\* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.



CAMRY SOLARA (EWD628U)





#### System Outline

### **Key Reminder System**

With the ignition key inserted in the key cylinder (Unlock warning SW on), the ignition SW still off and driver's door open (Door courtesy SW on), when a signal is input to TERMINAL (A) 10 of the combination meter, the combination meter operates, current flows from TERMINAL (A) 1 of the combination meter to TERMINAL (A) 20 GROUND and key reminder buzzer sounds.

### O : Parts Location

Code		See Page	Code		See Page	Code		See Page
C7	Δ	44 (C/P)	D	5	50 (*1)	112	А	45 (C/P)
07	~	46 (*1)	J10 A	A	45 (C/P)	512	В	47 (*1)
<u></u>	В	44 (C/P)			47 (*1)		1	45 (C/P)
0		46 (*1)		R	45 (C/P)	01		47 (*1)
D5		48 (C/P)	511	Б	47 (*1)			



#### : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
2F	30	Instrument Panel Wire and Driver Side, I/B (Lower Finish Panel)			
2G 31					
ЗA	36 (*2)				
	37 (*3)	Instrument Danel Wire and Dassenger Side I/B (Instrument Danel Brace PH)			
3B	36 (*2)				
3C	37 (*3)				

#### : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)		
101	56 (C/P)	Instrument Panel Wire and Floor No. 1 Wire (Left Kick Panel)		
101	58 (*1)			
IE1	56 (C/P)	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Brace   H)		
117.1	58 (*1)	istrument Fanel Wile and instrument Fanel Wile (instrument Fanel Diace Lin)		

#### 7 : Ground Points

Code	See Page	Ground Points Location		
	56 (C/P)	Instrument Panel Brace I H		
IJ	58 (*1)			
ім	56 (C/P)	Instrument Panel Rainforcement RH		
1111	58 (*1)	arument Panel Reinforcement RH		

\* 1 : Convertible \* 2 : C/P, Convertible w/ VSC \* 3 : Convertible w/o VSC

### **Convertible Roof and Power Window**



CAMRY SOLARA (EWD628U)

#### $\bigcirc$ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)					
1A							
1B	27	Engine Room Main Wire and Engine Room 1/R (Engine Compartment Loft)					
1C		Engine Room viant whe and Engine Room 3/B (Engine Compartment Left)					
1G							
2C	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)					
2F	30						
2H	31	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)					
2M	30						
ЗA	36 (*2)	Instrument Depal Wire and Depaganger Side 1/D (Instrument Depal Proce DH)					
3B	30(2)	instrument i and wire and i assenger olde ob (instrument i and brace ((i))					

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
	56 (C/P)	Engine Ream Main Wire and Elear No. 1 Wire (Left Side of Driver Side J/R)			
	58 (*1)				
164	56 (C/P)				
104	58 (*1)				
167	56 (C/P)	Engine Ream Main Wire and Instrument Rappl Wire (Rebind the Radio and Playor)			
107	58 (*1)	Lingine Room wain whe and instrument raner whe (Berning the Radio and Flayer)			
100	56 (C/P)				
100	58 (*1)				
10.41	57 (C/P)				
	59 (*1)	Engine Wire and Instrument Papel Wire (Rebind the Glove Rev)			
IM2	57 (C/P)				
IIVIZ	59 (*1)				
102	57 (C/P)	Instrument Panel Wire and Floor No. 2 Wire (Pight Kick Panel)			
IR1 59 (*1)		ווזגוועווופוו רמופו איויפ מוע רוסטו אט.2 איויפ (הוקוו הוכה רמופו)			



### : Ground Points

Code	See Page	Ground Points Location		
EB	54 (3MZ–FE)	RightFender		
ED	54 (3MZ–FE)	LeftFender		
IJ	56 (C/P)	Instrument Panel Brace I H		
	58 (*1)	ואנוטוופווג רמופו טומנים בו ז		
ІМ	56 (C/P)	Instrument Panel Poinfercement PH		
	58 (*1)	Istrument Panel Reinforcement RH		

\* 1 : Convertible \* 2 : C/P, Convertible w/ VSC \* 3 : Convertible w/o VSC

\* 1 : C/P, Convertible w/ VSC \* 2 : Convertible w/o VSC \* 3 : w/ VSC \* 4 : w/o VSC



#### System Outline

The cruise control system is a constant vehicle speed controller in which control of the switch on the instrument panel makes it possible to automatically adjust the opening of the engine throttle valve without depressing of the accel. pedal.

#### 1. Set Operation

When the ON–OFF SW is turned on, the system starts preparations necessary for the cruise control and turns on the indicator light in the combination meter.

#### 2. Set Speed Control

When the - SET SW is operated with the cruise control SW turned on during travelling, the constant vehicle speed is controlled.

#### 3. Coast Control

When the – SET SW is kept turned on during cruise control travelling, the engine control module controls the throttle valve to decelerate the vehicle. Every time the – SET SW is turned on instantaneously, the vehicle speed is decelerated approximately 1.6 km/h.

#### 4. Accel Control

When the + RES SW is kept turned on during cruise control travelling, the engine control module controls the throttle valve to accelerate the vehicle. Every time the + RES SW is turned on instantaneously, the vehicle speed is accelerated approximately 1.6 km/h.

#### 5. Resume Control

When the vehicle speed is within the low speed limit (Approximately 40 km/h, 25 mph) if the cruise control is cancelled, use of the + RES SW accelerates the vehicle to the speed level used before canceling the cruise control.

#### 6. Manual Cancel Mechanism

If any of the following signals is input during cruise control travelling, the cruise control is cancelled.

- \* The stop light SW is turned on.
- \* The CANCEL SW is turned on.
- \* The ON–OFF SW is turned off.
- \* The clutch pedla depressed (M/T).
- \* Gear is shifted from D position to N position. (A/T)
- \* Gear is shifted from 4 to 3 in S mode.

#### 7. Auto Cancel Function

If any of the following conditions is encountered, the cruise control is automatically cancelled.

- \* The stop light SW wiring is faulty or short-circuited.
- \* The vehicle speed signal is faulty.
- \* The electronically controlled throttle malfunctions.

### O : Parts Location

Code		See Page	Code		See Page	Code		See Page
A3		42 (2AZ–FE)	E4	А	44 (C/P)	J10	А	45 (C/P)
A17		44 (C/P)	E5	В	44 (C/P)	J11	В	45 (C/P)
C7	А	44 (C/P)	E7	D	44 (C/P)	S	2	43 (2AZ–FE)
C10		44 (C/P)	E8	Е	44 (C/P)	Sí	12	45 (C/P)
C12		44 (C/P)	J	1	45 (C/P)	Т	2	43 (2AZ–FE)
D3		44 (C/P)	J2		45 (C/P)			

#### $\bigcirc$

#### : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1B	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1C					
2C	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)			
2F	30	Instrument Panel Wire and Driver Side I/B (Lower Finish Panel)			
2M	50				
ЗA	36 (*2)	Instrument Panel Wire and Passenger Side I/B (Instrument Panel Brace PH)			
3B	30(2)				

\* 1 : Convertible \* 2 : C/P, Convertible w/ VSC \* 3 : Convertible w/o VSC





#### System Outline

The engine control system utilizes a microcomputer and maintains overall control of the engine, transaxle etc. An outline of the engine control is given here.

#### 1. Input Signals

(1) Engine coolant temp. signal circuit

The engine coolant temp. sensor detects the engine coolant temp. and has a built-in thermistor with a resistance, which varies according to the engine coolant temp. The engine coolant temp. which is input into TERMINAL THW of the engine control module as a control signal.

(2) Intake air temp. signal circuit

The intake air temp. sensor is installed in the mass air flow meter and detects the intake air temp. which is input as a control signal to TERMINAL THA of the engine control module.

(3) Oxygen density signal circuit

The oxygen density in the exhaust emission is detected by the heated oxygen sensor and input as a control signal to TERMINAL OX1B of the engine control module (HT1B)

(4) RPM signal circuit

Camshaft position and crankshaft position are detected by the camshaft position sensor and crankshaft position sensor. Camshaft position is input as a control signal to TERMINAL G2+ of the engine control module, and engine RPM is input into TERMINAL NE+.

(5) Throttle position signal circuit

The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINALS VTA1 and VTA2 of the engine control module.

(6) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine control module. With the ignition SW turned on, the voltage for engine control module start-up power supply is applied to TERMINAL +B of the engine control module via the EFI relay.

(7) Stop light SW signal circuit

The stop light SW is used to detect whether the vehicle is braking or not and the signal is input into TERMINAL STP of the engine control module as a control signal.

(8) Starter signal circuit

To confirm whether the engine is cranking, the voltage is applied to the starter motor during cranking is detected and the signal is input into TERMINAL STA of the engine control module as a control signal.

(9) Engine knock signal circuit

Engine knocking is detected by knock sensor and the signal is input into TERMINAL KNK1 as a control signal.

(10) Air fuel ratio signal system

The air fuel ratio is detected and input as a control signal into TERMINAL A1A+ of the engine control module.

### O : Parts Location

Co	de	See Page	Co	de	See Page	Code		See Page
۸1		40 (3MZ-FE)	EQ		48 (C/P)	60	^	45 (C/P)
^	. 1	42 (2AZ–FE)	FO		50 (*1)	Π2	A	47 (*1)
Δ11	Δ	44 (C/P)	17	А	41 (3MZ–FE)	R3 B 4	Р	45 (C/P)
		46 (*1)	17	В	43 (2AZ–FE)		47 (*1)	
C.F.		44 (C/P)	12		45 (C/P)	Pe	в	45 (C/P)
	.5	46 (*1)	52		47 (*1)	i to		47 (*1)
C7	Δ	44 (C/P)	J10	A	45 (C/P)	P7	С	45 (C/P)
		46 (*1)			47 (*1)	117		47 (*1)
<u></u>	D	44 (C/P)	111	ь	45 (C/P)	S	1	41 (3MZ-FE)
	D	46 (*1)	511		47 (*1)	9	2	41 (3MZ–FE)
C10		44 (C/P)	112	A	45 (C/P)	5	2	43 (2AZ–FE)
		46 (*1)	512	В	47 (*1)			

#### C : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	24	Engine Room R/B (Engine Compartment Left)

#### : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	27	Engine Wire and Engine Room J/B (Engine Compartment Left)
2A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
2F	30	
2G	31	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2K	30	
24	36 (*2)	
34	37 (*3)	Instrument Panel Wire and Passenger Side, I/B (Instrument Panel Brace PH)
3B	36 (*2)	
3C	37 (*3)	

#### : Connector Joining Wire Harness and Wire Harness Code See Page Joining Wire Harness and Wire Harness (Connector Location) 56 (C/P) IC1 Instrument Panel Wire and Floor No.1 Wire (Left Kick Panel) 58 (\*1) 56 (C/P) IF1 Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Brace LH) 58 (\*1) 56 (C/P) IG6 58 (\*1) 56 (C/P) Engine Room Main Wire and Instrument Panel Wire (Behind the Radio and Player) IG7 58 (\*1) IG9 56 (C/P) 57 (C/P) IH1 Instrument Panel No.2 Wire and Instrument Panel Wire (Behind the Radio and Player) 59 (\*1) 57 (C/P) IK1 59 (\*1) Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH) IK2 57 (C/P) 57 (C/P) IM1 59 (\*1) Engine Wire and Instrument Panel Wire (Behind the Glove Box) 57 (C/P) IM2 59 (\*1)

\* 1 : Convertible \* 2 : C/P, Convertible w/ VSC \* 3 : Convertible w/o VSC

# Audio System for Separate Type Amplifier without Navigation



## CAMRY SOLARA (EWD628U)



102

	Fuse	System	Page
10A	ECU–B	Seat Belt Warning	228
		SRS	185
		Theft Deterrent and Door Lock Control	144
		VSC and Tire Pressure Warning System	170
		Wireless Door Lock Control	150
10A	ECU–IG	ABS and Tire Pressure Warning System	178
		Automatic Glare–Resistant EC Mirror with Compass	234
		Automatic Light Control	118
		Convertible Roof and Power Window (Convertible)	164
		Fog Light	116
		Headlight	112
		Interior Light	122
		Light Auto Turn Off System	120
		Moon Roof	158
		Multiplex Communication System (BEAN 2AZ–FE)	110
		Multiplex Communication System (CAN 3MZ–FE)	104
		Power Window (Coupe)	160
		Theft Deterrent and Door Lock Control	144
		VSC and Tire Pressure Warning System	170
		Wireless Door Lock Control	150
10A	FOG	Fog Light	116
10A	GAUGE1	ABS and Tire Pressure Warning System	178
		Back–Up Light	140
		Charging	76
		Clock	246
		Combination Meter	266
		Convertible Roof and Power Window (Convertible)	164
		Cruise Control (2AZ–FE)	198
		Cruise Control (3MZ–FE)	192
		Electronically Controlled Transmission and A/T Indicator (2AZ-FE)	212
		Electronically Controlled Transmission and A/T Indicator (3MZ-FE)	204
		Key Reminder	142
		Navigation System and Audio System	252
		Seat Belt Warning	228
		Shift Lock	220
		Turn Signal and Hazard Warning Light	132
		VSC and Tire Pressure Warning System	170
10A	HTR	Automatic Air Conditioning	278
		Engine Control (2AZ–FE)	90
		Engine Control (3MZ–FE)	78
		Manual Air Conditioning	286
		Radiator Fan and Condenser Fan	272
		Rear Window Defogger and Mirror Heater	244

\* These are the page numbers of the first page on which the related system is shown.

J

# CAMRY SOLARA (EWD628U)