

HONDA

ODYSSEY



HONDA ODYSSEY

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Overview

Honda has improved its prized Odyssey, revealing a more stylish, spacious and powerful fourth-generation model that proves this car is more than just a people mover.

The 2009 Odyssey features a more powerful engine (132kW), improved safety, visibility, versatility and outstanding fuel economy (8.91/100km), along with all the quality aspects of the previous model.

The fourth-generation Odyssey is superior to the third-generation, which was a four-time winner of 'Best People Mover' in Australia's Best Car Awards - the only vehicle to achieve this record in the award's history.

The Odyssey has a 2.4L DOHC i-VTEC engine coupled to a 5-speed automatic transmission with Grade Logic Control and Shift Hold. With tilt and telescopic steering and double wishbone suspension, its driveability and handling are more car-like than ever.

The 2009 Odyssey also features the highest level of safety with six airbags and for the first time Vehicle Stability Assist (VSA).

As with every Honda, passenger safety is an important consideration and the all-new Odyssey is fitted with 3-point seatbelts in all seven positions and active front seat head restraints.

Featuring slim-line 'A' pillars, the 2009 Odyssey provides the driver with a panoramic front view and improved overall visibility.

Motion Adaptive Electric Power Steering (MAE) is also standard across the range.

Inside, the Odyssey sets a new standard in styling and comfort with the unique 'V' shape seating layout providing all passengers with a clear view forward.

Comfort in the second row has been improved with the belt anchor built into the pillar, 20mm greater head clearance and a 25mm increase in the width of the centre armrest. The centre seat now gains a three-point seatbelt.

The enhancements continue in the third row with more foot and leg room.

Contributing to its car-like appeal, the all-new Odyssey retains its low centre of gravity with a reduction in overall height from 1550mm to 1545mm.

Advanced styling makes the fourth-generation model more masculine and sporty.

Confirming its global commitment to the environment, Honda has ensured that all materials used to manufacture the all-new Odyssey have been selected for their recyclability and environmental compatibility.

With superb driving enjoyment, advanced styling, comfort and comprehensive safety features, the 2009 Honda Odyssey is the ultimate family car.

Sales and Marketing

Since the first Odyssey arrived in Australia in 1994, it has established itself as one of Honda's most celebrated and awarded cars.

This first generation vehicle made a strong impact on the industry, winning the prestigious Wheels 'Car of the Year' in 1995, marking the beginning of an illustrious award history.

The acclaim continued with the third-generation model, which is a four-time winner of 'Best People Mover' in Australia's Best Car Awards - a record not achieved by any other vehicle in the award's history.

The all-new Odyssey is set to continue this award-winning tradition.

Appealing to families with active lifestyles, the Odyssey has sold 22,409 units since its debut in the Australian market.

Odyssey buyers are style-conscious and value quality over price and the 2009 Odyssey will impress existing customers and attract new buyers.

With its advanced style, exhilarating drive, outstanding comfort and the highest safety levels, the all-new Odyssey is a class above.

Australian Awards

- 'Best People Mover' Which Car Gold Medal*
- 1995** *'Car of the Year', Wheels Magazine*
'Best Buys – Best Passenger Van', RACV
'Car of the Year 4WD/People Mover', Advertiser
- 1996** *'Best Buys – Best Passenger Van', RACV*
'Best Cars – Best Family Wagon', NRMA
- 1997** *'Best Cars – Best Family Wagon', NRMA*
'Best Family Passenger Wagon' RACV
'Best Buys – Best Passenger Van', RACV
- 1998** *'Best Cars – Best Passenger Wagon', NRMA*
'Best Buys – Best People Mover', RACV
- 2004** *'Best People Mover', Australia's Best Cars*
- 2005** *'Best People Mover', Australia's Best Cars*
- 2006** *'Best People Mover', Drive*
'Best People Mover', Australia's Best Cars
- 2007** *'Best People Mover', Australia's Best Cars*

International Awards

- 1994** *'Best of What's New' Popular Science – United States*
'Car of the Year' – Japan

Development

- ***Pursuing the ideal form in a multi-passenger vehicle***

The introduction of the Odyssey in 1994 marked a major milestone in automotive history, with the debut of the first-generation vehicle effectively establishing the minivan category in Japan.

The Odyssey has continued its pioneering role, evolving beyond the minivan concept along its own unique path to reveal new possibilities for passenger vehicles.

The Odyssey combines elegant form and driveability with ample space for up to seven occupants. The Odyssey has continued to evolve by adding new value with sedan like driving performance, spaciousness, usability, advanced functionality and high standards in safety and environmental performance.

Honda has developed the fourth-generation Odyssey by investigating what makes a car fascinating. Our goal was to design the ultimate Odyssey, which celebrates the theme, "Emotive comforts in the heart". We deliver distinctive driving performance, spaciousness and styling designed to refresh and invigorate the senses. In every detail, the new Odyssey conveys an air of luxury and provides comfort and ease to all its occupants.

Driving pleasure and riding comfort for passengers in the second and third rows have been further enhanced.

I am confident, that in the new Odyssey, we have succeeded in further approaching the ideal form of a multi-passenger vehicle that transcends generations.



NORIO IGARASHI

Honda R&D Co., Ltd.

LPL for the new Odyssey

Joined Honda Motor Co., Ltd. in 1979.

Involved in body design and collision safety research.

Assistant LPL for Life (1988), Stream (2000) and Life (2003)

LPL for Zest (2006)

Evolution

- *The Odyssey continues to evolve, redefining passenger cars by going beyond existing ideas with innovative technologies*
- *Creating new value beyond expectations while fulfilling people's current needs*

The Odyssey was the first of Honda's 'creative movers' - a new model line designed to facilitate an interrelationship with its owners, broadening enjoyable living. Based on Honda's expertise in sedan design, a new kind of passenger car with three rows of seats was created allowing families and friends who enjoy travelling together, to do so in comfort.

The second-generation Odyssey increased safety and performance in all aspects to further enhance the quality of the mobility experience.

The third-generation Odyssey introduced new automotive possibilities that added dynamic driving performance with styling enhancements designed to further augment the Odyssey's fundamental functionality and the pleasure it offers the driver.

With the latest model, Honda's goal was to create the ultimate Odyssey, a car that builds on these past achievements to pursue new heights in automotive appeal.

Honda's distinctive, innovative packaging technologies as the backbone of unique advancement

Ever since the first-generation, the Odyssey has evolved innovative packaging technologies that encapsulates Honda's distinctive approach to car manufacturing. The low-floor, 4-door platform delivers the feel of a sedan, with easy entrance and exit, together with three rows of seating and spaciousness, allowing multiple passengers to travel in comfort.

Since the third-generation Odyssey, the floor has been further lowered without sacrificing minimum ground clearance. Interior spaciousness is maintained, resulting in a lower centre of gravity and improvements in handling and driving performance. At the same time, a lower overall height means streamlined styling far beyond what one would expect in a peplemover. The new Odyssey takes full advantage of this low-floor, low centre-of-gravity, low-height packaging while further enhancing the driving comfort of all occupants.

Odyssey through the years

**1994 -
Birth of a new category
of passenger car**

ODYSSEY



An all-new multi-passenger vehicle featuring 3 rows of seats with plenty of room for family. The 'creative mover,' offering easy, convenient mobility for everything from everyday use to leisure activities is here.

**1999 -
Driving and comfort
supported by stability &
advanced performance**

ODYSSEY



The multi-passenger vehicle continues to evolve, offering sophisticated driving and comfortable transportation in all driving conditions, supported by stability and advanced performance.

**2003 -
Spaciousness, speed
and beauty in an
advanced form**

Odyssey



Innovative packaging technologies permit styling with a level of functional beauty and driving dynamics previously not possible in an ordinary minivan, without affecting interior spaciousness.

2008

ODYSSEY



Refined sophistication and driving that appeals to people's senses

Pursuing spaciousness for multiple passengers, outstanding driving stability, and stylish form to discover new possibilities for the automobile.

Concept

- ***The quest for quality that brings joy to all who experience it***

The joy of driving, the joy of mobility, the joy of ownership—these are the qualities Honda wanted the Odyssey to encompass. To achieve this, Honda uses “sensibility” when developing cars, intending to maximise the emotive quality of not only the driving performance of its cars, but of their interior space and overall styling.

Spirited driving, handling and braking with a cockpit environment to fully enjoy driving and a refreshing interior space that ensures a pleasant trip for all occupants.

Creating emotive quality

Drive quality:

- New 2.4-litre DOHC i-VTEC engine with 5-speed automatic transmission delivers smooth acceleration
- Low centre-of-gravity and advanced chassis ensures a high quality ride

Space quality: comfort for all occupants

- Futuristic instrument panel design offers instant recognition and intuitive operation to enhance driving pleasure
- The three rows of seats are positioned in a V-shape layout to allow all occupants to enjoy the forward view
- Slimmer A-pillars provide an expansive view and clearer visibility for the driver

Styling quality: distinctive presence

- Distinctive one-motion form is lower and sleeker, providing a sensation of speed and functional beauty
- Sharp, aggressive lines and contoured front styling emphasise power

Exterior Design

- *Driving presence highlighted by a sleek, low-profile*
- *Exterior design's dynamic form expresses the functional beauty of driving*

Honda pursued a sporty look and premium feel without sacrificing functionality. Based on the sleek, one-motion form with low overall height, the design employs a boldly contoured, dynamically sculpted lower body to express sportiness and power.



Sharp, aggressive front view

Sharp lines unite the grille, headlights and bumper aperture and flow out from the bumper, while a sculpted V-line extends up and over the bonnet to create an aggressive look. Spoiler-shaped flairs at either end of the front bumper complete the powerful stance.



Headlights impact a cool impression

The narrow, sharply contoured headlights feature projector-type low beams with blue inner lenses that create a futuristic look.



Side view with combination of sleek and powerful appearance

The side view has a sleek silhouette with a one-motion line from the front to the roof line. The front window pillars are positioned further back than the previous model and with the more inclined tailgate, provide a sporty appearance. In the lower body, the curvature of the panels is continuously varied for a contoured look.



Rear view fulfilled with uplifted sensation

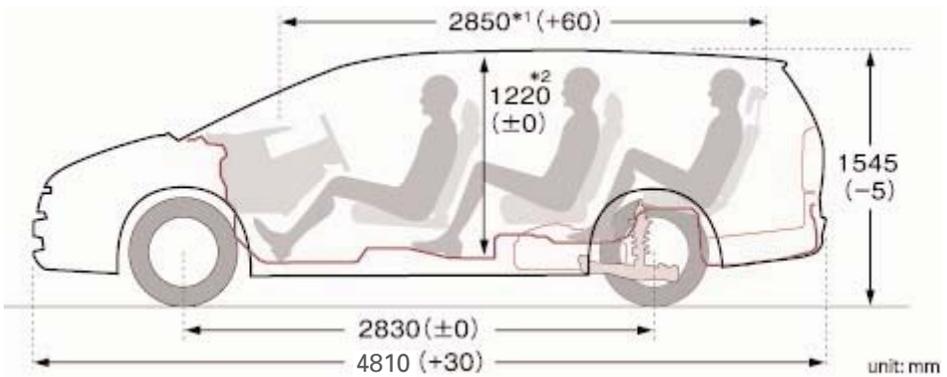
The rear guards have been flared with the rear lights adding a feeling of width to the body.



Packaging

- **Superior ride comfort for all occupants**
- **Ample space that seats seven, while featuring low overall height**

The new Odyssey continues the low-floor design, made possible by innovations to the shape and layout of the fuel tank, rear suspension, exhaust system and other components. With the low overall height of 1,545mm, the height in the passenger cabin is maintained. The powertrain, suspension and other mechanisms have also been made more compact and the seats and interior components carefully shaped to ensure generous interior space for occupants in all three rows.



Figures in parentheses indicate comparison with previous model

Odyssey Dimensions (mm)

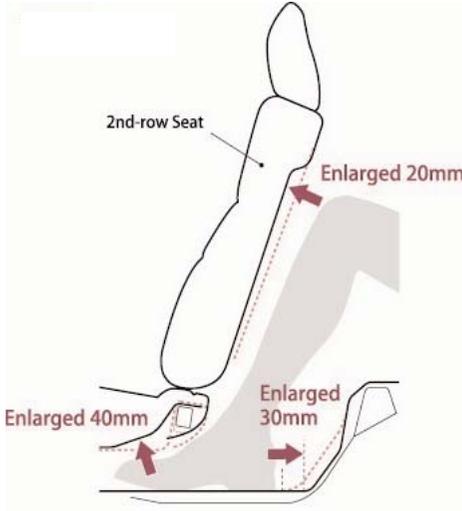
	Third Generation	Fourth Generation
Length	4780	4810
Width	1800	1800
Height	1550	1545
Wheel Base	2830	2830
Front Track	1560	1560
Rear Track	1560	1560
Cabin Length	2790	2850

More legroom for third-row passengers

Design innovations to the underside of the second-row seats deliver more legroom for third-row passengers. The floor rise behind the heel area has been moved back to further increase foot room.

Increased 3rd row legroom

**Compared to previous model (Honda measurements)*



Upper rear door opening expanded for easier third-row entry and exit

The C-pillar is approximately 40mm* thinner, allowing the rear door aperture to be expanded for easier third-row entry and exit.

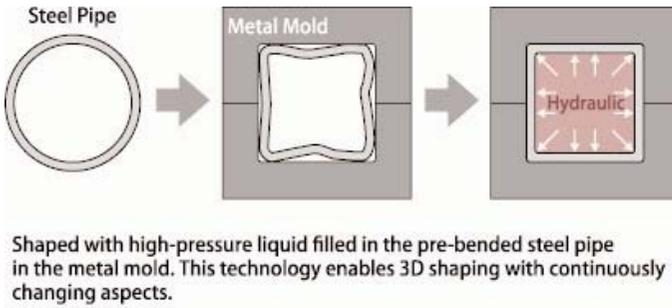
**Compared to previous model (Honda measurements)*



Front pillars employ ultra-high tensile steel pipe and hydro-shaping technology to combine slimmness and strength

Hydro-shaping technology is used to form precise, three-dimensional shapes from 980MPa ultra-high tensile steel pipe, creating front pillars that are as slender as they are strong. Heat distortion has been minimised through the use of laser-arc hybrid welding, resulting in high-precision bonds between pillars and frame. This extremely high bonding efficiency promotes higher torsional rigidity in the body frame.

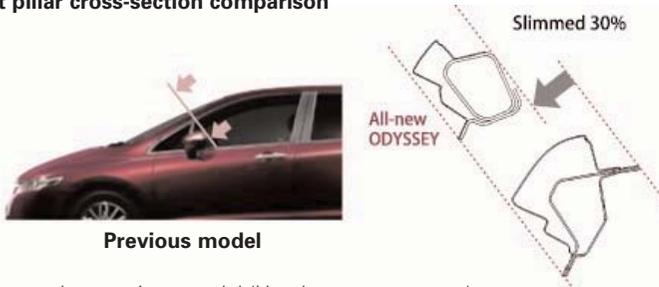
Image of the hydro-shaping process



Further improved cornering visibility with a more panoramic view

The use of high-strength materials and high-precision manufacturing techniques allows the A-pillars to be around 30%* slimmer, while increasing their strength and improving cornering visibility when turning. Thin blade windshield wipers and a thinner, slightly more rear-positioned sun visor further enhance the panoramic view.

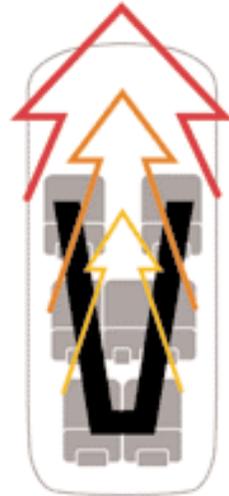
Front pillar cross-section comparison



*Compared to previous model (Honda measurements)

A V-Shaped seating layout allows all occupants to enjoy the expansive forward view

The seating has been created so that all occupants can enjoy the forward view. The second-row seats have been moved inward by approximately 25mm*, creating a V-shaped layout from the first to the third rows. Positioning the second-row seats toward the centre also increases the space between the occupants and the rear door.



View created by V-shaped layout

**Compared to previous model (Honda measurements)*

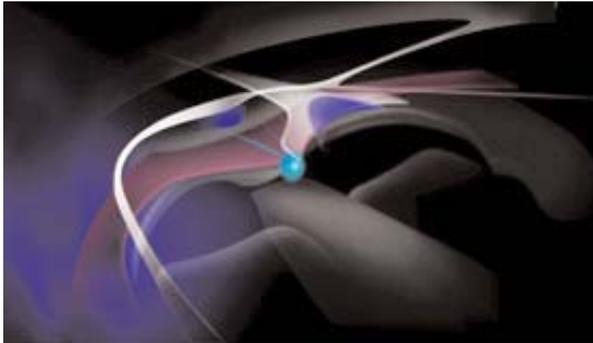
The first and second-row head-restraints have also been rounded on the back and the seatbelt anchors built-in to promote a greater visual sense of spaciousness.



Interior

- *Spacious feel to maximise comfort*
- *Contemporary interior design features united contours with high functionality*

The interior has been designed for a feeling of space, helped by the V-shaped seat layout and slimmer A-pillars. The interior imparts a relaxing atmosphere thanks to the blue illumination in the door linings, giving the interior a feeling of refreshing comfort.



An instrument panel that further enhances feel and spaciousness

The two-tiered instrument panel has a clean, modern design. The central area features a rounded shape that blends into a gentle, curved surface flowing towards the doors, adding to the feeling of spaciousness. The dashboard is lower, increasing the forward view.

3D self-illuminating gauges for instant recognition

The instrument panel features a 3D layout, with the gauges and indicator lights arranged around a large, centrally located speedometer. The gauges are grouped into functional zones with multiple layers to precisely define their boundaries for quick, easy recognition of the information. In addition to a metallic ring around the speedometer, each zone is bordered with white or blue illumination adding to the high-quality feel.



Information display

The information display, located in the centre of the speedometer, displays real time fuel consumption, temperature, average fuel consumption and distance to empty.



Front seats feature excellent holding support to reduce fatigue

The use of low-resilience urethane in the seat cushions and optimised front-rear spring pitches ensure excellent vibration absorption. The seat cushions have also been given a rearward slope to naturally draw their occupant in. The seat bolsters flare upward, while firmness has been adjusted for compliancy when getting in or out of the vehicle. This ensures a firm hold combined with easy entry and exit.

The seatback is molded to give superb hold and side support during cornering. The Odyssey is upholstered with a suede-finish fabric with the Luxury model gaining leather trim. Genuine leather is used for the seat side portions and seatbacks of the first and second-row seats; the second-row centre seat and third-row seats employ synthetic leather.

Full adjustability ensures the optimum driving position

A tilt and telescopic steering mechanism lends further adjustability to the steering wheel that is already positioned for sporty driving. In addition to the tilt and telescopic 40mm range on each axis, the driver's seat has 50mm of adjustment to ensure an optimum driving position.

Operation image



8-way power adjustable driver's seat (Luxury model only)

The driver's seat features an 8-way power adjuster that allows the driver to control height (front and rear), forward/backward slide and seatback recline.

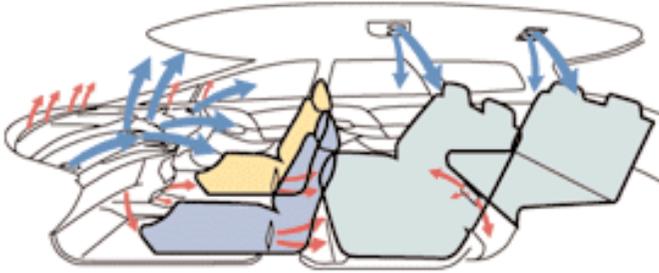
Operation image



Fully automated air conditioner with tri-zone control (Luxury model only)

The climate control air-conditioner permits independent temperature control for the front and rear two rows of seats. Further improvements to climate control efficiency include upper vents on either side of the second-row centre panel that direct air to the front-seat occupants' head area and a more precise humidity sensor for the evaporator unit.

Interior airflow



Reduced interior use of VOCs

All materials, processes and adhesives used in the interior have been selected to minimise the quantities of formaldehyde, acetaldehyde, toluene and other VOCs released. A high-performance deodourising filter with outstanding exhaust-gas and pollen filtering capabilities is also standard.

Utility

- ***Convenient, flexible and easy to use***

The second-row seats can be independently folded down into three sections, right, left and central part. Various seat arrangements are easy to maneuver in one single action. The third-row seats are a 50:50 split type and are stowed below the floor.

The Odyssey becomes a five-passenger vehicle when the third-row seats are stowed flat. Folding down the second-row seatbacks is done with the easy-to-operate system to increase the luggage space.

Seating configuration options include folding down the left seats of the second and third-row for five occupants with space for long objects.



Third-row seats can be folded down in a 50:50 split.



Another option includes reclining the front-row seats to form a continuous surface with the second-row seats to lie back and relax.



Second-row seats feature one-action fold-down and walk-in slide mechanisms

Operation is by lifting the lever beside the seat. The walk-in mechanism slides the seat forward 320mm and combined with the wider rear door opening, makes entering the third-row seats smooth and easy.



Third-row seats fold flat and stow under floor completely

The new Odyssey also features the flat, under-floor seat storage mechanism that was popular on the previous model. When stowed, this provides a flat, easy-to-use luggage space. The Odyssey Luxury has a power retractable third-row which folds down in one easy step.



Second-row seats



Third-row seats

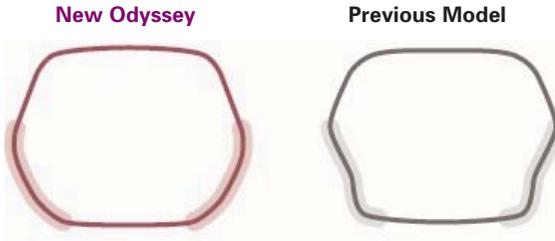


**Third-row seats
in stowed position**

Easier to use luggage space

The low, flat, wide luggage space is made possible by compact rear suspension and other innovations to under-floor structures. The tailgate is thinner, allowing more luggage space than the previous model. The lower portion of the tailgate opening is also wider to make it easier to load and unload bulky objects.

Comparison of tailgate opening shapes



Comparison of luggage room capacities

	New Odyssey	Previous Model
7-occupant seating	259L*	244L
5 occupant seating	708L*	672L

*Honda measurements according to VDA formula

A variety of innovative storage spaces for all three rows of seating

A variety of innovations have been introduced to make the Odyssey more convenient. For example, drink holders are positioned so that children sitting in booster seats will be able to reach them.



**First-row seat centre table
(fold-away type with cup holders)**



**Second-row seat centre armrest
(with cup holders)**



Centre lower box



**Third-row side pockets
(left side with lid/cup holders)**



Glove compartment



Front door pocket



Rear door pocket (upper/lower)



Front passenger seatback pocket



Rear side box



Rear side pocket

Powertrain

- *A more powerful engine*
- *Lower fuel consumption*

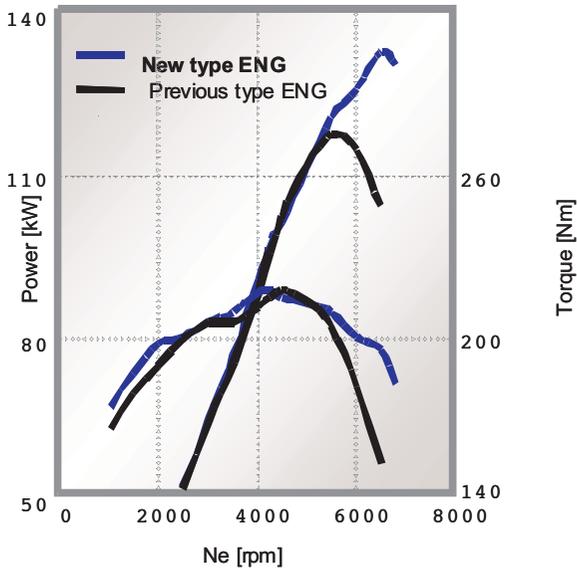
This engine with i-VTEC combines Honda's original Variable Valve Timing and Valve Lift Electronic Control (VTEC) with Variable Valve Timing Control (VTC), to optimise intake valve timing in response to engine load. In addition to optimised valve timing and lift, the use of piston oil jets and innovative coolant routing helps combat engine knock, enabling the use of higher compression ratios to deliver 14 kilowatts more output than the previous model. Friction reduction measures further contribute to the engine's excellent fuel economy.



Engine performance comparison

	New Odyssey	Previous Model
Max output (kW/rpm)	132 / 6,500	118 / 5500
Max output (kW/rpm)	218 / 4,500	218 / 4,500

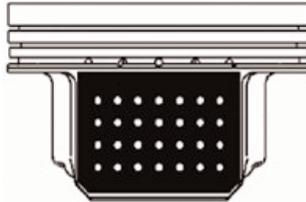
2.4L DOHC i-VTEC engine performance curve comparison



Excellent fuel economy

Sliding friction reduction measures include: a dot-pattern and molybdenum disulfide coating on the piston skirts to facilitate better oil retention; molybdenum disulfide-treated bearing metal to support the crankshaft; and low-tension piston oil rings. Other innovations that contribute to the engine's outstanding fuel economy include: an optimised throttle bore for lower idling rpm; high-ignition spark plugs; and more stable combustion during VTC advanced valve-timing operation for more effective EGR. The Odyssey is Euro4 compliant and operates on 91RON fuel.

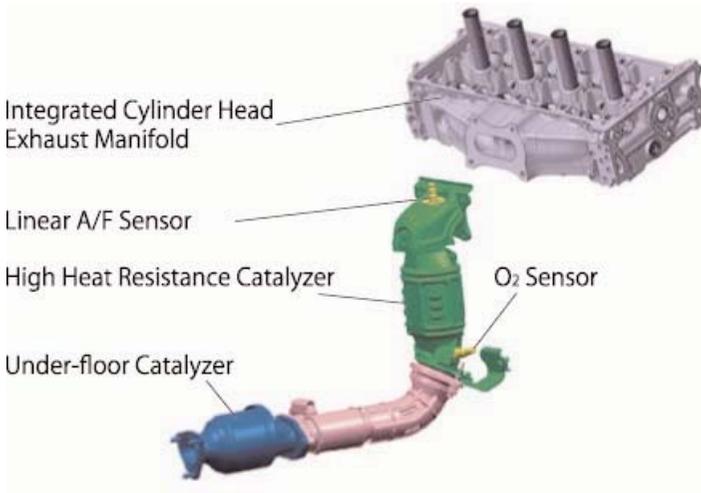
Patterned piston coating



Excellence in clean performance

The exhaust manifold and exhaust gas collection area inside the cylinder head have been combined into a single unit, with a high-thermal resistance catalytic converter positioned directly underneath. This results in reduced thermal loss in the exhaust gas and faster activation of the catalyst for improved emission control performance during cold starts. In addition to linear A/F and O₂ sensors, an intake airflow meter is used to gain finer air-fuel ratio control. High-mist injectors ensure exhaust gases are as clean as possible.

Exhaust emission purifying system



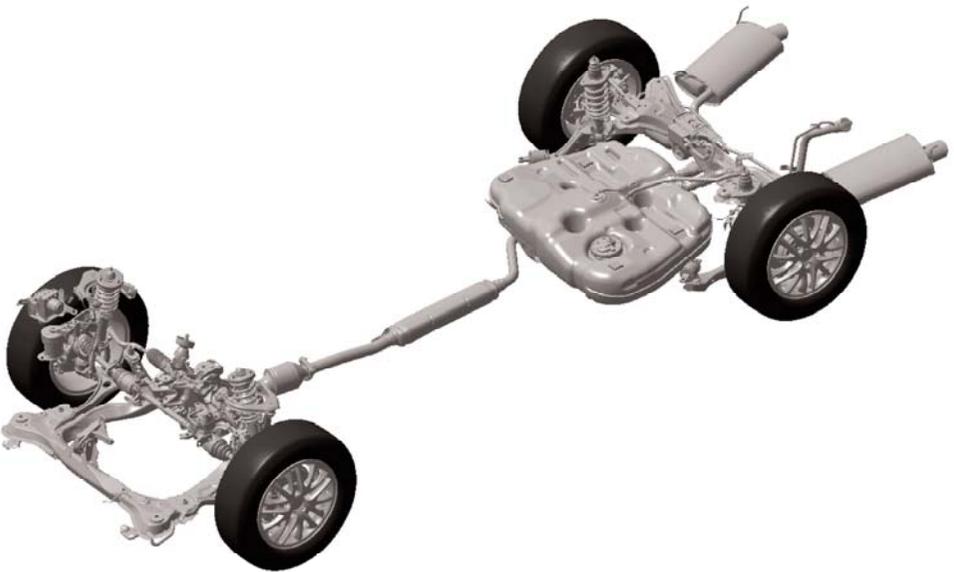
5-speed automatic

Nearly all of the major components in the 5-speed automatic transmission have been redesigned. Direct control via a linear solenoid works with DBW control to deliver smooth startup and shock-free acceleration, with outstanding fuel economy when cruising. The lock-up range has also been expanded and a lock-up assist spring added to quicken response time during lock-up together with a low-friction clutch. In addition, cornering G-shift control detects when the vehicle is being driven on a winding road reducing unnecessary gear changes due to accelerator pedal modulation. This delivers sufficient engine braking and brisk acceleration.

Chassis and Body

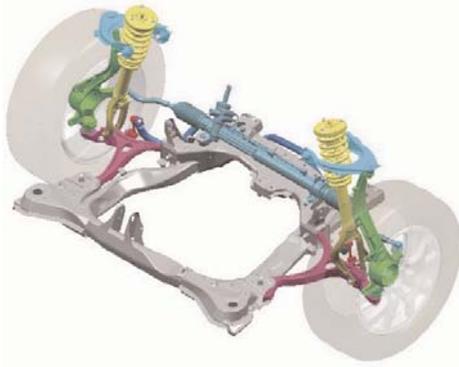
- *Low centre-of-gravity chassis combines nimble handling with a comfortable ride for all occupants*

Our goal was to provide sedan-level handling combined with a comfortable ride. First, a low centre of gravity was achieved by adopting a low-floor platform and low overall-height body. The chassis is more rigid and suspension geometry improved. EPS (Electric Power Steering) was added to improve the steering feel resulting in responsive, stable handling. Overall higher rigidity allows a lower spring rate for a more comfortable ride.



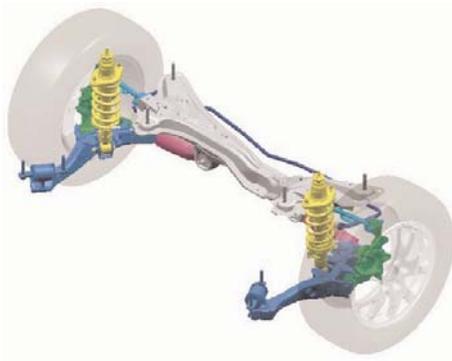
Double wishbone front suspension

Double wishbone suspension provides outstanding straight-line stability and ride comfort while the high-rigid A-frame, lower arms and large-diameter compliance bushes deliver a combination of stability and comfort.



Multi-link double wishbone rear suspension

The multi-link double wishbone rear suspension's compact design contributes to achieving the Odyssey's low-floor, with outstanding space efficiency. Optimised positioning and unitised hub bearings ensure improved camber. More rigid contact points contribute to greater responsiveness and stability, at the same time allowing lower spring rates to be implemented to achieve outstanding ride comfort.



Turning radius of 5.4m

A more compact powertrain and innovative body results in a minimum turning radius of just 5.4m, even with a wheelbase long enough to permit three rows of spacious seating. EPS and quick steering rack ratio give the Odyssey outstanding maneuverability.



Solid feel brakes

The Odyssey's excellent braking is achieved through the use of large-diameter disc brakes, front anti-dive and rear anti-lift angles to ensure greater stability under braking. A large-diameter single brake boost cylinder is used together with a small-diameter master cylinder for an optimum brake pedal ratio that contributes to the firm braking feel. Front discs are 320mm and the rear discs are 305mm.

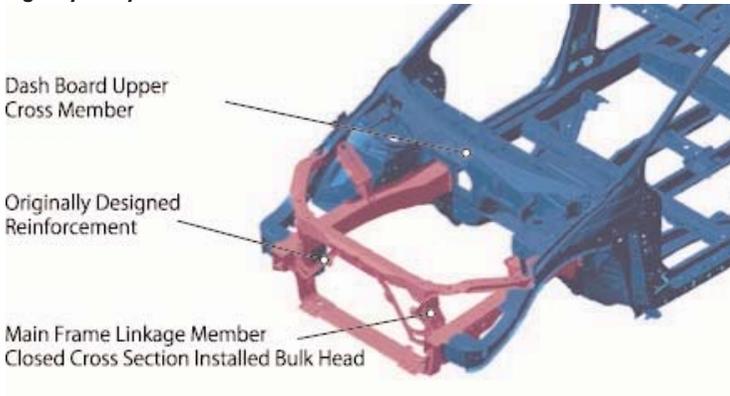
Lightweight, high-rigidity body combines driving enjoyment with an expansive view and spacious interior

The upper and lower A-pillar attachments have improved joint efficiency to achieve outstanding static frame rigidity with respect to both flexural and torsional rigidity. Further improvements, including adjustments to front / rear rigidity balance and stronger joints throughout also contribute to a high level of dynamic rigidity. Strategic use of strong, lightweight high-tensile steel and an enlargement in cross-sectional area ensure efficient strengthening even with thinner components. The result is a high-precision body that delivers enjoyable driving performance along with slimmer A-pillars for better visibility and plenty of interior space to comfortably seat seven people.

Improved front-end rigidity for improved handling

The bulkhead employs closed-cross-section construction with reinforcing materials positioned in an 'open-V' formation. Components used to join the bulkhead to the main frame also employ closed-cross-section construction. Other innovations for improved handling responsiveness include connecting the shock absorber towers to the dashboard upper cross-member, for increased rigidity in the suspension mounts.

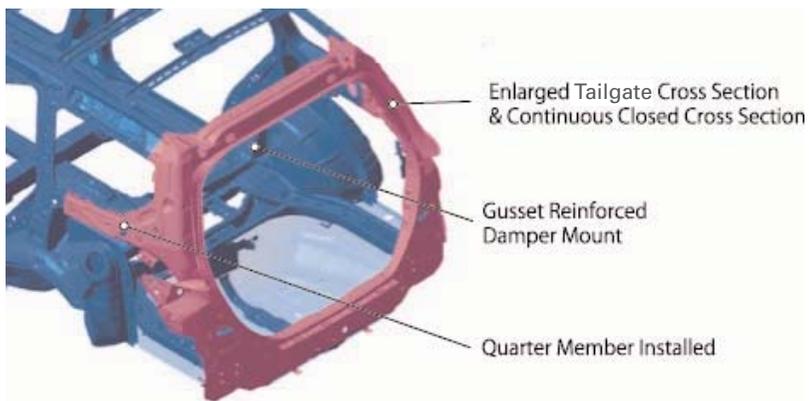
High-rigidity body structure (front)



Increased rear-end rigidity for improved stability and ride comfort

The tailgate opening features a large cross-section and continuous closed-cross-section structure. Combined with reinforced shock absorber mounts and quarter-panel members, this delivers highly stable, road holding driving performance along with improved ride comfort.

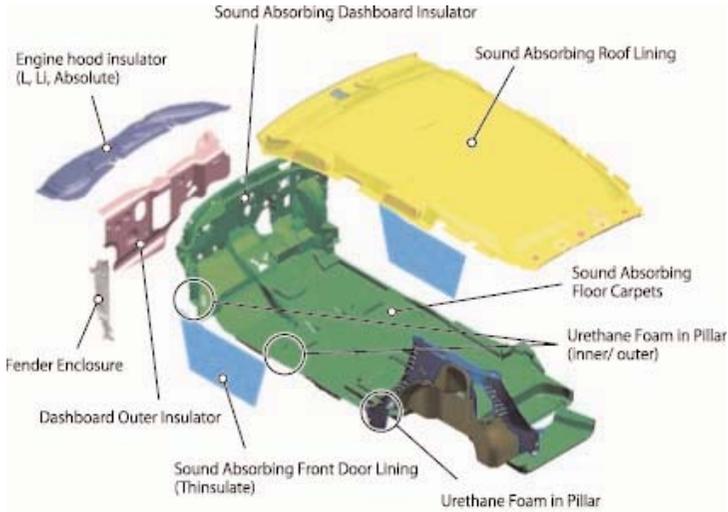
High-rigidity body structure (rear)



More reduction of cruising noise, high level of quietness

Measures to reduce road and wind noise throughout the vehicle result in an even quieter ride, especially during cruising. In addition to reducing noise and vibration at their source, the body and chassis rigidity have also been improved throughout, so vibrations and road noise are eliminated from reaching the cabin. Sound insulation and absorption materials are also used to prevent noise from reaching the cabin.

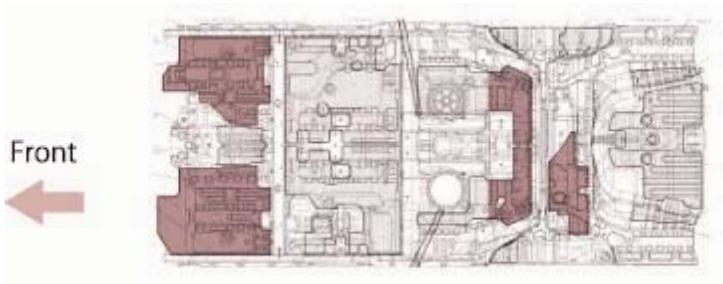
Placement of sound insulation and absorption materials



Reduced road noise

Lightweight, high-performance sound-absorption materials have been effectively used to further improve on the previous model's already outstanding soundproofing measures. In addition to stiffening the body and chassis, high-performance vibration damping material has been added under the feet of first and third-row occupants. The amount of urethane foam used in the pillars has also been increased, further decreasing road noise.

Floor vibration damping material distribution



Reduced wind noise

The rear edge of the bonnet and side mirrors are aerodynamically shaped. The surface gap between the front pillars and window glass is minimised and thin-blade wipers are employed to ensure that air flows over the vehicle smoothly with minimum wind noise.

Wind noise reduction technologies

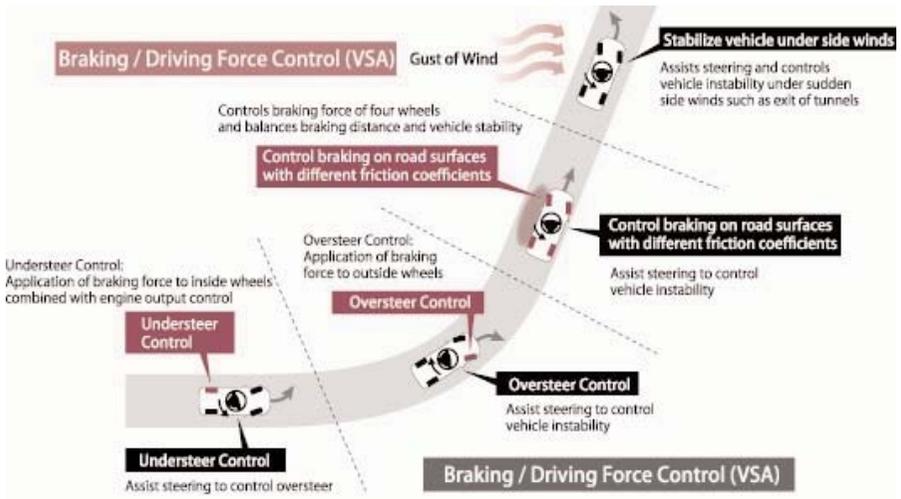


Safety Technology

- **Vehicle Stability Assist (VSA) is now standard**
- **Advanced support functions for safe, stress-free driving**
- **Motion Adaptive EPS works with VSA to provide steering assistance and greater vehicle control**

Motion Adaptive EPS (Electric Power Steering) provides steering assistance that responds to vehicle instability that may arise during cornering and changing road-surface. Vehicle Stability Assist (VSA), new for 2009, combines Anti-lock Brake System (ABS) and Traction Control System (TCS) with sideslip control. To help control under-steer, the EPS provides steering assistance to lead the driver to avoid turning the wheel too sharply, while VSA reduces drive output and applies the brakes on the inside wheels. To help control over-steer, EPS makes it easier for the driver to counter-steer to help prevent the vehicle from entering a spin, while VSA applies the brakes on the outside wheels for improved stability. When the left and right wheels encounter different road surfaces, the system regulates drive output and provides steering assistance to help maintain vehicle stability. It also provides steering assistance to maintain the vehicle in a straight line during strong crosswinds.

Function image of VSA / Motion Adaptive EPS



Safety for all - vehicle occupants, other vehicles and pedestrians

Odyssey features advanced collision safety performance that protects not only its occupants, but other vehicles and pedestrians who may also be involved.

The Odyssey features Honda's advanced collision safety technology, with an Advanced Compatibility Engineering (ACE) body that provides higher levels of protection to vehicle occupants while minimising impact to the other vehicle in a collision. It is also designed to reduce injuries to pedestrians in the event of a collision.

Honda's original collision safety technology: G-Force Control

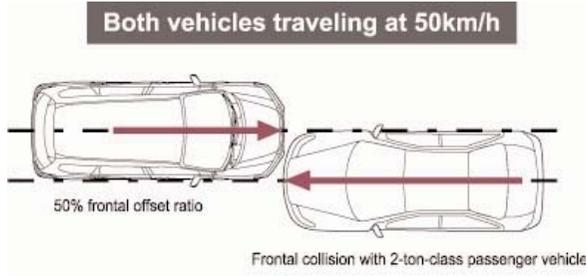


Reducing the level of injury while securing a crush-proofed occupant protection zone

Barrier collision tests involving a 55km/h full-frontal collision, a 64km/h front offset collision, a 55km/h side collision and a 50km/h rear collision were used to develop a body that helps absorb the impact force to reduce the level of injury to vehicle occupants while at the same time securing a crush-proofed occupant zone. To further enhance safety in real-world collisions, Honda has implemented its own car-to-car collision testing program with its own independently-established standards. Testing involves a 50% front-offset collision with a 2-ton class passenger vehicle, both vehicles travelling at 50km/h.



Collision safety technologies help reduce the level of injury while securing a crush-proof occupant protection zone

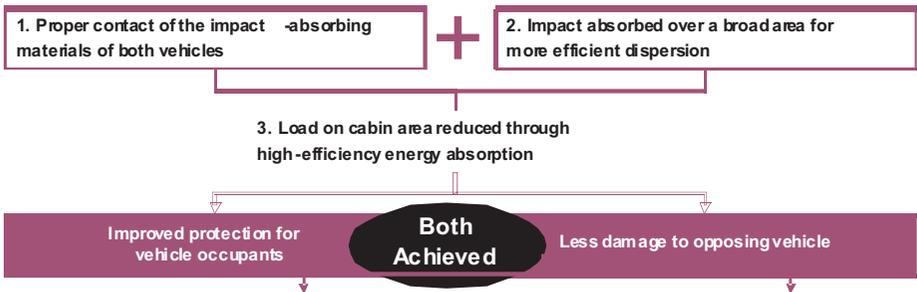


Car-to-car collision testing

Advanced Compatibility Engineering (ACE) Body: enhancing protection of vehicle occupants while mitigating damage to other vehicle

In an effort to further enhance collision safety performance, Honda has continued to develop technologies that not only offer more protection to vehicle occupants, but also minimise damage to the other vehicle. Target values were achieved through repeated testing in three key areas: proper contact of the impact-absorbing areas of both vehicles; more efficient dispersion of impact forces; and high-efficiency energy absorption. High-efficiency energy absorption in the engine compartment ensures a high level of protection for vehicle occupants, while at the same time mitigating damage to the other vehicle.

Advanced Compatibility Engineering (ACE) Body design concept



Car-to-car collision testing

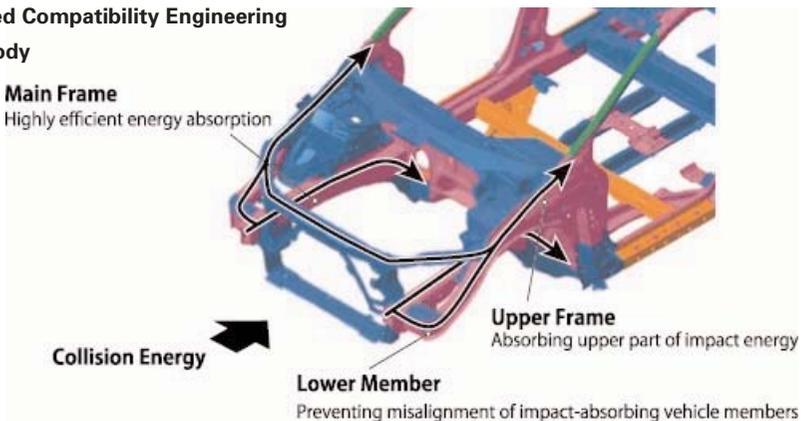


Advanced Compatibility Engineering (ACE) Structure implemented to create high-efficiency energy absorbing body

The lower member is designed to contact with the impact-absorbing materials of the opposing vehicle in a frontal collision and to absorb the impact over a broader area, thereby achieving a higher level of impact energy absorption for a major reduction in load transfer to the cabin area. This construction not only provides increased protection to vehicle occupants, but also minimises the damage to the other vehicle.

In addition, the main frame is constructed of two layers of steel plate of differing strengths bonded together using tailored blank welds, with appropriately positioned longitudinal beads to control impact load. The engine compartment is designed to efficiently absorb impact energy, while the body frame employs high-tensile steel in vital areas to ensure highly efficient energy absorption for collisions from all directions.

Advanced Compatibility Engineering (ACE) Body



Pedestrian injury reduction body with impact-absorbing construction to mitigate head and leg injuries

The body is designed to help absorb energy in the event of a collision with a pedestrian, especially in the front of the vehicle, where the potential for harm is greatest. Honda sets its own, independent standards for reducing injuries to pedestrians' legs and other areas, surpassing many government regulations.

Features of the pedestrian injury reduction body

- **Shock-absorbing bonnet hinge structure**

Easily deformed bonnet hinges

- **Shock-absorbing wiper**

Detachable wiper arm helps absorb shock

- **Shock-absorbing bonnet**

Optimised space between the bonnet and the engine provides the space needed to help absorb shock

- **Shock-absorbing bumper**

Optimised bumper beam configuration provides the space needed to help absorb shock during a collision

- **Shock-absorbing guard**

Easily deformed guard attachment points help absorb shock



Side-curtain airbag system helps mitigate head injuries due to a side collision in all three rows

The curtain airbag system, standard on all 2009 Odyssey models, is designed to rapidly deploy in the event of a side collision to help protect the head and neck of occupants, in all three rows. In particular, it is designed to help protect the head from collisions with the door pillar. The large airbag covers almost the entire side window area. Sensors located on both sides of each row of seats as well as in the centre of the front and rear of the Odyssey, detect side collisions and determine the optimum timing for deployment of both the side and side-curtain airbag system for the driver and front-seat passenger.

Front-row side airbag system (with Occupant Positioning Detection System)

Sensors located on each side and in the centre of the vehicle detect a side collision and determine the optimum timing for deployment. The built-in Occupant Position Detection System determines the physique and position of the passenger-seat occupant to precisely regulate deployment.

Driver and front passenger dual stage airbag system

The airbag operating program is designed to detect and determine the conditions of an impact with better accuracy. Airbag deployment is controlled in two stages, using dual inflators that are ignited either simultaneously in the event of a major impact, or sequentially if the collision is less severe.

Airbag system operation

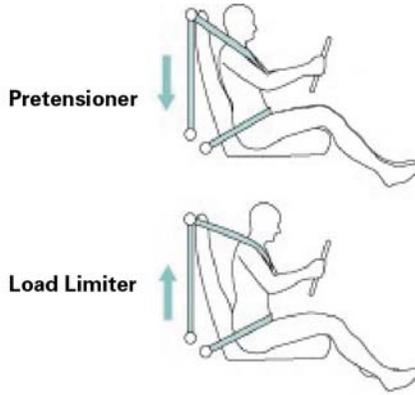


(Photo shows the deployment of the driver and front passenger airbag system, the front-row airbag system and the side-curtain airbag system).

3-point seatbelts (for all occupants) with pre-tensioner and load limit for driver and front passenger seats

The pre-tensioner instantaneously retracts the seatbelt on detection of a significant frontal impact, then the load limiter provides a small amount of slack when a pre-determined load is reached to reduce the load on the occupant's chest and other areas.

Passenger restraint during impact



High-Intensity Discharge (HID) headlights enhances security for night driving (low beam with auto-levelling)

HID headlights (standard on the Luxury Odyssey) provide long-distance illumination, adding greater safety and security when driving in the rain or at night. They are auto-levelling and automatically adjust the headlight beam's vertical alignment to compensate for extra passengers or luggage and auto-light control, which turns the headlights on and off as the ambient light increases or decreases.

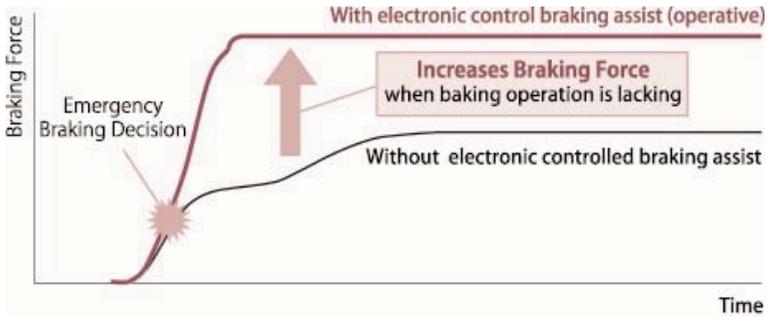
HID headlights (low beam, with auto-levelling)



Electronic brake assist provides extra force during emergency braking

Electronic brake assist permits more precise braking control and operates in coordination with seatbelt pre-tensioners. It detects speed and the force of brake pedal depression to determine an emergency braking situation, then it boosts brake pressure to assist braking. It is also equipped with a learning function that automatically adjusts the assist operation threshold in accordance with the driver's braking habits.

Image of operation of electronic brake assistance



Environmental Responsibility

- ***Setting high environmental standards for sustainability***
- ***Over 90% recyclability***

Materials are selected for their recyclability and environmental compatibility. Highly recyclable olefin resins are used in almost all interior and exterior plastic components. Use of PVCs (polyvinyl chlorides) have been significantly reduced to ensure a shredder dust chloride concentration of less than 1%. Materials such as rubber and plastic components with recycling codes have contributed to making over 90% of the vehicle recyclable

(Calculated based on 1998 Japan Automobile Manufacturers Association, Inc. guidelines for defining and calculating new-vehicle recyclability)

Reduction of environmental load substances

Honda is making every effort to reduce the use of four heavy metals (lead, mercury, cadmium, and hexavalent chromium), which are said to have adverse effects on the environment.

2009 Odyssey Specifications

FEATURES	Odyssey	Odyssey Luxury
Powertrain		
Engine type/description	Petrol 2.4 litre DOHC i-VTEC in line 4-cylinder 4 valves per cylinder	Petrol 2.4 litre DOHC i-VTEC in line 4-cylinder 4 valves per cylinder
Displacement (cc)	2354	2354
Maximum power	132kW @ 6500rpm	132kW @ 6500rpm
Maximum torque	218Nm @ 4500rpm	218Nm @ 4500rpm
Compression ratio	10.5 : 1	10.5 : 1
Bore x stroke (mm)	87.0 x 99.0	87.0 x 99.0
Emission standard	Euro 4	Euro 4
CO² emissions (g/km)	212	212
Automatic transmission	5 Speed with Grade Logic Control and Shift Hold	5 Speed with Grade Logic Control and Shift Hold
Gear ratios		
- 1st	2.651	2.651
- 2nd	1.516	1.516
- 3rd	1.081	1.081
- 4th	0.772	0.772
- 5th	0.566	0.566
- Reverse	2.000	2.000
- Final drive ratio	4.437	4.437
Fuel type	Unleaded 91 RON	Unleaded 91 RON
Fuel tank capacity (litres)	60	60
Fuel supply system	Honda Programmed Fuel Injection (PGM-FI)	Honda Programmed Fuel Injection (PGM-FI)
Fuel consumption - (litres/100km)*		
- combined*	8.9	8.9
- urban*	12.1	12.1
- extra urban*	7.1	7.1
Drive by wire throttle (DBW)	✓	✓
Chassis		
Body type	Monocoque	Monocoque
Front & Rear suspension type	Independent double wishbone coil spring with stabiliser	Independent double wishbone coil spring with stabiliser
Stabiliser bars	Front and rear	Front and rear

	Odyssey	Odyssey Luxury
Steering system type	Rack and pinion with electrical power assistance	Rack and pinion with electrical power assistance
Front brakes	Ventilated disc	Ventilated disc
Rear brakes	Solid disc	Solid disc
Exterior		
Aero FR & RR bumper	◆	✓
Aero side sill garnish	◆	✓
Automatic on/off headlights	-	✓
Body coloured bumpers	✓	✓
Door handles	Chrome	Chrome
Exhaust	Dual	Dual
Electric sunroof	-	✓
Fog lights	◆	✓
Headlights	Halogen	HID (with washer)
- beam height adjustment	-	Automatic
Keyless entry	✓	✓
Powered body coloured door mirrors with indicators	✓	✓
Rear window demister	✓	✓
Windshield wipers		
- front	2-speed and variable intermittent with speed-sensing	2-speed and variable intermittent with speed-sensing
- rear	Intermittent (linked reverse gear)	Intermittent (linked reverse gear)
Interior		
Accessory power outlet (12v)	✓	✓
- location	centre table	centre table
Air conditioning	Climate control with rear ventilation	Tri-zone climate control
Aluminium side step garnish	◆	✓
Ashtray	✓	✓
Cigar lighter	✓	✓
Comprehensive interior illumination	✓	✓
Cruise control	✓	✓
Cup holders		
- number of cup holders	x6	x6
- number of bottle holders	x4	x4
Digital clock	✓ (in radio)	✓ (in radio)

	Odyssey	Odyssey Luxury
Door pockets	All doors	All doors
Driver's footrest	✓	✓
Driver seat		
- manual height adjustment	✓	-
- power adjustment (8-way)	-	✓
Dust & pollen filter	✓	✓
Foldable centre table	1st row seats	1st row seats
Front door lining illumination	-	✓
Head restraints	x7	x7
Heated front seats	-	✓
Leather+ wrapped gear shift knob	◆	✓
Leather+ wrapped steering wheel	◆	✓
Information display		
- instant fuel economy (litres/100km)	✓	✓
- average fuel economy (litres/100km)	✓	✓
- distance to empty	✓	✓
- outside temperature indicator	✓	✓
- odometer	✓	✓
- trip meter (Trip A/Trip B)	✓	✓
Lights-on warning	✓	✓
Low fuel warning	✓	✓
Power windows	✓	✓
- auto up/down	Driver only	Driver only
Seats		
- 1st row	Fully reclining	Fully reclining
- 2nd row	60 / 40 split with fold down	60 / 40 split with fold down
- 3rd row	Retractable	Power retractable
Seat armrest		
- driver & front passenger seats	✓	✓
- rear seat centre (2nd row)	✓	✓
Seat back pocket	Driver & front passenger	Driver & front passenger
Seat trim material	Cloth	Leather+
Seatbelt height adjuster	Front seats (1st row)	Front seats (1st row)
Steering column	Tilt and telescopic adjustment	Tilt and telescopic adjustment
Tachometer	✓	✓
Vanity mirror	Driver and front passenger sunvisor	Driver and front passenger sunvisor (with lights)
Windows	UV cut glass and heat absorbing	UV cut glass and heat absorbing

Odyssey

Odyssey Luxury

Safety

Active Head restraints	Driver and front passenger	Driver and front passenger
Advanced Compatibility Engineering (ACE)	✓	✓
Airbags		
- i-SRS - front	Driver and front passenger	Driver and front passenger
- i-SRS - side	Driver and front passenger	Driver and front passenger
- i-SRS - curtain	Full length	Full length
Anti-lock Braking System (ABS)	✓	✓
Central locking	✓	✓
Child proof door locks	✓	✓
Child safety seat anchorages	x5	x5
Brake Assist (BA)	✓	✓
Electronic Brake-force Distribution (EBD)	✓	✓
Front windscreen	Laminated	Laminated
Hazard warning lights	✓	✓
High mounted stop light	✓	✓
Honda G-Con technology	✓	✓
Immobiliser system	✓	✓
Park brake	Foot operated	Foot operated
Motion Adaptive EPS (MAE)	✓	✓
Progressive crumple zones	✓	✓
Rear view mirror	Day / night type	Day / night type
Seat belt with pre-tensioner and load limiter	Driver and front passenger	Driver and front passenger
Seat belt reminder	Driver	Driver
Seat belts 3 point ELR	All seating positions (x7)	All seating positions (x7)
Security alarm system	✓	✓
Side impact protection	✓	✓
Steering column	Energy absorbing type	Energy absorbing type
Transmission shift lock	✓	✓
Vehicle Stability Assist (VSA) with Traction Control System (TCS)	✓	✓

Dimensions/Weights/Capacities

Overall length (mm)	4810	4810
Overall width (mm)	1800	1800
Overall height (mm)	1545	1545
Wheelbase (mm)	2830	2830

	Odyssey	Odyssey Luxury
Track (mm)		
- Front	1560	1560
- Rear	1560	1560
Interior dimensions (mm)		
- Length	2850	2850
- Width	1536.5	1536.5
- Heights	1220	1183
Head room (mm)		
- Front	975.45	920.20
- Rear 2nd row	986.45	975.46
- Rear 3rd row	906.66	906.66
Ground clearance (mm)		
- non-load	149.6	149.6
- full-load	110	110
Kerb weight (kg)	1645	1700
Weight distribution (kg)		
- Front	935	955
- Rear	710	745
Maximum Permissible Weight (kg)	2270	2300
Maximum turning radius (metres)		
- at body	5.8	5.8
- at wheel centre	5.4	5.4
Maximum towing capacity (kg)		
- trailer with brakes	1000	1000
- trailer without brakes	450	450
- down force / tongue load	50	50
Boot capacity (litres) - VDA standard		
- 3rd row seat up	259	259
- 3rd row seat down	708	708
Seating capacity	7	7
Tyres & Wheels		
Wheel size (front & rear)	16 x 6.5JJ	17 x 7JJ
Tyre size (front & rear)	215/60R16 95H	215/55R17 94V
Wheel type	Alloy	Alloy
Spare wheel tyre size	T135/90D16	T135/90D16
Spare wheel type	Temporary tyre	Temporary tyre
Audio System		
AM/FM radio, single CD with MP3 & WMA	✓	-
AM/FM radio, 6 CD stacker with MP3	-	✓

	Odyssey	Odyssey Luxury
Antenna	In-glass type	In-glass type
Auxiliary jack	✓	✓
- Location	Centre table	In radio
Front door speakers	x2	x2
Front tweeters	x2	x2
Rear door speakers	x2	x2
Speed-sensitive volume compensation (SVC)	✓	-
Steering wheel mounted audio controls	✓	✓

Colour Guide

Exterior	Interior	Interior
Premium White (P)	Grey	Beige
Alabaster Silver (M)	Grey	Beige
Crystal Black (P)	Grey	Beige
Polished Metal (M)	Grey	Beige
Luminous Blue (P)	Grey	Beige
Deep Bordeaux (P)	Grey	Beige

* The fuel consumption figures quoted are based on ADR81/01 test results

+ Leather interior includes some PVC vinyl material

✓ Standard feature

- Not available

◆ Optional

Specifications correct as at 16/02/2009