 (TDD 800-424-9153).

Looking for a Child Safety Seat Inspection Station? Visit [www.nhtsa.dot.gov/cps/cpsfitting](http://www.nhtsa.dot.gov/cps/cpsfitting) or call the DOT Vehicle Safety Hotline at 888-327-4236 (TDD 800-424-9153), or call 866-SEATCHECK.