

## FOREWORD

To assist you in your sales and service activities, this manual explains the main characteristics of the 2006 model year vehicles, in particular providing a technical explanation of the construction and operation of new mechanisms and new technology used.

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

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

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**

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## GENERAL 2006 FEATURES

### DESCRIPTION

The 2006 models have the following system:

### ENGINE

#### ■ MAXIMUM OUTPUT AND TORQUE

On the following models, maximum output and torque rating is determined by revised SAE 1349 standard. For details, refer to “Major Technical Specifications” for each model.

- Avalon
- Camry
- Corolla
- Corolla Matrix
- Toyota Tundra
- Sequoia
- Toyota Tacoma
- 4Runner
- Highlander
- Sienna

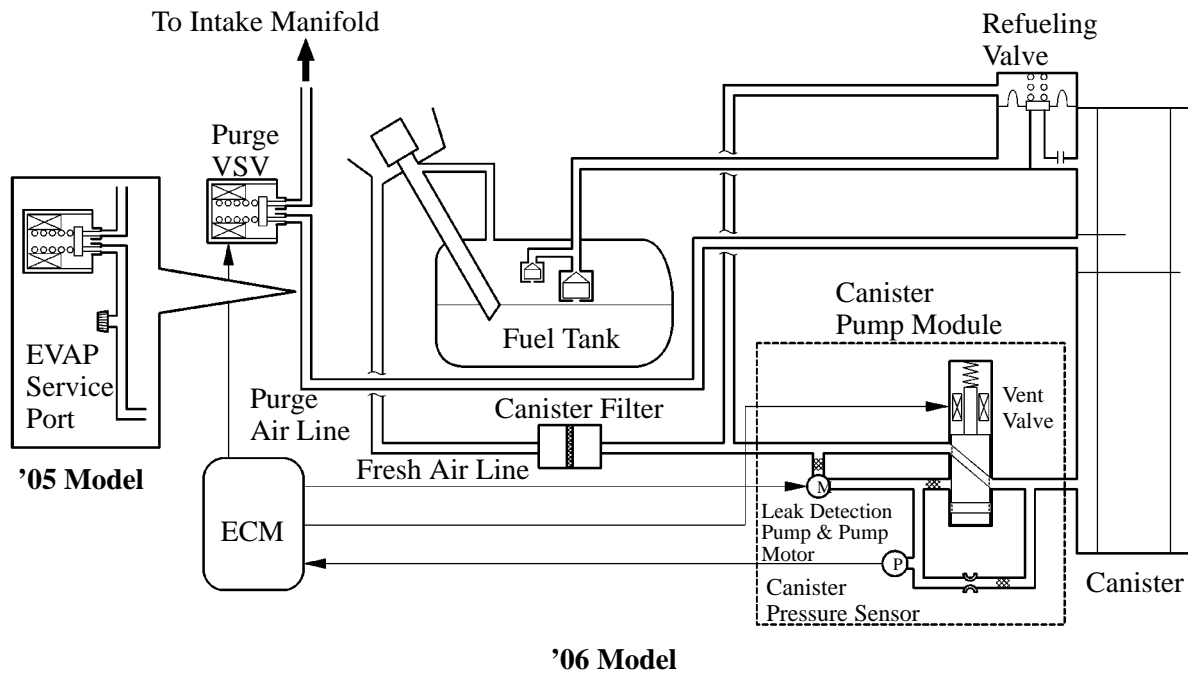
#### ■ EVAPORATIVE EMISSION CONTROL SYSTEM

The EVAP (evaporative) service port provided on the '05 models is removed from the following '06 models in which the key-off monitor evaporative emission control system is used.

Model	Key-off Monitor Evaporative Emission Control System Status of Use
Avalon	Carry over
Corolla	Carry over
Corolla Matrix 2WD Model	Carry over
4Runner	Carry over

Also on the following model, the key-off monitor evaporative emission control system without EVAP service port is newly used.

Model	Key-off Monitor Evaporative Emission Control System Status of Use
Corolla Matrix 4WD Model	New



### Service Tip

The canister pump module performs fuel evaporative emission leakage check. This check is done approximately five hours after the engine is turned off. So you may hear a sound coming from underneath the vehicle near the luggage compartment for several minutes. It does not indicate a malfunction.

### NOTICE

The pinpoint pressure test procedure is carried out by pressurizing the fresh air line that runs from the canister pump module to the fuel filler neck.

As further information about the specific pinpoint pressure test locations and procedures is different according to the models, refer to the each following Repair Manual.

- The 2006 Avalon Repair Manual (Pub. No. RM00A0U)
- The 2006 Corolla Repair Manual (Pub. No. RM00H0U)
- The 2006 Corolla Matrix Repair Manual (Pub. No. RM00F0U)
- The 2006 4Runner Repair Manual (Pub. No. RM00T0U)

- MEMO -

## **CAMRY**

### **OUTLINE OF NEW FEATURES**

The 2006 model is basically a carry-over from the 2005 model year.

## MODEL CODE

**ACV30 L - A E M N K A**  
 1                      2                      3                      4                      5                      6                      7                      8

1	BASIC MODEL CODE
	ACV30: With 2AZ-FE Engine MCV30: With 1MZ-FE Engine MCV31: With 3MZ-FE Engine

5	GEAR SHIFT TYPE
	M: 5-Speed Manual A: 5-Speed Automatic

3

2	STEERING WHEEL POSITION
	L: Left-Hand Drive

6	GRADE
	N: LE G: XLE S: SE

3	MODEL NAME
	A: Camry (Produced by TMC* <sup>1</sup> ) C: Camry (Produced by TMMK* <sup>2</sup> )

7	ENGINE SPECIFICATION
	K: DOHC and SFI

4	BODY TYPE
	E: 4-Door Sedan

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

\*<sup>1</sup> TMC: Toyota Motor Corporation\*<sup>2</sup> TMMK: Toyota Motor Manufacturing, Kentucky, Inc.

## MODEL LINE-UP

DESTINA- TION	ENGINE	BODY TYPE	GRADE	TRANSAXLE		
				5-Speed Manual	5-Speed Automatic	
				E351	U250E	U151E
U.S.A. and Canada	2AZ-FE	4-Door Sedan	LE	ACV30L-AEMNKA	ACV30L-AEANKA ACV30L-CEANKA	—
			XLE	—	ACV30L-AEAGKA ACV30L-CEAGKA	—
			SE	ACV30L-AEMSKA	ACV30L-AEASKA ACV30L-CEASKA	—
	1MZ-FE		LE	—	—	MCV30L-AEANKA MCV30L-CEANKA
			XLE	—	—	MCV30L-AEAGKA MCV30L-CEAGKA
	3MZ-FE		SE	—	—	MCV31L-AEASKA MCV31L-CEASKA

## CAMRY - MAJOR TECHNICAL SPECIFICATIONS

## MAJOR TECHNICAL SPECIFICATIONS

Item			Area		U.S.A. and Canada			
Body Type					4-Door Sedan			
Vehicle Grade					LE		XLE	SE
Model Code					ACV30L-AEMNKA	ACV30L-A (C) EANKA	ACV30L-A (C) EAGKA	ACV30L-AEMSKA
Major Dimensions & Vehicle Weights	Overall	Length	mm (in.)	4805 (189.2)	4805 (189.2)	4805 (189.2)	4805 (189.2)	
		Width	mm (in.)	1795 (70.7)	1795 (70.7)	1795 (70.7)	1795 (70.7)	
		Height*	mm (in.)	1490 (58.7)	1490 (58.7)	1505 (59.3)	1505 (59.3)	
	Wheel Base		mm (in.)	2720 (107.1)	2720 (107.1)	2720 (107.1)	2720 (107.1)	
	Tread	Front	mm (in.)	1545 (60.8)	1545 (60.8)	1545 (60.8)	1545 (60.8)	
		Rear	mm (in.)	1535 (60.4)	1535 (60.4)	1535 (60.4)	1535 (60.4)	
	Effective Head Room	Front	mm (in.)	997 (39.9), 975 (38.4)*1	997 (39.9), 975 (38.4)*1	997 (39.9), 975 (38.4)*1	997 (39.9), 975 (38.4)*1	
		Rear	mm (in.)	973 (38.3), 970 (38.2)*1	973 (38.3), 970 (38.2)*1	973 (38.3), 970 (38.2)*1	973 (38.3), 970 (38.2)*1	
	Effective Leg Room	Front	mm (in.)	1053 (41.5)	1053 (41.5)	1053 (41.5)	1053 (41.5)	
		Rear	mm (in.)	960 (37.8)	960 (37.8)	960 (37.8)	960 (37.8)	
	Shoulder Room	Front	mm (in.)	1460 (57.5)	1460 (57.5)	1460 (57.5)	1460 (57.5)	
		Rear	mm (in.)	1440 (56.7)	1440 (56.7)	1440 (56.7)	1440 (56.7)	
	Overhang	Front	mm (in.)	945 (37.2)	945 (37.2)	945 (37.2)	945 (37.2)	
		Rear	mm (in.)	1140 (44.9)	1140 (44.9)	1140 (44.9)	1140 (44.9)	
	Min. Running Ground Clearance		mm (in.)	150 (5.9)	150 (5.9)	150 (5.9)	150 (5.9)	
	Angle of Approach		degrees	15	15	15.7	15.7	
	Angle of Departure		degrees	16.6	16.6	16.6	16.6	
	Curb Weight	Front	kg (lb)	825 (1819)	855 (1885)*2, 860 (1896)*3	875 (1929)*2, 880 (1940)*3	835 (1841)	
		Rear	kg (lb)	585 (1290)	580 (1896)	595 (1312)	600 (1323)	
		Total	kg (lb)	1410 (3108)	1435 (3164)*2, 1440 (3175)*3	1470 (3241)*2, 1475 (3252)*3	1435 (3164)	
	Gross Vehicle Weight	Front	kg (lb)	960 (2116)	990 (2183)	1000 (2205)	965 (2127)	
		Rear	kg (lb)	920 (2028)	915 (2017)	925 (2039)	935 (2061)	
		Total	kg (lb)	1880 (4145)	1905 (4200)	1925 (4244)	1900 (4189)	
	Fuel Tank Capacity ℓ (US.gal, Imp.gal)		70 (18.5, 15.4)	70 (18.5, 15.4)	70 (18.5, 15.4)	70 (18.5, 15.4)		
	Luggage Compartment Capacity m³ (cu.ft.)		0.47 (16.7)	0.47 (16.7)	0.47 (16.7)	0.47 (16.7)		
Performance	Max. Speed km / h (mph)		190 (118)	190 (118)	190 (118)	190 (118)		
	Max. Cruising Speed km / h (mph)		—	—	—	—		
	Acceleration	0 to 60 km / h sec.	8.9	9.9, 9.8*4	9.9, 9.8*4	8.9		
		0 to 400 m sec.	—	—	—	—		
	Max. Permissible Speed	1st Gear km / h (mph)	52 (32)	64 (40)	65 (41)	53 (33)		
		2nd Gear km / h (mph)	89 (55)	115 (71)	118 (73)	92 (57)		
		3rd Gear km / h (mph)	137 (85)	—	—	141 (88)		
		4th Gear km / h (mph)	189 (117)	—	—	194 (120)		
	Turning Diameter (Outside Front)	Wall to Wall m (ft.)	11.4 (37.4)	11.4 (37.4)	12.0 (39.4)	12.0 (39.4)		
		Curb to Curb m (ft.)	10.6 (34.8)	10.6 (34.8)	11.2 (36.7)	11.2 (36.7)		
Engine	Engine Type		2AZ-FE	2AZ-FE	2AZ-FE	2AZ-FE		
	Valve Mechanism		16-Valve, DOHC	16-Valve, DOHC	16-Valve, DOHC	16-Valve, DOHC		
	Bore x Stroke mm (in.)		88.5 x 96.0 (3.48 x 3.78)	88.5 x 96.0 (3.48 x 3.78)	88.5 x 96.0 (3.48 x 3.78)	88.5 x 96.0 (3.48 x 3.78)		
	Displacement cm³ (cu.in.)		2362 (144.2)	2362 (144.2)	2362 (144.2)	2362 (144.2)		
	Compression Ratio		9.6 : 1	9.6 : 1	9.6 : 1	9.6 : 1		
	Fuel System		SFI	SFI	SFI	SFI		
	Octane Rating		87 or Higher	87 or Higher	87 or Higher	87 or Higher		
	Max. Output (SAE-NET)*5 kW / rpm (HP@rpm)		115 / 5700 (154@5700)	115 / 5700 (154@5700), 108 / 5600 (145@5600)*4	115 / 5700 (154@5700), 108 / 5600 (145@5600)*4	115 / 5700 (154@5700)		
Engine Electrical	Max. Torque (SAE-NET)*5 N·m / rpm (lb-ft@rpm)		217 / 4000 (160@4000)	217 / 4000 (160@4000), 214 / 4000 (158@4000)*4	217 / 4000 (160@4000), 214 / 4000 (158@4000)*4	217 / 4000 (158@4000)		
	Battery Capacity (5HR) Voltage & Amp. hr.		12-48*6, 12-55*7	12-48*6, 12-55*7	12-48*6, 12-55*7	12-48*6, 12-55*7		
Chassis	Generator Output Watts		1200	1200	1200	1200		
	Starter Output kW		1.6	1.6	1.6	1.6		
	Clutch Type		Dry, Single Plate, Diaphragm	—	—	Dry, Single Plate, Diaphragm		
	Transmission Type		E351	U250E	U250E	E351		
	Transmission Gear Ratio*9	In First	3.538	3.943	3.943	3.538		
		In Second	2.045	2.197	2.197	2.045		
		In Third	1.333	1.413	1.413	1.333		
		In Fourth	0.972	0.975	0.975	0.972		
		In Fifth	0.731	0.703	0.703	0.731		
		In Reverse	3.583	3.145	3.145	3.583		
	Differential Gear Ratio		3.944	3.391	3.391	3.944		
	Differential Gear size in.		—	—	—	—		
	Brake Type	Front	Ventilated Disc	Ventilated Disc	Ventilated Disc	Ventilated Disc		
		Rear	Leading-Trailing Drum / Solid Disc*8	Leading-Trailing Drum / Solid Disc*8	Solid Disc	Solid Disc		
	Parking Brake Type		Leading-Trailing Drum / Duo-Servo Drum*8	Leading-Trailing Drum / Duo-Servo Drum*8	Duo-Servo Drum	Duo-Servo Drum		
	Brake Booster Type and Size in.		Single 10.5"	Single 10.5"	Single 10.5"	Single 10.5"		
	Proportioning Valve Type		—	—	—	—		
	Suspension Type	Front	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut		
		Rear	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut		
	Stabilizer Bar	Front	Standard	Standard	Standard	Standard		
		Rear	Standard	Standard	Standard	Standard		
Steering Gear Type		Rack and Pinion	Rack and Pinion	Rack and Pinion	Rack and Pinion			
Steering Gear Ratio (Overall)		15.8	15.8	16.0	16.0			
Power Steering Type		Hydraulic	Hydraulic	Hydraulic	Hydraulic			

\*: Unladen Vehicle

\*1: With Sliding Roof

\*2: Produced by TMC

\*3: Produced by TMMK

\*4: With California Spec.

\*5: Maximum output and torque rating is determined by revised SAE J1349 standard.

\*6: Set Option without Cold Area Spec.

\*7: Set Option with Cold Area Spec.

\*8: Set Option with VSC

\*9: Counter Gear Ratio Included (Only for AT)

U.S.A. and Canada				
4-Door Sedan				
	SE	LE	XLE	SE
	ACV30L-A (C) EASKA	MCV30L-A (C) EANKA	MCV30L-A (C) EAGKA	MCV31L-A (C) EASKA
5	4805 (189.2)	4805 (189.2)	4805 (189.2)	4805 (189.2)
	1795 (70.7)	1795 (70.7)	1795 (70.7)	1795 (70.7)
	1505 (59.3)	1490 (58.7)	1505 (59.3)	1505 (59.3)
	2720 (107.1)	2720 (107.1)	2720 (107.1)	2720 (107.1)
	1545 (60.8)	1545 (60.8)	1545 (60.8)	1545 (60.8)
10	1535 (60.4)	1535 (60.4)	1535 (60.4)	1535 (60.4)
	997 (39.3), 975 (38.4)* <sup>1</sup>	997 (39.3), 975 (38.4)* <sup>1</sup>	997 (39.3), 975 (38.4)* <sup>1</sup>	997 (39.3), 975 (38.4)* <sup>1</sup>
	973 (38.3), 970 (38.2)* <sup>1</sup>	973 (38.3), 970 (38.2)* <sup>1</sup>	973 (38.3), 970 (38.2)* <sup>1</sup>	973 (38.3), 970 (38.2)* <sup>1</sup>
	1053 (41.5)	1053 (41.5)	1053 (41.5)	1053 (41.5)
	960 (37.8)	960 (37.8)	960 (37.8)	960 (37.8)
15	1460 (57.5)	1460 (57.5)	1460 (57.5)	1460 (57.5)
	1440 (56.7)	1440 (56.7)	1440 (56.7)	1440 (56.7)
	945 (37.2)	945 (37.2)	945 (37.2)	945 (37.2)
	1140 (44.9)	1140 (44.9)	1140 (44.9)	1140 (44.9)
	150 (5.9)	150 (5.9)	150 (5.9)	150 (5.9)
20	15.7	15	15.7	15.7
	16.6	16.6	16.6	16.6
	870 (1918)* <sup>2</sup> , 875 (1929)* <sup>3</sup>	930 (2050)* <sup>2</sup> , 935 (2061)* <sup>3</sup>	945 (2083)* <sup>2</sup> , 955 (2105)* <sup>3</sup>	955 (2105)* <sup>2</sup> , 965 (2127)* <sup>3</sup>
	590 (1301)	585 (1290)	610 (1345)	610 (1345)
	1460 (3219)* <sup>2</sup> , 1465 (3230)* <sup>3</sup>	1515 (3340)* <sup>2</sup> , 1520 (3351)* <sup>3</sup>	1555 (3428)* <sup>2</sup> , 1565 (3450)* <sup>3</sup>	1565 (3450)* <sup>2</sup> , 1575 (3472)* <sup>3</sup>
25	1000 (2205)	1065 (2348)	1080 (2381)	1090 (2402)
	925 (2039)	920 (2028)	935 (2061)	940 (2072)
	1925 (4244)	1985 (4376)	2015 (4442)	2030 (4475)
	70 (18.5, 15.4)	70 (18.5, 15.4)	70 (18.5, 15.4)	70 (18.5, 15.4)
	0.47 (16.7)	0.47 (16.7)	0.47 (16.7)	0.47 (16.7)
30	—	—	—	—
	—	—	—	—
	9.9, 9.8* <sup>4</sup>	8.1	8.1	7.2
	—	—	—	—
	65 (41)	49 (30.5)	51 (31.7)	47 (29.2)
35	118 (73)	89 (55.3)	92 (57.2)	85 (52.8)
	—	140 (87)	144 (89.5)	133 (82.6)
	—	—	—	—
	12.0 (39.4)	11.4 (37.4)	12.0 (39.4)	12.0 (39.4)
	11.2 (36.7)	10.6 (34.8)	11.2 (36.7)	11.2 (36.7)
40	2AZ-FE	1MZ-FE	1MZ-FE	3MZ-FE
	16-Valve, DOHC	24-Valve, DOHC	24-Valve, DOHC	24-Valve, DOHC
	88.5 x 96.0 (3.48 x 3.78)	87.5 x 83.0 (3.44 x 3.27)	87.5 x 83.0 (3.44 x 3.27)	92.0 x 83.0 (3.62 x 3.27)
	2362 (144.2)	2995 (182.8)	2995 (182.8)	3311 (202.1)
	9.6 : 1	10.5 : 1	10.5 : 1	10.8 : 1
45	SFI	SFI	SFI	SFI
	87 or higher	87 or higher	87 or higher	87 or higher
	115 / 5700 (154@5700), 108 / 5600 (145@5600)* <sup>4</sup>	142 / 5800 (190@5800)	142 / 5800 (190@5800)	157 / 5600 (210@5600)
	217 / 4000 (150@4000), 214 / 4000 (158@4000)* <sup>4</sup>	267 / 4400 (197@4400)	267 / 4400 (197@4400)	298 / 3600 (220@3600)
	12-48* <sup>6</sup> , 12-55* <sup>7</sup>	12-48* <sup>6</sup> , 12-55* <sup>7</sup>	12-48* <sup>6</sup> , 12-55* <sup>7</sup>	12-48* <sup>6</sup> , 12-55* <sup>7</sup>
50	1200	1200	1200	1200
	1.6	1.6	1.6	1.7
	—	—	—	—
	U250E	U151E	U151E	U151E
	3.943	4.235	4.235	4.235
55	2.197	2.360	2.360	2.360
	1.413	1.517	1.517	1.517
	0.975	1.047	1.047	1.047
	0.703	0.756	0.756	0.756
	3.145	3.378	3.378	3.378
60	3.391	3.291	3.291	3.291
	—	—	—	—
	Ventilated Disc	Ventilated Disc	Ventilated Disc	Ventilated Disc
	Solid Disc	Solid Disc	Solid Disc	Solid Disc
	Duo-Servo	Duo-Servo	Duo-Servo	Duo-Servo
65	Single 10.5"	Single 10.5"	Single 10.5"	Single 10.5"
	—	—	—	—
	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut
	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut
	Standard	Standard	Standard	Standard
70	Standard	Standard	Standard	Standard
	Rack & Pinion	Rack and Pinion	Rack and Pinion	Rack and Pinion
	16.0	15.8	16.0	16.0
	Hydraulic	Hydraulic	Hydraulic	Hydraulic



