FOREWORD

To assist you in your service activities, this manual explains the main characteristics of the 1993 model year vehicles, in particular providing a technical explanation of the construction and operation of new mechanisms and new technology used.

This manual consists of the following sections.

1. **General 1993 Features** — Changed features common to all models are explained.

2. ~ **4. Each Model** — Changed features for each model are explained.

5. **Appendix** — Major technical specifications of the vehicle.

CAUTION, NOTICE, ***REFERENCE*** and **NOTE** are used in the following ways:

CAUTION	A potentially hazardous situation which could result in injury to people may occur if instructions on what to do or not do are ignored.
NOTICE	Damage to the vehicle or components may occur if instructions on what to do or not do are ignored.
REFERENCE	Explains the theory behind mechanisms and techniques.
NOTE	Notes or comments not included under the above 3 titles.

For detailed service specifications and repair procedures, refer to the following Repair Manuals:

Manual Name		Pub. No.
° 1993 LEXUS SC 300 Repair Manual	Vol. 1	RM320U1
	Vol. 2	RM320U2
° 1993 LEXUS SC 400 Repair Manual	Vol. 1	RM302U1
	Vol. 2	RM302U2
° 1993 LEXUS LS 400 Repair Manual	Vol. 1	RM300U1
	Vol. 2	RM300U2
° 1993 LEXUS ES 300 Electrical Wiring Diagram		EWD159U
° 1993 LEXUS SC 300/400 Electrical Wiring Diagram		EWD165U
° 1993 LEXUS LS 400 Electrical Wiring Diagram		EWD164U

All information contained herein is the most up–to–date at the time of publication. We reserve the right to make changes without prior notice.

TOYOTA MOTOR CORPORATION

ES 300

ES 300

OUTLINE OF NEW FEATURES

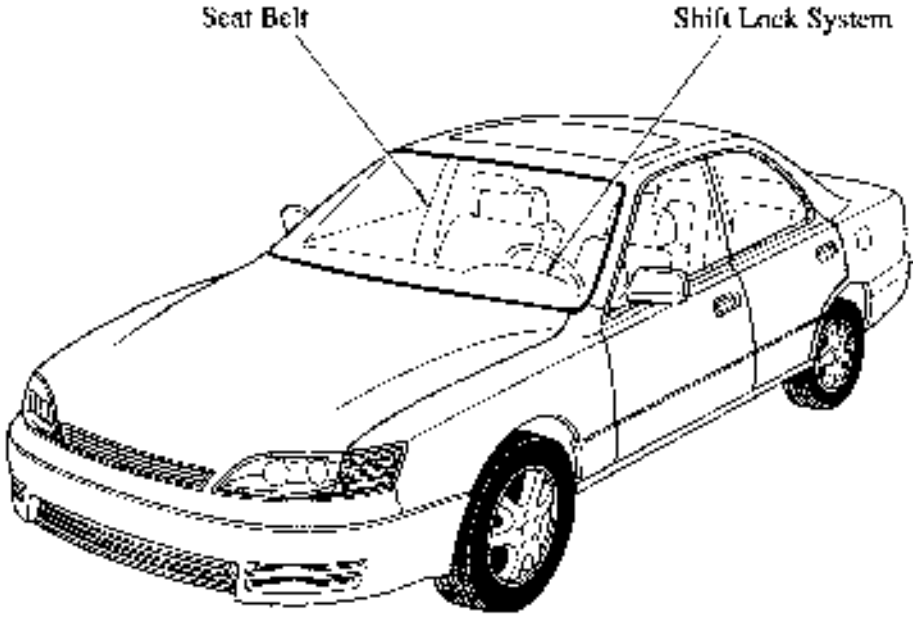
The ES300, which is favorably received as a distinctive sporty personal sedan, offers the following changes in the ’93 model:

1. Shift Lock System (See General 1993 Features for details)

The shift lever of automatic transmission vehicles has a cap over the shift lock override button.

2. SEAT BELT (See General 1993 Features for details)

The front passenger and rear seats (except center) have an ALR (Automatic Locking Retractor) function in their 3–point ELR (Emergency Locking Retractor).



MODEL CODE

V C V 1 0 L – B T P G K A

② ③ ④ ⑤ ⑥ ⑦ ⑧

	BASIC MODEL CODE
	VCV10: With 3VZ–FE Engine

②	STEERING WHEEL POSITION
	L: Left–Hand Drive

③	MODEL NAME
	B: ES 300

④	BODY TYPE
	T: 4–Door Sedan

⑤	GEARSHIFT TYPE
	M: 5–Speed Manual P: 4–Speed Automatic

⑥	GRADE
	G: —

⑦	ENGINE SPECIFICATION
	K: DOHC and MFI* [EFI]

⑧	DESTINATION
	A: U.S.A. K: Canada

*MFI (Multiport Fuel Injection)

MODEL LINE–UP

TRANSAXLE				5–Speed Manual	4–Speed Automatic
DESTINATION	ENGINE	BODY TYPE	GRADE	E53	A540E
U.S.A.	3VZ–FE	4–Door Sedan	—	VCV10L–BTMGKA	VCV10L–BTPGKA
Canada				VCV10L–BTMGKK	VCV10L–BTPGKK

– **MEMO** –

General 1993 Features

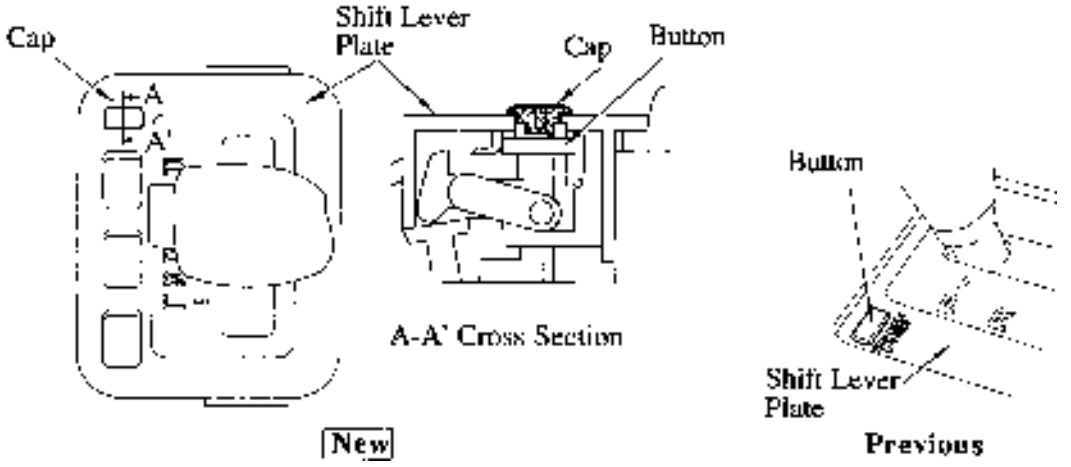
GENERAL 1993 FEATURES

SHIFT LOCK SYSTEM

■ SHIFT LOCK OVERRIDE BUTTON

The shift lock system of automatic transmission vehicles, beginning with the ’93 models is provided with a cap on the shift lock override button. The shift lock override button previously protruded from the shift lever plate, but now, the button is below the plate and covered by a cap.

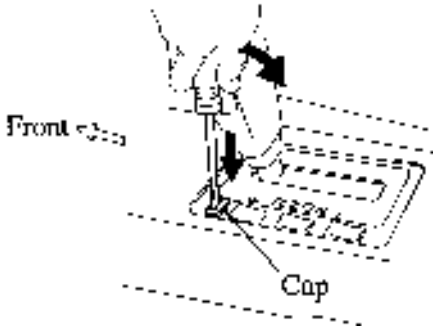
▶For LS400°



NOTE: To operate the shift lock override button:

② Remove the cap with a flat–blade screwdriver or equivalent.

③ Insert the screwdriver or equivalent into the hole to push the button.



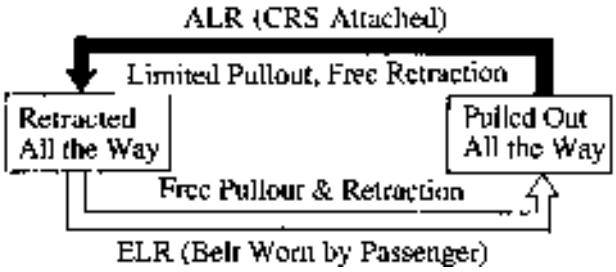
SEAT BELT

■ ELR WITH AIR FUNCTION

All ’93 models now offer an ALR (Automatic Locking Retractor) function in their 3–point ELR (Emergency Locking Retractor) of the front passenger and rear seats. This function is the same as the 3–point ELR rear seat belts previously used in the LS400.

This means that when the seat belt is fully extended it operates as an ALR for easy use when securing the CRS (Child Restraint System), making use of a locking clip unnecessary.

▶Retractor Activating Modes°



APPENDIX

MAJOR TECHNICAL SPECIFICATIONS

▶ ES300

Item		Area	U.S.A.		Canada	
Body Type			4–Door Sedan		4–Door Sedan	
Vehicle Grade			—	—	—	—
Model Code			VCV10L–BTMGKA	VCV10L–BTPGKA	VCV10L–BTMGKK	VCV10L–BTPGKK
Major Dimensions & Vehicle Weights	Overall	Length mm (in.)	4770 (187.8)	←	←	←
		Width mm (in.)	1780 (70.1)	←	←	←
		Height mm (in.)	1370 (53.9)	←	←	←
	Wheel Base	mm (in.)	2620 (103.1)	←	←	←
	Tread	Front mm (in.)	1550 (61.0)	←	←	←
		Rear mm (in.)	1500 (59.1)	←	←	←
	Effective Head Room	Front mm (in.)	960 (37.8), 926 (36.5)*	←	←	←
		Rear mm (in.)	930 (36.6), 909 (35.8)*	←	←	←
	Effective Leg Room	Front mm (in.)	1105 (43.5)	←	←	←
		Rear mm (in.)	588 (23.1)	←	←	←
	Shoulder Room	Front mm (in.)	1389 (54.7)	←	←	←
		Rear mm (in.)	1398 (55.0)	←	←	←
	Overhang	Front mm (in.)	1005 (39.6)	←	←	←
		Rear mm (in.)	1145 (45.1)	←	←	←
	Min. Running Ground Clearance	mm (in.)	130 (5.1)	←	←	←
	Angle of Approach	degrees	16°	←	←	←
	Angle of Departure	degrees	15°	←	←	←
	Curb Weight	Front kg (lb)	955 (2105)	975 (2149)	955 (2105)	975 (2149)
		Rear kg (lb)	570 (1257)	←	←	←
		Total kg (lb)	1525 (3362)	1545 (3406)	1525 (3362)	1545 (3406)
	Gross Vehicle Weight	Front kg (lb)	1095 (2415)	←	←	←
		Rear kg (lb)	910 (2005)	←	←	←
		Total kg (lb)	2005 (4420)	←	←	←
	Fuel Tank Capacity	L (U.S. gal., lmp. gal.)	70 (18.49, 15.40)	←	←	←
	Luggage Compartment Capacity	m^3 (cu.ft)	0.395 (13.9)	←	←	←
Performance	Max. Speed	km/h (mph)	—	—	—	—
	Max. Cruising Speed	km/h (mph)	175 (109)	170 (106)	175 (109)	170 (106)
	Acceleration	0 to 100 km/h sec.	8.0	8.7	8.0	8.7
		0 to 400 m sec.	—	—	—	—
	Max. Permissible Speed	1st Gear km/h (mph)	58 (36)	66 (41)	58 (36)	66 (41)
		2nd Gear km/h (mph)	102 (63)	121 (75)	102 (63)	121 (75)
		3rd Gear km/h (mph)	157 (98)	—	157 (98)	—
		4th Gear km/h (mph)	—	—	—	—
	Turning Diameter (Outside Front)	Wall to Wall m (ft.)	11.8 (38.7)	←	←	←
		Curb to Curb m (ft.)	11.2 (36.7)	←	←	←
Engine	Engine Type		3VZ–FE	←	←	←
	Valve Mechanism		4–Valves, DOHC	←	←	←
	Bore x Stroke	mm (in.)	87.5 x 83.0 (3.44 x 3.23)	←	←	←
	Displacement	cm^3 (cu.in.)	2959 (180.6)	←	←	←
	Compression Ratio		9.6 : 1	←	←	←
	Carburetor Type		MFI	←	←	←
	Research Octane No.	RON	96	←	←	←
	Max. Output (SAE–NET)	kW/rpm (HP @ rpm)	138/5200 (185 @ 5200)	←	←	←
	Max. Torque (SAE–NET)	N·m/rpm (lb–ft @ rpm)	264/4400 (195 @ 4400)	←	←	←
Engine Electrical	Battery Capacity (5HR)	Voltage & Amp. hr.	12–52	←	←	←
	Alternator Output	Watts	960	←	←	←
	Starter Output	kW	1.4	←	←	←
Chassis	Clutch Type		DST	—	DST	—
	Transaxle Type		E53	A540E	E53	A540E
	Transmission Gear Ratio	In First	3.583	2.810	3.583	2.810
		In Second	2.045	1.549	2.045	1.549
		In Third	1.333	1.000	1.333	1.000
		In Fourth	1.028	0.734	1.028	0.734
		In Fifth	0.820	—	0.820	—
		In Reverse	3.583	2.296	3.583	2.296
	Counter Gear Ratio		—	1.027	—	1.027
	Differential Gear Ratio (Final)		3.625	3.933	3.625	3.933
	Brake Type	Front	Ventilated Disc	←	←	←
		Rear	Solid Disc	←	←	←
	Parking Brake Type		Drum	←	←	←
	Brake Booster Type and Size	in.	Tandem 8" + 9"	←	←	←
	Proportioning Valve Type		Dual–LSPV	←	←	←
	Suspension Type	Front	MacPherson Strut	←	←	←
		Rear	MacPherson Strut	←	←	←
	Stabilizer Bar	Front	STD	←	←	←
		Rear	STD	←	←	←
	Steering Gear Type		Rack & Pinion	←	←	←
	Steering Gear Ratio (Overall)		15.9	←	←	←
	Power Steering Type		Integral Type	←	←	←

* : With Moon Roof