

SAFETY

Safety has been thoroughly pursued from every angle. No opportunity has been overlooked to consider the safety of the passengers.

Active Safety

ABS (Anti-lock Brake System)
With EBD (Electronic Brake force Distribution)

The ABS system helps to prevent the tires from locking up, thereby ensuring vehicle performance and handling ability.
The EBD system distributes optimal breaking force to the front and rear tires in accordance with driving conditions. Furthermore, braking force is distributed to the left and right wheels during braking when cornering to ensure vehicle performance and superior braking power.

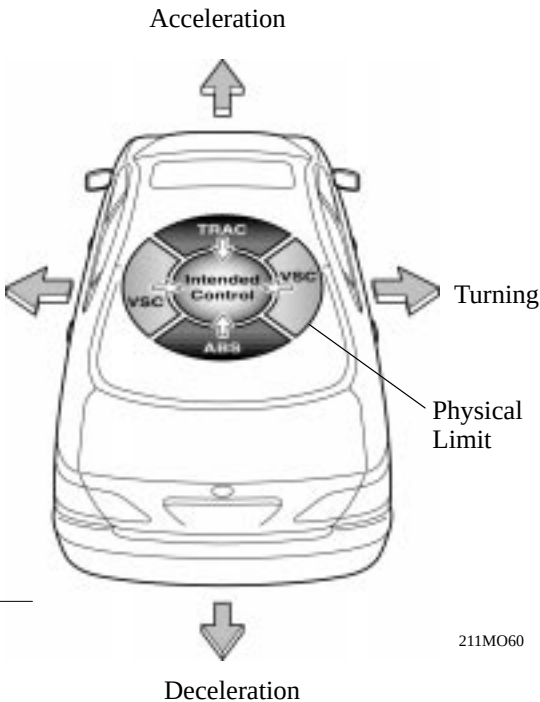
Item	Application
ABS w/EBD	Standard
ABS w/EBD, VSC, TRAC, Brake Assist	Option

Brake Assist

This system works in conjunction with the ABS to support drivers who are unable to apply the brakes fully during emergency braking and for drivers who tend to apply the brakes too lightly. When the brakes are applied rapidly, it is judged by the computer to be emergency braking and additional braking power is generated automatically by the system to ensure sufficient vehicle braking power.

TRAC (Traction Control)

In addition to controlling driving wheel slip on slippery road surfaces to help ensure driving force suited to road surface conditions, this system maintains accelerating ability at takeoff, forward mobility and turning performance.



211MO60

The TRAC, VSC and ABS system work cooperatively to bring the vehicle back into ordinary traveling conditions.

VSC (Vehicle Skid Control)

This system controls engine output and directly applies optimal breaking force to the front and rear wheels to help maintain intended vehicle directional control if it is about to be lost while cornering due to over- or under-steering.

CONCEPT

A high-class car that sets the world standard for the new century.

Embodying the essence of an emotional and elegant sedan . . . the LEXUS ES300.

Debuting with a myriad of innovations that contribute to increased value.

Everything a leading world-class car should be . . .

Harmonizing attractively with your lifestyle and community, the stately appearance of the LEXUS ES300 has evolved and matured.

Dynamic, flowing surfaces define the form, and the sophisticated interior evokes a sense of intelligence.

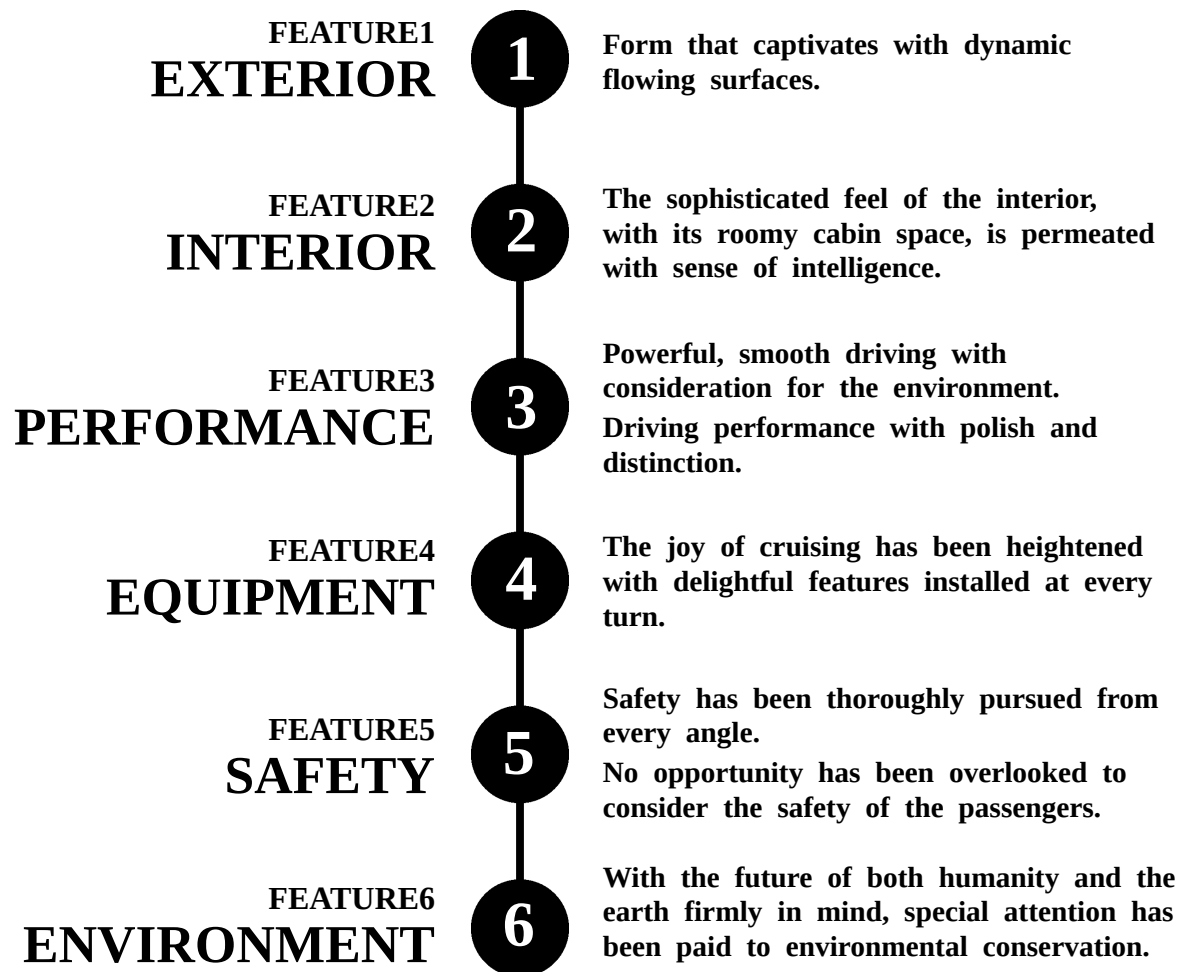
Add to that powerfully elegant handling and safety features that brook no compromise.

The ES300's overall polish and refinement inspire overwhelming satisfaction in every owner.

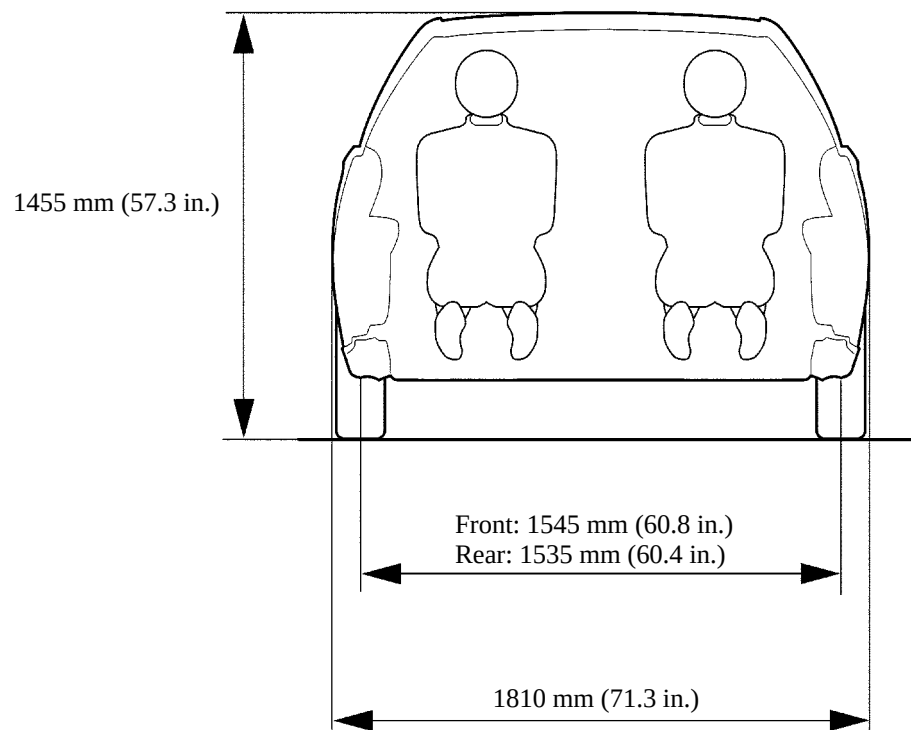
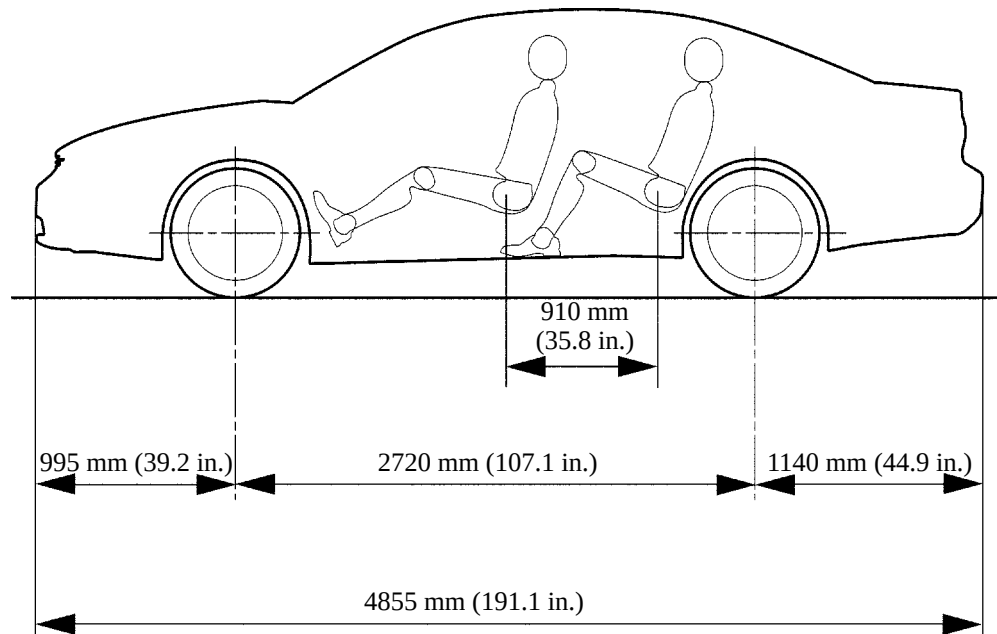


LEXUS ES300: Crystallization of evolution & maturation

Six features that offer ultimate satisfaction



DIMENSIONS

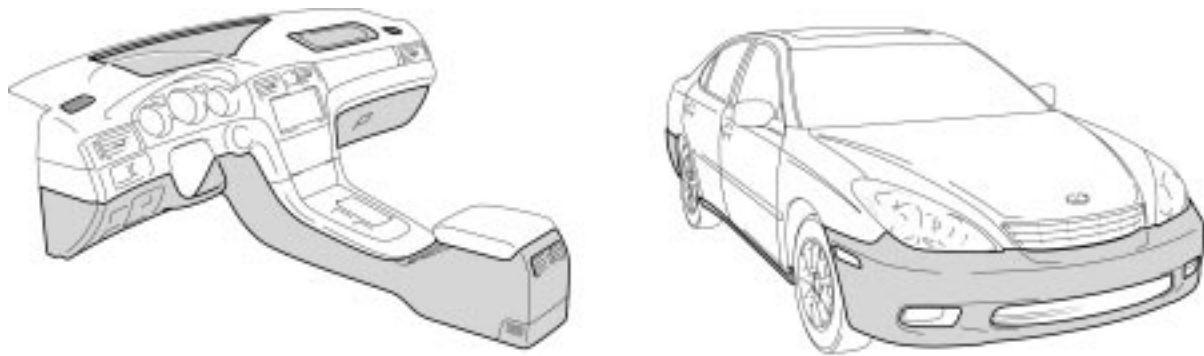


ENVIRONMENT

With the future of both humanity and the earth firmly in mind, special attention has been paid to environmental conservation.

TSOP & Kenaf Material

- TSOP (The Super Olefin Polymer) and TPO (Thermoplastic Olefin), both materials offering excellent recyclability, have been extensively used throughout the vehicle as an environmental protection measure.



■ : TSOP Material

211MO63

***TSOP material:**

This material is easy to recycle; because its relative density is low, a reduction in weight is possible. It is utilized as a substitute for PP (polypropylene).

- Kenaf* material, with similar quality to wood pulp, has been utilized as the core material for the package tray trim in an effort to protect the earth's forests.

***Kenaf material:**

This material, which uses the fiber of 1-year old Kenaf grass as its raw material, is receiving acclaim as it can be used in place of wood pulp. If this material were to be widely used in place of pulp, it would contribute to the protection of the world's forests.

PVC-Free Parts

PVC (PolyVinyl Chloride), which contains chlorine, is said to be a cause of the environmental pollutant dioxin. The use of PVC in the following parts has been discontinued.

PVC-Free Parts:

- Sound insulating under body coating
- Dash silencer pad
- Floor tunnel silencer
- Room partition board
- Door opening trim
- Door glass run
- Door outside molding
- Rear wheel house liner
- Moon roof drain hose (front side)

Reduction in the Amount of Lead Used

To help protect the environment, the amount of lead used has been reduced and through development of lead-free parts has been implemented.

The amount of lead used in one ES300 has been reduced to about one-third of the average amount of lead used in 1996.

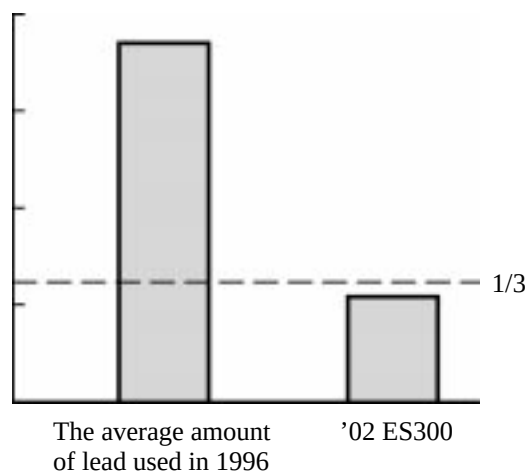
Main lead-free parts:

- Body paint (electrodeposited coating)
- Window glass ceramic sunshade
- Bulbs
- Front axle hub
- Heater core

Main parts with reduced lead:

- Wheel Balance Weight

Amount of Lead Used

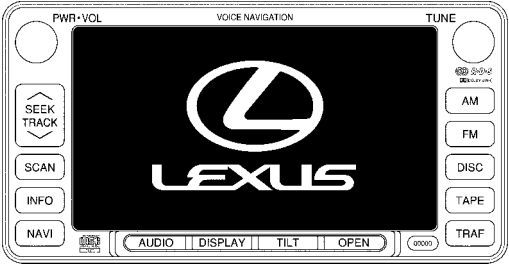
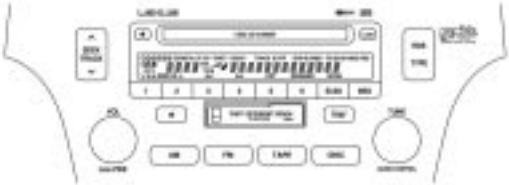
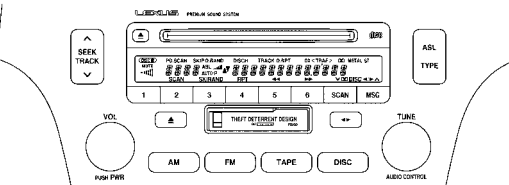


Audio System

Realistic, refined sound that transports you into your own personal space.

- A clean, symmetrical head unit layout has been achieved through the adoption of large, easy-to-use switches.
- The LEXUS Premium Sound System with a power amplifier (max. 440W) and speakers from Mark Levinson, famous for products in the high end of the home audio market, is available as an option.

<Head Unit Specification>

Design	Specification	Application
 211MO69	• AM/FM tuner • Cassette player • CD Player with CD Text function • RDS (Radio Date System) with RT (Radio Text) function • Separate Power Amplifier and 7-speaker System (Mark Levinson version available)	Option
 211MO42 Figure for Mark Levinson Version	• AM/FM tuner • Cassette player • In-dash- 6-CD Changer • ASL (Automatic Sound Levelizer) with ON/OFF selection possible • RDS (Radio Date System) with RT (Radio Text) function • Separate Power Amplifier and 7-speaker System (Mark Levinson version available)	Option
 211MO70	• AM/FM tuner • Cassette player • CD Player • ASL (Automatic Sound Levelizer) with ON/OFF selection possible • Separate Power Amplifier and 7-speaker System	Standard

<Speaker Layout>

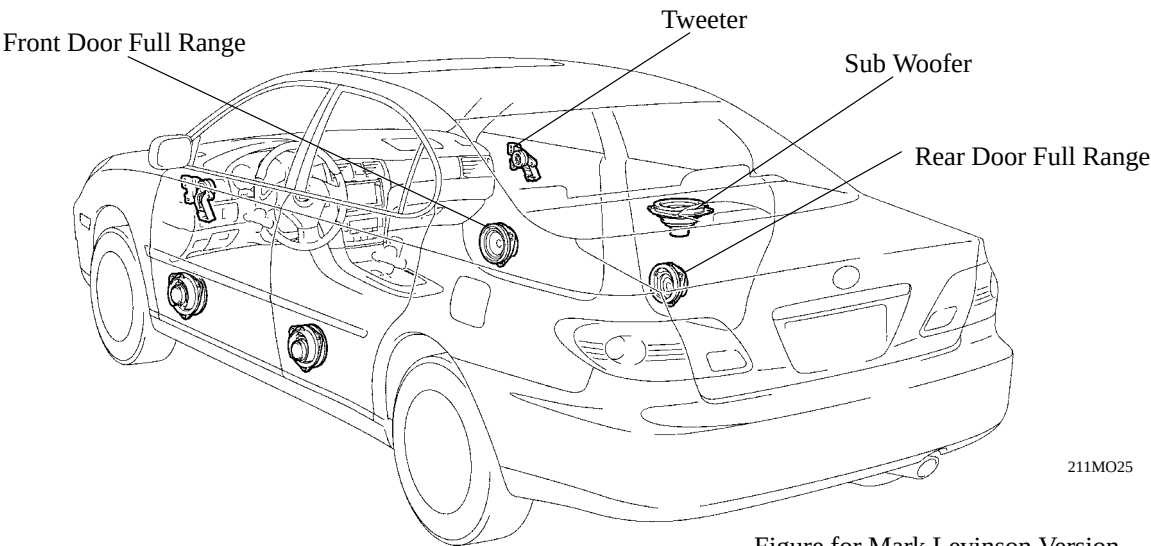


Figure for Mark Levinson Version

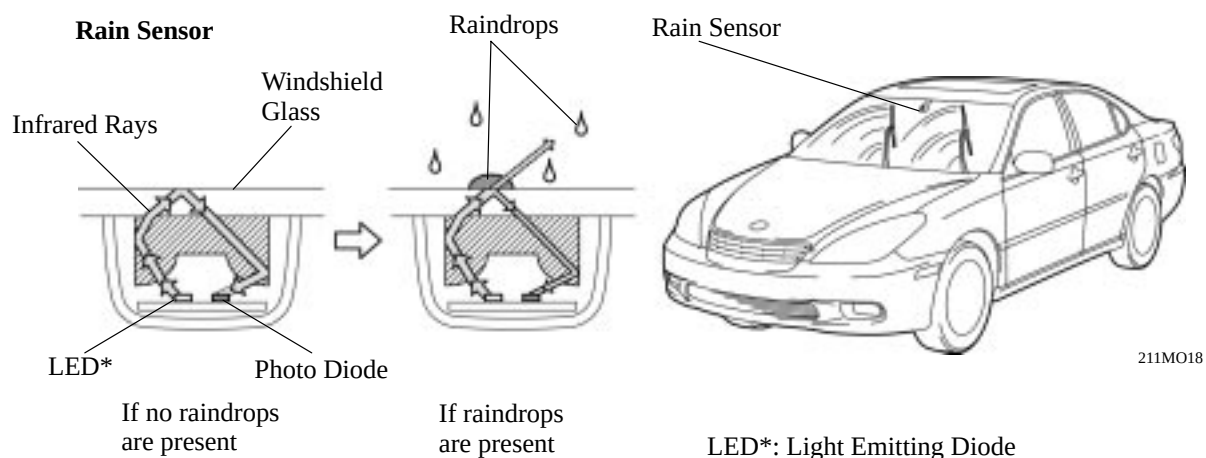
<Speaker Specifications>

	Manufactured by Mark Levinson (Option)			Manufactured by Pioneer (Standard)		
	Caliber (in.)	Impedance	Input Rating	Caliber (in.)	Impedance	Input Rating
Tweeter	20 mm (0.8)	8 Ω	55 W or more	25 mm (1.0)	4 Ω	17.5 W
Front Full Range	16 cm (6.3)	8 Ω	55 W or more	16 cm (6.3)	4 Ω	17.5 W
Rear Full Range	12 cm (4.7)	8 Ω	55 W or more	16 cm (6.3)	4 Ω	17.5 W
Sub Woofer	20 cm (7.9)	16 Ω	110 W or more	20 cm (7.9)	2 Ω	30 W

Wiper System

Raindrop Sensing Function

A function which utilizes a rain sensor to detect the volume of rain drops hitting the windshield surface and operates the wiper blades at the optimum wiping interval is available as an option. For example, when the wiper switch is in the AUTO position, the wipers operate automatically when water splashed up by an oncoming vehicle suddenly hits the windshield, obstructing visibility.



Washer System

Spray type Washer Nozzle

A spray-type washer nozzle has been adopted. Washer fluid sprays over a wide area, resulting in excellent wiping performance. The volume of fluid delivered to the center of the spray pattern that is close to the driver's field of vision has been lessened, in consideration of eliminating obstacles in the field of vision. In addition, the amount of washer used in one spray has been reduced to make maintenance easier.

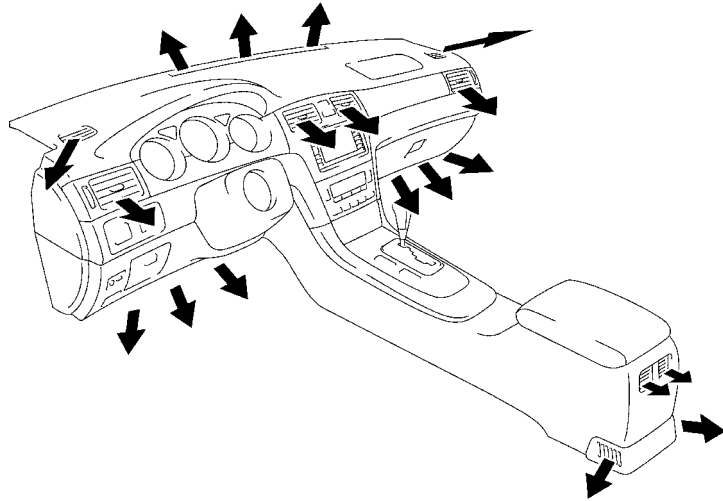


Air Conditioning System

The temperature settings of the automatic air conditioning system for the driver's side and front passenger's side can be adjusted separately.

Additionally, a clean air filter has been provided to enhance cruising comfort.

- The temperature settings of the automatic air conditioning system for the driver's side and front passenger's side can be adjusted separately.
- The front foot duct is a distributed blowing type, to improve the comfort of those in the front seats. Air is apportioned to outlets in three directions so as to be distributed to the inner and outer leg area of driver and front passenger.
- The rear foot duct and the rear face duct are positioned at the rear end of the console box, to improve the comfort of the rear passengers.



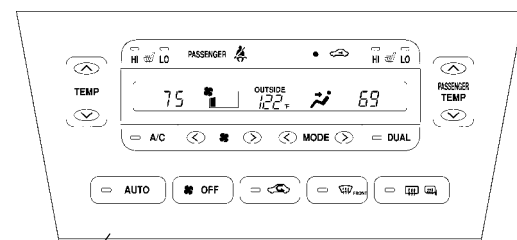
211MO41

Air Conditioning Control Panel

The elegantly chrome plated air conditioning panel incorporates large, easy-to-operate switches and a large LCD display, in order to improve ease of operation.

The panel is equipped with a security indicator, seat belt warning indicator, and seat heater switch*.

*: With seat heater system



Chrome Plated

U.S.A. Models

211MO30

Clean Air Filter

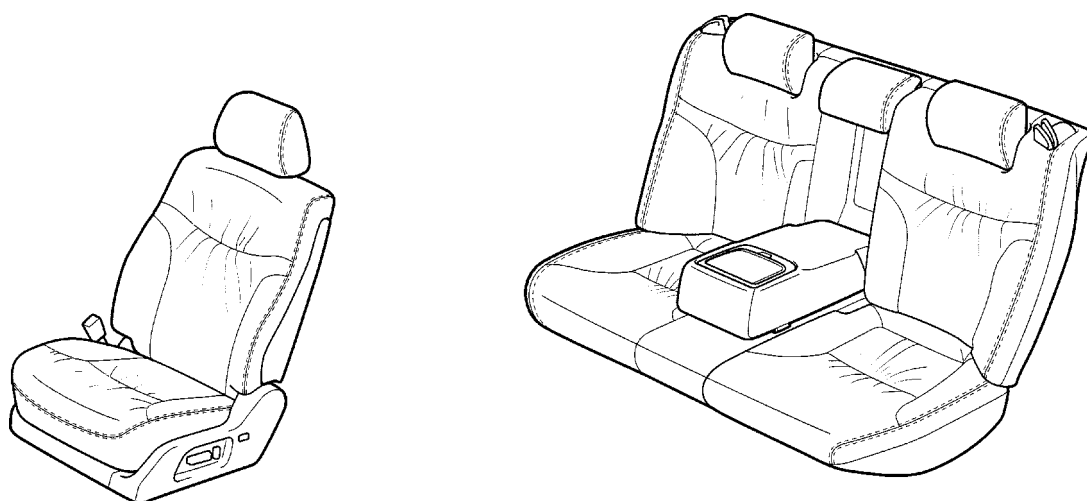
A clean air filter, which not only removes the pollen and dust from the air, but also contains a deodorizing function and a device that absorbs acetaldehyde, the origin of the bad smell of diesel engine exhaust gas, has been adopted.

Seat

Elegant seats of generous proportions in perfect harmony with the interior packaging.

Affords the driver and passengers with comfort and graciousness.

Fabric seats are standard equipment; leather covering (manufactured by the U.S.A. leather supplier, Garden State Tanning) seats are available as an option.

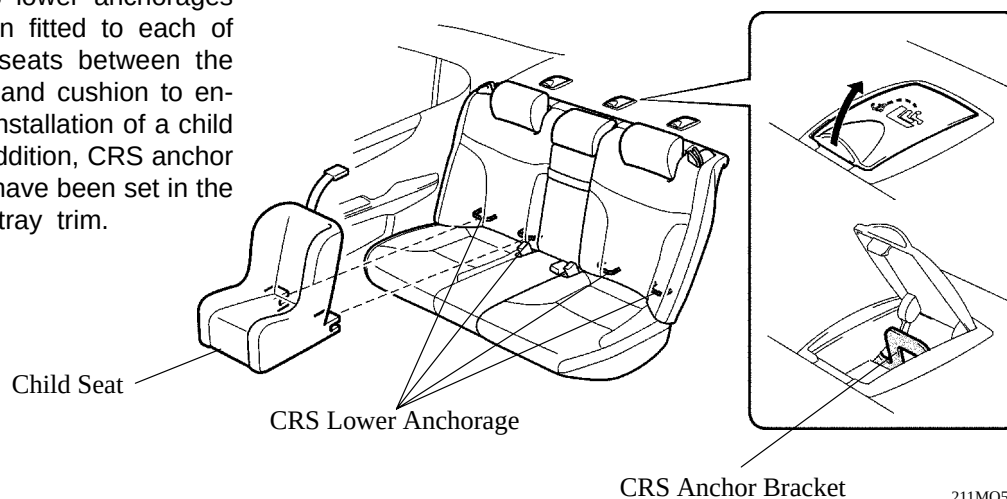


Optional Leather Models

211MO19

CRS (Child Restraint System) Anchor System

Two CRS lower anchorages have been fitted to each of the rear seats between the seatback and cushion to enable the installation of a child seat. In addition, CRS anchor brackets have been set in the package tray trim.



211MO52

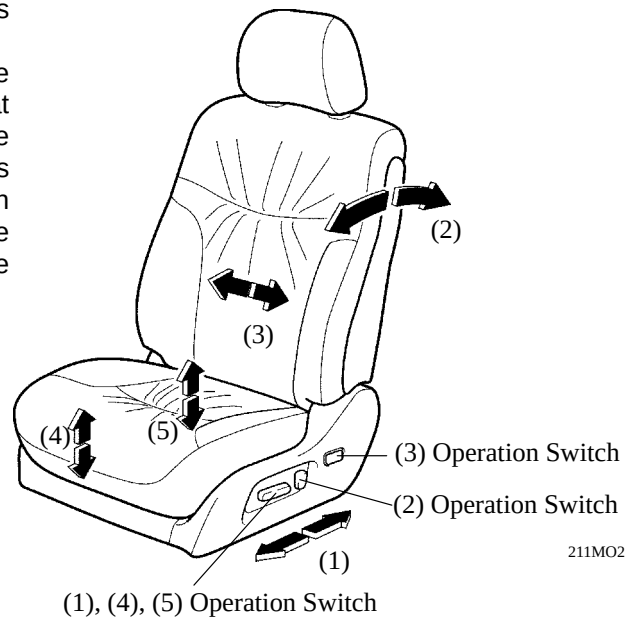
Seat Heater System

Optional heaters for the front seats are individually controlled for both the driver's and front passenger seats.

Power seat & Memory System

- Power seats are provided for the driver's and front passenger seats.
- Two desired positions for the outside rear view mirrors and the driver's seat (except lumbar support position) can be stored in the memory. These positions can be returned to the stored position at the touch of a switch located on the door trim of the driver's side. (Available as an option)

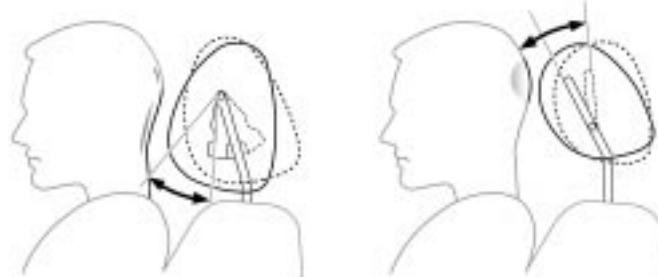
- (1): Slide Adjuster
 (2): Reclining Adjuster
 (3): Lumbar Support Adjuster
 (4): Front Vertical Adjuster
 (5): Rear Vertical Adjuster



211MO21

Front Seat Headrest

The pivot point of the headrest has been moved higher. The lower part of the headrest can be adjusted to fit against the head to provide greater comfort.



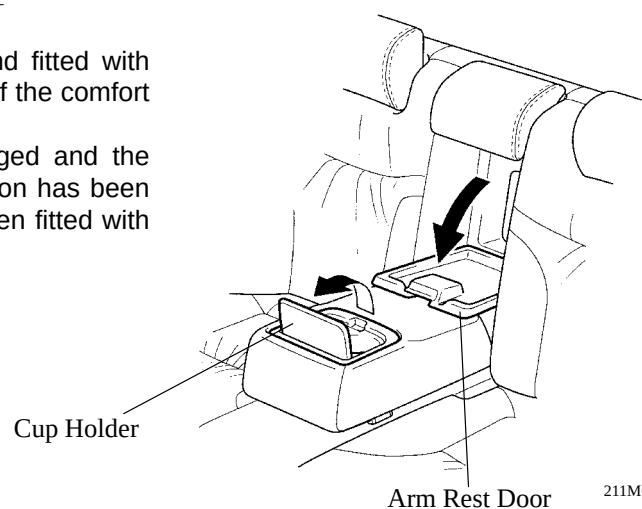
New

Previous

211MO20

Rear Arm Rest & Trunk Storage Extension

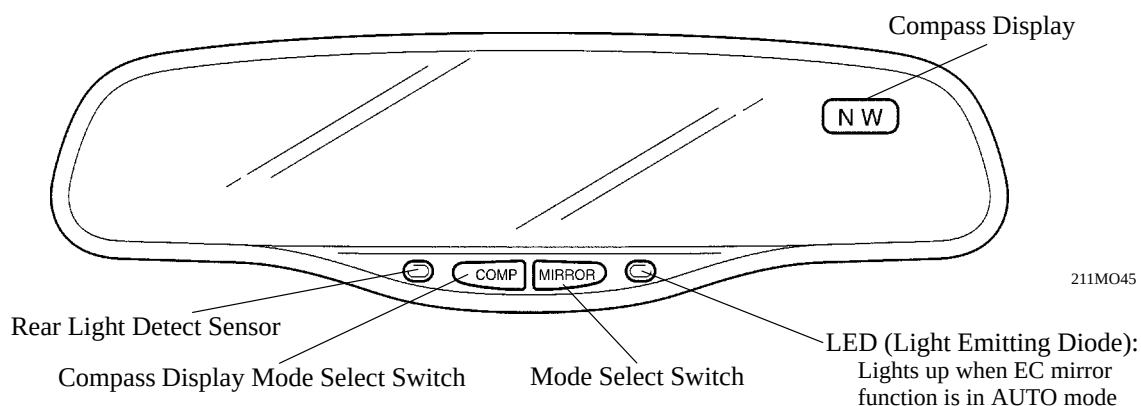
- The arm rest has been widened and fitted with a large cup holder, in consideration of the comfort of the rear passengers.
- The arm rest door has been enlarged and the usability of the trunk storage extension has been improved. The arm rest door has been fitted with an antitheft key cylinder.



211MO68

Inside Rear View Mirror

- Convenience has been improved with the inside rear view mirror, with its automatic glare-resistant EC (electrochromic) mirror equipped with a built-in compass.
- A compass function that indicates the vehicle's travelling direction (8 directions: N, S, E, W, NE, NW, SE, SW) in the upper right portion of the mirror has been incorporated.

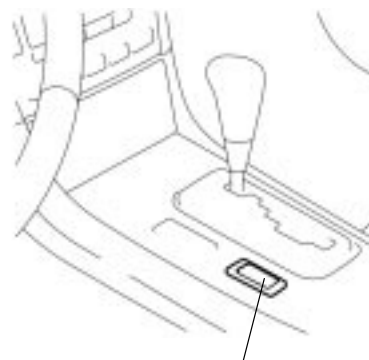


Outside Rear View Mirror

The outside rear view mirror has been shaped to minimize wind noise and is equipped with the following functions: electrical remote control type mirror with position memory function, automatic glare-resistance EC (Electrochromic) mirror, rear window defogger-linked mirror heater.

Rear Sunshade

- A rear sunshade that reduces the amount of direct sunlight entering through the rear window is available as an option, in order to improve comfort for rear passengers.
- To ensure rear view visibility, the rear sunshade is normally retracted in the package tray trim. It can be operated with switches. Furthermore, when the vehicle is reversing, the sunshade retracts automatically to ensure rear view visibility.

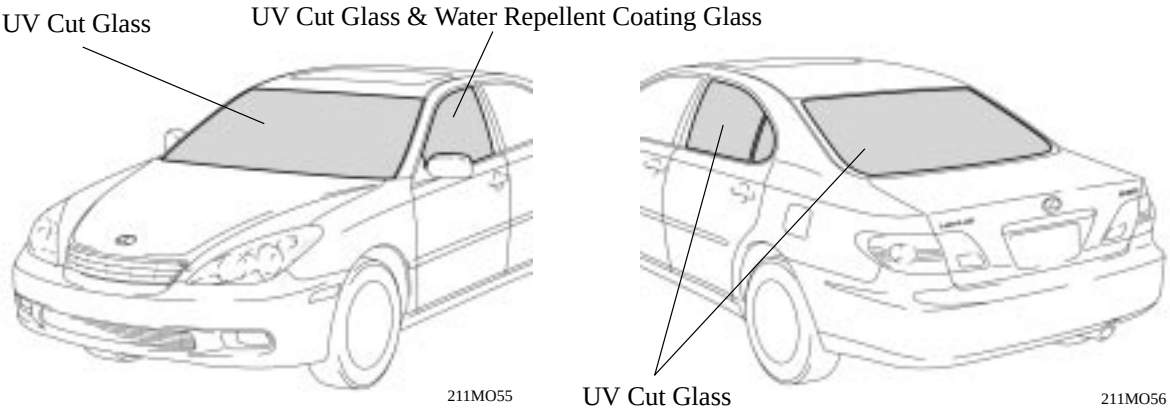


Rear Sunshade Operation Switch

211M022

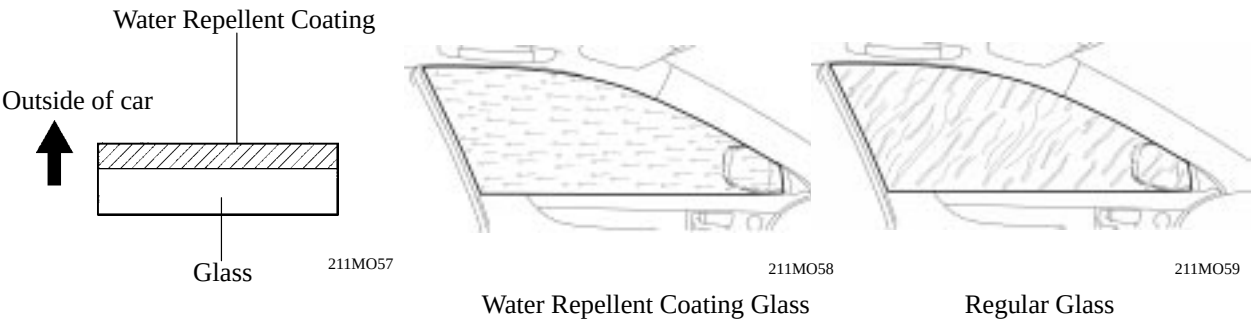
UV (Ultraviolet) Cut & Water Repellent Coating Glass

- UV (Ultraviolet) cut glass containing properties which blocks the ultraviolet and infrared rays in the sunlight has been adopted to prevent sunburn caused by ultraviolet rays and to reduce the scorching hot sensation caused by infrared rays.



Glass Portion	Windshield	Front Door	Rear Door	Back
UV Reduction Rate	100%	92.2%	90.2%	90.3%

- Doors are fitted with water repellent coating glass to increase visibility in rain.



Vanity Mirror

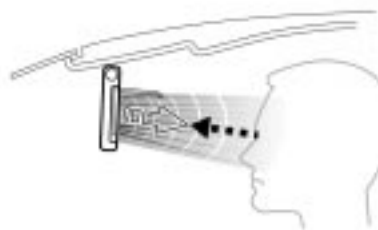
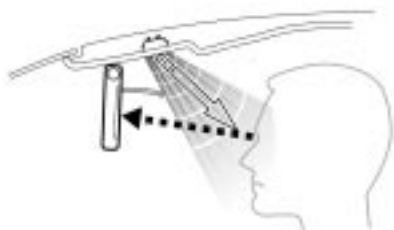
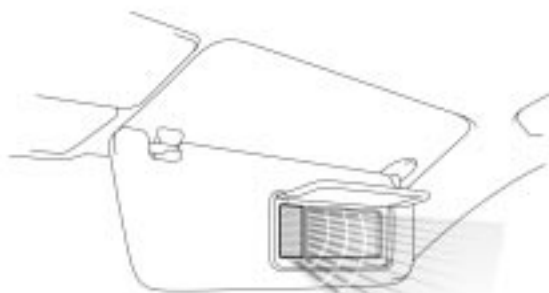
A light has been positioned in the ceiling to illuminate the face of the person using the vanity mirror, increasing usability.

The light is equipped with a function that causes it to go off automatically when the sun visor is put away, in consideration of preventing problems caused by forgetting to turn it off.

'02 ES300



'01 ES300



211M053

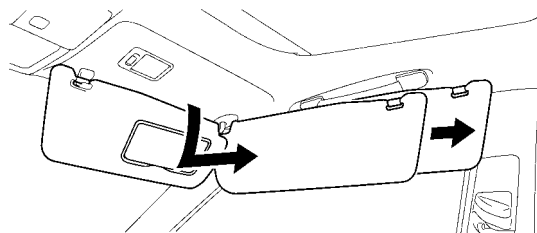
Previous: The light was positioned next to the vanity mirror; it shone directly into the user's eyes.

New: As a result of being positioned in the ceiling, the light no longer shines into the user's eyes, reducing glare.

Sun Visor

A sun visor has been adopted that can, after being swung to the side according to the angle of the sun's rays, be slid toward either the front or the back of the vehicle.

Sun blocking effect have been improved.



211M054

Power Window System

All power windows are equipped with key-off operation function and one-touch auto up and down with jam protection.

Moon Roof

A tilt-and-slide type moon roof with "one-touch sliding open-and-close", "one-touch tilt up-and-down" and "jam protection" functions is available as an option.

Theft Deterrent System

When any attempt is made to forcibly enter the vehicle, open the engine hood or luggage door, or unlock any door without a key, or when the battery terminals are disconnected and then reconnected, this system sounds the vehicle's horn and security horn, lights the interior light, and flashes hazard lights, taillights and headlights to deter illegal or mischievous activities. In addition, the system locks all doors if any door is unlocked while the alarm is activated.

Engine Immobiliser System

The engine immobiliser system is a theft prevention device which does not allow the engine to be started by any means other than with the ignition key with corresponding pre-registered ID code.

The system is constructed so that the engine will only start when the ID code of the transponder chip embedded in the key matches the code registered in the ECM.

Door Lock Control System

The following functions have been newly adopted as standard equipment.

- One-motion open function: The function which enables the driver or front passenger to unlock the driver's or front passenger's door by pulling the door's inside knob.
- Manual unlock prohibition function: Performing the door lock operation with a transmitter or an ignition key will prohibit the unlock operation by the door lock control switch.
- Shift-linked automatic door lock function^{*1*2}: All the doors are locked automatically when the shift lever is changed from the P position to any other position with the ignition switch in the ON position.
- Shift-linked automatic door unlock function^{*1*3}: All the doors are unlocked automatically when the shift lever is changed to the P position with the ignition switch in the ON position.
- Speed-sensitive automatic door lock function^{*1*3}: All the doors are locked automatically at 20 km/h (12 mph) or higher vehicle speed.
- Ignition switch-linked automatic door unlock function^{*1*3}: All the doors are unlocked automatically when the driver's door is closed, by turning the ignition switch from ON to OFF position and opening the driver's door within 10 seconds.
- Collision door lock release function: If there is a collision, which would trigger deployment of the airbags, the door locks on all doors are released to aid rescue of the occupants.

^{*1}: The operability of this function can be changed using the customized body electronics system.

^{*2}: Initial Setting, ON

^{*3}: Initial Setting, OFF

EQUIPMENT LIST

●: Standard OP: Option

Exterior

UV (Ultraviolet) Cut & Water-Repellent Coating Glass	●
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Chassis

Tire (P 215/60 R 16)		●
Disc Wheel (16 × 6 1/2JJ-50)	Aluminum and Silver Painted	●
	Aluminum and Chrome Plated	OP
ABS (Anti-lock Brake System) with EBD (Electronic Brake force Distribution)		●
Brake Assist & TRAC (Traction Control) & VSC (Vehicle Skid Control)		OP
Steering	Power Steering System (Engine Revolution Sensing type)	●
	Manual Tilt Steering	●
	3-Spoke Steering Wheel (Leather)	●
	3-Spoke Steering Wheel (Combination of Wood & Leather)	OP
Electric Modulated Suspension		OP

Body

Seat Covers	Fabric	●
	Leather (Manufactured by Garden State Tanning)	OP
Front Seat Belt	Pretensioner & Forcelimiter & Tension Reducer	●
	Driver seat: ELR* ¹ , Passenger Seat: ELR* ¹ /ALR* ²	●
Rear Seat Belt	3-point ELR* ¹ /ALR* ² Seat Belt	●
CRS (Child Restraint System) Anchor System		●

Body Electrical

Headlight	Halogen	●
	HID (High Intensity Discharge)	OP
Daytime Running Light System		●
Headlight Beam Level Control System		OP
Front Fog Light		●
Automatic Light Control System	Light Auto Turn-OFF & Auto Position Function	●
Illuminated Entry System		●
Wiper System	Washer-Linked Wiper Function	●
	Washer-Linked Wiper with Raindrop Sensing Function	OP
Air Conditioning System	Right/Left Independent Temperature Control Automatic Air Conditioning	●
	Clean Air Filter	●

*¹: Emergency Locking Retractor *²: Automatic Locking Retractor

●: Standard OP: Option

Body Electrical

LEXUS Navigation System		OP
Compass		●
Multi-Information Display		●
Power Window System	All-Door One-Motion Auto Up-and-Down, Jam Protection Function	●
Power Door Lock / Wireless Door Lock Remote Control System	Front Door Key-Linked Lock Function	●
	Shift-Linked Automatic Door Lock Function	●
Engine Immobiliser System		●
Theft Deterrent System		●
SRS* ³ Airbag System	Driver & Passenger & Side & Curtain Shield Airbags	●
Cruise Control System		●
Power Front Seats	Both Driver & Front Passenger Seats	●
Memory System (Driver's Seat, Outside Rear View Mirrors)		OP
Seat Heater	For Driver & Front Passenger	OP
Outside Rear View Mirror	Electrical Remote Control Mirrors with Heater	●
	Automatic Glare-Resistant EC (Electrochromic) Mirror	●
Inside Rear View Mirror	Automatic Glare-Resistant EC (Electrochromic) Mirror with Compass	●
Radio with AM/FM/ Cassette/CD/7-Speakers	Standard (Manufactured by Pioneer)	●
	Standard (Manufactured by Pioneer)* ⁴	OP
	LEXUS Premium Sound System (Manufactured by Mark Levinson)* ⁴	OP
Radio with AM/FM/ Cassette/In-dash 6-CD Changer/7-Speakers	LEXUS Premium Sound System (Manufactured by Mark Levinson)	OP
	Standard (Manufactured by Pioneer)	OP
Rear Electrical Sunshade		OP
Moon Roof		OP

*³: Supplemental Restraint System *⁴: With LEXUS Navigation System

EQUIPMENT

The joy of cruising has been heightened with delightful features installed at every turn.

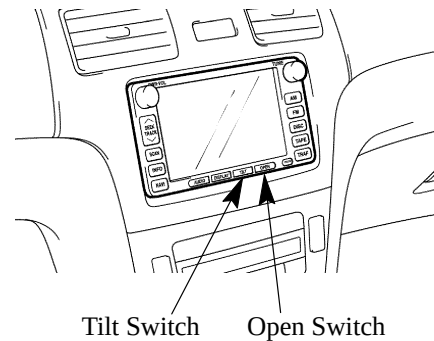
LEXUS Navigation System

The LEXUS navigation system, with the latest functions and high-speed hardware built in, can pinpoint your destination by accessing a large bank of map data, calculate the recommended route and provide on-screen guidance in one simple and quick process.



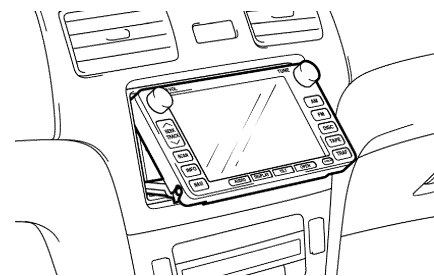
211MO23

- The 6.5-inch wide LCD (Liquid Crystal Display) screen responds quickly and is easy to use.
- The navigation ECU that reads the map data on the DVD (Digital Versatile Disc) is located in the luggage room. The GPS (Global Positioning System) antenna is located under the package tray.
- DVD has been selected as the medium for storing the map data enabling a large volume of data to be utilized.
- With the adoption of a touch panel, multiple functions can be handled with a simple configuration of switches. The audio system is also operated through the touch panel.



211MO75

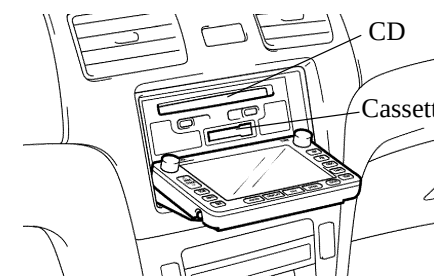
- The easy-to-see guidance display includes a three-position tilt display function to suit the tastes of the occupants. The tilt angle is controlled by a switch on the panel surrounding the screen.



Tilted

211MO76

- To insert or eject CDs and cassettes, press the "Open" switch on the panel surrounding the screen. The display will slide open.



Open

211MO77

EXTERIOR APPEARANCE

Front View



211IN01

Rear View



2111N02

MODEL CODE

MCV30	L	—	B	E	A	G	K	A
1	2		3	4	5	6	7	8

1	BASIC MODEL CODE
	MCV30 : With 1MZ-FE Engine

5	GEAR SHIFT TYPE
	A : 5-Speed Automatic, Floor

2	STEERING WHEEL POSITION
	L : Left-Hand Drive

6	GRADE
	G : —

3	MODEL NAME
	B : ES300

7	ENGINE SPECIFICATION
	K : DOHC and SFI

4	BODY TYPE
	E : 4-Door Sedan

8	DESTINATION
	A : U.S.A. and Canada

MODEL LINE-UP

Destination	Engine	Body Type	Grade	Transaxle
				U150E 5-Speed Automatic
U.S.A. and Canada	1MZ-FE	4-Door Sedan	—	MCV30L - BEAGKA

INTERIOR

The sophisticated feel of the interior, with its roomy cabin space, is permeated with sense of intelligence.

Interior Design

The instrument panel evokes a sense of elegance, with a modern, deep red-toned wood grain and chrome treatment decoration.

Lustrous wood grain and the automatic transmission gate housing with metallic paint impart sophistication and sportiness.

The instrument panel, door trim, seats, and console exude sophistication and excellence with their rounded surfaces.



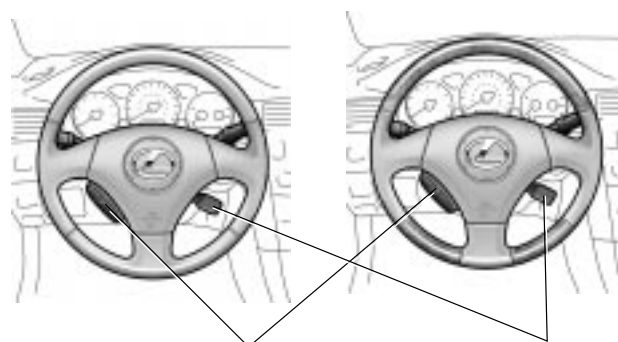
Each function is fitted cleanly into the layout with regard to the appearance of the overall design.

The amount of height offset has been minimized at the center cluster, register, instrument panel pads, etc., to achieve high quality.

Steering Wheel

The three-spoke steering wheel exudes a sense of fine quality.

- Two choices are available: a sporty leather-covered type or a stylish type with a combination of wood and leather.
- The metal core is solid die-cast magnesium, achieving weight reduction with regard for greater operability.
- A steering wheel pad switch and cruise control switch are built into the steering wheel to enable operation of the multi-information display and cruise control system, thereby improving operability while driving.



Steering Wheel Pad Switch

Cruise Control Switch

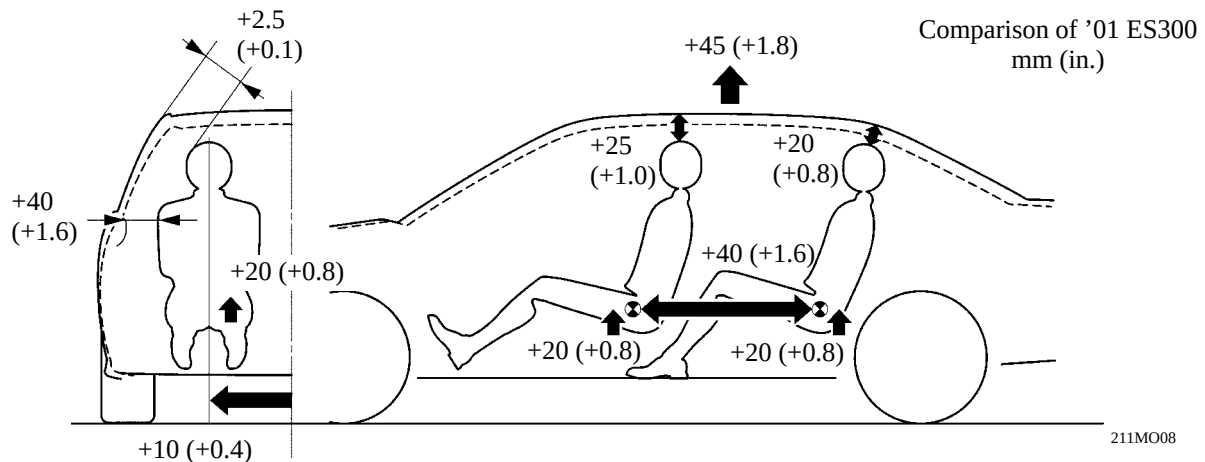
Leather (Standard)

Wood & Leather (Option)

Roominess

Packaging with capacious seating space that comfortably accommodates four adults.

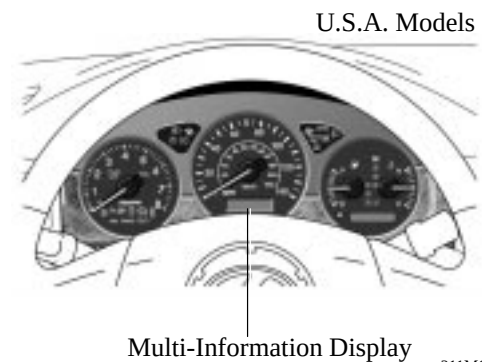
- The head clearance in both front and back is spacious. Also, the distance between the front and rear seats and between the driver and passenger seats has been widened, ensuring greater room.
- The hip point has been raised, with the aim of making getting in and out easier.



Combination Meter

Three separate Optitron sections with excellent visibility and functionality.

- A sporty, elegant design with wood grain. Visibility is excellent due to the luminous dial and pointer.
- The multi-information display is located in the center speedometer for high visibility. The following modes can be selected using the MODE switch on the steering wheel pad switch.
 - (1) Instant fuel consumption
 - (2) Average fuel consumption
 - (3) Drivable distance
 - (4) Average speed
 - (5) Elapsed time



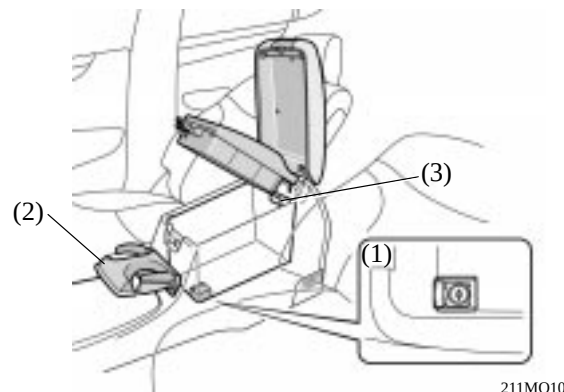
It can be reset using the RESET switch on the steering wheel pad switch.

Console Box

A large capacity, multi-functional, easy-to-use console box that is the optimum height when used as an arm rest.

A 2-tier console box has been adopted with the following features:

- (1) DC 12V power outlet
- (2) Cup holder
- (3) Illuminate light



EXTERIOR

From that captivates with dynamic flowing surfaces.

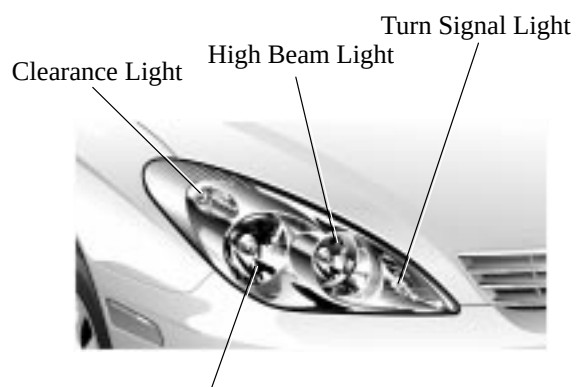
Front Design

The front view brims with sophistication and originality.

- The deeply carved molding of the line from the hood to the fender creates a sharp, firm mask.
- An imposingly-shaped light that follows the flow of the fender top has been adopted. Its flowing, elongated image is appealing.
- Within the simple molding, the elaborately decorated grille imparts a sense of refined sophistication.



211M001



Low Beam Light [HID (High Intensity Discharge)]

211M005

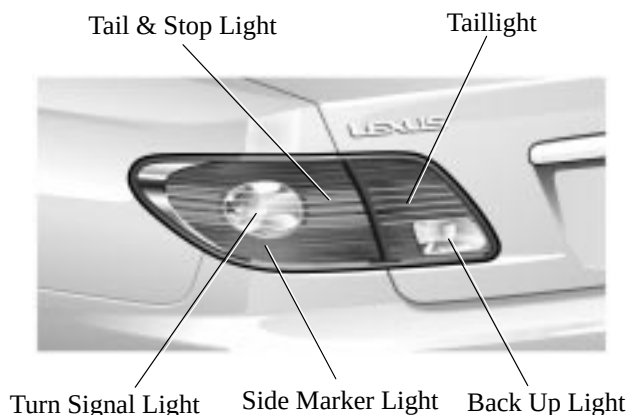
Rear Design

A powerful, sporty rear view.

- The rear combination light has been brought around the side, to enhance the sense of breadth.
- Molding that smoothly connects the body with the luggage door communicates a sense of integration as well as sophistication.
- A sculpted surface construction expresses a sense of presence and the appearance of stability.



211M002



211M004

Side Design

A flowing, expressive side silhouette.

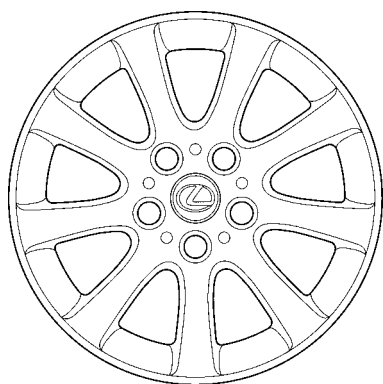
- The best feature of the side view is intended to be the door side (front fender to rear fender) surface structure which dynamically and emotionally in a way that has never been seen before.
- The roof line gently flows into the rear, contributing to a beautiful side view.
- Sharp character lines create dynamic proportions, while at the same time fusing with the rear quarter pillar to yield a lovely three-dimensional curved line.
- To ensure quietness, a sash-type door has been adopted. A sense of sportiness is expressed through a shape like that of a hard-top.



211MO03

Tire & Disc Wheel

Simple yet powerful graphic 16-inch aluminum wheels.



211MO06

Tire	Size	P 215 / 60 R 16	
Disc Wheel	Size	16 × 6 1/2 JJ	
	Off Set [mm (in.)]	50 (1.97)	
	P.C.D.* [mm (in.)]	114.3 (4.5)	
	Material	Aluminum	
	Surface Finishing	Silver painted	Chrome plated
	Specification	Standard	Option

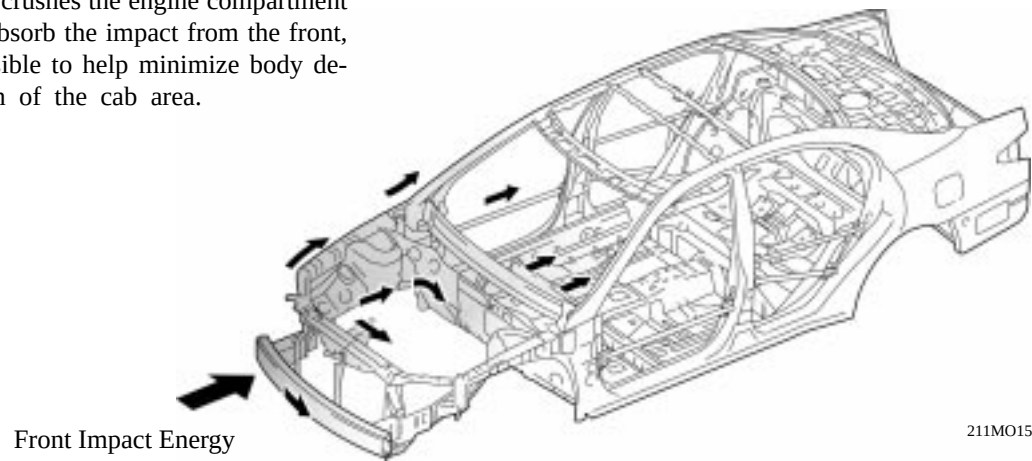
P.C.D.* : Pitch Circle Diameter

Passive Safety

Impact-absorbing Body

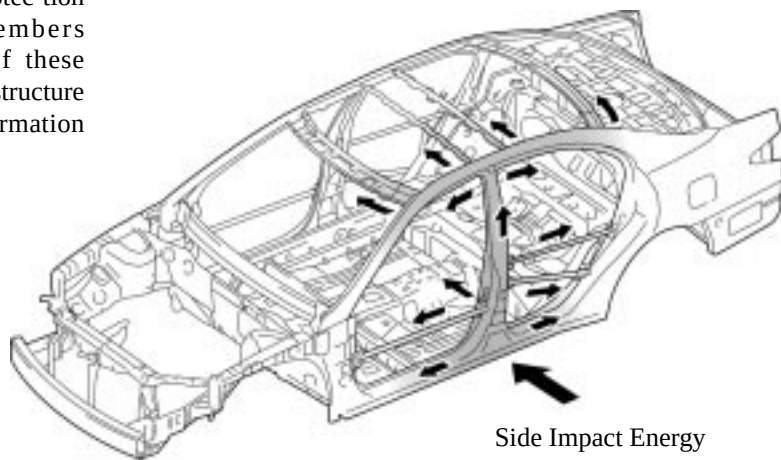
Frontal Collision

By selecting a body structure which effectively crushes the engine compartment to help absorb the impact from the front, it is possible to help minimize body deformation of the cab area.



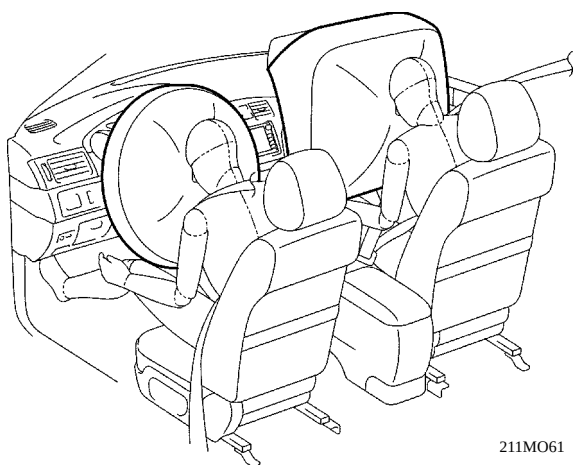
Side Collision

Impact from the side are effectively transferred to the door impact protection beams, rocker and cross members through optimal positioning of these parts, thereby creating a body structure that helps minimize body deformation of the cab area.

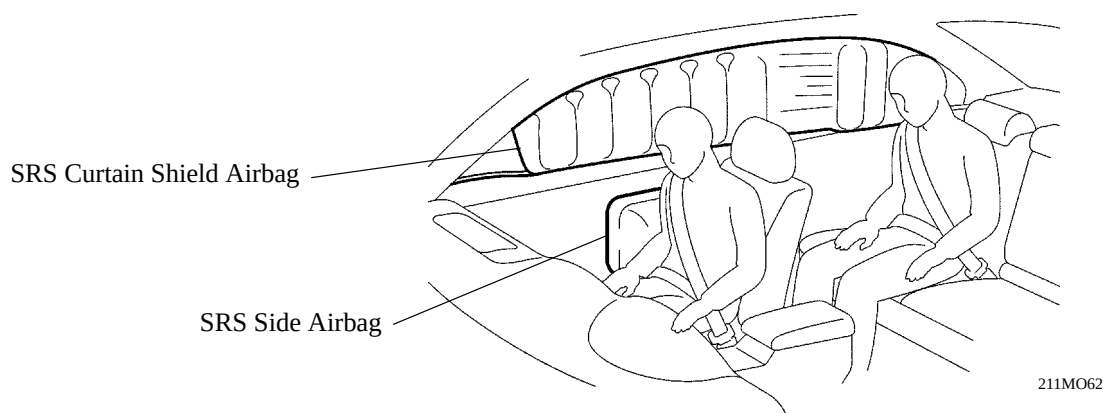


SRS Airbag System

- SRS (Supplemental Restraint System) airbags, SRS side airbags and SRS curtain-shield airbags have been installed to help provide supplemental restraint for the driver and passenger in a severe collision. The SRS airbags, SRS side airbags and SRS curtain shield airbags are activated in the event of a collision respectively to help ease the effects of the impact to the head and chest area of both the driver and passenger who are wearing seat belts properly.
- Dual-stage SRS airbags system, that controls the airbag inflating output optimum by judging the extent of impact, seat position and whether or not the seat belt is fasten, has been adopted for the driver and front passenger airbags.



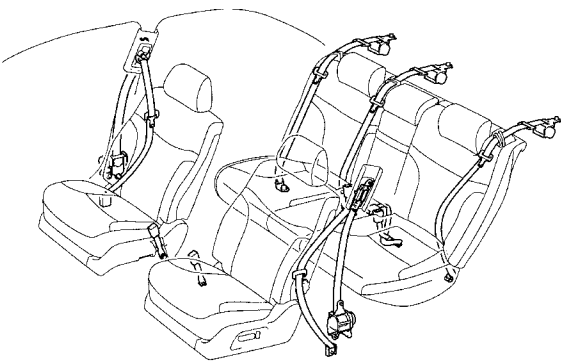
Driver & Front Passenger SRS Airbag



SRS Side & Curtain Shield Airbag

Seat Belt

- Seat belt for the front seats are equipped with pretensioners, which snugly restrain the occupants at the time of a collision, and force limiters, which soften the impact to the chest from the seat belt itself.
- Adjustable shoulder-belt anchors, which can be vertically adjusted in 5 steps, are used for the front seats. They ensure comfort when the seat belts are fastened.

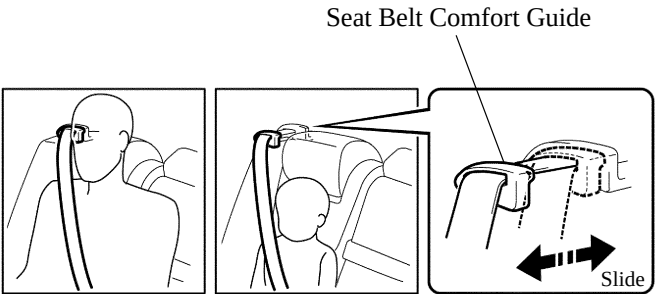


211MO34

Function	Driver Seat	Front Passenger Seat	Outer Rear Passenger Seat	Center Rear Passenger Seat
Pretensioner + Force Limiter	Standard	Standard	—	—
ELR (Emergency Locking Retractor)	Standard	Standard	Standard	Standard
ALR (Automatic Locking Retractor)	—	Standard	Standard	Standard
Adjustable Shoulder Belt Anchor	Standard	Standard	—	—
Tension Reducer	Standard	Standard	—	—
Seat Belt Comfort Guide	—	—	Standard	—
Independent Inner Belt with Cushion	—	—	Standard	—

Seat Belt Comfort Guide

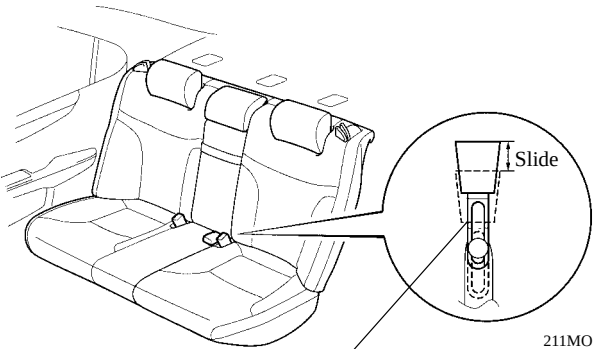
When children around the age of 10 wear a seat belt, it may come too close to their faces, causing discomfort. To alleviate this, seat belt comfort guides have been adopted at the outer sides of the rear seats.



211MO32

Independent Inner Belt with Cushion

A system in which the inner buckles for the rear seat belts are buried flush with the seat surface is used to soften the feel to the occupants' hips.



211MO35

Independent Inner Belt with Cushion

Head Impact Protection Structure

To help reduce the risk of injury to the driver's and passengers' heads in a collision, energy absorbing material has been utilized on the pillar trim and inside the roof and an energy absorbing structure has been adopted. This structure boasts a level of impact absorption.

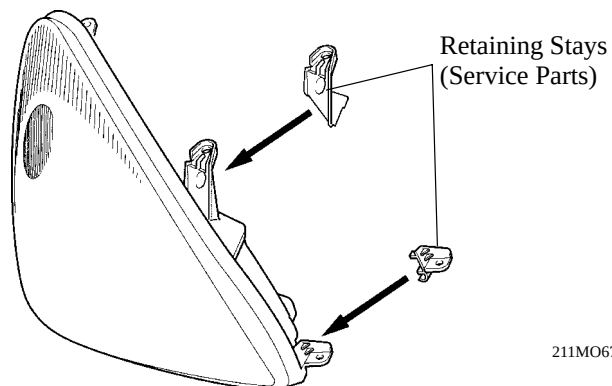
 : Head Impact Protection Structure



211MO49

Parts with Low Repair Costs

Retaining stays for the headlights have been provided separately from the headlight housing to help protect them from severe damage in a minor collision. Retaining stays have been made available as service parts.



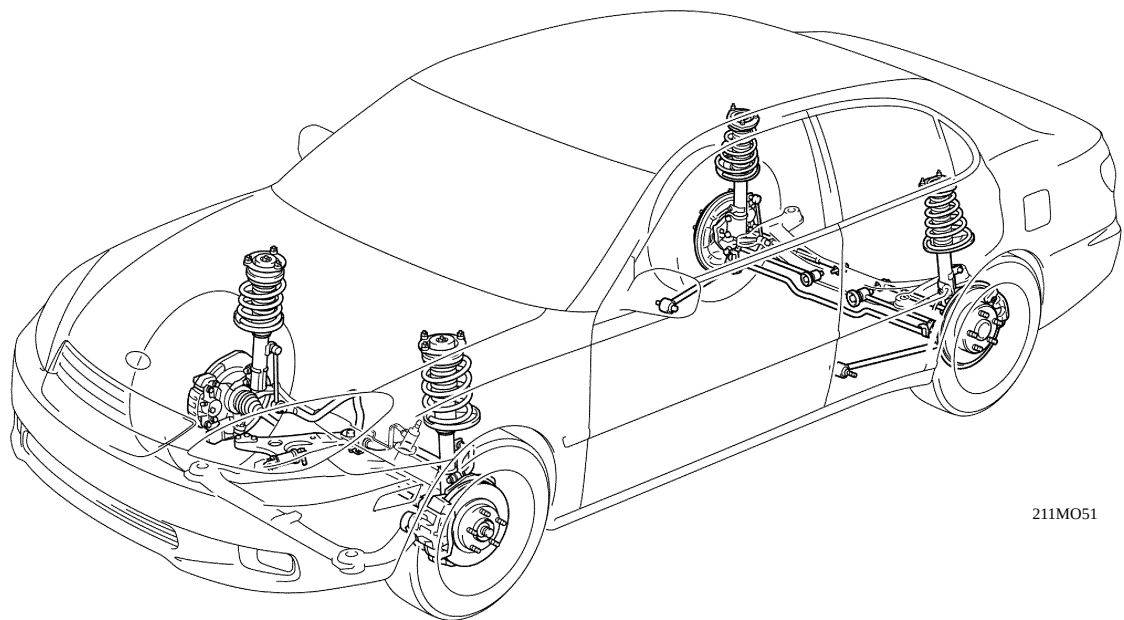
211MO67

Main Mechanism – Chassis

Suspension

Front	MacPherson strut, coil spring, gas-pressurized shock absorber with linear control valve*
Rear	MacPherson strut, coil spring, gas-pressurized shock absorber
Option	Available Electric Modulated Suspension

*: Except for models with optional electric modulated suspension



211M051

Brake

Front	Type	Ventilated disc, floating 2-piston caliper
Rotor Size		
Rear	Type	Solid disc, floating 1-piston caliper
Rotor Size		269 × 12 mm (10.6 × 0.47 in.), for 14 in. Wheel
Parking Brake		Foot pedal type with foot release
ABS with EBD		Standard
Brake Assist & TRAC & VSC		Option

Power Steering

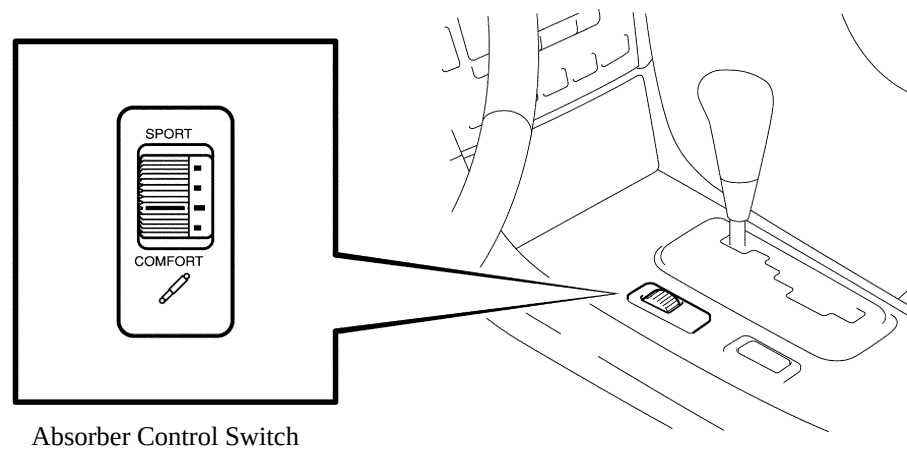
Type	Engine revolution sensing	
Gear	Type	Rack and pinion
Type		

Electric Modulated Suspension (Option)

This system electronically controls the damping force of the shock absorber automatically according to driving conditions and the setting of the absorber control switch, achieving excellent riding comfort and controllability.

In response to the previous system, acceleration sensors that detect vertical movement of the vehicle have been added to the front and back of the vehicle. Also, with the introduction of a new control theory, even smoother and more natural ride quality has been attained.

The absorber control switch on the center console has four positions, so the strength of the damping force can be selected according to the driver's desire.



Absorber Control Switch

Aerodynamics

A CD (Coefficient of Drag) of approximately 0.28 - the finest in the class - has been achieved, thanks to a smooth contour with few variances in level and the control of the airflow under the body.



- The height and shape of the front bumper have been optimized, and the airflow to the underbody and body sides has been rectified.

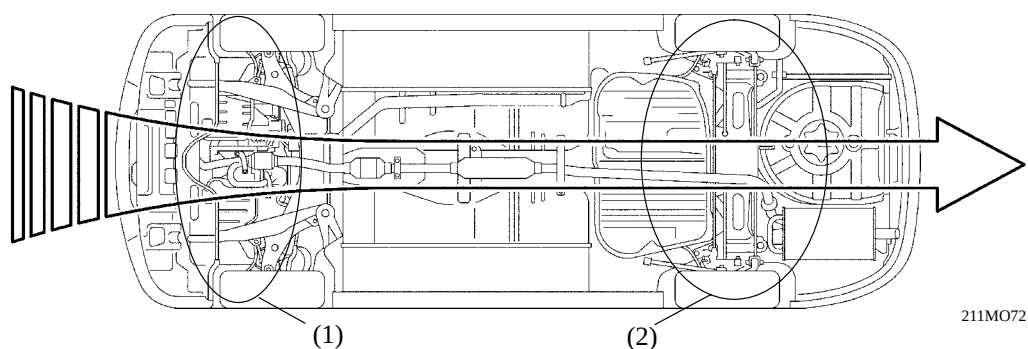
- Openings in the front bumper have been made as small as possible, decreasing the amount of air that gets in the engine area and improving aerodynamics.



- Air flows from the roof to the trunk without disturbance, decreasing swirl at the edge of the trunk.
- The height and shape of the rear bumper have also been optimized so as not to hinder the air-flow under the body.



- To enable a flat underbody, suspension parts, the fuel tank, muffler, and floor shape have all been optimized.



- (1): The engine under cover and front fender liner have been redesigned to the aerodynamically optimum shape.
- (2): Irregularities in contour of the center floor, fuel tank, rear suspension, muffler, spare tire house, etc., have been smoothed out, reducing wind drag under the floor.

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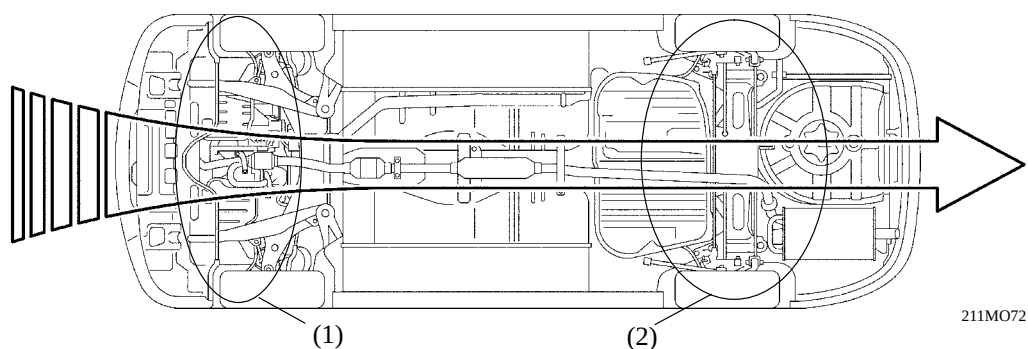
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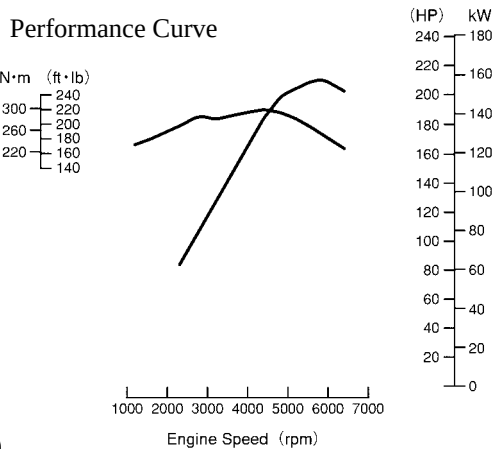
PERFORMANCE

*Powerful, smooth driving with consideration for the environment.
Driving performance with polish and distinction.*

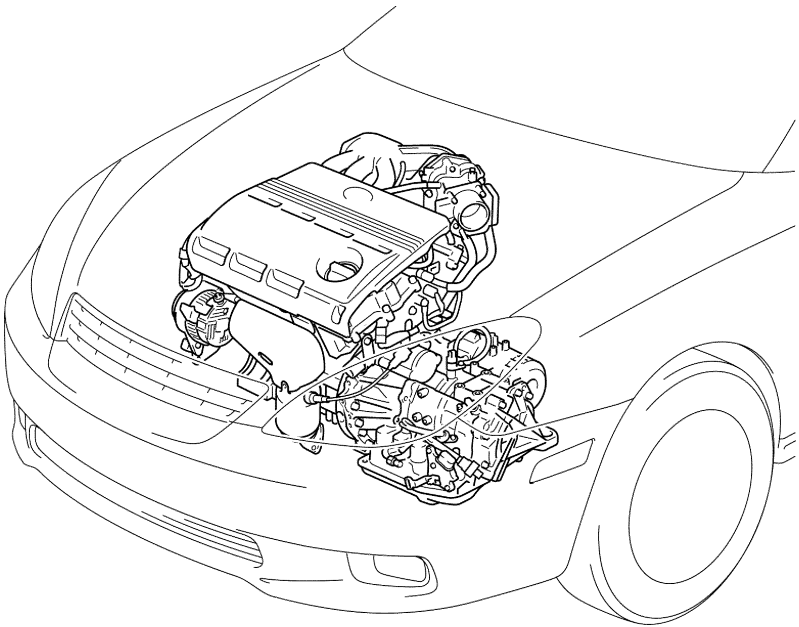
Main Mechanism – Power Train

Engine	
Type	1MZ-FE 90° V6, aluminum block and heads, certified ULEV (Ultra Low-Emission Vehicle)
Displacement	2,995 cm ³ (182.7 cu. in.)
Bore × Stroke	87.5 × 83.0 mm (3.44 × 3.27 in.)
Valve Train	Four cam, four valves per cylinder, with VVT-i (Variable Valve Timing -intelligent)
Compression Ratio	10.5 : 1
Intake	ETCS-i, ACIS, Air Intake Control System
Maximum Output [SAE-NET]	156 kW @5,800 rpm (210 HP @5,800 rpm)
Maximum Torque [SAE-NET]	298 N·m @4,400 rpm (220 ft·lbf @4,400 rpm)

Performance Curve



211MO13



211MO50

Transaxle

Type	U150E 5-speed automatic Transaxle [5 Super ECT (Electronically Controlled Transaxle)], engine/transaxle networking, road condition support control
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1MZ-FE Engine

ETCS-i (Electronic Throttle Control System – intelligent)

With the adoption of the ETCS-i, which controls the throttle valve by means of a motor, optimum engine control has become possible under road conditions.

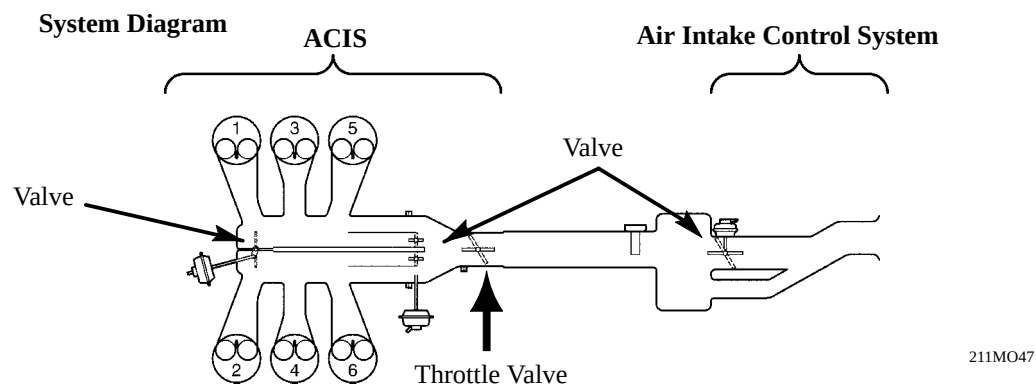
Acoustic Control Induction System (ACIS)

The ACIS is a system that regulates the valves on the intake manifold to switch the length and area of the intake manifold among 3 stages according to engine speed and throttle opening. High output is thus achieved in low, middle, and high speed ranges.

Air Intake Control System

A new air intake control system has been adopted. This system regulates a valve on the suction pipe valve to switch the intake passage between 2 stages according to engine speed and throttle opening.

In the low speed range, the utilization of one passage reduces suction noise; in the high speed range, with the utilization of two passages, high output is achieved.



U150E Automatic Transaxle

The compact and high-capacity 5-speed U150E automatic transaxle [5 Super ECT (Electronically Controlled Transaxle)] has been newly adopted to match the output characteristics of the 1MZ-FE engine.

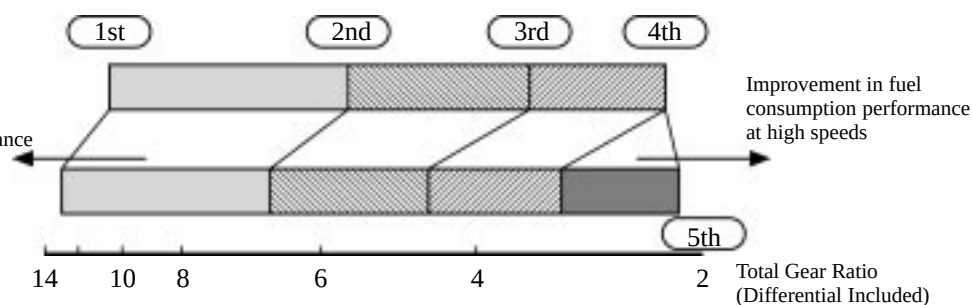
Compared to the previous 4-speed U140E automatic transaxle, the 5-speed U150E automatic transaxle has a wider gear ratio, with the aim of improving take-off and acceleration performance as well as fuel economy during high speed driving.

Total Gear Ratio

U140E
'01 ES300

Improvement in
acceleration performance

U150E
'02 ES300



<Specifications>

Item	Gear Ratio (Counter Gear Ratio Included)						Differential Gear Ratio
	1st	2nd	3rd	4th	5th	Reverse	
U150E	3.938	2.194	1.411	0.973	0.703	3.141	3.478
U140E	3.938	2.194	1.411	1.019	–	3.141	2.642