



TOYOTA



Avalon

Product Source



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# Model Line-Up

## New for 1998

### All Models

- Standard side impact air bags (SRS)\*
- Pretensioners and force limiters for front outboard seatbelts
- Overall length increased 1.7 inches
- Front grille with horizontal chrome trim
- Multi-reflector headlights behind clear lens covers with 3 horizontal stripes
- Turn signals moved from front bumper to next to headlights
- Chrome trim added to bodyside molding and front and rear bumpers
- Multi-reflector combination taillamps
- Revised rear decklid styling with chrome license plate bezel
- Trunk luggage opening widened by 9.4 inches
- Improved cup holder design for bench seat models
- Improved NVH measures
- Engine immobilizer added to factory security system (std. XLS, opt. XL)
- Improved crash absorbing body structure
- LCD odometer with twin tripmeters
- Variable intermittent wipers added to XL models
- New XL seat fabric
- Ivory interior color (cloth and leather)
- New exterior colors
  - Napa Burgundy Pearl (3M6)
  - Sable Pearl (4N7)
  - Classic Green Pearl (6P2)
  - Golden Sand Metallic (578)



- Deleted exterior colors
  - Super White (040)
  - Ruby Pearl (3L3)
  - Cashmere Beige Metallic (4M9)
  - Evergreen Pearl (751)
  - Shadow Plum Pearl (927)

### XLS Models

- Factory multi-function remote revised to include panic button and illuminated entry system adopted (dome light turns on when unlocked with remote and shuts off when a door is left ajar for longer than 20 minutes)
- Integrated fog lamps
- Optional memory for power driver's seat and front seat heaters
- Color and design of the simulated wood accents have been refined and expanded to include the instrument panel
- Premium audio system speaker number increased from 6 to 7, including a dedicated subwoofer (standard on XLS, optional on XL)
- Standard 170 watt (maximum power) AM/FM stereo with integral single disc CD player and 7 speakers including subwoofer

## Body Styles and Trim Levels

| Body Style   | Trim Level   | Trans.         | Displacement | Cyl. | bhp   | Model # |
|--------------|--------------|----------------|--------------|------|-------|---------|
| 4-Door Sedan | XL (Bucket)  | 4ECTi (floor)  | 3.0 liter    | 6    | 200** | 3534    |
|              | XL (Bench)   | 4ECTi (column) | 3.0 liter    | 6    | 200** | 3536    |
|              | XLS (Bucket) | 4ECTi (floor)  | 3.0 liter    | 6    | 200** | 3544    |
|              | XLS (Bench)  | 4ECTi (column) | 3.0 liter    | 6    | 200** | 3546    |

\* See "Safety" section beginning on page 10 for additional information

\*\* 198 hp in states with California emissions



# **S**tandard Features

## **Avalon XL**

### **Mechanical**

- 3.0-liter V6 DOHC\* 24-valve EFI engine
  - Aluminum alloy engine block and head
  - Distributorless ignition
  - 2-piece oil pan
  - 80-amp alternator
- Fluid-filled engine mount (1) (front)
- Front-wheel drive
- 4-speed electronically controlled automatic overdrive transmission with "Intelligence" (4ECTi)
- Transmission oil cooler
- 4-wheel independent MacPherson strut suspension with gas-filled shock absorbers
- Independent dual-link rear suspension with gas-filled shock absorbers
- Front and rear stabilizer bars
- Anti-vibration front and rear cradle subframes
- Power-assisted rack-and-pinion steering
- Power-assisted 4-wheel ventilated front disc/solid rear disc brakes
- Anti-lock Brake System (ABS)
- Pedal-type parking brake
- 15" wheels
- P205/65HR15 All-season steel belted radial tires
- Full-size spare tire
- Stainless steel exhaust system
- Unibody construction
- Vibration-damping steel panels
- All-Weather Guard Equipment Package
- Hood silencer pad

### **Exterior**

- Multi-reflector headlamps (behind clear lens covers with 3 horizontal stripes)
- Auto-off headlamps
- Integrated turn signals next to headlamps
- Multi-reflector combination taillamps
- Front grille with horizontal chrome trim
- Color-keyed bumpers with integrated front air dam and chrome trim
- Scratch-resistant bumper material
- Foam-filled A-, B-, C- and D-pillars
- High Solar Energy Absorbing glass (HSEA)
- Dual color-keyed power mirrors
- Color-keyed bodyside moldings with chrome trim
- Color-keyed door handles
- Full wheel covers
- Center High-Mount Stop Lamp (CHMSL)
- 90° trunk angle opening with low lift-over height
- Chrome license plate bezel

\* Marketed as Four-Cam

# Standard Features

## Avalon XL (Cont'd)

### Interior

- Bucket seats
  - 6-way adjustable driver's seat (slide, front and rear seat height, recline and head restraint tilt/height)
  - 4-way adjustable passenger's seat (slide, recline and head restraint tilt/height)
  - Center console storage box with cover and dual cup holder
  - Floor-mount transmission shifter
- Bench seats
  - 6-way adjustable power driver and front passenger bench seat with 50/50 split seat cushion and 60-driver/40-passenger split seat back (power functions include slide, recline, front and rear seat height)
  - Folding center armrest with integrated storage compartment and dual cup holder
  - Column-mount transmission shifter
- Rear seats
  - Folding center armrest
  - Integrated head restraints in outboard positions
- Unique XL cloth seat and door trim with integrated speakers
- Dual door map pockets
- Urethane tilt steering wheel
- Driver and front passenger illuminated vanity mirrors
- Cloth headliner and sun visors
- Lockable illuminated glove box
- Dash storage box
- Retractable assist grips with integrated coat hooks
- Full carpeting with driver-side footrest
- Fully lined trunk with deck lid trim
- Instrumentation: electronic analog speedometer, tachometer, coolant temperature and fuel level gauges
- LCD digital odometer and twin tripmeters
- Warning lights: air bag, door-ajar, brake and taillamp bulb failure, oil pressure, check engine, seatbelt disconnect, battery and low fuel level
- Air conditioning (CFC-free)
- Rear heating ducts
- Power windows and door locks
  - One-touch driver-side auto down
  - Two-turn locks
  - Anti-lock-out feature
  - Nighttime illumination
  - 60 seconds retained power function (after ignition key is removed)
- Cruise control
- Variable intermittent windshield wipers
- Side-window defoggers
- Heavy-duty rear-window defogger with timer
- Digital quartz clock
- Trunk light
- Door courtesy lamps
- Illuminated ignition key ring with fade out
- Remote hood, fuel lid and trunk releases
- Valet trunk-locking system
- Fuel cap hanger
- Rear glass imprinted antenna
- Deluxe AM/FM ETR/Cassette with 4 speakers

### Safety\*

- Driver and front passenger air bag Supplemental Restraint System (SRS)
- Side impact air bag Supplemental Restraint System (SRS)
- Seatbelts
  - Driver: 3-point with ELR,<sup>1</sup> pretensioner and force limiter
  - Front outboard passenger: 3-point with ELR/ALR,<sup>1</sup> pretensioner and force limiter
  - Front center passenger: 2-point lap belt<sup>2</sup>
  - Rear passengers (3): 3-point with ELR/ALR
- Energy-absorbing steering wheel and column
- Child-protector rear door locks
- Side-door beams

\* See "Safety" section beginning on page 10 for additional information

<sup>1</sup> With adjustable shoulder belt anchor

<sup>2</sup> With optional bench seats



# Standard Features

## Avalon XLS Differences vs Avalon XL



*Model shown may have optional equipment.*

### Exterior

- Integrated fog lamps
- Automatic on/off headlamps
- Dual heated color-keyed power mirrors
- Aluminum alloy wheels

### Interior

- Seats:
  - 7-way adjustable power driver's seat (power: slide, recline, front and rear seat height; manual: lumbar support, head restraint tilt/height)
  - 6-way adjustable power passenger's seat (power: slide, recline, front and rear seat height; manual: head restraint tilt/height)
- Unique XLS cloth seat and door trim with integrated speakers
- Simulated wood trim on instrument panel, console and doors
- Leather-wrapped steering wheel and floor shift knob
- Automatic air conditioning (CFC-free) with soft-touch controls
- Anti-theft device (includes ignition interlock, horn activation, headlamps flash feature, and engine immobilizer)
- Illuminated entry/exit fade-out system (ignition key ring, dome lamp, and door ajar cut-off function)
- Remote entry (lock/unlock doors and dome light activation, trunk release and panic functions)
- Front map light
- Rear reading lights
- Outside temperature display
- Power trunk lid release (in glove box)
- Premium AM/FM ETR/CD with 7 speakers including subwoofer

# S

## Standard/Optional Features

### Mechanical

|  | AVALON<br>XL    | AVALON<br>XLS   |
|--|-----------------|-----------------|
| • California emissions {CA}  | .O              | .O              |
| • Other state emissions {RE}   | .O              | .O              |
| • 3.0-liter V6 DOHC* 24-valve EFI engine   | .S              | .S              |
| -Aluminum alloy engine block and head  | .S              | .S              |
| -Distributorless ignition  | .S              | .S              |
| -2-piece oil pan   | .S              | .S              |
| -Engine block heater   | .A              | .A              |
| -80-amp alternator   | .S              | .S              |
| -Fluid-filled engine mount (1) (front)   | .S              | .S              |
| • Front-wheel drive  | .S              | .S              |
| • 4-speed electronically controlled automatic overdrive transmission with "Intelligence" (4ECTi)                           | .S <sup>1</sup> | .S <sup>1</sup> |
| • Transmission oil cooler  | .S              | .S              |
| • All speed traction control {TN}  | .O              | .O              |
| • 4-wheel independent MacPherson strut suspension with gas-filled shock absorbers  | .S              | .S              |
| • Independent dual-link rear suspension with gas-filled shock absorbers  | .S              | .S              |
| • Front and rear stabilizer bars   | .S              | .S              |
| • Anti-vibration cradle subframes (front: engine, transaxle and lower suspension arms;<br>rear: all suspension components) | .S              | .S              |
| • Power-assisted rack-and-pinion steering  | .S              | .S              |
| • Power-assisted 4-wheel ventilated front disc/solid rear disc brakes  | .S              | .S              |
| • Anti-lock Brake System (ABS) {AB}  | .S              | .S              |
| • Pedal-type parking brake   | .S              | .S              |
| • 15" wheels   | .S              | .S              |
| • P205/65HR15 All-season steel belted radial tires   | .S              | .S              |
| • Full-size spare tire   | .S              | .S              |
| • Hood silencer pad  | .S              | .S              |
| • Stainless steel exhaust system   | .S              | .S              |
| • Unibody construction   | .S              | .S              |
| • Vibration-damping steel panels   | .S              | .S              |
| • All-Weather Guard Equipment Package {CK}   | .S              | .S              |

### Exterior

|   |                 |                 |
|---|-----------------|-----------------|
| • Multi-reflector headlamps   | .S              | .S              |
| • Integrated fog lamps  | .NA             | .S              |
| • Auto-off headlamps  | .S              | .NA             |
| • Auto-on/off headlamps   | .NA             | .S              |
| • Integrated turn signals next to headlamps                         | .S              | .S              |
| • Multi-reflector combination taillamps                             | .S              | .S              |
| • Front-end mask {KM}   | .A              | .A              |
| • Front grille with horizontal chrome trim                          | .S              | .S              |
| • Color-keyed bumpers with integrated front air dam and chrome trim | .S              | .S              |
| • Scratch-resistant bumper material                                 | .S              | .S              |
| • High Solar Energy Absorbing glass (HSEA)                          | .S              | .S              |
| • Dual color-keyed power mirrors                                    | .S              | .NA             |
| • Dual heated color-keyed power mirrors {EH}                        | .O              | .S              |
| • Foam-filled A-, B-, C- and D-pillars                              | .S              | .S              |
| • Color-keyed bodyside moldings with chrome trim                    | .S              | .S              |
| • Color-keyed door handles  | .S              | .S              |
| • Full wheel covers   | .S              | .NA             |
| • Aluminum alloy wheels {AW}  | .O              | .S              |
| • Alloy wheels {SS}   | .A              | .A              |
| • Alloy wheels upgrade {SA}   | .NA             | .A              |
| • Wheel locks (steel) {WS}  | .A              | .NA             |
| • Wheel locks (alloy) {WL}  | .A <sup>2</sup> | .A <sup>2</sup> |
| • Wheel locks (alloy) {WZ}  | .A <sup>3</sup> | .A <sup>3</sup> |
| • Mudguards (black) {MG}  | .O              | .O              |

#### Legend

|     |                       |
|-----|-----------------------|
| S   | Standard              |
| O   | Optional              |
| A   | Dealer/Port-Installed |
| NA  | Not Available         |
| { } | Option Code           |

#### Notes:

{CK} Includes heavy duty: battery, starter, alternator and rear-window defogger

{AW} Includes P205/65HR15 All-season steel belted tires and aluminum alloy wheels (4)

\* Marketed as Four-Cam

1 Floor-mount transmission shifter with bucket seats;  
column-mount with bench seats

2 Requires optional alloy wheels {AW}

3 Requires optional alloy wheels {SS} or {SA}



# Standard/Optional Features

## Exterior (Cont'd)

|   | AVALON<br>XL | AVALON<br>XLS |
|---|--------------|---------------|
| • Center High-Mount Stop Lamp (CHMSL) . . . . .               | .S           | .S            |
| • 90° trunk angle opening with low lift-over height . . . . . | .S           | .S            |
| • Chrome license plate bezel . . . . .                        | .S           | .S            |
| • Black Pearl Emblem {BN} . . . . .                           | .A           | .A            |
| • Gold Package {GP} . . . . .                                 | .A           | .A            |
| • Diamond White Pearl Paint {PC} . . . . .                    | .O           | .O            |

## Interior

|   |                  |                  |
|---|------------------|------------------|
| • 6-way adjustable driver's seat/4-way adjustable manual passenger's seat (bucket) . . . . .  | .S <sup>4</sup>  | .NA              |
| • 6-way adjustable power driver and front passenger bench seat with<br>50/50 split seat cushion and 60/40 split-folding seat back . . . . .                     | .S <sup>5</sup>  | .S <sup>5</sup>  |
| • 7-way adjustable power driver's seat/6-way adjustable power passenger's seat (bucket) {PE} . . . . .  | .O <sup>6</sup>  | .S <sup>6</sup>  |
| • Rear seats: folding center armrest and integrated head restraints in outboard positions . . . . .   | .S               | .S               |
| • XL cloth seat and door trim with integrated speakers . . . . .  | .S               | .NA              |
| • XLS cloth seat and door trim with integrated speakers . . . . .   | .NA              | .S               |
| • Leather-trimmed seats with synthetic leather door trim . . . . .  | .O <sup>7</sup>  | .O <sup>7</sup>  |
| • Simulated wood trim . . . . .   | .NA              | .S               |
| • Wood dash {DU} . . . . .  | .A               | .A               |
| • Dual door map pockets . . . . .   | .S               | .S               |
| • Urethane tilt steering wheel . . . . .  | .S               | .NA              |
| • Leather-wrapped tilt steering wheel and floor shift knob . . . . .  | .O <sup>7</sup>  | .S               |
| • Driver and front passenger illuminated vanity mirrors . . . . .   | .S               | .S               |
| • Cloth headliner and sun visors . . . . .  | .S               | .S               |
| • Lockable illuminated glove box . . . . .  | .S               | .S               |
| • Dash storage box with door under standard radio . . . . .   | .S               | .S               |
| • Center console storage box with cover (bucket seats only) . . . . .   | .S               | .S               |
| • Folding center armrest with integrated storage compartment and cup holder (bench seat only) . . . . .   | .S               | .S               |
| • Cup holder: (dual)<br>-Front of console box for bucket seats . . . . .  | .S               | .S               |
| -Integrated with front armrest for bench seats . . . . .  | .S               | .S               |
| • Assist grips: 1 passenger side; 2 rear with integrated coat hooks . . . . .   | .S <sup>8</sup>  | .S <sup>8</sup>  |
| • Full carpeting with driver-side footrest . . . . .  | .S               | .S               |
| • Carpet/cargo mat set (5-piece) . . . . .  | .A               | .A               |
| • Fully lined trunk with deck lid trim . . . . .  | .S               | .S               |
| • Cargo net {GN} . . . . .  | .A               | .A               |
| • Instrumentation: electronic analog speedometer, tachometer,<br>coolant temperature and fuel level gauges . . . . .  | .S               | .S               |
| • LCD digital odometer and twin tripmeters . . . . .  | .S               | .S               |
| • Warning lights: air bag, door-ajar, brake and taillamp bulb failure,<br>oil pressure, check engine, seatbelt disconnect, battery and low fuel level . . . . . | .S               | .S               |
| • Power tilt/slide glass sunroof {SR} . . . . .   | .O               | .O               |
| • Sunroof wind deflector {SD} . . . . .   | .A               | .A               |
| • Air conditioning (CFC-free) . . . . .   | .S               | .NA              |
| • Automatic air conditioning (CFC-free) with soft-touch controls . . . . .  | .NA              | .S               |
| • Rear heating ducts . . . . .  | .S               | .S               |
| • Cellular mobile telephones, fixed and docking/portable . . . . .  | .A <sup>9</sup>  | .A <sup>9</sup>  |
| • Anti-theft device {PN}—includes ignition interlock, horn activation, headlamps flash feature<br>and engine immobilizer . . . . .                              | .O               | .S               |
| • Vehicle Intrusion Protection (V.I.P.) Deluxe Security System {V3} . . . . .   | .A               | .NA              |
| • Keyless Entry {KE} . . . . .  | .A               | .NA              |
| • Power windows and door locks . . . . .  | .S <sup>10</sup> | .S <sup>10</sup> |

### Legend

|     |                           |
|-----|---------------------------|
| S   | Standard                  |
| O   | Optional                  |
| A   | Dealer/Port-<br>Installed |
| NA  | Not Available             |
| { } | Option Code               |

### Notes:

{SR} Includes map light {XL}

- Driver includes: slide, recline, vertical headrests, fore/aft headrests, front and rear seat cushion height adjustment. Passenger includes: slide, recline, and fore/aft headrests.
- Power adjustments include slide, recline and two-way vertical
- Driver power adjustments include: slide, recline, and two-way vertical. Non-power adjustments include: fore/aft headrests and lumbar support. Passenger adjustments include power slide, recline and two-way vertical.

- Included in Leather Trim Packages {LA}, {LP} and {LS}
- Retractable
- DIO only
- With one-touch driver-side auto down, two-turn door locks, anti-lock feature, nighttime illumination, retained power feature



# Standard/Optional Features

## Interior (Cont'd)

|   | AVALON<br>XL    | AVALON<br>XLS   |
|---|-----------------|-----------------|
| • Cruise control  | S               | S               |
| • Variable intermittent windshield wipers   | S               | S               |
| • Side-window defoggers   | S               | S               |
| • Heavy-duty rear-window defogger with timer  | S               | S               |
| • Digital quartz clock  | S               | S               |
| • Illuminated entry/exit fade-out system (interior key ring, dome lamp, and door ajar cut-off function) | NA              | S               |
| • Rear reading lights   | NA              | S               |
| • Front map light   | O <sup>11</sup> | S               |
| • Trunk light   | S               | S               |
| • Door courtesy lamps   | S               | S               |
| • Illuminated ignition key ring   | S               | S <sup>12</sup> |
| • Outside temperature display   | NA              | S               |
| • Remote entry (lock/unlock doors and dome light activation, trunk release and panic function)          | NA              | S               |
| • Remote hood, fuel lid and trunk releases  | S               | S <sup>13</sup> |
| • Valet trunk-locking system  | S               | S               |
| • Fuel cap hanger   | S               | S               |
| • Rear glass imprinted antenna  | S               | S               |
| • Deluxe AM/FM ETR/Cassette with 4 speakers {EX}  | S               | NA              |
| • Deluxe AM/FM ETR/CD with 4 speakers {EV}  | O               | NA              |
| • Premium AM/FM ETR/Cassette with 7 speakers {CE}   | O               | NA              |
| • Premium AM/FM ETR/CD with 7 speakers {DV}   | O <sup>14</sup> | S <sup>14</sup> |
| • Premium 3-in-1 AM/FM ETR/Cassette/CD with 7 speakers {DC}   | O <sup>14</sup> | O <sup>14</sup> |
| • Auto-Reverse Cassette Deck {P4}   | A               | A               |
| • Compact Disc Deck {P5}  | A               | NA              |
| • 3-Disc CD {P3}  | A               | A               |
| • 6-Disc CD Changer {P9}  | A               | A               |
| • Leather Trim Package {LA}   | O <sup>15</sup> | O <sup>16</sup> |
| • Leather Trim Package (with memory) {LP}   | NA              | O               |
| • Leather Trim Package (with memory and heated front seats) {LS}  | NA              | O               |
| • Power Seat Package {PE}   | O               | S               |
| • Elite Package {EL}  | A               | A               |
| • Black Elite Package {ET}  | A               | A               |

## Safety\*

|   |   |   |
|---|---|---|
| • Driver and front passenger air bag Supplemental Restraint System (SRS)                                    | S | S |
| • Side impact air bag Supplemental Restraint System (SRS)   | S | S |
| • Seatbelt, driver: 3-point with ELR, <sup>17,19</sup> pretensioner and force limiter                       | S | S |
| • Seatbelt, front outboard passenger: 3-point with ELR/ALR, <sup>18,19</sup> pretensioner and force limiter | S | S |
| • Seatbelt, front center passenger: <sup>20</sup> 2-point lap belt  | S | S |
| • Seatbelt, rear passengers (3): 3-point with ELR/ALR <sup>18</sup>   | S | S |
| • Energy-absorbing steering wheel and column  | S | S |
| • Child-protector rear door locks   | S | S |
| • Side-door beams   | S | S |

### Legend

|     |                       |
|-----|-----------------------|
| S   | Standard              |
| O   | Optional              |
| A   | Dealer/Port-Installed |
| NA  | Not Available         |
| { } | Option Code           |

### Notes:

- {LA} Includes leather-trimmed seating (Power D/P bucket on 3534, power D/P bench on 3536), leather-wrapped steering wheel and automatic transmission shift knob (with bucket seat only) or shift boot (with bench seat only), and synthetic leather door trim
- {LP} Includes leather-trimmed seating, synthetic leather door trim, and memory feature for driver's power seat controls.
- {LS} Includes leather-trimmed seating, synthetic leather door trim, memory feature for driver's power seat controls and heated front seats.
- {PE} Includes power driver and passenger seats: 7-way adjustable driver (power: slide, recline, front and rear seat height; manual: lumbar support, head restraint tilt/height)/6-way adjustable passenger (power: slide, recline, front and rear seat height; manual: head restraint tilt/height)
- {EL} Includes Gold Package {GP}, wood dash {DU} and carpet/cargo mat set {CF}
- {ET} Includes Black Pearl Emblem {BN}, wood dash {DU}, and carpet/cargo mat set {CF}
- \* See "Safety" section beginning on page 10 for additional information

- 11 Included as part of power tilt/slide glass sunroof option
- 12 Included in illuminated entry/exit fade-out system
- 13 Power trunk lid release in glove box
- 14 Includes diversity reception
- 15 Requires aluminum alloy wheels option {AW}

- 16 Leather steering wheel and shift knob/boot, alloy wheels and power seats are standard on XLS
- 17 Emergency Locking Retractor (ELR)
- 18 Emergency Locking Retractor (ELR)/ Automatic Locking Retractor (ALR)
- 19 With adjustable shoulder belt anchor
- 20 With optional front bench seats



# Specifications

## Mechanical

|                          |           | XL   | XLS  |
|--------------------------|-----------|--|--|
| <b>ENGINE</b>            |           |  |  |
| Type                     |           | 3.0-L V6 DOHC* 24-V EFI  | 3.0-L V6 DOHC* 24-V EFI  |
| Horsepower (bhp @ rpm)   |           | 200 @ 5200 (198 hp in CA emission states)  | 200 @ 5200 (198 hp in CA emission states)  |
| Torque (lb-ft @ rpm)     |           | 214 @ 4400 (212 lb-ft in CA emission states)   | 214 @ 4400 (212 lb-ft in CA emission states)   |
| MPG (EPA est. city/hwy)  |           | 21/30  | 21/30  |
| <b>DRIVETRAIN</b>        |           |  |  |
| Type                     |           | Front-wheel drive  | Front-wheel drive  |
| <b>TRANSMISSION</b>      |           |  |  |
|                          | -standard | 4-speed ECTi automatic overdrive with "Intelligence"   | 4-speed ECTi automatic overdrive with "Intelligence"   |
| <b>SUSPENSION</b>        |           |  |  |
| Type                     |           | 4-wheel independent MacPherson strut (dual-link at the rear) with gas-filled shock absorbers, stabilizer bars and anti-vibration cradle sub-frames | 4-wheel independent MacPherson strut (dual-link at the rear) with gas-filled shock absorbers, stabilizer bars and anti-vibration cradle sub-frames |
| <b>STEERING</b>          |           |  |  |
| Type                     |           | Power-assisted rack-and-pinion   | Power-assisted rack-and-pinion   |
| Ratio                    |           | 17.4:1   | 17.4:1   |
| Turning Diameter** (ft.) |           | 37.6   | 37.6   |
| <b>BRAKES***</b>         |           |  |  |
| Front/Rear               | -standard | 4-wheel disc with Anti-lock Brake System <sup>1</sup>  | 4-wheel disc with Anti-lock Brake System <sup>1</sup>  |
|                          | -optional | NA   | NA   |
| <b>WHEELS</b>            |           |  |  |
| Type/Size                | -standard | Steel / 6.0 x 15   | Alloy / 6.0 x 15   |
|                          | -optional | Alloy / 6.0 x 15   | NA   |
| <b>TIRES</b>             |           |  |  |
| Type                     |           | All-season steel belted radial   | All-season steel belted radial   |
| Size                     |           | P205/65HR15  | P205/65HR15  |
| Spare                    |           | Full-size  | Full-size  |
| <b>CAPACITIES</b>        |           |  |  |
| Curb Weights (lbs.)      |           | Bucket: 3340, Bench: 3365  | Bucket: 3340, Bench: 3340  |
| Fuel Tank (gal.)         |           | 18.5   | 18.5   |
| Towing† (lbs.)           |           | 2000   | 2000   |

## Exterior

|                               |  |             |             |
|-------------------------------|--|-------------|-------------|
|                               |  |             |             |
| Wheelbase (in.)               |  | 107.1       | 107.1       |
| Overall Length (in.)          |  | 191.9       | 191.9       |
| Overall Width (in.)           |  | 70.5        | 70.5        |
| Overall Height (in.)          |  | 56.7        | 56.7        |
| Tread Width -front/rear (in.) |  | 61.0 / 60.0 | 61.0 / 60.0 |
| Drag Coefficient (Cd)         |  | .31         | .31         |

## Interior

|                                     |  |                    |                    |
|-------------------------------------|--|--------------------|--------------------|
|                                     |  |                    |                    |
| Seating Capacity                    |  | 5 / 6 <sup>2</sup> | 5 / 6 <sup>2</sup> |
| Head Room -front/rear (in.)         |  | 39.1 / 37.8        | 39.1 / 37.8        |
| Leg Room -front/rear (in.)          |  | 44.1 / 38.3        | 44.1 / 38.3        |
| Shoulder Room -front/rear (in.)     |  | 57.7 / 57.3        | 57.7 / 57.3        |
| Hip Room -front/rear (in.)          |  | 55.8 / 57.4        | 55.8 / 57.4        |
| Trunk Capacity (cu. ft.)            |  | 15.4               | 15.4               |
| Interior Passenger Vol.** (cu. ft.) |  | 105.5              | 105.5              |
| EPA Volume*** (cu. ft.)             |  | 120.9              | 120.9              |

## Safety†

### OCCUPANT RESTRAINT SYSTEMS

|                           |   |   |
|---------------------------|---|---|
| Air Bag (SRS)             | Driver and front passenger  | Driver and front passenger  |
| Side Air Bag (SRS)        | Driver and front passenger  | Driver and front passenger  |
| Seatbelts -driver         | 3-point with ELR, <sup>3,5</sup> pretensioner and force limiter     | 3-point with ELR, <sup>3,5</sup> pretensioner and force limiter     |
| -front outboard passenger | 3-point with ELR/ALR, <sup>4,5</sup> pretensioner and force limiter | 3-point with ELR/ALR, <sup>4,5</sup> pretensioner and force limiter |
| -front center passenger   | 2-point lap belt <sup>2</sup>                                       | 2-point lap belt <sup>2</sup>                                       |
| -rear passengers          | 3-point with ELR/ALR <sup>4</sup>                                   | 3-point with ELR/ALR <sup>4</sup>                                   |

### Notes:

NA Feature not available  
 — Information not available

\* Marketed as Four-Cam

\*\* Curb-to-curb

\*\*\* Power-assisted

† Requires additional equipment. Consult the 1998 Toyota Trailer Towing Guide for details and GCWR limits.

†† Does not include trunk

††† Interior volume and trunk capacity

† See "Safety" section beginning on page 10 for additional information

1 Ventilated front disc/solid rear disc

2 With optional front bench seat

3 Emergency Locking Retractor (ELR)

4 Emergency Locking Retractor (ELR)/Automatic Locking Retractor (ALR)

5 With adjustable shoulder belt anchor



# Features and Benefits

## Safety



### KEY FEATURES

Dual Air Bag Supplemental Restraint System (SRS)\*

Side Impact Air Bag Supplemental Restraint System (SRS)\*

Crumple Zones

New Improved Body Structure Design

Anti-lock Brake System (ABS)

### BENEFITS

**Helps limit the motion of the head and upper body in the event of a severe frontal collision.**

**Helps protect driver and front passenger in the event of a severe side collision.**

**Help absorb the impact of a front or rear collision.**

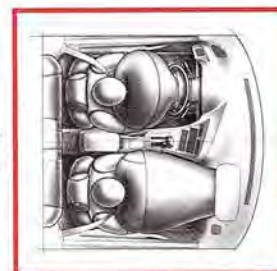
**For an improved level of safety.**

**Modulates brake pressure to avoid skids caused by wheel lock-up during panic stops.**

### Dual Air Bag Supplemental Restraint System (SRS)\*

In a severe frontal collision, sensors (located in the floor tunnel) detect the force of the impact and cause the bags to inflate within milliseconds (after it begins to happen) helping to limit the motion of the head and upper body.

Safety belts must be worn at all times for maximum protection. Air bags won't inflate in minor frontal impacts or other types of accidents.



Driver and front passenger air bags.



### Side Impact Air Bag Supplemental Restraint System (SRS)\*

New for 1998, Avalon features side impact air bags as standard equipment on all models. This supplemental restraint system helps protect

driver and front passenger in the event of a severe side collision. The air bags are mounted in the seat backs of the front seats.

## Impact Protection

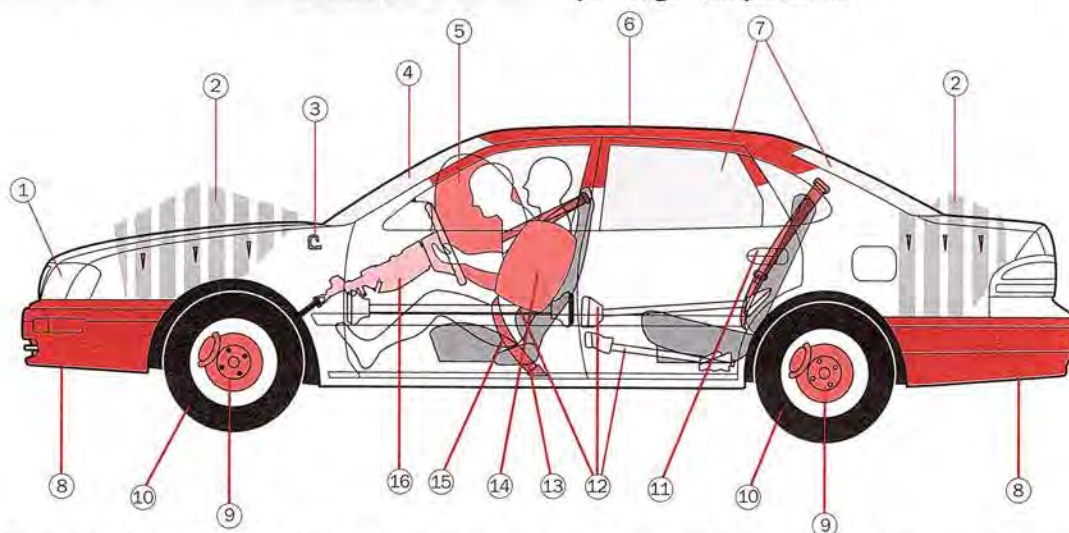
### Side-Door Beams

Steel beams located under the sheet metal in Avalon's doors help provide some protection if the Avalon is hit from the side.

- |                             |   |
|-----------------------------|---|
| 1 Multi-reflector headlamps | 10 All-season steel belted radial tires       |
| 2 Crumple zones             | 11 Child-protector rear door locks            |
| 3 Hood hold-down hooks      | 12 Side-door beams                            |
| 4 Laminated safety glass    | 13 Seatbelt pretensioner and force limiter    |
| 5 Dual air bags (SRS)*      | 14 Side impact air bags (SRS)*                |
| 6 Roof strength             | 15 3-point seatbelts                          |
| 7 Tempered safety glass     | 16 Energy-absorbing steering wheel and column |
| 8 Impact-absorbing bumpers  |   |
| 9 Disc brakes/ABS           |   |

### Crumple Zones

Protective features at the front and rear of the Avalon help absorb the impact of a collision. These pre-stressed areas in the fender, hood, and related body components are designed to crush and absorb energy during an impact. As the area successively crushes in a collision, crush energy is dissipated, which prevents much of the collision energy from reaching the passenger compartment.



\* The Toyota driver's, front passenger's and front seat mounted side impact air bags are Supplemental Restraint Systems (SRS). The driver's and front passenger's air bags are designed to inflate in a severe frontal collision. The side impact air bags are designed to inflate in severe side impact collisions. In all other accidents, the air bags will not inflate. To decrease the risk of injury from a deploying air bag, always wear seatbelts, sit upright in the middle of the seat and do not lean against the door. Do not put objects in front of an air bag or around the seat back. Do not use rearward-facing child seats in any front passenger seat. The force of a deploying air bag SRS may cause serious injury. Please see your Owner's Manual for further instructions.



# Features and Benefits



## Impact-Absorbing Bumpers

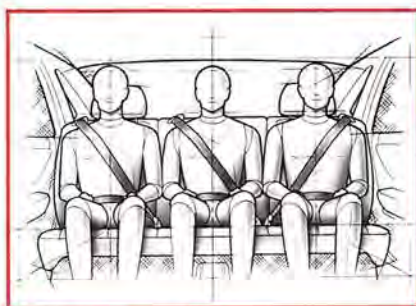
Avalon's bumpers are the **first line of defense** in the event of a front or rear-end collision. They are **designed to absorb minor, low-speed impacts without damage**. They also **meet all federal government requirements**. The bumpers are constructed of a sponge-like material supported by a steel backing beam placed on impact-absorbing mounts.

## Hood Hold-Down Hooks

Two hooks at the back end of the hood (near the cowl) **help keep the hood in place** during a frontal collision. They are designed to **reduce the chance of the hood being pushed rearward** into the passenger compartment.

## 3-Point ELR/ALR Safety Belts<sup>1</sup>

The **ELR** (Emergency Locking Retractor) allows the belts to extend or retract with occupant movement, yet **locks them during a sudden stop or upon impact**. The **ALR** (Automatic Locking Retractor) **allows a child seat to be secured without using a seatbelt locking clip**. Do not use rearward-facing child seats in front passenger seat. See Owner's Manual for child seat usage.

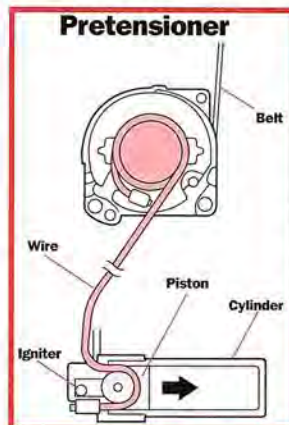


3-point ELR/ALR seatbelts for all three rear seat passengers.

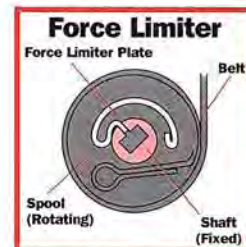
## Rear Center Passenger ELR/ALR Seatbelt

Avalon rear center passengers have a complete, 3-point seatbelt with ELR/ALR.

## Seatbelt Pretensioners and Force Limiters



New seatbelt pretensioners and force limiters are standard on the two front seats on all Avalons. **Pretensioners cinch the belt in the event of a collision**. The force limiter helps **reduce the force that is applied to the occupant's chest area**.



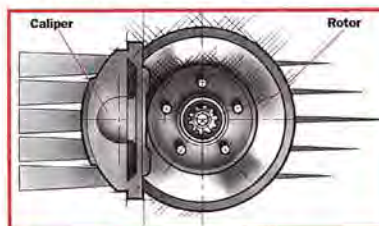
## New Improved Body Structure Design

Through many vehicle tests, the **body structure design has achieved an improved level of safety by ensuring high energy absorption from the front, rear and sides of the vehicle to minimize deformation of the passenger space in the event of a collision**. As well, the rear seat back is reinforced. This helps prevent objects in the trunk from injuring back seat passengers in the event of a frontal collision.

## Accident Avoidance

### Power-Assisted 4-Wheel Disc Brakes with Ventilated Front Rotors

Excessive heat can cause brake "fade." Components can glaze and even warp causing a reduction in braking effectiveness. Vents in the brake discs (or rotors) allow cooling air to pass through the hot disc.



**This helps reduce heat build-up to maintain stopping power, and helps lessen the chance of the brakes fading, glazing or warping.**

<sup>1</sup> ALR retractors for front outboard and all rear seating positions



# Features and Benefits

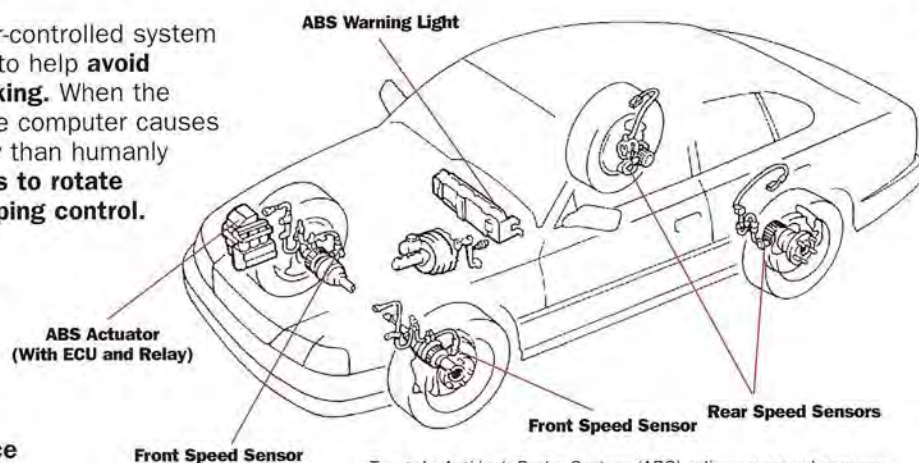


## Anti-lock Brake System (ABS)

ABS is a sophisticated computer-controlled system that regulates braking pressure to help **avoid wheel lock-up during heavy braking**. When the wheels are beginning to lock, the computer causes the brakes to pulse more rapidly than humanly possible. **This allows the wheels to rotate rather than skid for better stopping control.**

## Optional Traction Control

Traction control helps to **avoid slippage of the driving wheels** which tends to happen during starting and acceleration on slippery surfaces and helps to **maintain an optimal driving force according to the road surface conditions**. The sophisticated Toyota system is an all speed design which utilizes both brake and engine throttle control.



Toyota's Anti-lock Brake System (ABS) relies on speed sensors and a sophisticated computer to help prevent wheel lock-up.

## Personal Security

The following standard or optional features provide customers with a more "safe and secure" feeling every time they enter and use their Avalon:

### Two-Turn Door Locks

This option provides an **extra measure of security** by opening only the driver's door when the key is inserted and turned once. A second turn unlocks the passenger door.

### Anti-Lock-Out Power Door Locks

This prevents the doors from being locked if the key is left in the ignition, **helping to prevent keys being locked in the car.**

### Passenger Window Lock-Out System

When used, this optional system **disables the passenger windows** from being operated by anyone except the driver.

### Toyota Vehicle Intrusion Protection (V.I.P.)

This is an **optional break-in alarm** that flashes the headlamps and taillamps and sounds the horn when a secured Avalon is broken into. It also **disables the starter** if someone forcefully enters the car. The system is automatically armed by removing the ignition key from the ignition.

### Anti-Theft Device<sup>2</sup>

This system includes ignition interlock, horn activation, headlamps flash feature and, **new for 1998, engine immobilizer.**

### Child-Protector Rear Door Locks

These **prevent a rear door from being opened inadvertently** from the inside of the vehicle.

### Valet Trunk-Locking System

Drivers receive a separate valet key that **can only unlock the doors and operate the ignition**. It cannot be used to unlock the trunk, glove box or other storage compartments (once they have been manually locked).

### Illuminated Entry/Exit Fade Out<sup>3</sup>

Interior **lights turn on** after entering an Avalon, and **gradually fade out** after entry and exit.

### Remote Entry System<sup>3</sup>

**New design key fob** which **locks/unlocks doors and opens the trunk** from a hand-held, key-chain style transmitter. There's a new panic button on the reverse side. Also new, the interior dome light turns on by hitting the unlock button.

### Full-Size Spare Tire

Enables the driver to replace a punctured tire and **continue driving the vehicle on a full-size tire instead of a temporary spare, which is limited to a lower speed and usage.**

<sup>2</sup> Standard on XLS, optional on XL models

<sup>3</sup> Available on XLS only



# Features and Benefits

## Performance



### KEY FEATURES

### BENEFITS

3.0-L V6 DOHC\*  
24-V EFI Provides  
Great Power  
and Economy

**This V6 develops 200 hp\* and 214 lb-ft\* of torque while providing excellent fuel economy.\*\***

DOHC/4-Valves  
per Cylinder

**Allows maximum engine breathing for better performance and economy.**

Toyota Direct  
Ignition  
(Distributorless)

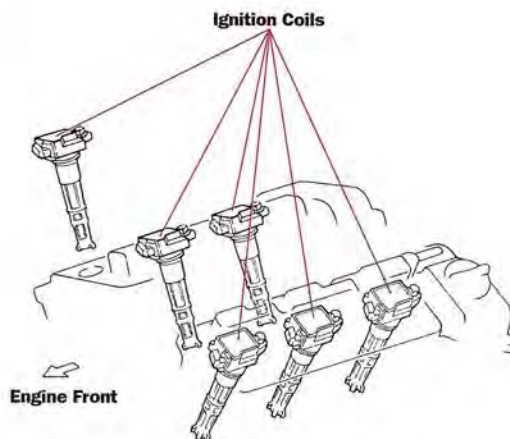
**Eliminates all moving parts by placing a compact ignition coil linked directly to each spark plug to minimize misfiring and loss of engine power.**

4ECTi  
"Intelligent"  
Automatic  
Transmission

**This transmission has a computer that networks with the engine's computer to provide virtually seamless gear changes resulting in a smoother ride.**

Anti-Vibration  
Subframes

**The front subframe helps isolate the engine's vibrations from the passenger compartment while the rear subframe does the same for the rear suspension.**



Distributorless ignition

### Toyota Direct Ignition (Distributorless)

Eliminating all moving parts within the ignition system (including the distributor cap and rotor) by placing a compact ignition coil linked directly to each of the six spark plugs minimizes misfiring and loss of engine power and eliminates spark plug wires. **The result is improved performance, greater durability/reliability and reduced maintenance.** Major service is required only every 60,000 miles.

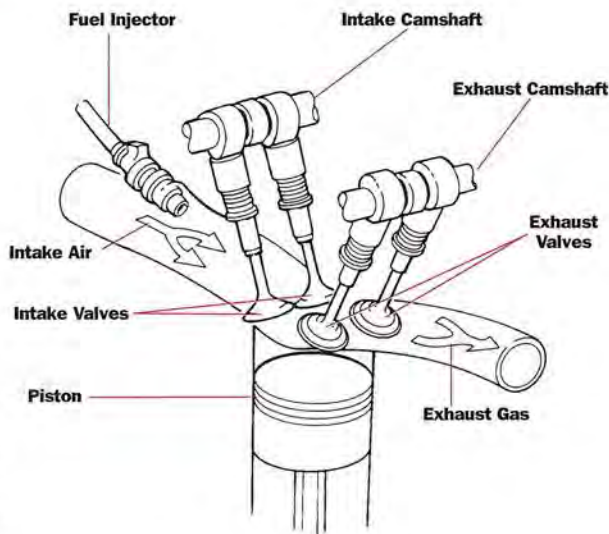
## Drivetrain

### The 3.0-L V6 DOHC\* 24-Valve EFI Engine Offers Power and Economy

Avalon delivers a **superb balance of power and economy**. Its engine achieves 200 horsepower\* at 5200 rpm and its torque is rated at 214 lb-ft\* at 4400 rpm. With the 4-speed ECTi automatic overdrive transmission, it has an EPA city/highway mileage estimate of 21/30 respectively."

### Dual Overhead Cam (DOHC) and 4-Valves per Cylinder

This arrangement of two intake and two exhaust valves per cylinder allows more fuel/air mixture into the cylinder for more efficient engine "breathing" and combustion. **This produces greater horsepower than single cam engines and higher fuel economy.** Toyota's DOHC design helps eliminate moving parts, such as rocker arms and push rods, to help make the engine smoother, quieter and more efficient.



Double overhead cam with 4-valves per cylinder

\* Marketed as Four-Cam

\*\* See Mileage Statement on back cover

+ 198 hp and 212 lb-ft of torque in states with California emissions



# Features and Benefits



## 4ECTi: The "Intelligent" Automatic Transmission

The 4ECTi transmission is **Toyota's most advanced automatic**. The transmission computer networks with the engine computer to control hydraulic shift pressure more precisely than ever. **It even adjusts for transmission wear over time**. Four specific features of the transmission are:

1. **"Normal" and "Power" modes** allow the driver to choose between a sportier feel (stays in lower gears longer and downshifts more readily) or maximum fuel economy (upshifts sooner and downshifts less readily). Note: Mode selection is bypassed when the Avalon is under heavy acceleration. The speed of pedal depressment automatically determines the sport or normal modes—the faster the pedal is depressed, the more aggressive the mode.
2. **Overdrive 4th gear** reduces engine rpm at highway speeds, which provides quieter driving and increased fuel economy.
3. **Overdrive-off switch** on the shifter, locks out the overdrive 4th gear. This prevents "gear hunting" when driving up a steep grade and adds engine braking when driving downhill.
4. **Shift shock control** momentarily selects a higher gear (other than first) when the gear selector is moved from "Neutral" or "Park" to "Drive." After that initial engagement, the computer engages first gear. Also, the engine and transmission computers communicate to momentarily retard ignition timing during all gear changes to lessen shift shock.

## Toyota Computer Controlled System (TCCS)

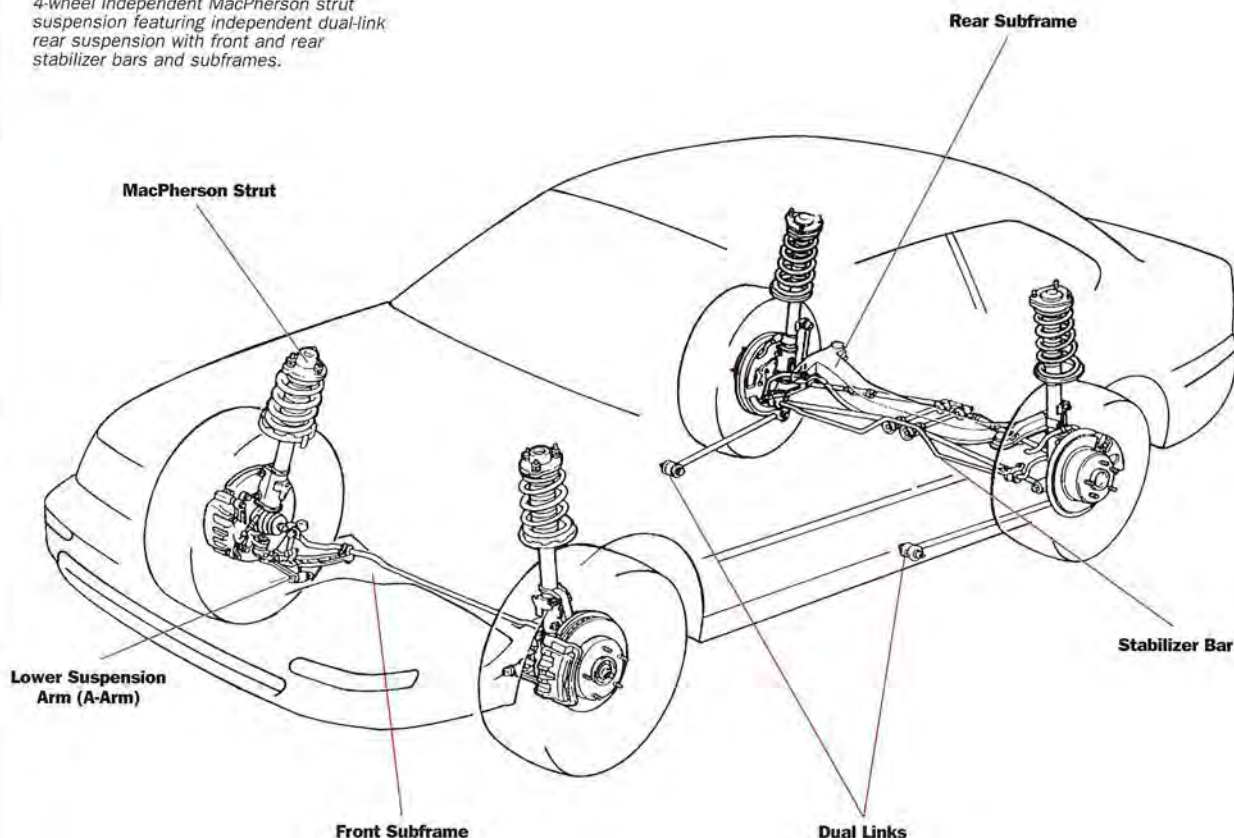
Avalon's engine utilizes a sophisticated computer to make precise adjustments to the fuel injection and ignition systems. This technology **optimizes engine operation for better performance under varying driving conditions**.



# Features and Benefits



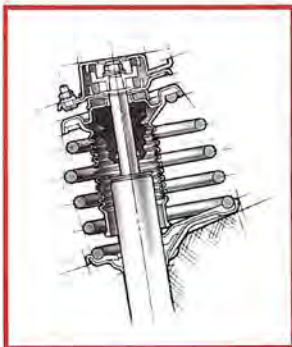
4-wheel independent MacPherson strut suspension featuring independent dual-link rear suspension with front and rear stabilizer bars and subframes.



## Chassis

### 4-Wheel Independent Suspension

Each wheel reacts independently to road imperfections with minimum affect on the other wheels. This **enhances handling and control**, especially in corners and over rough roads, and **provides an exceptional ride**.



### Gas-Filled Shock Absorbers

Pressurized gas in the Avalon's shock absorbers helps prevent air bubbles from forming, making these shocks **resistant to shock fade**, and helps provide **excellent handling and control**, and a smooth, comfortable ride.

### Front and Rear Stabilizer Bars

These suspension components reduce body roll (or leaning) while cornering, giving the Avalon **better vehicle handling and enhanced driver control**. This also reduces the "boaty" feeling sometimes associated with other large cars.

### Anti-Vibration Subframes

Separate subframes at the front and rear **reduce vibration and noise while adding rigidity for better handling**.

### Power-Assisted Rack-and-Pinion Steering

Rack-and-pinion steering is **responsive and precise**, and allows the driver to have a **better road feel**. Avalon's outstanding steering system **provides more road-feel at highway speeds**, and **requires less effort to maneuver the car in slow-speed, tight parking situations**.



# Features and Benefits

## Comfort and Convenience



### KEY FEATURES

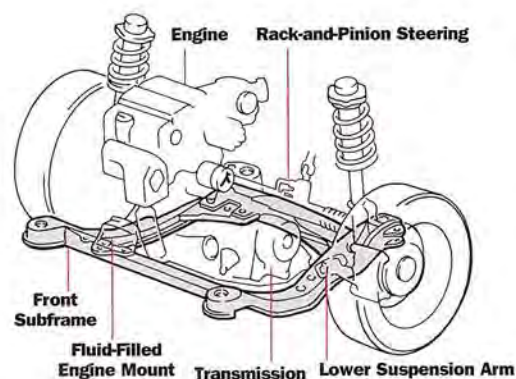
### BENEFITS

- |                                    |   |
|------------------------------------|---|
| Rigid Body Structure               | Reduces body creaks and rattles when driving over rough surfaces.   |
| Flexible Seating                   | Avalon comes as a five- or six-passenger vehicle that provides ample room and outstanding driver and passenger comfort.                         |
| Auto-Off Headlamps                 | Turns off automatically whenever the key is removed and the driver's door is opened.  |
| Extra-Large Trunk Opening          | Low lift-over height and 90° angle trunk lid opening provide easier access. New for 1998, the cargo entry space has been widened by 9.4 inches. |
| Extra Rear Seat Knee and Foot Room | Avalon's contoured front seat backs and side-mounting system provide rear passengers with more room and comfort.                                |

### Reducing Noise and Vibrations

Toyota engineers and designers go to great lengths to reduce unwanted noise, vibration and harshness (NVH) caused by the driveline, suspension, road and wind. Here are some of the ways they have helped **make the Avalon smooth and quiet:**

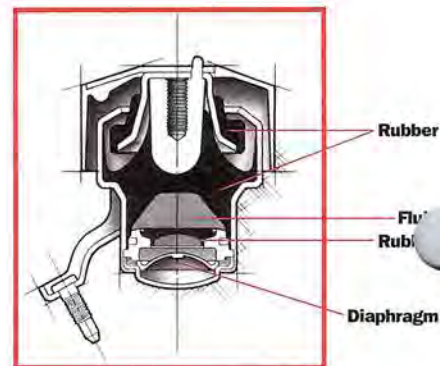
- A **highly rigid body structure** reduces creaks and rattles, especially when driving over rough surfaces.



Separate front anti-vibration subframe helps isolate vibration from the passenger compartment, reducing noise.

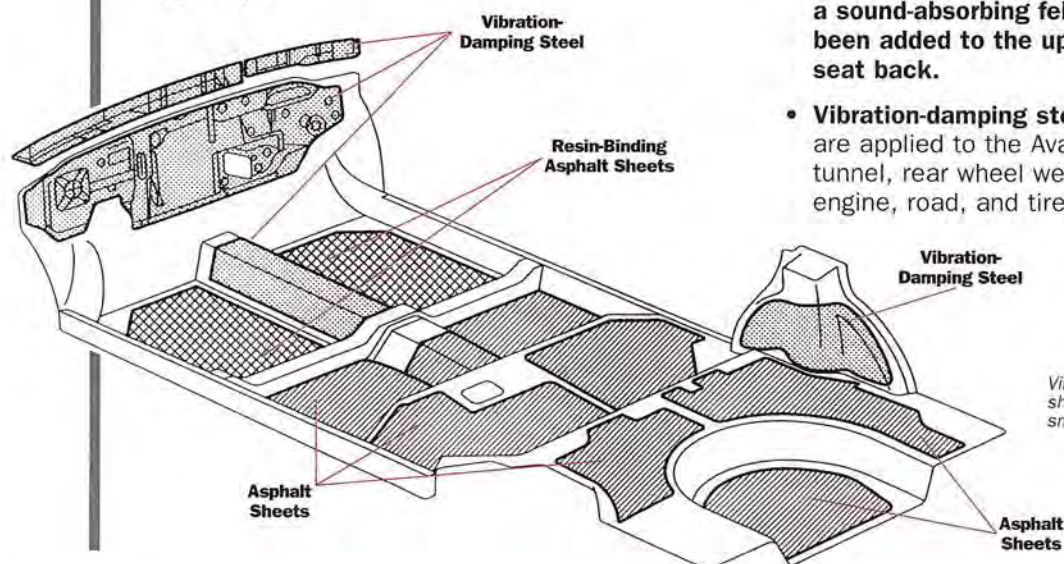
- **Front and rear anti-vibration subframes** add rigidity and help isolate vibrations and noise from the passenger cabin.

- A **fluid-filled engine mount** helps dampen vibration and reduce engine noise.
- A **two-piece aluminum oil pan** acts as an engine/transmission stiffener plate, helping to reduce vibration and noise.



Fluid-filled engine mount helps dampen vibration and absorb engine noise.

- **Foam-filled A-, B-, C- and D-pillars** help reduce the wind noise transmitted into the cabin. **New for 1998, foam material has been added at the base of the front and center pillars and a sound-absorbing felt and PVC sheet has been added to the upper back panel and rear seat back.**
- **Vibration-damping steel and asphalt sheets** are applied to the Avalon's firewall, center tunnel, rear wheel wells and floor to help reduce engine, road, and tire noise.



Vibration-damping steel and asphalt sheeting contribute to a quiet, smooth ride.



# Features and Benefits

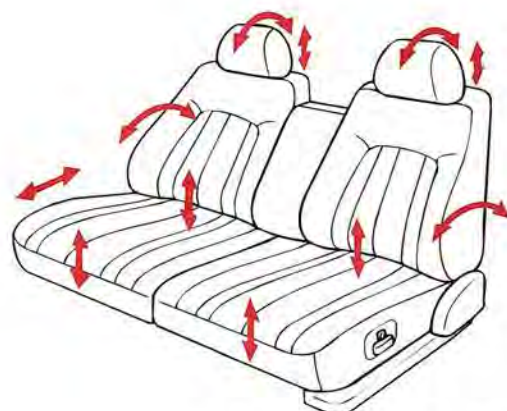


## Flexible Seating

Avalon is a large car with ample room for up to six full-size adults. It is **available as a five-passenger or six-passenger car**. The five-passenger version features two form-fitting front bucket seats with dual power controls (slide, recline, and front and rear seat cushion height) and driver's manual lumbar adjustment (optional on XL). The six-passenger Avalon has a standard six-way, power adjustable, 50/50 split front bench seat. The bench has a center fold-down armrest with a storage compartment and cup holder. So, in addition to the **ample interior space, driver and passenger comfort is excellent.**



7-way adjustable power driver's seat



6-way adjustable power driver- and passenger-side bench seat

## Memory and Heated Front Seats

New for 1998, a **memory driver's seat**, which remembers the slide, reclining, and up and down seat positions for two drivers, **as well as heated front seats, are optional** (XLS only).

## "Intelligent" Auto-On/Auto-Off Headlamps<sup>1</sup>

This system detects the existing daylight conditions and automatically turns the headlamps on or off as required. The XL comes equipped with an auto-off only feature that automatically turns lights off when the key is removed and the driver's door is opened. **These automatic systems "think" for the driver, providing an added level of convenience, safety and security.**

## Adjustable Shoulder Belt Anchors

The Avalon shoulder belt anchors can be adjusted to "custom-fit" the belts to the size of the occupants. This **allows individual drivers and passengers to position where the belt crosses the shoulder and chest in order to enhance occupant comfort.**

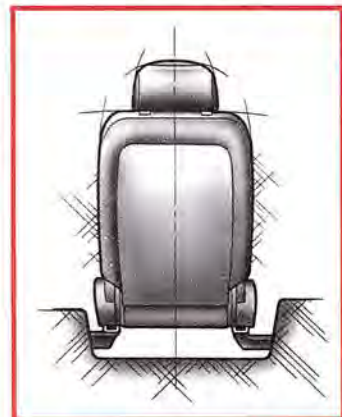


## Wider Trunk Opening

New for 1998, the cargo entry space is widened by **9.4 inches, making access to the trunk significantly easier.** This has been achieved by integrating part of the rear combination lamp assembly with the rear decklid.

## Additional Comfort and Convenience Features

- **New dual cup holder design for bench seat models.** The design of the cup holders, which are located in the armrest, has been revised to help **prevent rattling and improve appearance.** Dual cup holders on bucket seat models are located in the center console between the seats.
- **Dual illuminated visor vanity mirrors.**
- **90-degree angle trunk opening with low lift-over height** allows easy cargo loading.
- **Power windows and door locks** include two-turn locks, anti-lock-out feature, nighttime illumination, and 60 seconds retained power after ignition key is removed.
- **High Solar Energy Absorbing glass (HSEA)** helps keep Avalon's interior cooler and helps reduce interior window fogging.
- **Contoured front seat backs and underside** provide more rear seat knee room. **Side-mounted seat tracks** maximize foot room to the rear passengers.
- **Dual heated color-keyed mirrors** are standard on XLS models.<sup>2</sup>



1 Standard on XLS only  
2 Optional on XL models



# Features and Benefits

## Styling



### KEY FEATURES

New Front and Rear Exterior Design

Aerodynamics

Body Assembly

Laser Welding

Excellent Ergonomics

### BENEFITS

**For improved appearance and functionality.**

**Improve air flow around body which reduces wind noise and improves fuel economy.**

**Each side of the car is a one-piece construction. This reduces the number of parts used, which results in a stronger body with fewer build inaccuracies.**

**Allows different metals to be bonded together, resulting in stronger body panels that resist rust.**

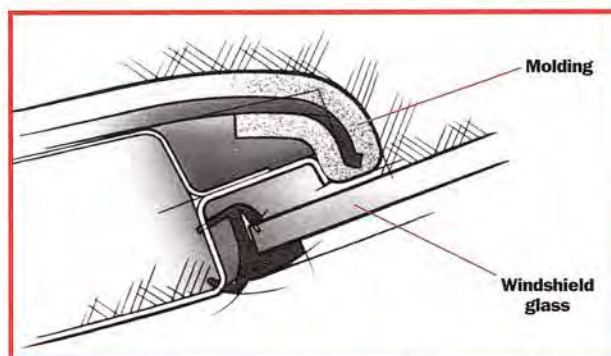
**Interior controls and instruments are easy to read, reach and operate.**

### Body Aerodynamics

The Avalon has a drag coefficient of only 0.31, low for most 4-door sedans. Its body has an aerodynamic design that smooths the air flow around the body, **enhancing Avalon's sleek styling and reducing wind noise and turbulence, contributing to improved fuel economy.**

### Close-Fit Body Panels

Tight tolerances between body panels provide the Avalon with an almost seamless look and reduced wind noise. **Body gaps are actually checked by hand during assembly.** Interior parts are hand-installed to help ensure the best possible appearance.



*One-piece windshield molding improves appearance.*

## Exterior

### New Front Style

The 1998 Avalon front view has been significantly **re-styled** with additional chrome trim, a new grille, a revised bumper, new crystal-like multi-reflector headlamps with clear covers, relocated turn signals with clear covers and new integrated fog lamps (XLS only).



### New Rear Style

The rear end has also been redesigned for 1998. The new decklid allows a wider trunk opening and incorporates a chromed license plate bezel. The combination taillamps are also wider and utilize a multi-reflector design for an upscale crystal-like look. Also, the new rear bumper cover comes without an exhaust cutout for a cleaner appearance (exhaust outlet now tilted down).

### One-Piece Windshield Molding

This feature not only improves the look of the Avalon by giving it a smoother, **more finished appearance**, but also **lowers wind noise and eliminates fit quality inconsistencies** associated with multi-piece moldings. Furthermore, this design helps to **minimize drag and turbulence**, providing better fuel economy and reduced wind noise.





# Features and Benefits



## Body Assembly

Most car bodies are assembled from many different pieces that are spot-welded together. The greater the number of pieces, the more likely build inaccuracies will occur. On the Avalon, each side of the car is a one-piece construction. These **highly accurate parts can be assembled more tightly** and with a higher degree of accuracy. This **results in strong bodies with small gaps between panels.**

## Laser Welding

Laser welding is **used to combine dissimilar metals.** For example, high strength steel used in door pillars is welded to rust-resistant galvanized steel in lower door sills before the whole door panel is stamped. This allows Toyota engineers to specify different materials in specific areas of the vehicle and stamp large body panels in one piece for a **higher quality appearance.** It also adds **rigidity which increases strength and durability.**

## Wet Sanding

After it is machine sanded, each Avalon is **wet sanded by hand.** This special care and up to four coats of paint are just two of the secrets responsible for the **lustrous, long-lasting paint finish** that characterizes Toyota vehicles.

## Bumpers

Avalon's bumpers are made of a Toyota Super Olefin Polymer material that is **highly scratch-resistant**, has **surface smoothness comparable to steel**, and has **minimal expansion/contraction dynamics.** These characteristics permit a tighter fit between bumper and body, and help to **offer exceptional durability** and **improved fuel economy** due to their lighter weight.



## Alloy Wheel Design

The Avalon XLS features a **fresh and distinctive** aluminum alloy wheel design. (optional on XL)



*Highly accurate body assembly and laser welding contribute to Avalon's sophisticated appearance.*

## Interior

### Excellent Ergonomics

- **Driver controls and switches** are logically positioned for easy operation.
- **Power windows and lock switches** are conveniently positioned on an extension of the armrest.
- The **automatic transmission selector** is designed to fit the hand.
- **Radio and air conditioner controls** are positioned high and close to the driver for easier viewing and operation.



*New simulated wood grain shown (XLS model).*



# Features and Benefits

## Quality/Dependability/Reliability and Value



### KEY FEATURES

Rust Inhibitor Process

Stainless Steel Exhaust

Gold-Plated Electrical Connectors

Toyota Warranty

### BENEFITS

A multi-step process that helps the body panels to resist rust and maintain their like-new appearance.

More durable than conventional systems and aids in catalyst warming.

Superior electrical conductors that resist corrosion and oxidation.

Stands behind each product we sell.

### Stainless Steel Exhaust

The Avalon's stainless steel exhaust system is not only **more durable** than conventional systems, it also **assists in catalyst warm up, resulting in lower emissions.**

## Reliability

### Gold-Plated Electrical Connectors

Gold, one of the best electrical conductors, **resists oxidation and corrosion, thus greatly improving reliability.** These expensive terminals are used in vital circuits such as the fuel injection computer, oxygen sensor, and air bag sensors.

### Knock Control System (KCS)

This system **reduces detonation or "pinging"** by adjusting the spark timing. The engine computer retards the spark timing when a sensor detects "pinging." This spark timing adjustment allows the engine to **reduce the risk of damage** caused by low octane fuel. It also helps provide **smoother power and better fuel economy.**

### Use of Lighter Parts

Reducing the weight of moving parts such as the pistons and the valve-train **reduces the work load of the engine** and allows it to generate more power. Furthermore, the pistons are coated with molybdenum, which reduces friction, minimizing heat build-up and wear. The result is **more power and better fuel economy.**

### Warranty

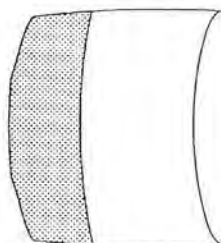
Toyota provides every Avalon with a comprehensive limited warranty:

- 3 years or 36,000 miles (whichever comes first) of **basic coverage.**
- 5 years or 60,000 miles (whichever comes first) of **powertrain coverage.**
- 5 years/unlimited mileage of **corrosion coverage.**

## Dependability

### Each Avalon Goes Through An Extensive Rust Inhibitor Process

- Each Avalon starts with **rust-resistant Excelite II steels** coated with a zinc and iron alloy. These are used for most inner and outer body panels. If a small scratch occurs, the Excelite II simply causes the paint to turn white and **helps protect the metal from rusting.**
- The body is fully dipped in a **phosphate bath** to make sure that even **the most inaccessible areas resist rust.**
- A **special wax sealer** is applied to the corners and crevices of the hood, doors and trunk lid to help protect rust-prone areas.
- **Anti-chip paint** is applied to the front edge of the hood, the lower door panels, and rocker panels to **help protect these areas from stone chips and other minor debris** thrown from the tires. **Lower door moldings** also help protect the lower doors.



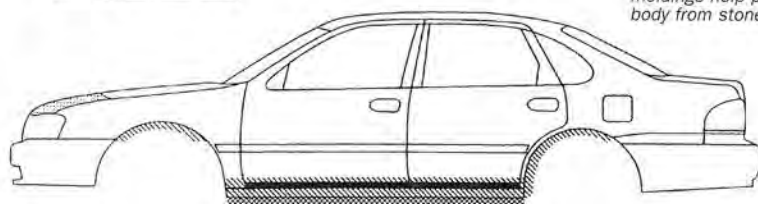
Soft Chip-Primer

Anti-Chip Paint

PVC Chipping Primer



Anti-chip paint and lower door moldings help protect Avalon's body from stone chips.





# Glossary

## **Air Bags, Dual (SRS)**

In vehicles equipped with an air bag Supplemental Restraint System (SRS), the air bag inflates with nitrogen gas within milliseconds to help limit the motion of the driver's head and upper torso to help prevent injury in a severe frontal impact. This system supplements, but does not replace, the 3-point seatbelt system, which provides primary protection. The air bag is not intended to operate during an impact other than a severe frontal impact, in which case the 3-point system is the only personal protection. In a severe frontal impact, the center main sensor senses the impact and activates the air bag system. The air bag, which emerges from the steering wheel pad, then deflates within a few tenths of a second.

The front passenger air bag is usually incorporated into the top part of the passenger-side instrument panel. This air bag emerges from an air bag module that can usually be replaced without replacing the entire instrument panel. This bag is slightly larger than the driver-side air bag and is also designed to help limit the motion of the front passenger's head and torso in case of a severe frontal impact. Do not place rearward facing child seats in the front passenger seat. Serious injury or death can occur from the deploying air bag. Place children securely in the rear seat.

## **Air Bag, Side Impact Supplemental Restraint System (SRS)**

The side air bags are mounted in the seat backs of the front seats. Impact sensors are located at the base of the B-pillar for accurate detection. This system helps protect the driver and front passenger in the event of a severe side collision. The side impact air bags are designed to inflate in severe side collisions. In all other accidents, the air bags will not inflate. To decrease the risk of injury from a deploying air bag, always wear seatbelts, sit upright in the middle of the seat and do not lean against the door. Do not put objects in front of an air bag or around the seat back. Do not use rearward-facing child seats in any front passenger seat. The force of a deploying air bag SRS may cause serious injury. Please see your Owner's Manual for further instructions.

## **Anti-Lock-Out Power Door Locks**

Prevent the doors from being locked if the keys are in the ignition.

## **Assist Grips**

Handles mounted on the inside of the vehicle. They provide a convenient place to grab and obtain leverage for entering and exiting the vehicle.

## **Auto-On/Auto-Off "Intelligent" Headlamps**

This system detects the existing daylight conditions and automatically turns the headlamps on or off as required. The XL comes equipped with an auto-off only feature that automatically turns lights off when the key is removed and the driver's door is opened. These automatic systems "think" for the driver, providing an added level of convenience, safety and security.

## **Automatic Transmission Shift Lock**

This safety device requires that the ignition be on and the brake pedal depressed before the transmission lever can be moved out of "Park." The shift lock prevents a car from being put into "Drive" or "Reverse."

## **Axle Ratio**

The number of times the driveshaft rotates to turn the axle shaft one rotation. For example, if the driveshaft gear had 10 teeth and the axle shaft gear had 30 teeth, the driveshaft gear would have to turn three times to turn the axle shaft gear once. This translates to a ratio of three-to-one (3:1).

## **Compression Ratio**

A measurement of how tightly the air-fuel mixture is compressed or squeezed within the cylinder by the piston. This can be determined by taking the total volume of the cylinder when the piston is at its lowest point (Bottom Dead Center, or BDC) and dividing it by the volume when the piston is at its highest point (Top Dead Center, or TDC). In general, higher compression ratios yield greater power.

## **Crumple Zones**

These exist at the front and rear of a vehicle to help absorb the impact of a collision. These pre-stressed areas in the fender, hood, frame and related body components are designed to deform in a predetermined manner during a collision. Their purpose is to lessen the force the impact transfers to the passenger compartment. In essence, the crumple zone of a vehicle is sacrificed to help protect the occupants.



**Double Overhead Cam (DOHC)**

An engine configuration with two overhead camshafts per row of cylinders. One camshaft operates the intake valves and the other operates the exhaust valves. This is the usual arrangement in engines with multi-valve cylinder heads. Compared to single overhead cam designs, the direct drive used in all Toyota DOHC engines requires fewer moving parts. It eliminates the rocker arm needed to activate the valves, thus improving efficiency and reducing vibration and noise. Compared to push-rod overhead valve (OHV) engines, which use an arrangement by which the camshaft is located in the engine block and opens the valves via long push-rods and rocker arms, it eliminates the need for both of these components. With fewer moving parts, there is less inertia. So an overhead cam engine can run at a higher speed and produce more power than a comparably sized push-rod engine.

**ELR/ALR 3-Point Seatbelts**

The ELR (Emergency Locking Retractor) allows the driver seatbelt to extend and retract with occupant movement, yet locks the belt during a sudden stop or upon impact. The ALR (Automatic Locking Retractor) makes it possible to secure a child seat without using a seatbelt locking clip. To activate the ALR retractor, pull the shoulder belt all the way out, then allow it to retract to the desired length. Press down firmly on the child seat as the belt retracts to buckle the child seat securely in place. The ALR retractor is deactivated by unbuckling the belt and allowing it to retract fully. Do not place rearward-facing child seats in the front passenger seat. Serious injury or death can occur from the deploying air bag. Place children securely in the rear seat. See the Owner's Manual for child seat usage.

**Engine Mount**

Engines (and transmissions) are mounted to a vehicle's frame or subframe on top of rubber and/or fluid-filled rubber devices.

**4-Speed Electronically Controlled Automatic Transmission with "Intelligence" (4ECTi)**

This transmission is a 4-speed electronically controlled automatic overdrive transmission with an added "Intelligence" function that constantly monitors driver input to match transmission shifting to driver demand.

**Halogen Headlamps**

Headlamps with special bulbs that provide brighter illumination than conventional bulbs, yet last longer and use less energy. They get their name from the halogen gas inside the bulb.

**High Solar Energy Absorbing Glass (HSEA)**

Helps keep Avalon's interior cooler and helps reduce interior window fogging and deterioration of interior components.

**Horsepower**

The measurement of the ability to do work over time. One horsepower is the amount of energy needed to raise 33,000 pounds a distance of one foot in one minute. Simply put, it is an engine performance rating that measures its ability to maintain and maximize vehicle speeds.

**Independent Suspension**

Each wheel of an independent suspension is sprung separately so that a bump affecting one does not affect the others.

**MacPherson Strut Suspension System**

An independent suspension unit consisting of both a coil spring and a shock strut. (A shock absorber is inside the strut.) It is most commonly found in the front of passenger cars, but can also be used in the rear. This is a compact design that allows efficient space utilization while providing a smooth, comfortable ride with good handling.

**Passenger Window Lock-Out System**

When used, this optional system disables the passenger windows from being operated by anyone except the driver.

**Pretensioner and Force Limiter, Seatbelt**

New seatbelt pretensioners and force limiters are standard on the two front seats on all Avalons. Pretensioners cinch the belt in the event of a collision. The force limiter helps reduce the force that is applied to the occupant's chest area.

**Rack-and-Pinion Steering**

Consists of a round pinion gear attached to the steering shaft, and a flat bar with gear teeth cut into it, called the rack. The rack and pinion mesh at a point between the front wheels. As the steering wheel is turned, the shaft from the steering column turns the pinion gear, forcing the rack either right or left along a horizontal plane. The rack is linked to the wheels via tie rods, which push and pull the wheels to steer them. Rack-and-pinion is a steering system known for its precision and responsiveness.

**Safing Sensor**

A sensor in a vehicle's air bag system designed to prevent inadvertent deployment.



# Glossary

## **Safety Glass (Laminated)**

Used in Avalon windshields, this glass consists of two panes bonded together with a sheet of plastic sandwiched in between. This keeps the glass together during an impact, reducing injuries from sharp edges.

## **Speed-Rated Tires**

A designation of the sustained high-speed capability of the tire. Special compounds and construction enable these tires to withstand the increase in heat and pressure that come at higher speeds. The speed rating is the letter on the sidewall in the tire's size: e.g., P205/65HR15 (HR=130 mph rated).

## **Subframe**

A frame separated from the vehicle's main frame, that supports specific vehicle components.

## **Torque**

A force in a twisting motion. In an engine, torque is the twisting motion at the crankshaft measured in foot-pounds (lb-ft). One foot-pound is the force of one pound acting at right angles at the end of an arm one foot long. Simply stated, torque is the engine power that gets a vehicle to speed, felt especially at off-line take-off and during acceleration.

## **Toyota Computer Controlled System (TCCS)**

A system used in all Toyota vehicles to monitor a variety of factors, including engine speed, engine temperature, air temperature and engine load. This information is sent to a sophisticated computer, which then coordinates adjustments to the fuel-injection and ignition system. This technology can optimize engine operation for emissions, performance and efficiency under varying driving conditions.

## **Toyota Direct Ignition (Distributorless)**

Eliminates conventional components such as the cap and rotor. Each spark plug or pair of plugs gets a separate coil. Each coil receives low voltage from conventional wires and turns this low voltage into high voltage, sending the pulse directly to the spark plug. Improved performance and durability are achieved.

## **Toyota Vehicle Intrusion Protection (V.I.P.)**

This is an optional break-in alarm that flashes the headlamps and taillamps and sounds the horn when a secured Avalon is broken into. It also disables the starter if someone forcefully enters the car. The system is automatically armed by removing the ignition key from the ignition.

## **Traction Control**

Sophisticated Toyota system is an all speed design which utilizes both brake and engine throttle control. Traction control helps to avoid slippage of the driving wheels which tends to happen during starting and acceleration on slippery surfaces and to maintain an optimal driving force according to the road surface conditions. The system eliminates the need for a subtle accelerator pedal operation and helps ensure vehicle control when starting or accelerating on slippery roads.

## **Two-Turn Door Locks**

This option provides safety by opening the driver's door only when the key is inserted and turned once. A second turn unlocks the passenger door.

## **Unibody Construction**

The floorpan of a vehicle and chassis are connected to form a single structure. There is no separate frame. By welding all body panels together to form the vehicle's frame, it is possible to build in strength and rigidity with less weight.

## **Valet Trunk-Locking System**

A locking system with two different keys. One key only opens the doors and operates the ignition. The second key opens all locks, including those for the glove box and trunk or rear hatch, and operates the ignition. The purpose is to provide a valet with a key that operates the ignition, but does not unlock the storage compartments. On cars with folding seat backs, this locking system also includes special seat latches to help keep the contents of the trunk or hatch secure.

# **N**otes

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Any EPA fuel economy figures included in this publication are estimates to be compared with "estimated mpg" of other vehicles. Drivers may get different mileage depending on the speed they drive, weather conditions, trip length, condition of the vehicle and vehicle equipment. Mileage in actual driving will probably be less than EPA estimated fuel economy for highway driving.

Retail Development  
M/N 00623-98001-D



**AVOLON**

| EXTERIOR               | CODE  | INTERIOR | CODE   | XL CLOTH* | XL LEATHER <sup>1</sup> | XLS CLOTH | XLS LEATHER <sup>1</sup> |
|------------------------|-------|----------|--------|-----------|-------------------------|-----------|--------------------------|
| Diamond White Pearl    | (051) | Black    | Black  | (21)      | ■                       | ■         | ■                        |
|                        |       | Ivory    | Quartz | (43)      | ■                       | ■         | ■                        |
|                        |       |          | Ivory  | (44)      | ■                       | ■         | ■                        |
|                        |       | Black    | Black  | (21)      | ■                       | ■         | ■                        |
|                        |       | Quartz   | Quartz | (43)      | ■                       | ■         | ■                        |
|                        |       | Ivory    | Ivory  | (44)      | ■                       | ■         | ■                        |
| Napa Burgundy Pearl*   | (3M6) | Quartz   | Quartz | (43)      | ■                       | ■         | ■                        |
|                        |       | Ivory    | Ivory  | (44)      | ■                       | ■         | ■                        |
| Vintage Rose Metallic  | (4N5) | Black    | Black  | (21)      | ■                       | ■         | ■                        |
|                        |       | Quartz   | Quartz | (43)      | ■                       | ■         | ■                        |
| Sable Pearl*           | (4N7) | Ivory    | Ivory  | (44)      | ■                       | ■         | ■                        |
| Golden Sand Metallic*  | (578) | Ivory    | Ivory  | (44)      | ■                       | ■         | ■                        |
| Silver Spruce Metallic | (6M3) | Quartz   | Quartz | (43)      | ■                       | ■         | ■                        |
|                        |       | Ivory    | Ivory  | (44)      | ■                       | ■         | ■                        |
| Classic Green Pearl*   | (6P2) | Black    | Black  | (21)      | ■                       | ■         | ■                        |
|                        |       | Ivory    | Ivory  | (44)      | ■                       | ■         | ■                        |
| Blue Velvet Pearl      | (8L3) | Ivory    | Ivory  | (44)      | ■                       | ■         | ■                        |

Notes:  
\*New for 1998  
(1) Optional



XL

XL







Diamond White Pearl (051)

Black (202)

Napa Burgundy Pearl\* (3M6)

Vintage Rose Metallic (4N5)



Sable Pearl\* (4N7)

Golden Sand Metallic\* (578)

Silver Spruce Metallic (6M3)

Classic Green Pearl\* (6P2)



Blue Velvet Pearl (8L3)

