

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:

CAUTION	A potentially hazardous situation which could result in injury if instructions are ignored.
NOTICE	Damage to the vehicle or components may occur if instructions are ignored.
REFERENCE	Explains the theory behind mechanisms and techniques.
NOTE	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

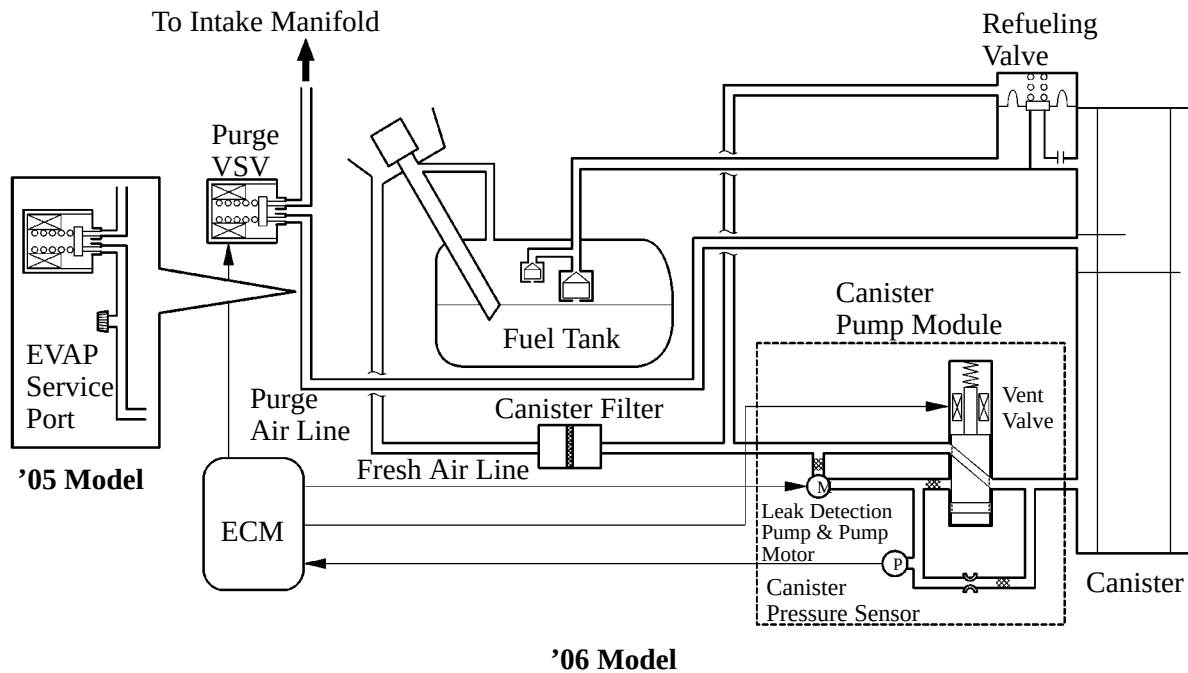
■ EVAPORATIVE EMISSION CONTROL SYSTEM

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



001AV02Y

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* ¹) C: Camry (Produced by TMMK* ²)

7	ENGINE SPECIFICATION
	K: DOHC and SFI

4	BODY TYPE
	E: 4-Door Sedan

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

*¹ TMC: Toyota Motor Corporation*² 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)		5	
		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)		10	
	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		15	
		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)		20	
		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)		25	
		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)		30	
		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)		35	
	Angle of Approach		degrees	15		15		15.7		15.7			
	Angle of Departure		degrees	16.6		16.6		16.6		16.6		40	
	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)			
	Gross Vehicle Weight	Total	kg (lb)	1410 (3108)		1435 (3164)* ² , 1440 (3175)* ³		1470 (3241)* ² , 1475 (3252)* ³		1435 (3164)		45	
		Front	kg (lb)	960 (2116)		990 (2183)		1000 (2205)		965 (2127)			
		Rear	kg (lb)	920 (2028)		915 (2017)		925 (2039)		935 (2061)			
	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)		50	
	Luggage Compartment Capacity		m ³ (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)		55
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		60	
		0 to 400 m	sec.	—		—		—		—			
Max. Permissible Speed		1st Gear	km / h (mph)	52 (32)		64 (40)		65 (41)		53 (33)		65	
		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)		70	
	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		75		
	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)		80	
	Displacement		cm ³ (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		85		
	Fuel System		SFI		SFI		SFI		SFI				
	Octane Rating		87 or Higher		87 or Higher		87 or Higher		87 or Higher		90		
	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)			
	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)			
Engine Electrical	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		95	
	Generator Output		Watts	1200		1200		1200		1200			
	Starter Output		kW	1.6		1.6		1.6		1.6			
Chassis	Clutch Type		Dry, Single Plate, Diaphragm				—		—		Dry, Single Plate, Diaphragm		100
	Transmission Type		E351				U250E		U250E		E351		
	Transmission Gear Ratio* ⁹	In First	3.538		3.943		3.943		3.943		3.538		105
		In Second	2.045		2.197		2.197		2.197		2.045		
		In Third	1.333		1.413		1.413		1.413		1.333		
		In Fourth	0.972		0.975		0.975		0.975		0.972		
		In Fifth	0.731		0.703		0.703		0.703		0.731		
	Differential Gear Ratio			3.944		3.391		3.391		3.944		110	
		Differential Gear size		in.		—		—		—			
	Brake Type	Front	Ventilated Disc				Ventilated Disc		Ventilated Disc		Ventilated Disc		115
		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		120
	Brake Booster Type and Size		in.		Single 10.5"		Single 10.5"		Single 10.5"		Single 10.5"		
	Proportioning Valve Type		—				—		—		—		125
	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		130
		Rear	Standard				Standard		Standard		Standard		
	Steering Gear Type		Rack and Pinion				Rack and Pinion		Rack and Pinion		Rack and Pinion		135
	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)* ¹	997 (39.3), 975 (38.4)* ¹	997 (39.3), 975 (38.4)* ¹	997 (39.3), 975 (38.4)* ¹
	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
	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)* ² , 875 (1929)* ³	930 (2050)* ² , 935 (2061)* ³	945 (2083)* ² , 955 (2105)* ³	955 (2105)* ² , 965 (2127)* ³
	590 (1301)	585 (1290)	610 (1345)	610 (1345)
	1460 (3219)* ² , 1465 (3230)* ³	1515 (3340)* ² , 1520 (3351)* ³	1555 (3428)* ² , 1565 (3450)* ³	1565 (3450)* ² , 1575 (3472)* ³
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* ⁴	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)* ⁴	142 / 5800 (190@5800)	142 / 5800 (190@5800)	157 / 5600 (210@5600)
	217 / 4000 (158@4000), 214 / 4000 (158@4000)* ⁴	267 / 4400 (197@4400)	267 / 4400 (197@4400)	298 / 3600 (220@3600)
	12-48* ⁶ , 12-55* ⁷	12-48* ⁶ , 12-55* ⁷	12-48* ⁶ , 12-55* ⁷	12-48* ⁶ , 12-55* ⁷
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

