

MAJOR TECHNICAL SPECIFICATIONS

Item		Area	U.S.A.			
Body Type			4-Door Sedan			
Vehicle Grade			CE		LE	
Model Code			ZZE130L-D (A) EMDKA	ZZE130L-D (A) EPDKA	ZZE130L-D (A) EMNKA	ZZE130L-D (A) EPNKA
Major Dimensions & Vehicle Weights	Overall	Length mm (in.)	4530 (178.3)	4530 (178.3)	4530 (178.3)	4530 (178.3)
		Width mm (in.)	1700 (66.9)	1700 (66.9)	1700 (66.9)	1700 (66.9)
		Height mm (in.)	1480 (58.3)	1480 (58.3)	1485 (58.5)	1485 (58.5)
	Wheel Base mm (in.)		2600 (102.4)	2600 (102.4)	2600 (102.4)	2600 (102.4)
	Tread	Front mm (in.)	1480 (58.3)	1480 (58.3)	1480 (58.3)	1480 (58.3)
		Rear mm (in.)	1460 (57.5)	1460 (57.5)	1460 (57.5)	1460 (57.5)
	Effective Head Room	Front mm (in.)	992 (39.1)*1 960 (37.8)*2	992 (39.1)*1 960 (37.8)*2	992 (39.1)*1 960 (37.8)*2	992 (39.1)*1 960 (37.8)*2
		Rear mm (in.)	943 (37.1)*1 940 (37.0)*2	943 (37.1)*1 940 (37.0)*2	943 (37.1)*1 940 (37.0)*2	943 (37.1)*1 940 (37.0)*2
	Effective Leg Room	Front mm (in.)	1049 (41.3)	1049 (41.3)	1049 (41.3)	1049 (41.3)
		Rear mm (in.)	898 (35.4)	898 (35.4)	898 (35.4)	898 (35.4)
	Shoulder Room	Front mm (in.)	1350 (53.1)	1350 (53.1)	1350 (53.1)	1350 (53.1)
		Rear mm (in.)	1359 (53.5)	1359 (53.5)	1359 (53.5)	1359 (53.5)
	Overhang	Front mm (in.)	935 (36.8)	935 (36.8)	935 (36.8)	935 (36.8)
		Rear mm (in.)	995 (39.2)	995 (39.2)	995 (39.2)	995 (39.2)
	Min. Running Ground Clearance mm (in.)		145 (5.7)	145 (5.7)	145 (5.7)	145 (5.7)
	Angle of Approach degrees		16°	16°	16°	16°
	Angle of Departure degrees		21°	21°	21°	21°
	Curb Weight	Front kg (lb)	675 (1485)	705 (1555)	680 (1500)	710 (1565)
		Rear kg (lb)	455 (1005)	455 (1005)	460 (1015)	460 (1015)
		Total kg (lb)	1130 (2490)	1160 (2560)	1140 (2515)	1170 (2580)
Performance	Gross Vehicle Weight	Front kg (lb)	680 (1500)	710 (1565)	685 (1510)	715 (1575)
		Rear kg (lb)	455 (1005)	455 (1005)	460 (1015)	460 (1015)
		Total kg (lb)	1135 (2505)	1165 (2570)	1145 (112)	1175 (2590)
	Fuel Tank Capacity ℓ (U.S.gal., Imp.gal.)		50 (13.2, 11.0)	50 (13.2, 11.0)	50 (13.2, 11.0)	50 (13.2, 11.0)
	Luggage Compartment Capacity m ³ (cu.ft.)		0.385 (13.5)	0.385 (13.5)	0.385 (13.5)	0.385 (13.5)
	Max. Speed km / h (mph)		—	—	—	—
	Max. Cruising Speed km / h (mph)		—	—	—	—
	Acceleration	0 to 100 km / h sec.	—	—	—	—
		0 to 400 m sec.	—	—	—	—
	Max. Permissible Speed	1st Gear km / h (mph)	57 (35)	65 (40)	57 (35)	65 (40)
		2nd Gear km / h (mph)	95 (59)	118 (73)	95 (59)	118 (73)
		3rd Gear km / h (mph)	139 (86)	—	139 (86)	—
		4th Gear km / h (mph)	180 (112)	—	180 (112)	—
	Turning Diameter (Outside Front)	Wall to Wall m (ft.)	5.7 (18.7)	5.7 (18.7)	5.7 (18.7)	5.7 (18.7)
		Curb to Curb m (ft.)	5.5 (18.6)	5.5 (18.6)	5.5 (18.6)	5.5 (18.6)
Engine	Engine Type		1ZZ-FE	1ZZ-FE	1ZZ-FE	1ZZ-FE
	Valve Mechanism		16-Valve, DOHC	16-Valve, DOHC	16-Valve, DOHC	16-Valve, DOHC
	Bore x Stroke mm (in.)		79.0 x 91.5 (3.11 x 3.60)	79.0 x 91.5 (3.11 x 3.60)	79.0 x 91.5 (3.11 x 3.60)	79.0 x 91.5 (3.11x 3.60)
	Displacement cm ³ (cu.in.)		1794 (109.5)	1794 (109.5)	1794 (109.5)	1794 (109.5)
	Compression Ratio		10.1 : 1	10.1 : 1	10.1 : 1	10.1 : 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) kW / rpm (HP@rpm)		97.0 / 6000 (130 @ 6000)	97.0 / 6000 (130 @ 6000)	97.0 / 6000 (130 @ 6000)	97.0 / 6000 (130 @ 6000)
	Max. Torque (SAE-NET) N·m / rpm (lb-ft@rpm)		170 / 4200 (125 @ 4200)	170 / 4200 (125 @ 4200)	170 / 4200 (125 @ 4200)	170 / 4200 (125 @ 4200)
	Battery Capacity (5HR) Voltage & Amp. hr.		12-48	12-48	12-48	12-48
Chassis	Alternator Output Watts		960	960	960	960
	Starter Output kW		1.6	1.6	1.6	1.6
	Clutch Type		Dry, Single Plate Diaphragm	—	Dry, Single Plate Diaphragm	—
	Transaxle Type		C59	A245E	C59	A245E
	Transmission Gear Ratio	In First	3.166	3.643	3.166	3.643
		In Second	1.904	2.008	1.904	2.008
		In Third	1.310	1.296	1.310	1.296
		In Fourth	0.885	0.892	0.885	0.892
		In Fifth	0.725	—	0.725	—
		In Reverse	3.250	2.977	3.250	2.977
	Counter Gear Ratio		—	—	—	—
	Differential Gear Size in.		3.941	2.962	3.941	2.962
	Brake Type	Front	Ventilated Disc	Ventilated Disc	Ventilated Disc	Ventilated Disc
		Rear	Drum	Drum	Drum	Drum
	Parking Brake Type		Duo-Servo	Duo-Servo	Duo-Servo	Duo-Servo
	Brake Booster Type and Size in.		Single, 9"	Single, 9"	Single, 9"	Single, 9"
	Proportioning Valve Type		Dual-P Valve*3, —*4	Dual-P Valve*3, —*4	Dual-P Valve*3, —*4	Dual-P Valve*3, —*4
	Suspension Type	Front	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut
		Rear	Torsion Beam	Torsion Beam	Torsion Beam	Torsion Beam
	Stabilizer Bar	Front	Standard	Standard	Standard	Standard
		Rear	Standard	Standard	Standard	Standard
	Steering Gear Type		Rack & Pinion	Rack & Pinion	Rack & Pinion	Rack & Pinion
	Steering Gear Ratio (Overall)		19.5	19.5	19.5	19.5
	Power Steering Type		Integral Type	Integral Type	Integral Type	Integral Type

*1: without Moon Roof

*2: with Moon Roof

*3: without ABS

*4: with ABS

	U.S.A.		CANADA			
	S		4-Door Sedan			
			CE		LE	
	ZZE130L-DEMSKA	ZZE130L-DEPSKA	ZZE130L-DEMDKK	ZZE130L-D (A) EPDKK	ZZE130L-DEMNNK	ZZE130L-D (A) EPNNK
5	4530 (178.3)	4530 (178.3)	4530 (178.3)	4530 (178.3)	4530 (178.3)	4530 (178.3)
	1700 (66.9)	1700 (66.9)	1700 (66.9)	1700 (66.9)	1700 (66.9)	1700 (66.9)
	1485 (58.5)	1485 (58.5)	1480 (58.3)	1480 (58.3)	1485 (58.5)	1485 (58.5)
	2600 (102.4)	2600 (102.4)	2600 (102.4)	2600 (102.4)	2600 (102.4)	2600 (102.4)
	1480 (58.3)	1480 (58.3)	1480 (58.3)	1480 (58.3)	1480 (58.3)	1480 (58.3)
10	1460 (57.5)	1460 (57.5)	1460 (57.5)	1460 (57.5)	1460 (57.5)	1460 (57.5)
	992 (39.1)*1 960 (37.8)*2	992 (39.1)*1 960 (37.8)*2	992 (39.1)*1 960 (37.8)*2	992 (39.1)*1 960 (37.8)*2	992 (39.1)*1 960 (37.8)*2	992 (39.1)*1 960 (37.8)*2
	943 (37.1)*1 940 (37.0)*2	943 (37.1)*1 940 (37.0)*2	943 (37.1)*1 940 (37.0)*2	943 (37.1)*1 940 (37.0)*2	943 (37.1)*1 940 (37.0)*2	943 (37.1)*1 940 (37.0)*2
	1049 (41.3)	1049 (41.3)	1049 (41.3)	1049 (41.3)	1049 (41.3)	1049 (41.3)
	898 (35.4)	898 (35.4)	898 (35.4)	898 (35.4)	898 (35.4)	898 (35.4)
15	1350 (53.1)	1350 (53.1)	1350 (53.1)	1350 (53.1)	1350 (53.1)	1350 (53.1)
	1359 (53.5)	1359 (53.5)	1359 (53.5)	1359 (53.5)	1359 (53.5)	1359 (53.5)
	935 (36.8)	935 (36.8)	935 (36.8)	935 (36.8)	935 (36.8)	935 (36.8)
	995 (39.2)	995 (39.2)	995 (39.2)	995 (39.2)	995 (39.2)	995 (39.2)
	145 (5.7)	145 (5.7)	145 (5.7)	145 (5.7)	145 (5.7)	145 (5.7)
20	14°	14°	16°	16°	16°	16°
	20°	20°	21°	21°	21°	21°
	680 (1500)	710 (1565)	675 (1485)	705 (1555)	680 (1500)	710 (1565)
	460 (1015)	460 (1015)	455 (1005)	455 (1005)	460 (1015)	460 (1015)
	1140 (2515)	1170 (2580)	1130 (2490)	1160 (2560)	1140 (2515)	1170 (2580)
25	685 (1510)	715 (1575)	680 (1500)	710 (1565)	685 (1510)	715 (1575)
	460 (1015)	460 (1015)	455 (1005)	455 (1005)	460 (1015)	460 (1015)
	1145 (112)	1175 (2590)	1135 (2505)	1165(2570)	1145 (112)	1175 (2590)
	50 (13.2, 11.0)	50 (13.2, 11.0)	50 (13.2, 11.0)	50 (13.2, 11.0)	50 (13.2, 11.0)	50 (13.2, 11.0)
	0.385 (13.5)	0.385 (13.5)	0.385 (13.5)	0.385 (13.5)	0.385 (13.5)	0.385 (13.5)
30	—	—	—	—	—	—
	—	—	—	—	—	—
	—	—	—	—	—	—
	—	—	—	—	—	—
	57 (35)	65 (40)	57 (35)	65 (40)	57 (35)	65 (40)
35	95 (59)	118 (73)	95 (59)	118 (73)	95 (59)	118 (73)
	139 (86)	—	139 (86)	—	139 (86)	—
	180 (112)	—	180 (112)	—	180 (112)	—
	5.7 (18.7)	5.7 (18.7)	5.7 (18.7)	5.7 (18.7)	5.7 (18.7)	5.7 (18.7)
	5.5 (18.6)	5.5 (18.6)	5.5 (18.6)	5.5 (18.6)	5.5 (18.6)	5.5 (18.6)
40	1ZZ-FE	1ZZ-FE	1ZZ-FE	1ZZ-FE	1ZZ-FE	1ZZ-FE
	16-Valve, DOHC	16-Valve, DOHC	16-Valve, DOHC	16-Valve, DOHC	16-Valve, DOHC	16-Valve, DOHC
	79.0 x 91.5 (3.11 x 3.60)	79.0 x 91.5 (3.11 x 3.60)	79.0 x 91.5 (3.11 x 3.60)	79.0 x 91.5 (3.11 x 3.60)	79.0 x 91.5 (3.11 x 3.60)	79.0 x 91.5 (3.11 x 3.60)
	1794 (109.5)	1794 (109.5)	1794 (109.5)	1794 (109.5)	1794 (109.5)	1794 (109.5)
	10.1 : 1	10.1 : 1	10.1 : 1	10.1 : 1	10.1 : 1	10.1 : 1
45	SFI	SFI	SFI	SFI	SFI	SFI
	87 or Higher	87 or Higher	87 or Higher	87 or Higher	87 or Higher	87 or Higher
	97.0 / 6000 (130 @ 6000)	97.0 / 6000 (130 @ 6000)	97.0 / 6000 (130 @ 6000)	97.0 / 6000 (130 @ 6000)	97.0 / 6000 (130 @ 6000)	97.0 / 6000 (130 @ 6000)
	170 / 4200 (125 @ 4200)	170 / 4200 (125 @ 4200)	170 / 4200 (125 @ 4200)	170 / 4200 (125 @ 4200)	170 / 4200 (125 @ 4200)	170 / 4200 (125 @ 4200)
	12-48	12-48	12-48	12-48	12-48	12-48
50	960	960	960	960	960	960
	1.6	1.6	1.6	1.6	1.6	1.6
	Dry, Single Plate Diaphragm	—	Dry, Single Plate Diaphragm	—	Dry, Single Plate Diaphragm	—
	C59	A245E	C59	A245E	C59	A245E
	3.166	3.643	3.166	3.643	3.166	3.643
55	1.904	2.008	1.904	2.008	1.904	2.008
	1.310	1.296	1.310	1.296	1.310	1.296
	0.885	0.892	0.885	0.892	0.885	0.892
	0.725	—	0.725	—	0.725	—
	3.250	2.977	3.250	2.977	3.250	2.977
60	—	—	—	—	—	—
	3.941	2.962	3.941	2.962	3.941	2.962
	Ventilated Disc	Ventilated Disc	Ventilated Disc	Ventilated Disc	Ventilated Disc	Ventilated Disc
	Drum	Drum	Drum	Drum	Drum	Drum
	Duo-Servo	Duo-Servo	Duo-Servo	Duo-Servo	Duo-Servo	Duo-Servo
65	Single, 9"	Single, 9"	Single, 9"	Single, 9"	Single, 9"	Single, 9"
	Dual-P Valve*3, —*4	Dual-P Valve*3, —*4	Dual-P Valve*3, —*4	Dual-P Valve*3, —*4	Dual-P Valve*3, —*4	Dual-P Valve*3, —*4
	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut
	Torsion Beam	Torsion Beam	Torsion Beam	Torsion Beam	Torsion Beam	Torsion Beam
	Standard	Standard	Standard	Standard	Standard	Standard
70	Standard	Standard	Standard	Standard	Standard	Standard
	Rack & Pinion	Rack & Pinion	Rack & Pinion	Rack & Pinion	Rack & Pinion	Rack & Pinion
	19.5	19.5	19.5	19.5	19.5	19.5
	Integral Type	Integral Type	Integral Type	Integral Type	Integral Type	Integral Type

Item		Area	CANADA		
Body Type			4-Door Sedan		
Vehicle Grade			S		
Model Code			ZZE130L-DEMSKK	ZZE130L-DEPSKK	
Major Dimensions & Vehicle Weights	Overall	Length mm (in.)	4530 (178.3)	4530 (178.3)	5
		Width mm (in.)	1700 (66.9)	1700 (66.9)	
		Height mm (in.)	1485 (58.5)	1485 (58.5)	
	Wheel Base		2600 (102.4)	2600 (102.4)	
	Tread	Front mm (in.)	1480 (58.3)	1480 (58.3)	
		Rear mm (in.)	1460 (57.5)	1460 (57.5)	10
	Effective Head Room	Front mm (in.)	992 (39.1)*1 960 (37.8)*2	992 (39.1)*1 960 (37.8)*2	
		Rear mm (in.)	943 (37.1)*1 940 (37.0)*2	943 (37.1)*1 940 (37.0)*2	
	Effective Leg Room	Front mm (in.)	1049 (41.3)	1049 (41.3)	
		Rear mm (in.)	898 (35.4)	898 (35.4)	
	Shoulder Room	Front mm (in.)	1350 (53.1)	1350 (53.1)	15
		Rear mm (in.)	1359 (53.5)	1359 (53.5)	
	Overhang	Front mm (in.)	935 (36.8)	935 (36.8)	
		Rear mm (in.)	995 (39.2)	995 (39.2)	
	Min. Running Ground Clearance		145 (5.7)	145 (5.7)	
	Angle of Approach		14°	14°	20
	Angle of Departure		20°	20°	
	Curb Weight	Front kg (lb)	680 (1500)	710 (1565)	
		Rear kg (lb)	460 (1015)	460 (1015)	
		Total kg (lb)	1140 (2515)	1170 (2580)	
Performance	Max. Speed	km / h (mph)	—	—	30
		0 to 100 km / h sec.	—	—	
		0 to 400 m sec.	—	—	
	Max. Permissible Speed	1st Gear km / h (mph)	57 (35)	60 (40)	
		2nd Gear km / h (mph)	95 (59)	118 (73)	35
		3rd Gear km / h (mph)	139 (86)	—	
		4th Gear km / h (mph)	180 (112)	—	
	Turning Diameter (Outside Front)	Wall to Wall m (ft.)	5.7 (18.7)	5.7 (18.7)	
		Curb to Curb m (ft.)	5.5 (18.6)	5.5 (18.6)	
	Fuel Tank Capacity ℓ (US.gal., Imp.gal.)		50 (13.2, 11.0)	50 (13.2, 11.0)	
Engine	Luggage Compartment Capacity m ³ (cu.ft.)		0.385 (13.5)	0.385 (13.5)	
	Engine Type		1ZZ-FE	1ZZ-FE	40
	Valve Mechanism		16-Valve, DOHC	16-Valve, DOHC	
	Bore x Stroke mm (in.)		79.0 x 91.5 (3.11 x 3.60)	79.0 x 91.5 (3.11 x 3.60)	
	Displacement cm ³ (cu.in.)		1794 (109.5)	1794 (109.5)	
	Compression Ratio		10.1 : 1	10.1 : 1	
	Fuel System		SFI	SFI	45
	Octane Rating		87 or Higher	87 or Higher	
	Max. Output (SAE-NET) kW / rpm (HP@rpm)		97.0 / 6000 (130 @ 6000)	97.0 / 6000 (130 @ 6000)	
	Max. Torque (SAE-NET) N·m / rpm (lb-ft@rpm)		170 / 4200 (125 @ 4200)	170 / 4200 (125 @ 4200)	
Engine Electrical	Battery Capacity (5HR) Voltage & Amp. hr.		12-48	12-48	
	Alternator Output Watts		960	960	50
	Starter Output kW		1.6	1.6	
	Clutch Type		Dry, Single Plate Diaphragm	—	
	Transaxle Type		C59	A245E	
	Transmission Gear Ratio	In First	3.166	3.643	55
		In Second	1.904	2.008	
		In Third	1.310	1.296	
		In Fourth	0.885	0.892	
		In Fifth	0.725	—	
	Counter Gear Ratio		—	—	60
	Differential Gear Size in.		3.941	2.962	
	Brake Type	Front	Ventilated Disc	Ventilated Disc	
		Rear	Drum	Drum	
	Parking Brake Type		Duo-Servo	Duo-Servo	
Chassis	Brake Booster Type and Size in.		Single, 9"	Single, 9"	65
	Proportioning Valve Type		Dual-P Valve*3, —*4	Dual-P Valve*3, —*4	
	Suspension Type	Front	MacPherson Strut	MacPherson Strut	
		Rear	Torsion Beam	Torsion Beam	
	Stabilizer Bar	Front	Standard	Standard	70
		Rear	Standard	Standard	
	Steering Gear Type		Rack & Pinion	Rack & Pinion	
	Steering Gear Ratio (Overall)		19.5	19.5	
	Power Steering Type		Integral Type	Integral Type	

*1: without Moon Roof
*2: with Moon Roof

*3: without ABS
*4: with ABS

MODEL CODE

ZZE130 L – D E M D K A
1
2
3
4
5
6
7
8

1	BASIC MODEL CODE
	ZZE130 : With 1ZZ-FE Engine

5	GEAR SHIFT TYPE
	M : 5-Speed Manual, Floor P : 4-Speed Automatic, Floor

2	STEERING WHEEL POSITION
	L : Left-Hand Drive

6	GRADE
	D : CE N : LE S : S

3	MODEL NAME
	A : COROLLA (Produced TMC * ¹) D : COROLLA (Produced TMMC * ² & NUMMI * ³)

7	ENGINE SPECIFICATION
	K : Compact DOHC and SFI

4	BODY TYPE
	E : 4-Door Sedan

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

*¹ TMC : Toyota Motor Corporation

*² TMMC : Toyota Motor Manufacturing, Canada, Inc.

*³ NUMMI : New United Motor Manufacturing, Inc.

MODEL LINE-UP

DES- TINA- TION	ENGINE	BODY TYPE	GRADE	TRANSAXLE	
				5-Speed Manual	4-Speed Automatic
				C59	A245E
U.S.A.	1ZZ-FE	4-Door Sedan	CE	ZZE130L-D(A)EMDKA	ZZE130L-D(A)EPDKA
			LE	ZZE130L-D(A)EMNKA	ZZE130L-D(A)EPNKA
			S	ZZE130L-DEMSKA	ZZE130L-DEPSKA
Canada			CE	ZZE130L-DEMDKK	ZZE130L-D(A)EPDKK
			LE	ZZE130L-DEMNNK	ZZE130L-D(A)EPNNK
			S	ZZE130L-DEMSKK	ZZE130L-DEPSKK

COROLLA

OUTLINE OF NEW FEATURES

The following changes have been made for the 2004 model year.

1. Exterior Color

The following exterior colors have been added:

Added Color No.	Added Color Name
040	Beige Mica Metallic

2. 1ZZ-FE Engine

To comply with the OBD-II regulations, all the DTC (Diagnostic Trouble Code) have been made to correspond to the SAE controlled codes. Some of the DTC have been further divided into smaller detection areas than in the past, and new DTC have been assigned to them.

3. C59 manual transaxle

The shift mechanism of the C59 manual transaxle has been partially changed to improve the ease of operation.

4. Interior Light

Map light control circuit has been added to the integration relay. This prevents the battery from being drained by the map light that is inadvertently left ON.

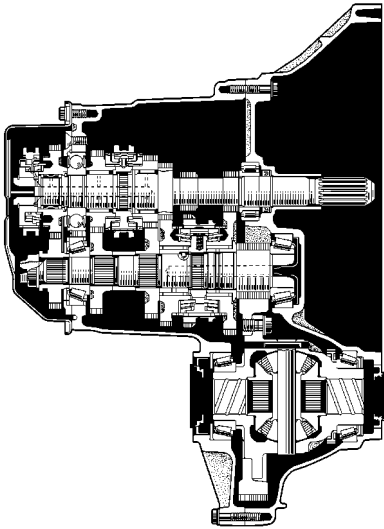
NEW FEATURES

■ C59 MANUAL TRANSAXLE

1. General

The shift mechanism of the C59 manual transaxles has been partially changed as described below, in order to improve the ease of operation.

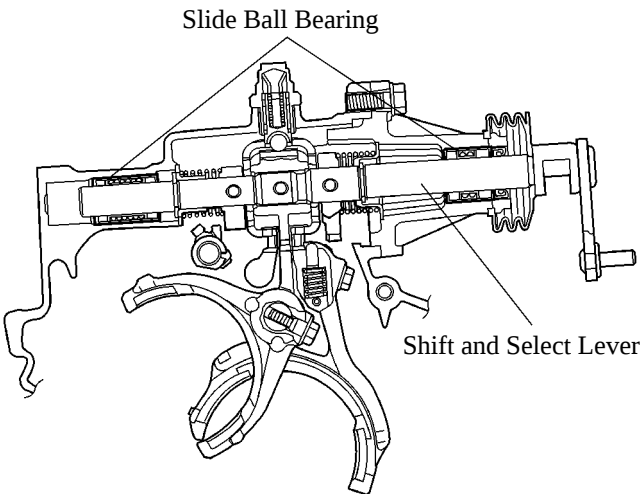
- The support for the shift and select lever has been changed.
- The shape of the synchronizer ring for the 3rd and 4th gears has been changed.

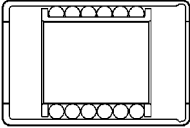
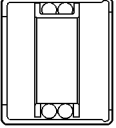


181CH04

2. Shift and Select Lever

The support for the shift and select lever has been changed from a bushing to a bearing, which reduces the amount of effort required for shifting, thus improving the ease of operation.

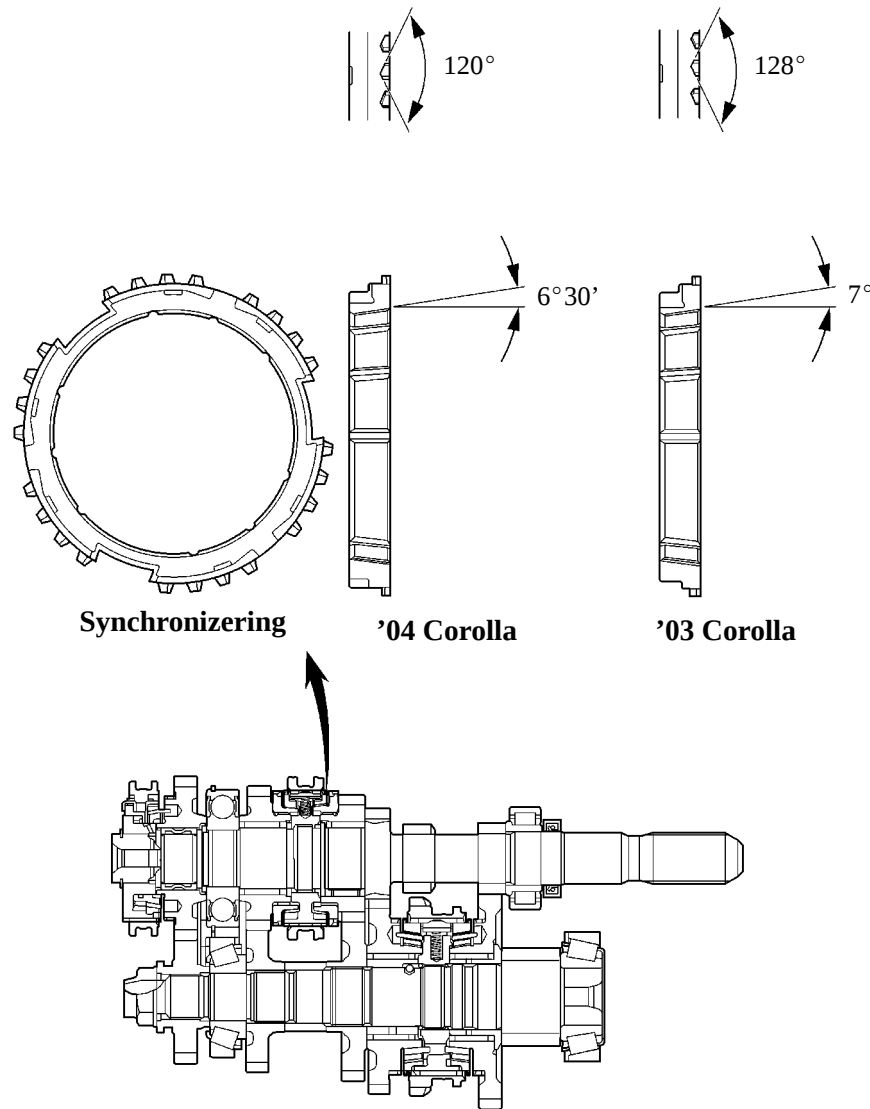


Model	'04 Corolla	'03 Corolla
	Slide Ball Bearing	Bimetal Formed Bush
Front	 257MA29	 257MA26
Rear	 257MA28	 257MA26

257CR03

3. Synchromesh System

The shape of the splines and the cone of the synchronizing ring for the 3rd and 4th gears has been changed in order to reduce the amount of effort required for shifting, thus improving the ease of operation.

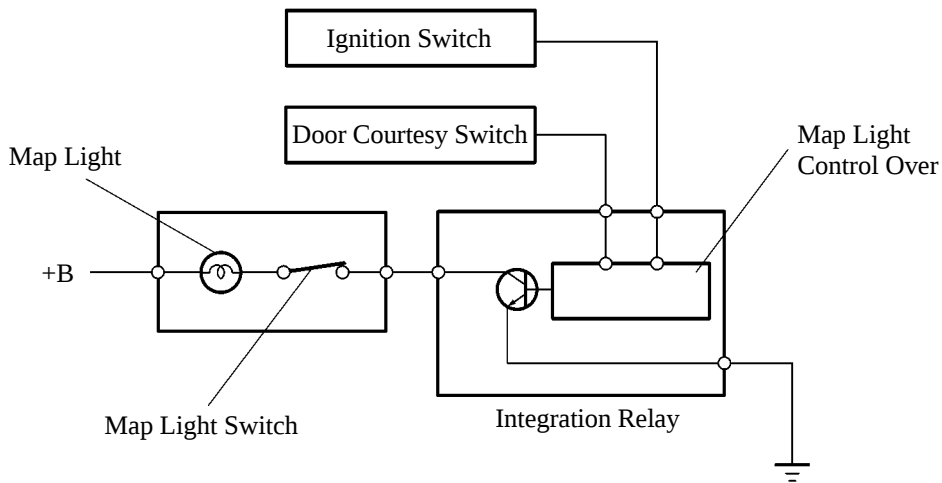


257CR02

■ MAP LIGHT

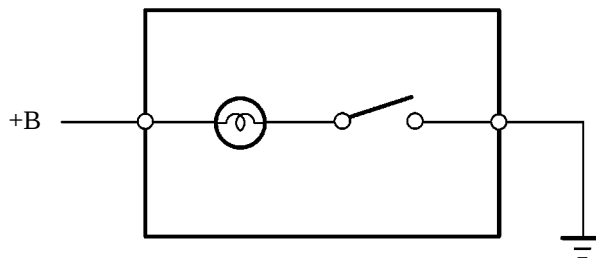
- The integration relay starts activating with the map light switch ON by turning OFF the ignition switch or one of the door is opened, and turn off the map light approximately 20 minutes.
- The map light is turned ON when the ignition switch turn ON again or one of the door is opened.

► System Diagram ◀



'04 Corolla

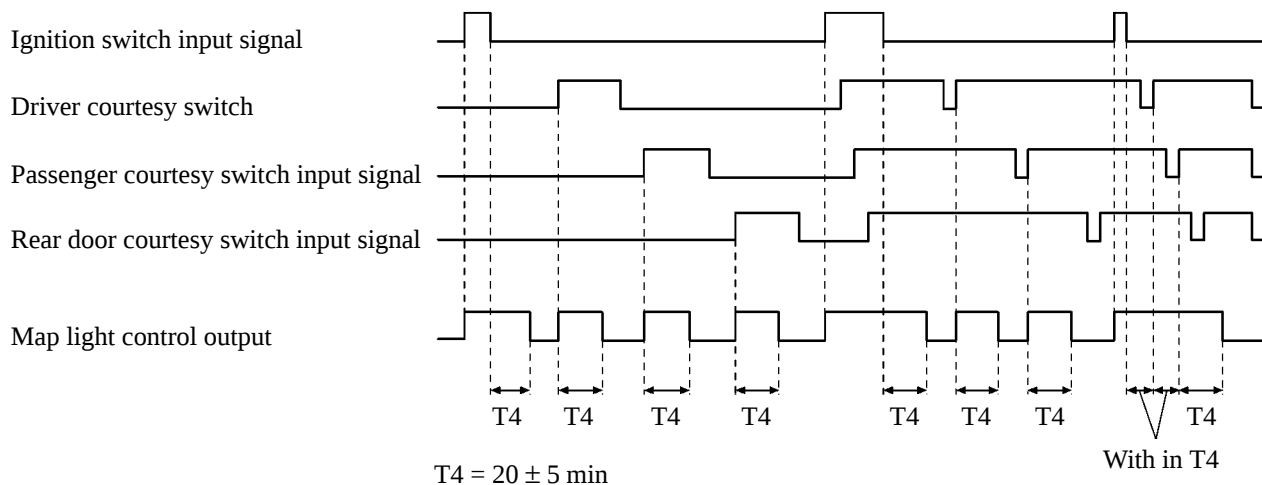
257V119



'03 Corolla

257V118

► Timing chart ◀



– MEMO –