FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the 2006 PRIUS.

Applicable models: NHW20 Series

Refer to the following manuals for additional service specifications and repair procedures for these models:

Manual Name	Pub. No.
2006 PRIUS Repair Manual	RM01R0U
2006 PRIUS New Car Features	NM01R0U

All information in this manual is based on the latest product information at the time of publication. However, specifications and procedures are subject to change without notice.

TOYOTA MOTOR CORPORATION

CAUTION

When repairing the hybrid vehicle (HV), always follow the direction given in the repair manual listed above to prevent electrical shock, leakage or explosion.

NOTICE

Always follow the directions given in the above repair manuals when handling supplemental restraint system components (such as removal, installation, inspection, etc.) in order to prevent accidents and supplemental restraint system malfunction.

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2006 PRIUS ELECTRICAL WIRING DIAGRAM

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A INTRODUCTION

This manual consists of the following 13 sections:

No.	Section	Description	
_	INDEX	Index of the contents of this manual.	
A	INTRODUCTION	Brief explanation of each section.	
В	HOW TO USE THIS MANUAL	Instructions on how to use this manual.	
С	TROUBLE- SHOOTING	Describes the basic inspection procedures for electrical circuits.	
D	ABBREVIATIONS	Defines the abbreviations used in this manual.	
E	GLOSSARY OF TERMS AND SYMBOLS	Defines the symbols and functions of major parts.	
F	RELAY LOCATIONS	Shows position of the Electronic Control Unit, Relays, Relay Block, etc. This section is closely related to the system circuit.	
G	ELECTRICAL WIRING ROUTING	Describes position of Parts Connectors, Splice points, Ground points, etc. This section is closely related to the system circuit.	
	INDEX	Index of the system circuits.	
н	SYSTEM CIRCUITS	Electrical circuits of each system are shown from the power supply through ground points. Wiring connections and their positions are shown and classified by code according to the connection method. (Refer to the section, "How to use this manual"). The "System Outline" and "Service Hints" useful for troubleshooting are also contained in this section.	
ı	GROUND POINT	Shows ground positions of all parts described in this manual.	
J	POWER SOURCE (Current Flow Chart)	Describes power distribution from the power supply to various electrical loads.	
K	CONNECTOR LIST	Describes the form of the connectors for the parts appeared in this book. This section is closely related to the system circuit.	
L	PART NUMBER OF CONNECTORS	Indicates the part number of the connectors used in this manual.	
М	OVERALL ELECTRICAL WIRING DIAGRAM	Provides circuit diagrams showing the circuit connections.	

This manual provides information on the electrical circuits installed on vehicles by dividing them into a circuit for each system.

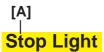
The actual wiring of each system circuit is shown from the point where the power source is received from the battery as far as each ground point. (All circuit diagrams are shown with the switches in the OFF position.)

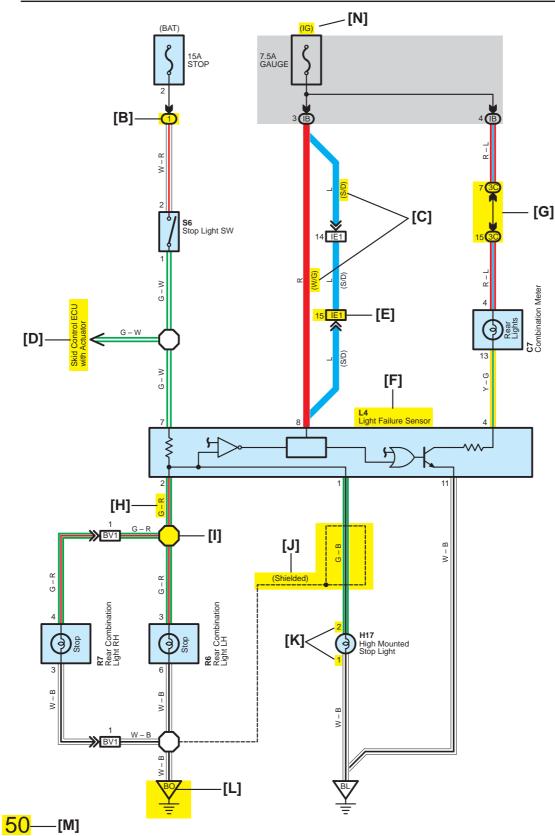
When troubleshooting any problem, first understand the operation of the circuit where the problem was detected (see System Circuit section), the power source supplying power to that circuit (see Power Source section), and the ground points (see Ground Point section). See the System Outline to understand the circuit operation.

When the circuit operation is understood, begin troubleshooting of the problem circuit to isolate the cause. Use Relay Location and Electrical Wiring Routing sections to find each part, junction block and wiring harness connectors, wiring harness and wiring harness connectors and ground points of each system circuit. Internal wiring for each junction block is also provided for better understanding of connection within a junction block.

Wiring related to each system is indicated in each system circuit by arrows (from___, to___). When overall connections are required, see the Overall Electrical Wiring Diagram at the end of this manual.

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





[A] : System Title

[B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

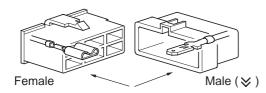
Example: 1 Indicates Relay Block No.1

[C]: () is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.

[D] : Indicates related system.

[E] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (⋈).

Outside numerals are pin numbers.



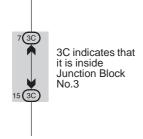
The first letter of the code for each wiring harness and wiring harness connector(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

When more than one code has the first and second letters in common, followed by numbers (e.g, IH1, IH2), this indicates the same type of wiring harness and wiring harness connector.

[F] : Represents a part (all parts are shown in sky blue). The code is the same as the code used in parts position.

[G] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.





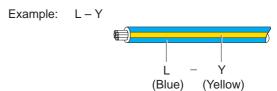
[H]: Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B = Black W = White BR = Brown
L = Blue V = Violet SB = Sky Blue
R = Red G = Green LG = Light Green
P = Pink Y = Yellow GR = Gray

O = Orange

The first letter indicates the basic wire color and the second letter indicates the color of the stripe.



[I] : Indicates a wiring Splice Point

Example:



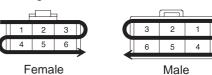
[J] : Indicates a shielded cable.



[K] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example: Numbered in order from upper left to lower right

Numbered in order from upper right to lower left



[L] : Indicates a ground point.

The first letter of the code for each ground point(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

[M]: Page No.

[N] : Indicates the ignition key position(s) when the power is supplied to the fuse(s).

B HOW TO USE THIS MANUAL

[0]

System Outline

Current is applied at all times through the STOP fuse to TERMINAL 2 of the stop light SW.

When the ignition SW is turned on, current flows from the GAUGE fuse to TERMINAL 8 of the light failure sensor, and also flows through the rear lights warning light to TERMINAL 4 of the light failure sensor.

Stop Light Disconnection Warning

When the ignition SW is turned on and the brake pedal is pressed (Stop light SW on), if the stop light circuit is open, the current flowing from TERMINAL 7 of the light failure sensor to TERMINALS 1, 2 changes, so the light failure sensor detects the disconnection and the warning circuit of the light failure sensor is activated.

As a result, the current flows from TERMINAL 4 of the light failure sensor to TERMINAL 11 to GROUND and turns the rear lights warning light on. By pressing the brake pedal, the current flowing to TERMINAL 8 of the light failure sensor keeps the warning circuit on and holds the warning light on until the ignition SW is turned off.

[P] : Parts Location

Code	See Page	Code	See Page	Code	See Page
C7	34	L4	36	R7	37
H17	36	R6	37	S6	35

[Q] : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	18	R/B No.1 (Instrument Panel Brace LH)

[R] : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
3C	22	Instrument Panel Wire and J/B No.3 (Instrument Panel Brace LH)	
IB	20	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)	

[S] : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IE1	42	Floor Wire and Instrument Panel Wire (Left Kick Panel)	
BV1	50	Luggage Room Wire and Floor Wire (Luggage Room Left)	

[T] : Ground Points

Code	See Page	Ground Points Location
BL	50	Under the Left Center Pillar
ВО	50	Back Panel Center

[O]: Explains the system outline.

[P]: Indicates the reference page showing the position on the vehicle of the parts in the system circuit.

Example: Part "L4" (Light Failure Sensor) is on page 36 of the manual.

* The letter in the code is from the first letter of the part, and the number indicates its order in parts starting with that letter.

Example : L 4
Parts is 4th in order
Light Failure Sensor

[Q]: Indicates the reference page showing the position on the vehicle of Relay Block Connectors in the system circuit.

Example: Connector "1" is described on page 18 of this manual and is installed on the left side of the instrument panel.

[R]: Indicates the reference page showing the position on the vehicle of J/B and Wire Harness in the system circuit.

Example: Connector "3C" connects the Instrument Panel Wire and J/B No.3. It is described on page 22 of this manual, and is installed on the instrument panel left side.

[S]: Indicates the reference page describing the wiring harness and wiring harness connector (the female wiring harness is shown first, followed by the male wiring harness).

Example: Connector "IE1" connects the floor wire (female) and Instrument panel wire (male). It is described on page 42 of this manual, and is installed on the left side kick panel.

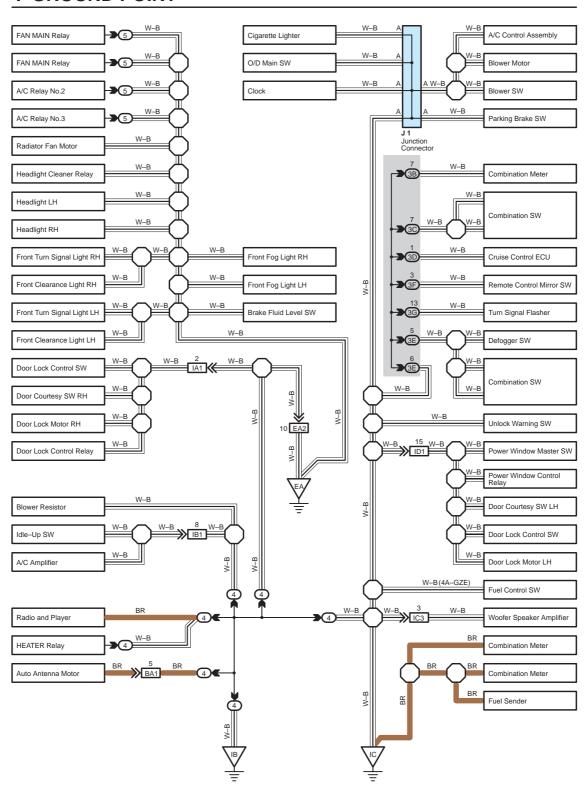
[T]: Indicates the reference page showing the position of the ground points on the vehicle.

Example: Ground point "BO" is described on page 50 of this manual and is installed on the back panel center.

B HOW TO USE THIS MANUAL

The ground points circuit diagram shows the connections from all major parts to the respective ground points. When troubleshooting a faulty ground point, checking the system circuits which use a common ground may help you identify the problem ground quickly. The relationship between ground points ($\sqrt{\frac{1}{2}}$), $\sqrt{\frac{1}{2}}$) and $\sqrt{\frac{1}{2}}$) shown below) can also be checked this way.

I GROUND POINT

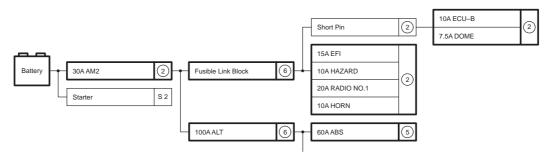


^{*} The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

The "Current Flow Chart" section, describes which parts each power source (fuses, fusible links, and circuit breakers) transmits current to. In the Power Source circuit diagram, the conditions when battery power is supplied to each system are explained. Since all System Circuit diagrams start from the power source, the power source system must be fully understood.

J POWER SOURCE (Current Flow Chart)

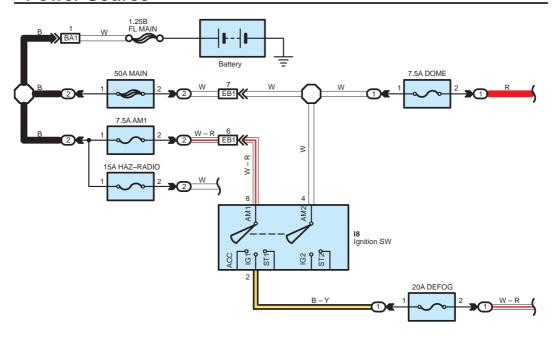
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fues, etc.) and other parts



Engine Room R/B (See Page 20)

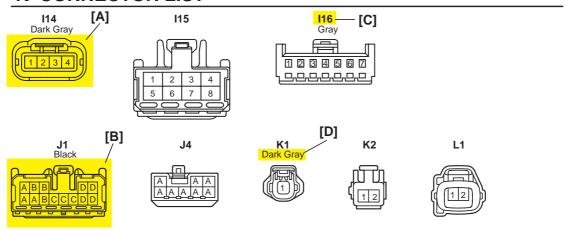
	Fuse	System	Page
		ABS	194
	1	ABS and Traction Control	187
20A	STOP	Cruise Control	180
	1	Electronically Controlled Transmission	166
		Multiplex Communication System	210
		Cigarette Lighter	214
	1	Combination Meter	230
	1	Headlight	112
10A	DOME	Interior Light	122
		Key Reminder and Seat Belt Warning	
		Light Auto Turn Off System	
		Seterrent and Deed	

Power Source

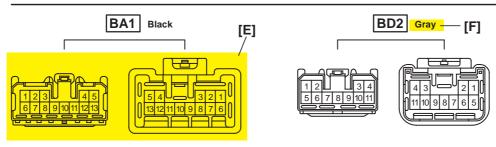


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

K CONNECTOR LIST



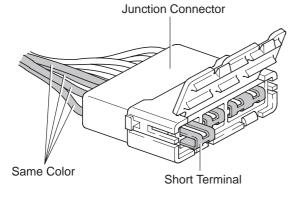
K CONNECTOR LIST



[A]: Indicates connector to be connected to a part. (The numeral indicates the pin No.)

[B]: Junction Connector

Indicates a connector which is connected to a short terminal.



Junction connector in this manual include a short terminal which is connected to a number of wire harnesses. Always perform inspection with the short terminal installed. (When installing the wire harnesses, the harnesses can be connected to any position within the short terminal grouping. Accordingly, in other vehicles, the same position in the short terminal may be connected to a wire harness from a different part.)

Wire harness sharing the same short terminal grouping have the same color.

[C]: Parts Code

The first letter of the code is taken from the first letter of part, and the numbers indicates its order in parts which start with the same letter.

[D]: Connector Color

Connectors not indicated are milky white in color.

[E]: Indicates the connector shapes which are used to join wire harnesses.

On Left: Female connector shapes On Right: Male connector shapes Numbers indicate pin numbers.

[F]: Indicates connector colors. (Connectors with not indicated colors are white)

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980–11070	D 4	Diode (Courtesy)	90980–11608
A 2	A/C Condenser Fan Motor	90980-11237	D 5	Diode (Interior Light)	90980-10962
A 3	A/C Condenser Fan Relay	90980-10940	D 6	Diode (Moon Roof)	90980-11608
A 4	A/C Condenser Fan Resistor	90980-10928	D 7	Door Lock Control Relay	90980-10848
A 5	A/C Magnetic Clutch	90980-11271	D 8	Door Lock Control SW LH	90980–11148
A 6	A/T Oil Temp. Sensor	90980-11413	D 9	Door Lock Control SW RH	90900-11146
[A]	ABS Actual [B]	909 [C] 151	D10	Door Courtesy SW LH	90980–11097
A 8	ABS Actuator	90980-11009	D11	Door Courtesy SW RH	90900-11097
A 9	ABS Speed Sensor Front LH	90980–10941	D12	Door Courtesy SW Front LH	
A10	ABS Speed Sensor Front RH	90980-11002	D13	Door Courtesy SW Front RH	90980–11156
A11	Airbag Sensor Front LH	90980–11856	D14	Door Courtesy SW Rear LH	90900-11130
A12	Airbag Sensor Front RH	90960-11656	D15	Door Courtesy SW Rear RH	
A13	Ainle	90980-11194	D16	Dand Unlock SW LH	90980-11170
-		90980-110	-	RH SH	90900-11170

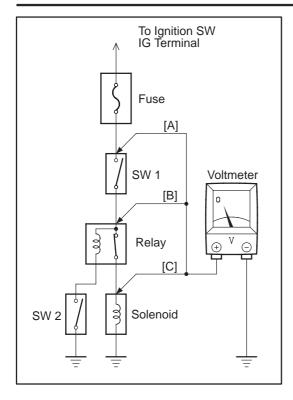
[A]: Part Code[B]: Part Name

[C]: Part Number

Toyota Part Number are indicated.

Not all of the above part numbers of the connector are established for the supply.

C TROUBLESHOOTING



VOLTAGE CHECK

(a) Establish conditions in which voltage is present at the check point.

Example:

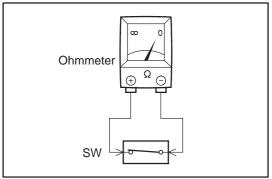
[A] - Ignition SW on

[B] - Ignition SW and SW 1 on

[C] - Ignition SW, SW 1 and Relay on (SW 2 off)

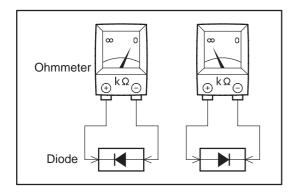
(b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal.

This check can be done with a test light instead of a voltmeter.



CONTINUITY AND RESISTANCE CHECK

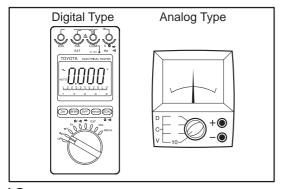
- (a) Disconnect the battery terminal or wire so there is no voltage between the check points.
- (b) Contact the two leads of an ohmmeter to each of the check points.



If the circuit has diodes, reverse the two leads and check again.

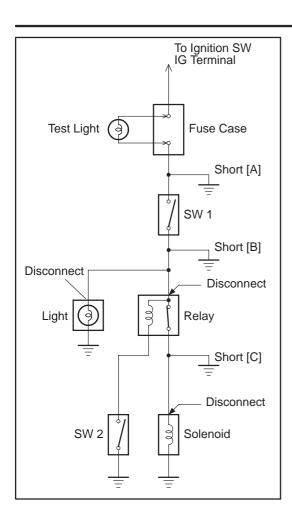
When contacting the negative lead to the diode positive side and the positive lead to the negative side, there should be continuity.

When contacting the two leads in reverse, there should be no continuity.



(c) Use a volt/ohmmeter with high impedance (10 k Ω /V minimum) for troubleshooting of the electrical circuit.

12



FINDING A SHORT CIRCUIT

- (a) Remove the blown fuse and disconnect all loads of the fuse.
- (b) Connect a test light in place of the fuse.
- (c) Establish conditions in which the test light comes on.

Example:

- [A] Ignition SW on[B] Ignition SW and SW 1 on
- [C] Ignition SW, SW 1 and Relay on (Connect the Relay) and SW 2 off (or Disconnect SW 2)
- (d) Disconnect and reconnect the connectors while watching the test light.
 - The short lies between the connector where the test light stays lit and the connector where the light goes out.
- (e) Find the exact location of the short by lightly shaking the problem wire along the body.

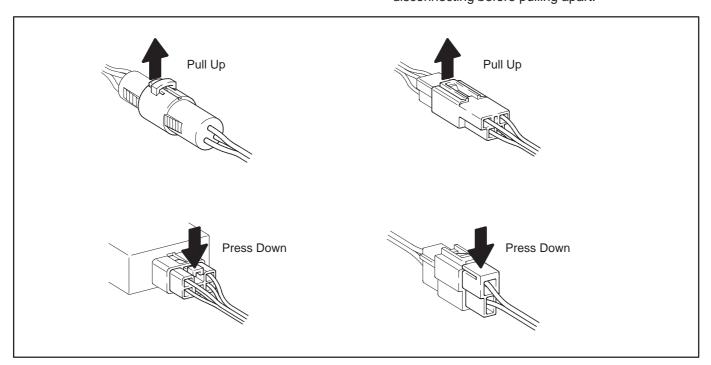
CAUTION:

- (a) Do not open the cover or the case of the ECU unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)
- (b) When replacing the internal mechanism (ECU part) of the digital meter, be careful that no part of your body or clothing comes in contact with the terminals of leads from the IC, etc. of the replacement part (spare part).

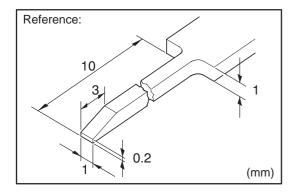
DISCONNECTION OF MALE AND FEMALE CONNECTORS

To pull apart the connectors, pull on the connector itself, not the wire harness.

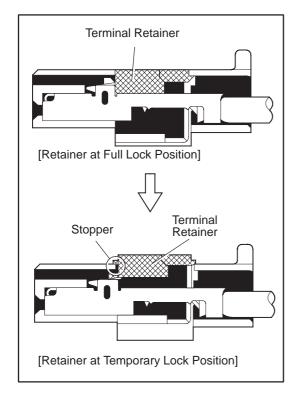
HINT: Check to see what kind of connector you are disconnecting before pulling apart.

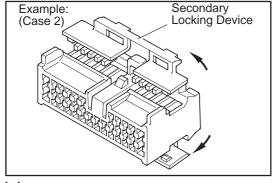


C TROUBLESHOOTING



Example: Up Tool (Case 1) Terminal Retainer





HOW TO REPLACE TERMINAL (with terminal retainer or secondary locking device)

1. PREPARE THE SPECIAL TOOL

HINT: To remove the terminal from the connector, please construct and use the special tool or like object shown on the left.

2. DISCONNECT CONNECTOR

- DISENGAGE THE SECONDARY LOCKING DEVICE OR TERMINAL RETAINER.
 - (a) Locking device must be disengaged before the terminal locking clip can be released and the terminal removed from the connector.
 - (b) Use a special tool or the terminal pick to unlock the secondary locking device or terminal retainer.

NOTICE:

Do not remove the terminal retainer from connector body.

[A] For Non–Waterproof Type Connector

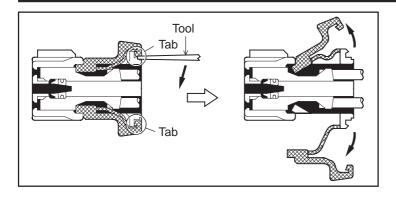
HINT: The needle insertion position varies according to the connector's shape (number of terminals etc.), so check the position before inserting it.

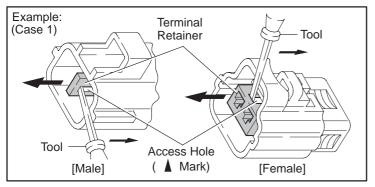
"Case 1"

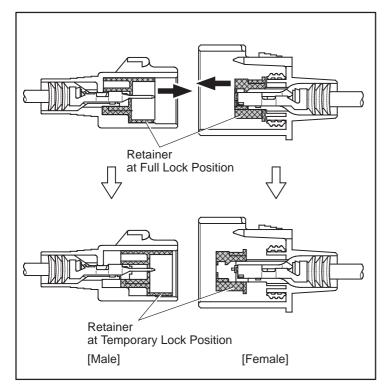
Raise the terminal retainer up to the temporary lock position.

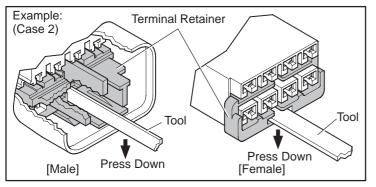
"Case 2"

Open the secondary locking device.









[B] For Waterproof Type Connector

HINT: Terminal retainer color is different according to connector body.

Example:

Terminal Retainer: Connector Body

Black or White : Gray
Black or White : Dark Gray
Gray or White : Black

"Case 1"

Type where terminal retainer is pulled up to the temporary lock position (Pull Type).

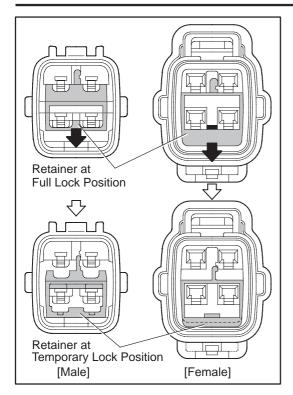
Insert the special tool into the terminal retainer access hole (Mark) and pull the terminal retainer up to the temporary lock position.

HINT: The needle insertion position varies according to the connector's shape (Number of terminals etc.), so check the position before inserting it.

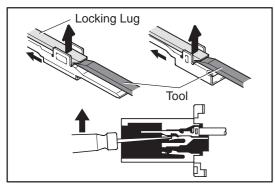
"Case 2"

Type which cannot be pulled as far as Power Lock insert the tool straight into the access hole of terminal retainer as shown.

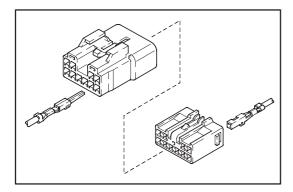
C TROUBLESHOOTING



Push the terminal retainer down to the temporary lock position.



(c) Release the locking lug from terminal and pull the terminal out from rear.

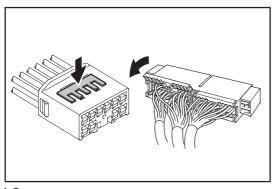


4. INSTALL TERMINAL TO CONNECTOR

(a) Insert the terminal.

HINT:

- 1. Make sure the terminal is positioned correctly.
- 2. Insert the terminal until the locking lug locks firmly.
- 3. Insert the terminal with terminal retainer in the temporary lock position.



- (b) Push the secondary locking device or terminal retainer in to the full lock position.
- 5. CONNECT CONNECTOR

16

ABBREVIATIONS

The following abbreviations are used in this manual.

A/C = Air Conditioning

ABS = Anti-Lock Brake System

AVC-LAN = Audio Visual Communication - Local Area Network

BA = Brake Assist

BEAN = Body Electronics Area Network

CAN = Controller Area Network

CHS = Coolant Heat Storage System

DC = Direct Current EC = Electrochromic

ECU = Electronic Control Unit

EPS = Electric Motor Power Steering

ESA = Electronic Spark Advance HID = High Intensity Discharge

HV = Hybrid Vehicle
IC = Integrated Circuit

INT = Intermittent J/B = Junction Block

LH = Left-Hand

PTC = Positive Temperature Coefficient

R/B = Relay Block RH = Right-Hand

SFI = Sequential Multiport Fuel Injection

SOC = State of Charge

SRS = Supplemental Restraint System

SW = Switch

TEMP. = Temperature

TRAC = Traction Control

VSC = Vehicle Stability Control VSV = Vacuum Switching Valve

VVT-i = Variable Valve Timing-intelligent

w/ = With w/o = Without

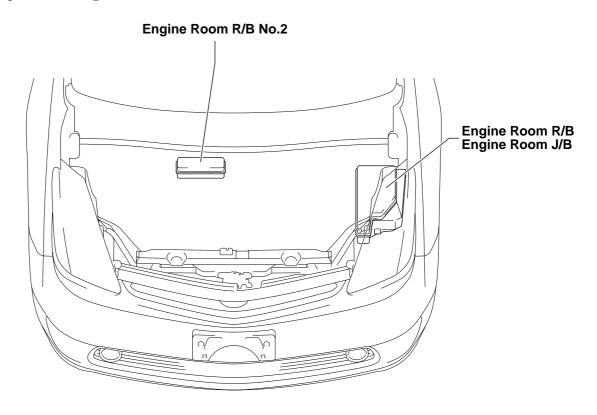
^{*} The titles given inside the components are the names of the terminals (terminal codes) and are not treated as being abbreviations.

E GLOSSARY OF TERMS AND SYMBOLS

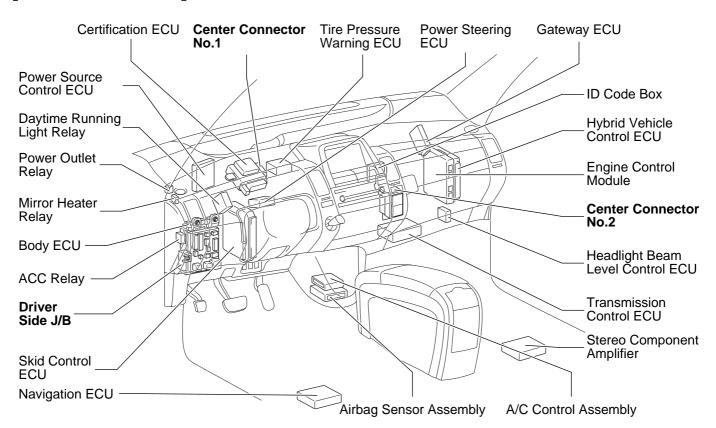
Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.	GROUND The point at which wiring attaches to the Body, thereby providing a return path for an electrical circuit; without a ground, current cannot flow.
CAPACITOR (Condenser) A small holding unit for temporary storage of electrical voltage.	1. SINGLE FILAMENT 1. SINGLE FILAMENT Current flow causes a headlight filament to heat up and emit light. A headlight may have either a single (1) filament or a double (2) filament
CIGARETTE LIGHTER An electric resistance heating element.	2. DOUBLE FILAMENT
CIRCUIT BREAKER Basically a reusable fuse, a circuit breaker will heat and open if too much current flows through it. Some units automatically reset when cool, others must be manually reset.	HORN An electric device which sounds a loud audible signal.
A semiconductor which allows current flow in only one direction.	IGNITION COIL Converts low–voltage DC current into high–voltage ignition current for firing the spark plugs.
DIODE, ZENER A diode which allows current flow in one direction but blocks reverse flow only up to a specific voltage. Above that potential, it passes the excess voltage. This acts as a simple voltage regulator.	Current flow through a filament causes the filament to heat up and emit light.
The photodiode is a semiconductor which controls the current flow according to the amount of light.	Upon current flow, these diodes emit light without producing the heat of a comparable light.
DISTRIBUTOR, IIA Channels high–voltage current from the ignition coil to the individual spark plugs.	METER, ANALOG Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.
FUSE A thin metal strip which burns through when too much current flows through it, thereby stopping current flow and protecting a circuit from damage. FUSIBLE LINK	METER, DIGITAL Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.
(for Medium Current Fuse) A heavy–gauge wire placed in high amperage circuits which burns through on overloads, thereby protecting the circuit. The numbers indicate the crosssection surface area of the wires.	MOTOR A power unit which converts electrical energy into mechanical energy, especially rotary motion.

SPEAKER RELAY An electromechanical device which Basically, an electrically operated 1. NORMALLY switch which may be normally creates sound waves from current **CLOSED** closed (1) or open (2). Current flow through a small coil creates a magnetic field which either opens or closes an attached switch. 2. NORMALLY SWITCH, MANUAL **OPEN** Opens and closes circuits, thereby 1. NORMALLY stopping (1) or **OPEN** allowing (2) current flow. **RELAY, DOUBLE THROW** A relay which passes current 2. NORMALLY through one set of contacts or the **CLOSED** other. **RESISTOR** SWITCH, DOUBLE THROW An electrical component with a fixed A switch which continuously passes resistance, placed in a circuit to current through one set of contacts or the other. reduce voltage to a specific value. **RESISTOR, TAPPED** SWITCH, IGNITION A resistor which supplies two or A key operated switch with several more different non adjustable positions which allows various resistance values. circuits, particularly the primary ignition circuit, to become operational. RESISTOR, VARIABLE or RHEOSTAT A controllable resistor with a variable rate of resistance. Also called a potentiometer or **SENSOR** (Thermistor) SWITCH, WIPER PARK A resistor which varies its resistance Automatically returns wipers to the with temperature. stop position when the wiper switch is turned off. SENSOR, SPEED **TRANSISTOR** A solidstate device typically used as Uses magnetic impulses to open and close a switch to create a signal an electronic relay; stops or passes for activation of other components. current depending on the voltage (Reed Switch Type) applied at "base". **SHORT PIN WIRES** Used to provide an unbroken Wires are always drawn as connection within a junction block. (1) NOT straight lines on wiring **CONNECTED** diagrams. Crossed wires (1) without a black dot at the junction are not joined; **SOLENOID** crossed wires (2) with a An electromagnetic coil which forms black dot or octagonal (()) a magnetic field when current flows, (2) SPLICED mark at the junction are to move a plunger, etc. spliced (joined) connections.

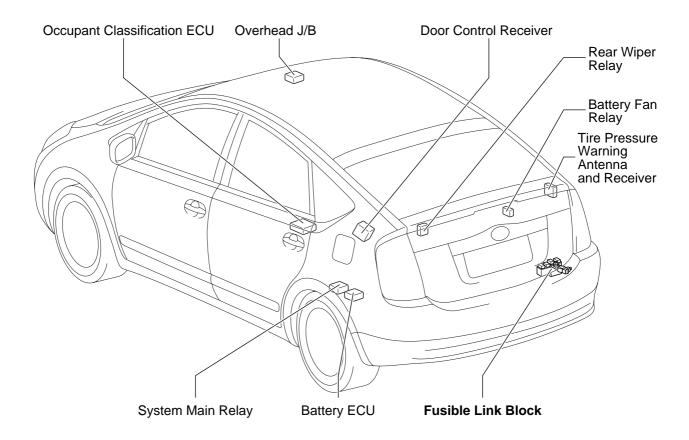
[Engine Compartment]



[Instrument Panel]

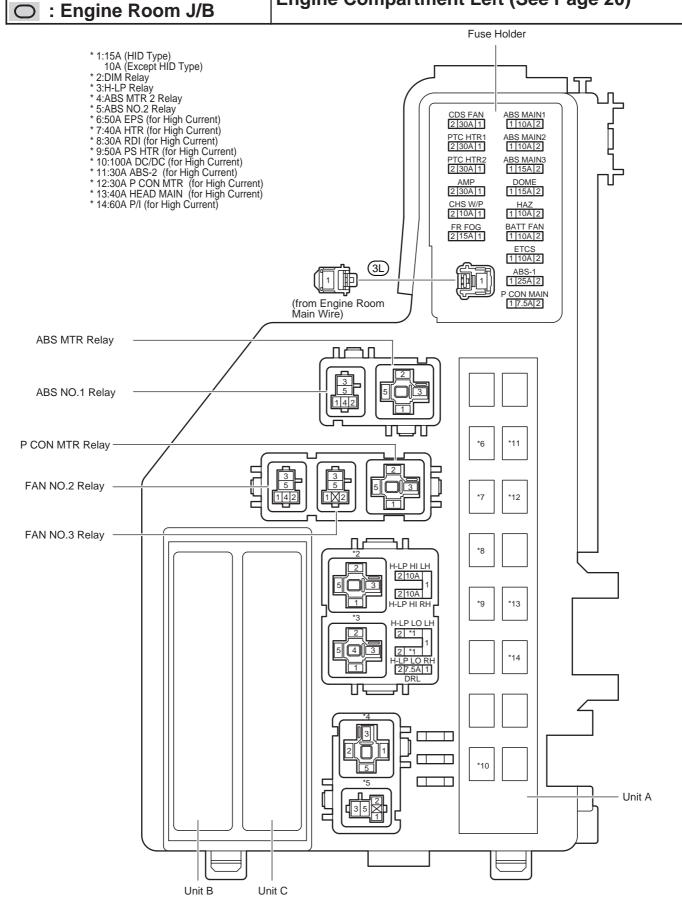


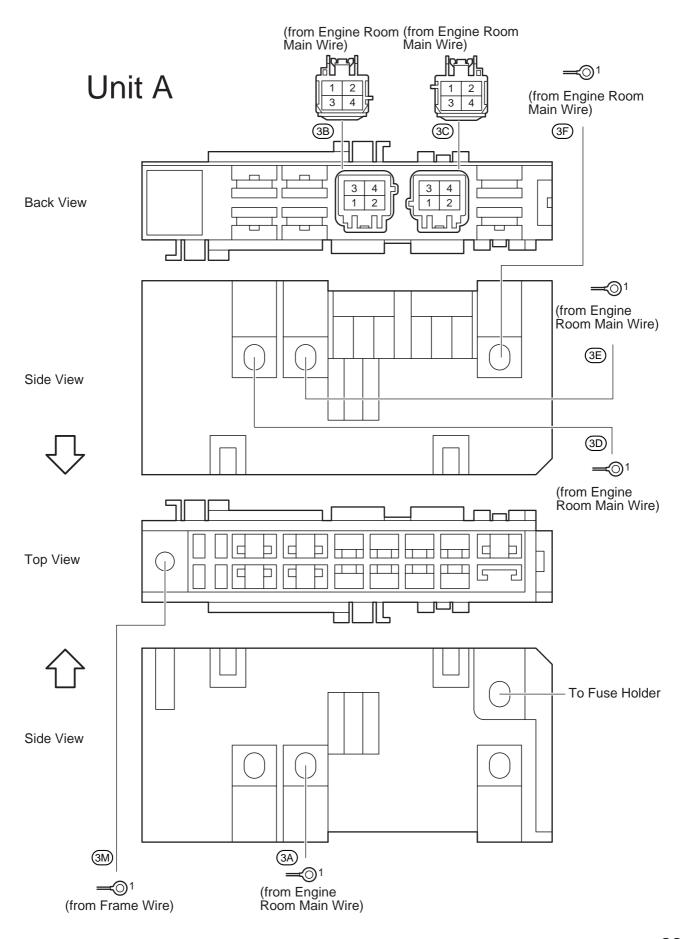
[Body]



③: Engine Room R/B

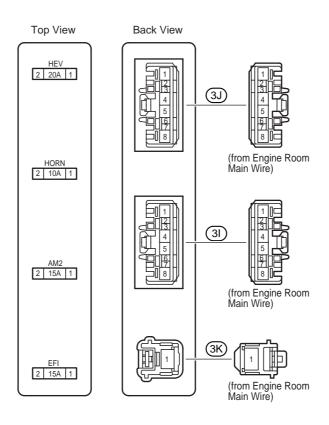
Engine Compartment Left (See Page 20)



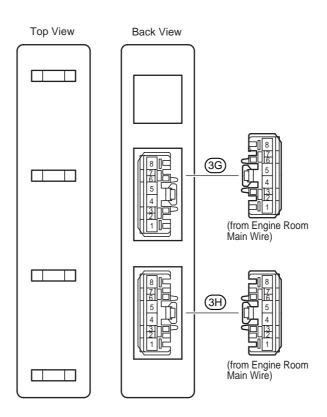


③ : Engine Room R/B	Engine Compartment Left (See Page 20)
: Engine Room J/B	Lingine Compartment Left (See Fage 20)

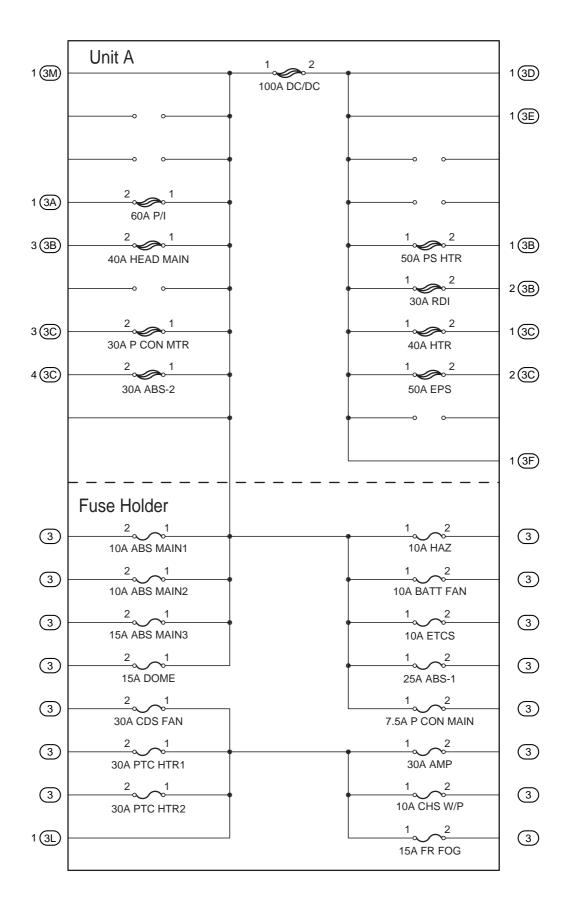
Unit B

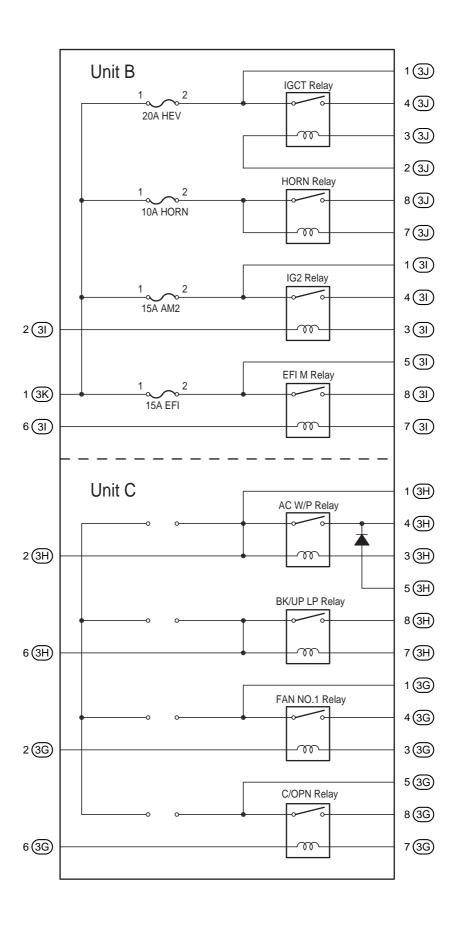


Unit C

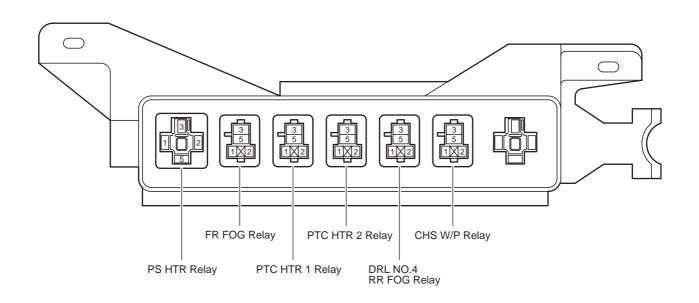


[Engine Room R/B and Engine Room J/B Inner Circuit]



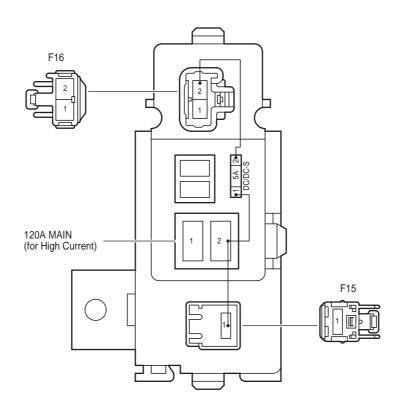


② : Engine Room R/B No.2 | Right Side of Reserve Tank (See Page 20)



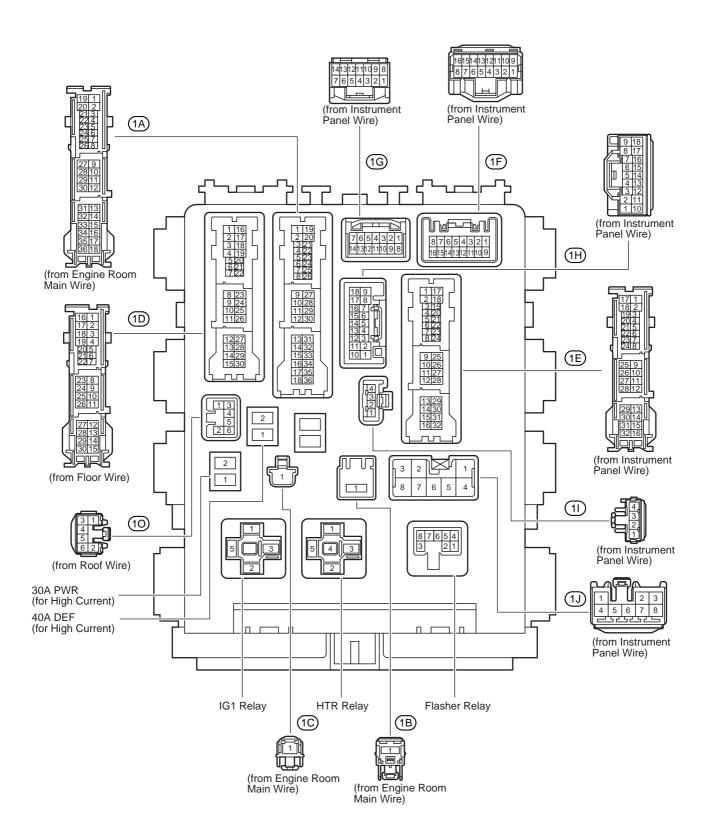
Fusible Link Block

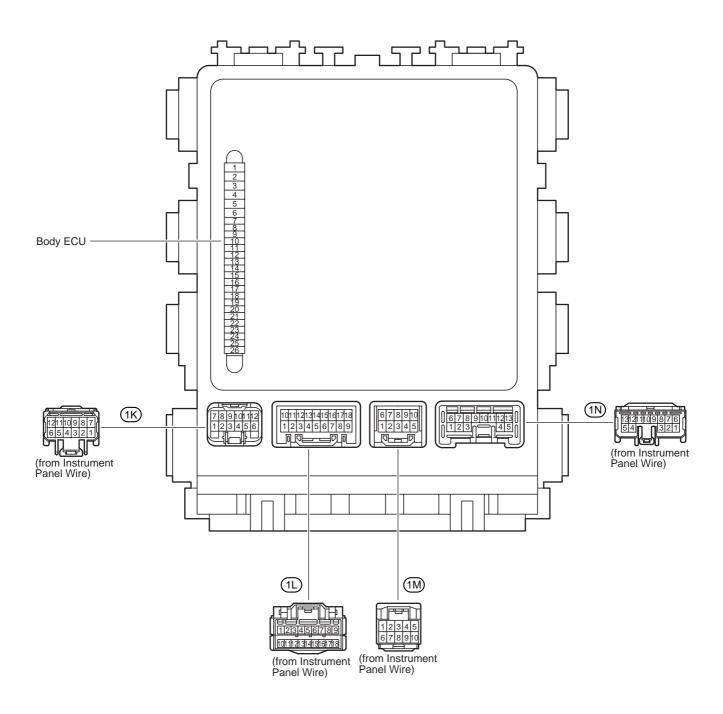
Luggage Room Right (See Page 21)



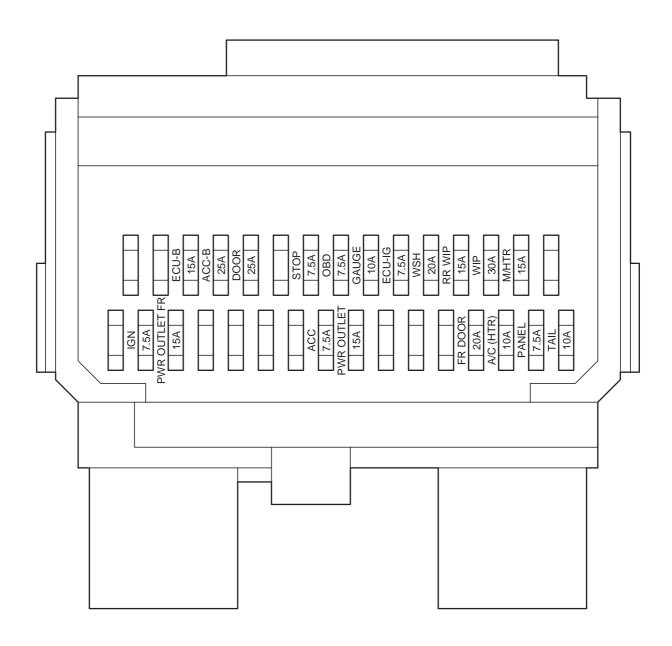
: Driver Side J/B

Lower Finish Panel (See Page 20)

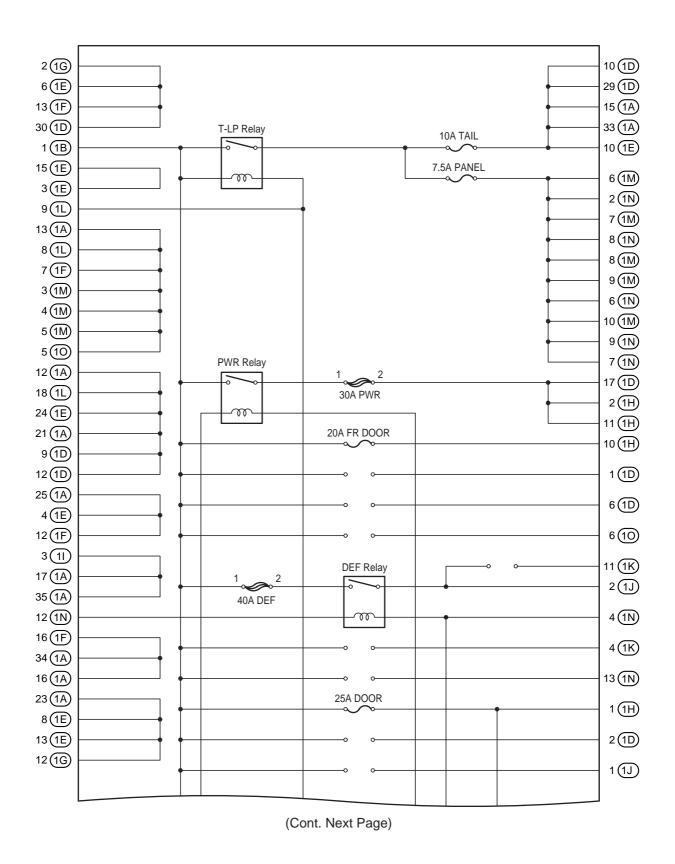


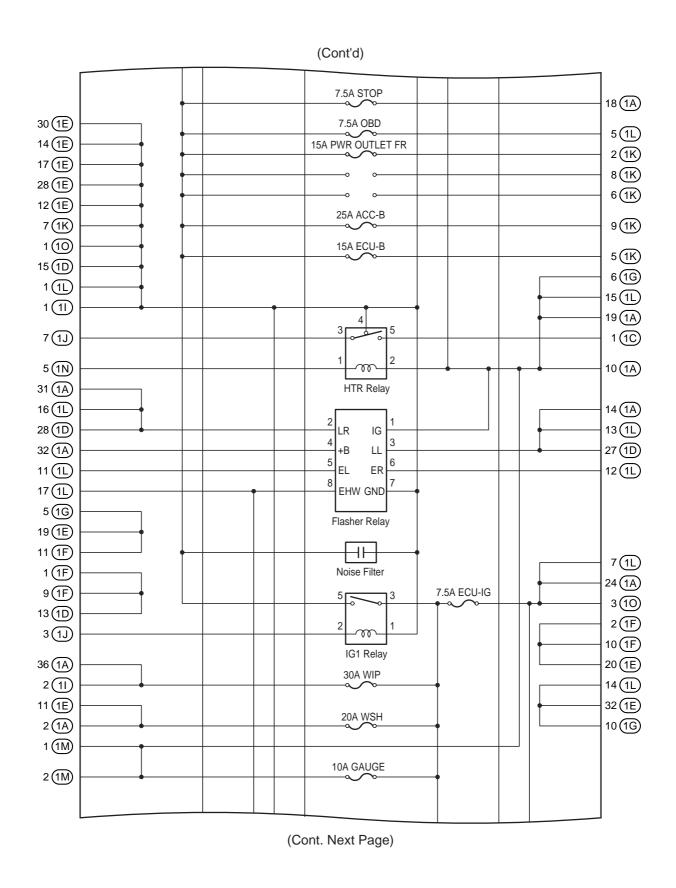


○ : Driver Side J/B Lower Finish Panel (See Page 20)

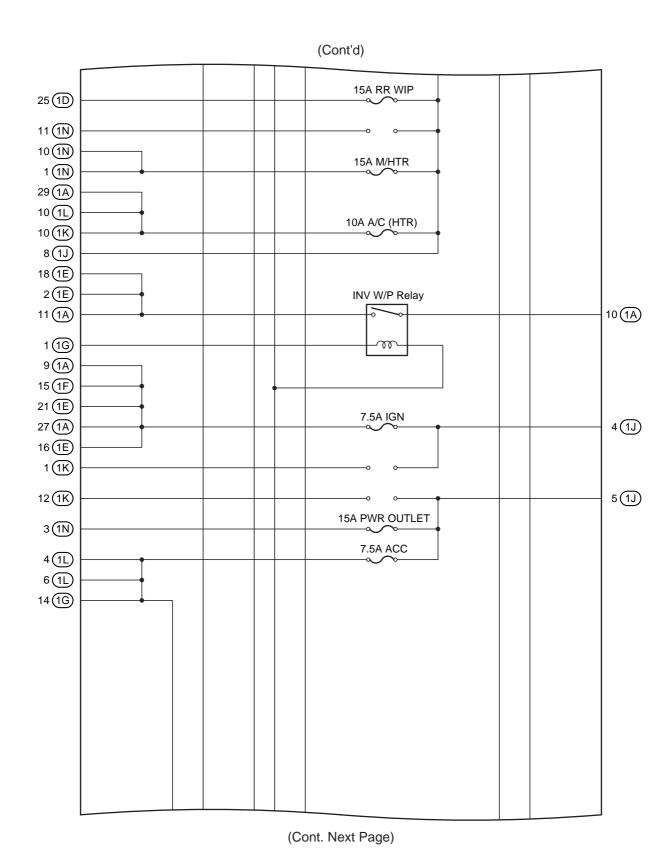


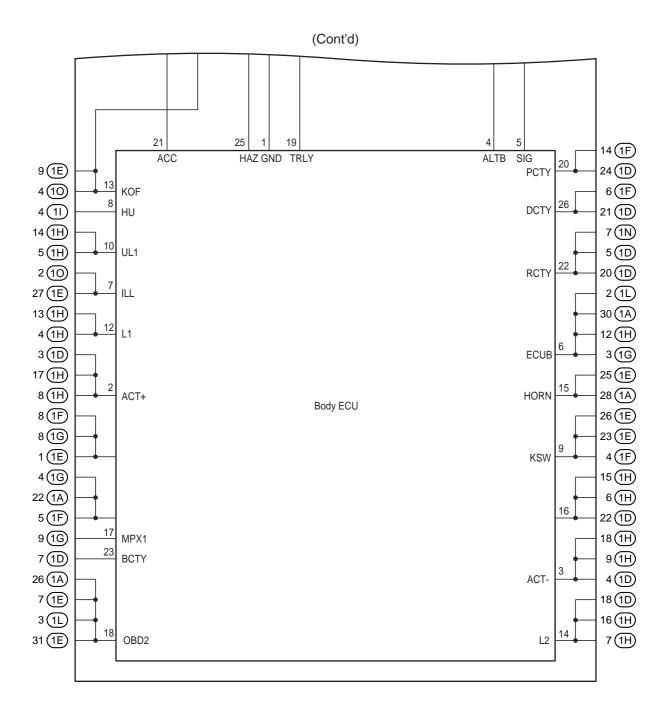
[Driver Side J/B Inner Circuit]



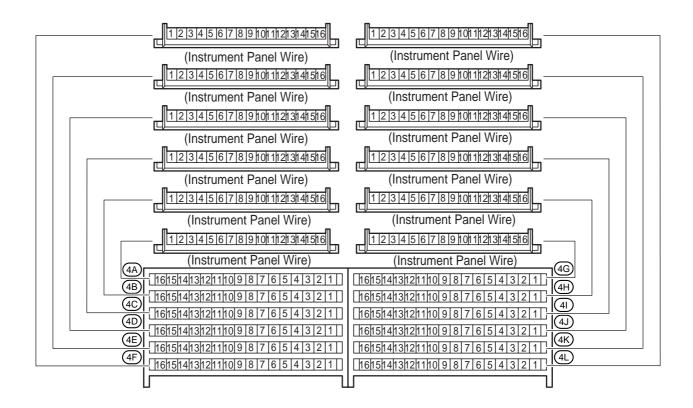


[Driver Side J/B Inner Circuit]

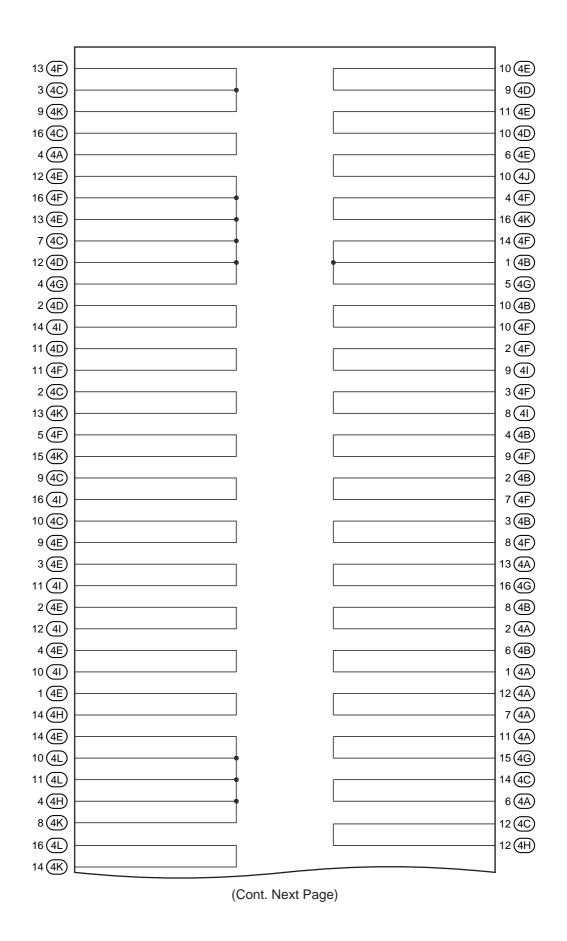


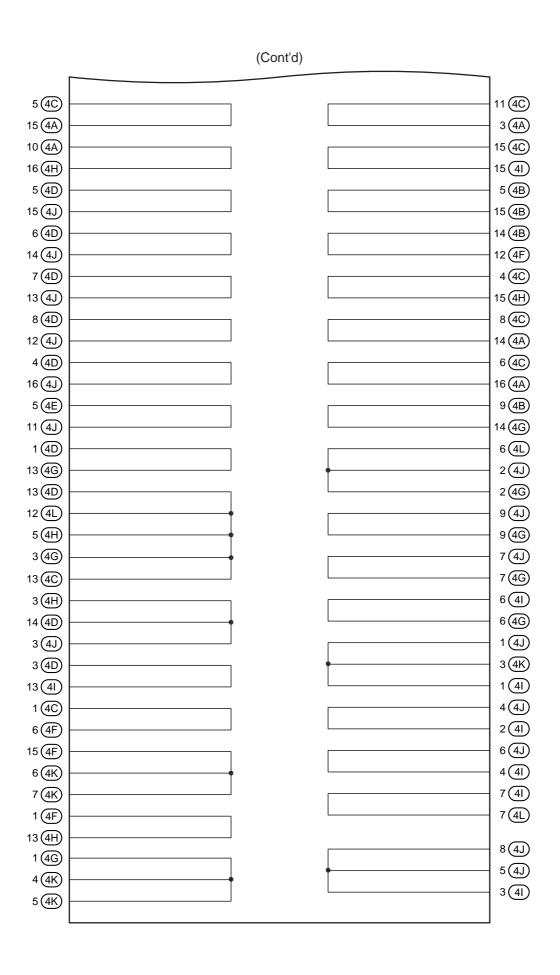


: Center Connector No.1 | Behind the Combination Meter (See Page 20)

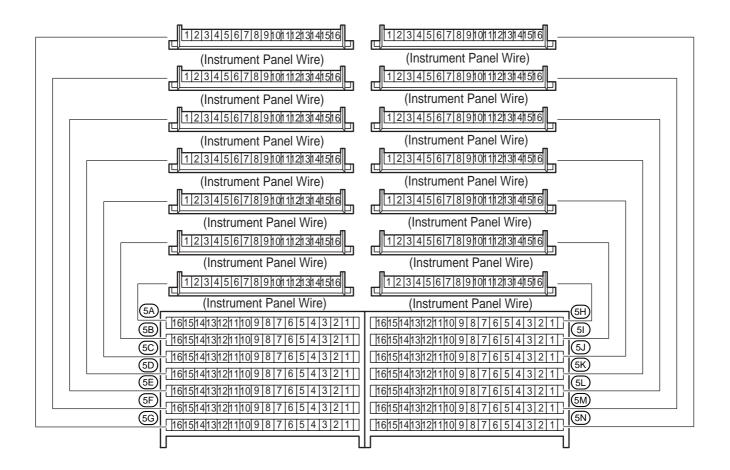


[Center Connector No.1 Inner Circuit]

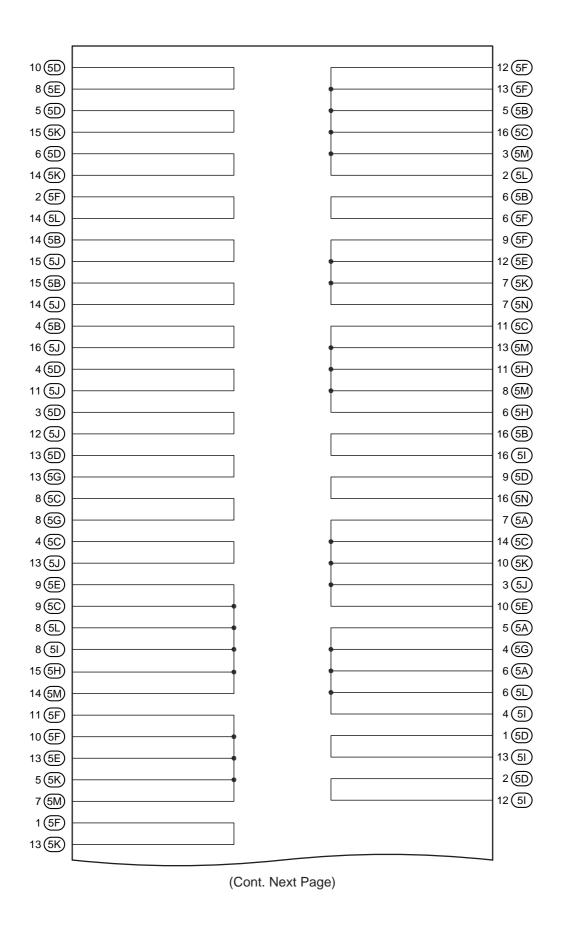




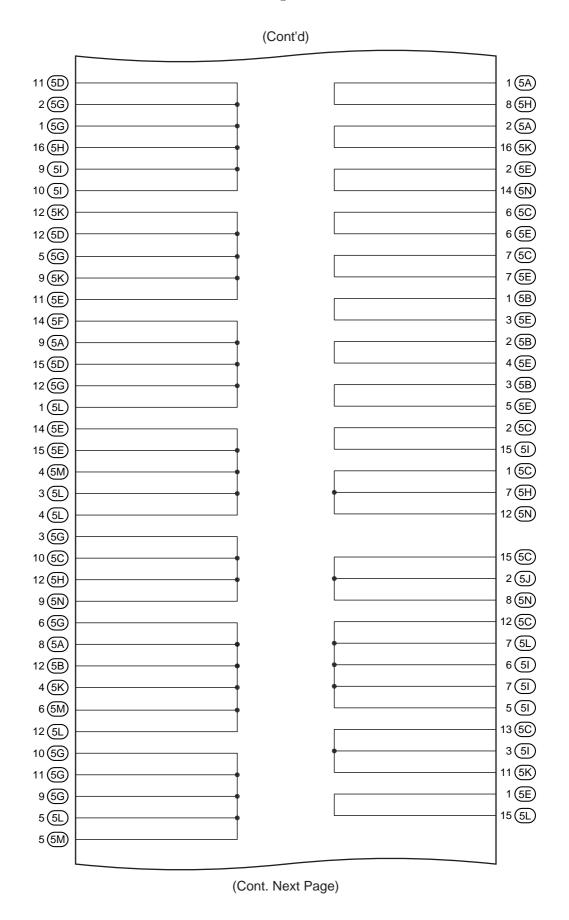
: Center Connector No.2 Instrument Panel Brace RH (See Page 20)

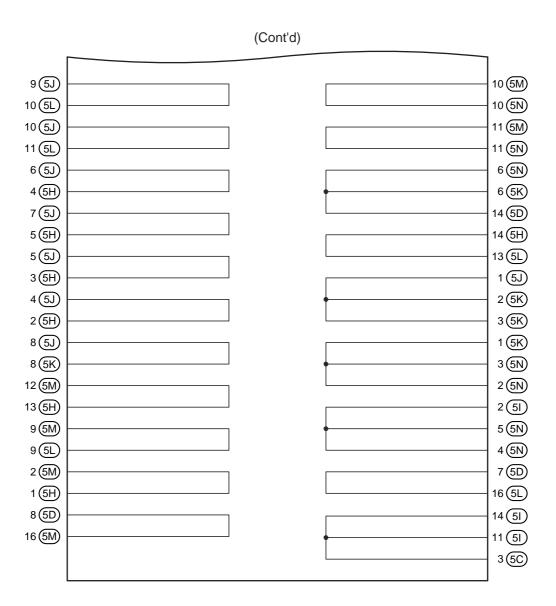


[Center Connector No.2 Inner Circuit]



[Center Connector No.2 Inner Circuit]





Position of Parts in Engine Compartment B1 (B17) (C1) (A5) (E1) (A2) (F10) (G6) (C5) A3 (B3) (B17) (C1) (A5) (E1) (A2) (F10) (G6) (C5) (B1) (B17) (C1) (A5) (E1) (A2) (F10) (G6) (C5) (B1) (B17) (C1) (A5) (E1) (A2) (F10) (G6) (C5) (B1) (B17) (C1) (A5) (E1) (A2) (F10) (G6) (C5) (B1) (B17) (C1) (A5) (E1) (A2) (F10) (G6) (C5) (B1) (B17) (C1) (A5) (E1) (A2) (F10) (G6) (C5) (B1) (B17) (C1) (A5) (E1) (A2) (F10) (G6) (C5) (B1) (B17) (C1) (A5) (E1) (A2) (F10) (G6) (C5) (B1) (B17) (C1) (A5) (E1) (A2) (F10) (G6) (C5) (B1) (B17) (C1) (A5) (E1) (A2) (F10) (G6) (C5) (B1) (B17) (C1) (A5) (E1) (A2) (F10) (G6) (C5) (B1) (B17) (C1) (A5) (E1) (A2) (F10) (G6) (C5) (B17) (B17) (C1) (A5) (E1) (A2) (E10) (G6) (C5) (B17) (B17) (C1) (A5) (E1) (A2) (E10) (G6) (C5) (B17) (C1) (A5) (E10) (A2) (E10) (A2) (E10) (E10) (A2) (E10) (A2)

(H9) (A6) (E3) (C4)

- A 1 A/C Condenser Fan Motor
- A 2 ABS & BA & TRAC & VSC Actuator
- A 3 ABS Speed Sensor Front LH
- A 4 ABS Speed Sensor Front RH
- A 5 Air Fuel Ratio Sensor (Bank 1 Sensor 1)
- A 6 Ambient Temp. Sensor
- B 1 Brake Fluid Level Warning SW
- B17 Brake Master Stroke Simulator Cylinder Assembly

(C7)

(H10)

- C 1 Camshaft Position Sensor
- C 2 Camshaft Timing Oil Control Valve
- C 3 Circuit Breaker Sensor
- C 4 Compressor Assembly (Motor) Inverter
- C 5 Converter
- C 6 Converter
- C 7 Crankshaft Position Sensor
- C19 Coolant Heat Storage Tank Outlet Temp. Sensor
- C20 Coolant Heat Storage Water Pump
- E 1 Engine Coolant Temp. Sensor
- E 3 Engine Hood Courtesy SW

F 1 Front Airbag Sensor LH

(F1)

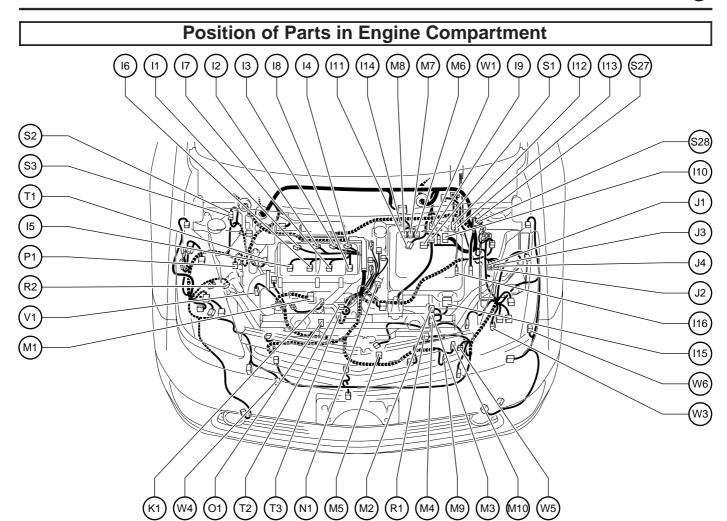
(F3)

(C19)

- F 2 Front Airbag Sensor RH
- F 3 Front Fog Light LH

(A1)

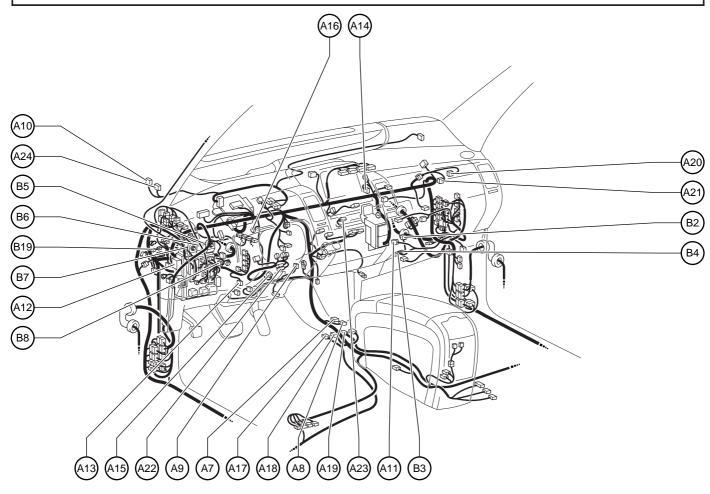
- F 4 Front Fog Light RH
- F 5 Front Side Marker Light LH
- F 6 Front Side Marker Light RH
- F 7 Front Turn Signal Light LH
- F 8 Front Turn Signal Light RH
- F 9 Front Washer Motor
- F10 Front Wiper Motor
- H 1 Headlight Beam Level Control Actuator LH
- H 2 Headlight Beam Level Control Actuator RH
- H 3 Headlight Assembly LH
- H 4 Headlight Assembly LH
- H 5 Headlight Assembly RH
- H 6 Headlight Assembly RH
- H 7 Headlight LH
- H 8 Headlight RH
- H 9 Horn (High)
- H10 Horn (Low)



- 1 Ignition Coil and Igniter No.1
- Ignition Coil and Igniter No.2
- Ignition Coil and Igniter No.3 3
- Ignition Coil and Igniter No.4
- Injector No.1
- 6 Injector No.2
- Injector No.3
- Injector No.4
- 9 Inverter
- I 10 Inverter
- I 11 Inverter
- I 12 Inverter
- I 13 Inverter
- I 14 Inverter
- I 15 Inverter
- I 16 Inverter
- 1 Junction Connector
- 2 Junction Connector
- 3 Junction Connector
- Junction Connector
- K 1 Knock Sensor (Bank 1)
- M 1 Mass Air Flow Meter
- M 2 Motor Generator No.1
- M 3 Motor Generator No.1
- M 4 Motor Generator No.1
- M 5 Motor Generator No.1
- M 6 Motor Generator No.2 M 7 Motor Generator No.2

- M 8 Motor Generator No.2 M 9 Motor Generator No.2
- M10 Motor Generator No.2
- N 1 Noise Filter (Ignition)
- O 1 Oil Pressure SW
- 1 Pressure SW
- R 1 Radiator Fan Motor
- R 2 Rear Washer Motor
- 1 Shift Control Actuator
- S 2 Short Connector
- S 3 Short Connector
- S27 Short Connector (Water Pump)
- S28 Short Connector (Water Pump)
- Theft Deterrent Horn
- Throttle Control Motor
- T 3 Throttle Position Sensor
- V 1 VSV (Purge)
- W 1 Water Pump Motor (A/C)
- W 3 Water Pump Motor (Inverter)
- W 4 Water Temp. SW
- W 5 Water Valve
- W 6 Wireless Door Lock Buzzer

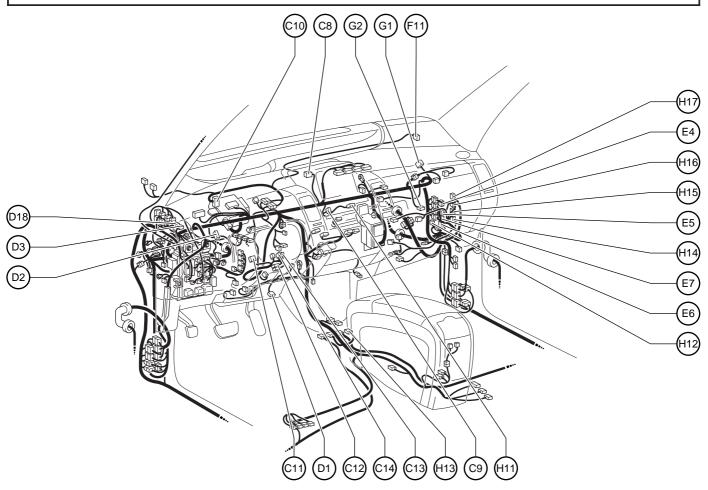
Position of Parts in Instrument Panel



- A 7 A/C Control Assembly
- A 8 A/C Control Assembly
- A 9 A/C Room Temp. Sensor
- A10 A/C Solar Sensor
- A 11 A/C Thermistor
- A12 ACC Relay
- A13 Accel Position Sensor
- A14 Air Inlet Control Servo Motor
- A15 Air Mix Control Servo Motor
- A16 Air Vent Mode Control Servo Motor
- A17 Airbag Sensor Assembly
- A18 Airbag Sensor Assembly
- A19 Airbag Sensor Assembly
- A20 Airbag Squib (Front Passenger Airbag Assembly)
- A21 Airbag Squib (Front Passenger Airbag Assembly)
- A22 Airbag Squib (Steering Wheel Pad)
- A23 Antenna Amplifier
- A24 Automatic Light Control Sensor

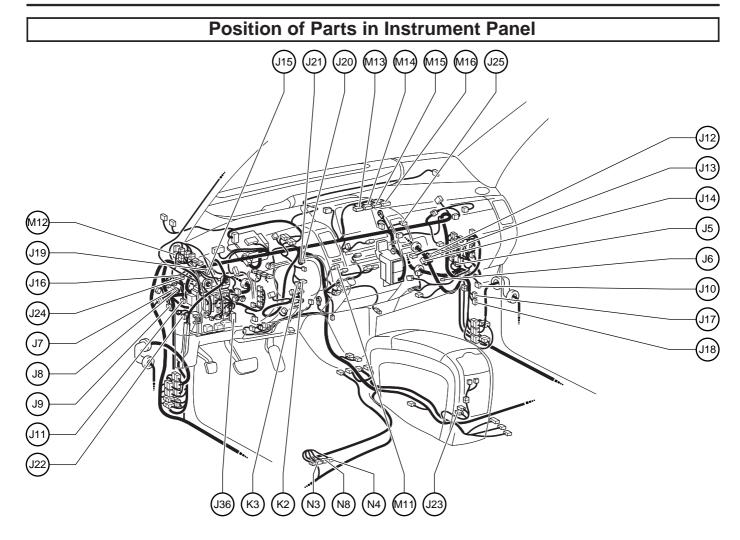
- B 2 Blower Motor
- B 3 Blower Motor Controller
- B 4 Blower Motor Controller
- B 5 Body ECU
- B 6 Body ECU
- B 7 Body ECU
- B 8 Brake Pedal Stroke Sensor
- B19 Brake Actuator Resistor

Position of Parts in Instrument Panel



- C 8 Center Speaker
- C 9 Clock
- C10 Combination Meter
- C11 Combination SW
- C12 Combination SW
- C13 Combination SW
- C14 Combination SW
- D 1 Data Link Connector 3
- D 2 Daytime Running Light Relay
- D 3 Diode (Daytime Running Light)
- D18 Diode (Rear Wiper)
- E 4 Engine Control Module
- E 5 Engine Control Module
- E 6 Engine Control Module
- E 7 Engine Control Module

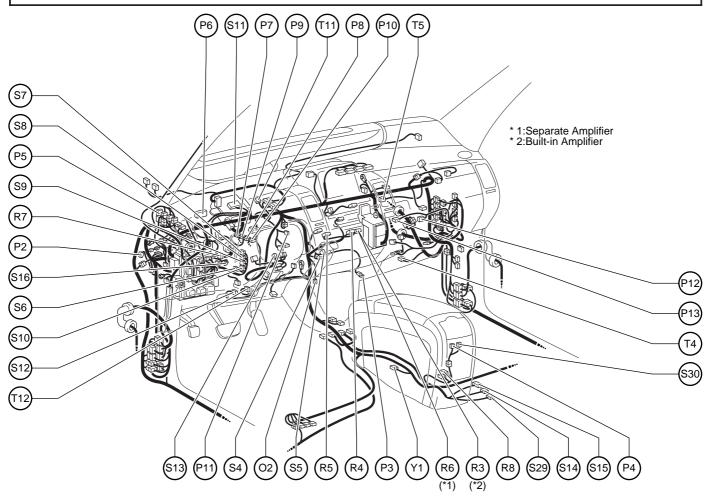
- F 11 Front Passenger Seat Belt Warning Light
- G 1 Gateway ECU
- G 2 Glove Box Light
- H11 Hazard SW
 - ODO/TRIP SW
- H12 Headlight Beam Level Control ECU
- H13 Heated Oxygen Sensor (Bank 1 Sensor 2)
- H14 Hybrid Vehicle Control ECU
- H15 Hybrid Vehicle Control ECU
- H16 Hybrid Vehicle Control ECU
- H17 Hybrid Vehicle Control ECU



- J 5 Junction Connector
- J 6 Junction Connector
- J 7 Junction Connector
- J 8 Junction Connector
- J 9 Junction Connector J 10 Junction Connector
- J 11 Junction Connector
- J 12 Junction Connector
- J 13 Junction Connector
- J 14 Junction Connector
- J 15 Junction Connector
- J 16 Junction Connector
- J 17 Junction Connector
- J 18 Junction Connector
- J 19 Junction Connector
- J 20 Junction Connector
- J 21 Junction Connector
- J 22 Junction Connector
- J 23 Junction Connector
- J 24 Junction Connector
- J 25 Junction Connector J 36 Junction Connector

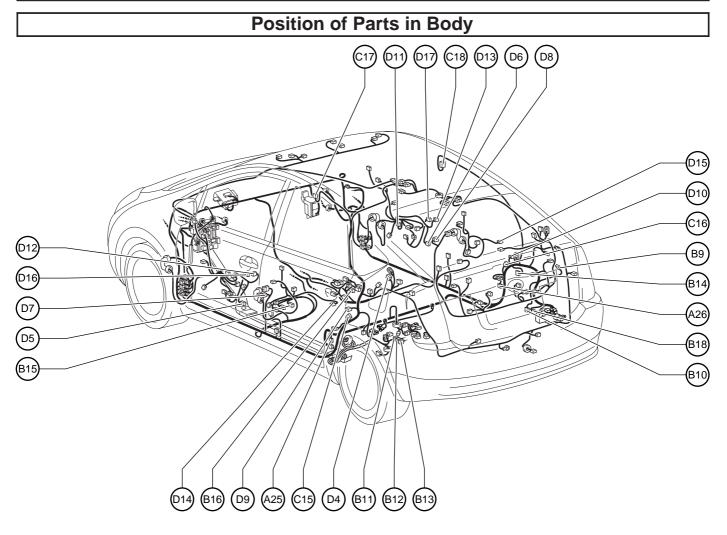
- K 2 Key Slot
- K 3 Key Slot
- M11 Main SW
- M12 Mirror Heater Relay
- M13 Multi-Display
- M14 Multi-Display
- M15 Multi-Display
- M16 Multi-Display
- N 3 Navigation ECU
- N 4 Navigation ECU
- N 8 Navigation ECU

Position of Parts in Instrument Panel



- O 2 Option Connector (Glass Breakage Sensor)
- P 2 Parking Brake SW
- P 3 Power Outlet No.1
- P 4 Power Outlet No.2
- P 5 Power Outlet Relay
- P 6 Power Source Control ECU
- P 7 Power Steering ECU
- P 8 Power Steering ECU
- P 9 Power Steering ECU
 - Power Steering Motor
- P10 Power Steering ECU Power Steering Torque Sensor
- P11 Power SW
- P12 PTC Heater
- P13 PTC Heater
- R 3 Radio and Player
- R 4 Radio and Player
- R 5 Radio and Player
- R 6 Radio and Player
- R 7 Rheostat
- R 8 Room Oscillator

- S 4 Shift Lever Position Sensor
- S 5 Shift Lever Position Sensor
- S 6 Skid Control Buzzer
- S 7 Skid Control ECU
- S 8 Skid Control ECU
- S 9 Skid Control ECU
- S10 Skid Control ECU
- S 11 Certification ECU
- S12 Smart Key System Cancel SW
- S13 Steering Sensor
- S14 Stereo Component Amplifier
- S15 Stereo Component Amplifier
- S16 Stop Light SW
- S29 Stereo Component Amplifier
- S30 Stereo Jack Adapter
- T 4 Transmission Control ECU
- T 5 ID Code Box
- T 11 Tire Pressure Warning ECU
- T12 Tire Pressure Warning Reset SW
- Y 1 Yaw Rate Sensor



- A25 ABS Speed Sensor Rear LH
- A26 ABS Speed Sensor Rear RH
- B 9 Battery Blower Motor
- **B10** Battery Blower Motor Controller
- B 11 Battery ECU
- B12 Battery ECU
- Hybrid Vehicle Battery
- B13 Battery ECU Hybrid Vehicle Battery
- B14 Battery Fan Relay
- B15 Buckle SW Front LH
- B16 Buckle SW Front RH
- **B18 Brake Control Power Supply**
- C15 Curtain Shield Airbag Sensor LH
- C16 Curtain Shield Airbag Sensor RH
- C17 Curtain Shield Airbag Squib LH
- C18 Curtain Shield Airbag Squib RH

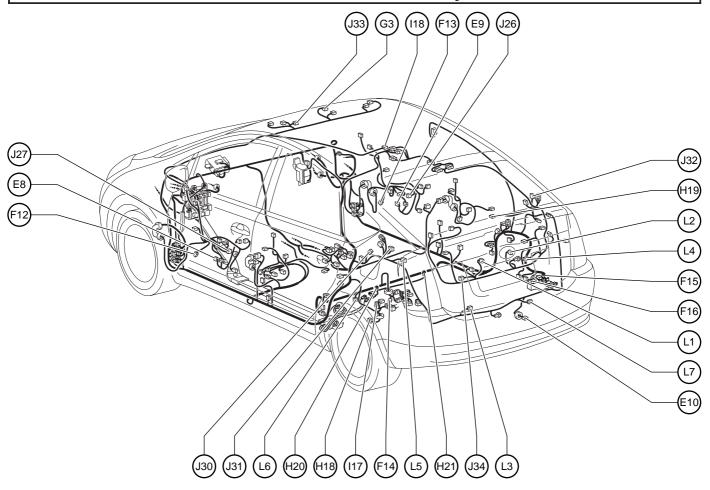
- D 4 Door Control Receiver
- D 5 Door Courtesy Light Front LH
- D 6 Door Courtesy Light Front RH
- D 7 Door Courtesy SW Front LH
- D 8 Door Courtesy SW Front RH
- D 9 Door Courtesy SW Rear LH
- D10 Door Courtesy SW Rear RH
- D11 Door Lock Control SW Front RH
- D12 Door Lock Motor Front LH

 Door Unlock Detection SW Front LH
- D13 Door Lock Motor Front RH

 Door Unlock Detection SW Front RH
- D14 Door Lock Motor Rear LH

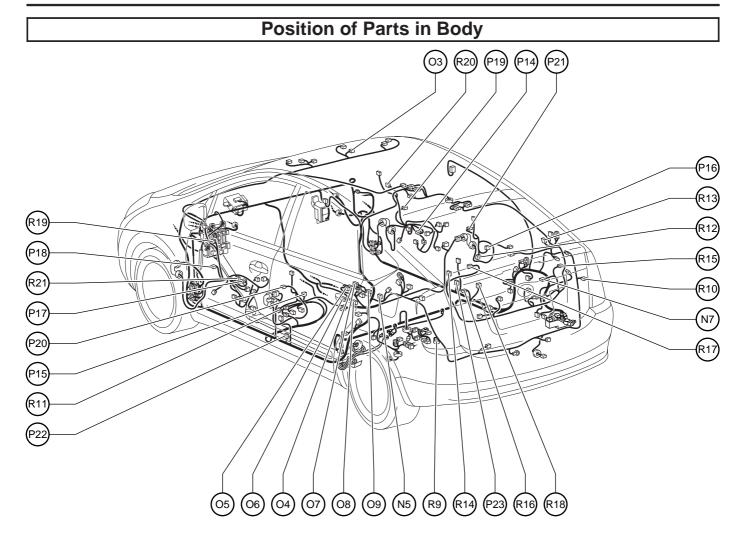
 Door Unlock Detection SW Rear LH
- D15 Door Lock Motor Rear RH
 - Door Unlock Detection SW Rear RH
- D16 Door Oscillator Front LH (w/ Sensor)
- D17 Door Oscillator Front RH (w/ Sensor)

Position of Parts in Body



- E 8 Electrical Key Antenna (Driver's Side)
- E 9 Electrical Key Antenna (Front Passenger's Side)
- E10 Electrical Key Antenna (Luggage Compartment Door)
- F12 Front Door Speaker LH
- F13 Front Door Speaker RH
- F14 Fuel Pump Fuel Sender
- F15 Fusible Link Block
- F16 Fusible Link Block
- G 3 Garage Door Opener Inner Mirror
- H18 Height Control Sensor
- H19 High Mounted Stop Light
- H20 Hybrid Vehicle Battery
- H21 Hybrid Vehicle Battery
- I 17 Inter Lock SW
- I 18 Interior Light

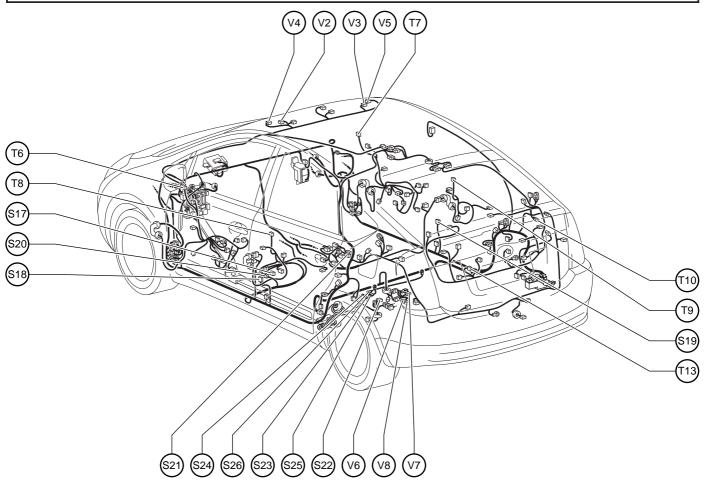
- J 26 Junction Connector
- J 27 Junction Connector
- J 30 Junction Connector
- J 31 Junction Connector
- J 32 Junction Connector
- J 33 Junction Connector
- J 34 Junction Connector
- L 1 License Plate Light LH
- L 2 License Plate Light RH
- L 3 Luggage Compartment Courtesy SW Luggage Compartment Door Opener Motor
- L 4 Luggage Compartment Door Lock SW Luggage Compartment Door Opener SW
- L 5 Luggage Compartment Light
- L 6 Luggage Oscillator (Inner)
- L 7 Luggage Oscillator (Outer)



- N 5 Noise Filter (High Mounted Stop Light)
- N 7 Noise Filter (Rear Window Defogger)
- O 3 Overhead J/B
- O 4 Occupant Classification ECU
- O 5 Occupant Classification ECU
- O 6 Occupant Classification Sensor Front LH
- O 7 Occupant Classification Sensor Front RH
- O 8 Occupant Classification Sensor Rear LH
- O 9 Occupant Classification Sensor Rear RH
- P14 Power Window Control SW Front RH
- P15 Power Window Control SW Rear LH
- P16 Power Window Control SW Rear RH
- P17 Power Window Master SW
- P18 Power Window Motor Front LH
- P19 Power Window Motor Front RH
- P20 Power Window Motor Rear LH
- P21 Power Window Motor Rear RH
- P22 Pretensioner LH
- P23 Pretensioner RH

- R 9 Rear Combination Light LH
- R10 Rear Combination Light RH
- R11 Rear Door Speaker LH
- R12 Rear Door Speaker RH
- R13 Rear Window Defogger
- R14 Rear Window Defogger
- R15 Rear Window Defogger
- R16 Rear Window Defogger
- R17 Rear Wiper Motor
- R18 Rear Wiper Relay
- R19 Mirror Heater LH Remote Control Mirror LH
- R20 Mirror Heater RH
 - Remote Control Mirror RH
- R21 Remote Control Mirror SW

Position of Parts in Body

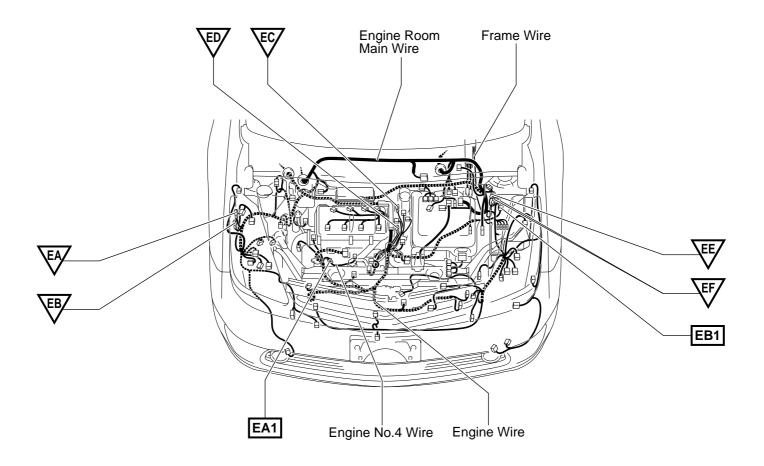


- S17 Seat Position Airbag Sensor
- S18 Side Airbag Sensor LH
- S19 Side Airbag Sensor RH
- S20 Side Airbag Squib LH
- S21 Side Airbag Squib RH
- S22 System Main Relay
- S23 System Main Relay
- S24 System Main Relay
- S25 System Main Relay
- S26 System Main Relay
- T 6 Tweeter Front LH
- T 7 Tweeter Front RH
- T 8 Tweeter Rear LH
- T 9 Tweeter Rear RH
- T10 Tire Pressure Warning Antenna and Receiver
- T 13 Television Camera

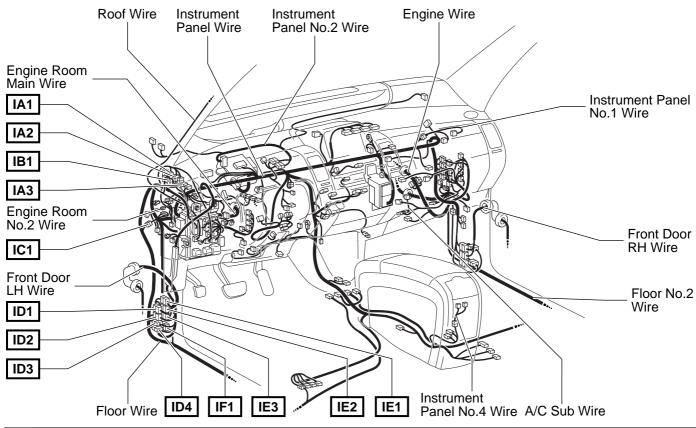
- V 2 Vanity Light LH
- V 3 Vanity Light RH
- V 4 Vanity Light SW LH
- V 5 Vanity Light SW RH
- V 6 Vapor Pressure Sensor
- V 7 Canister Pump Module
- V 8 VSV (Fuel Vapor-Containment Valve)

☐: Location of Connector Joining Wire Harness and Wire Harness

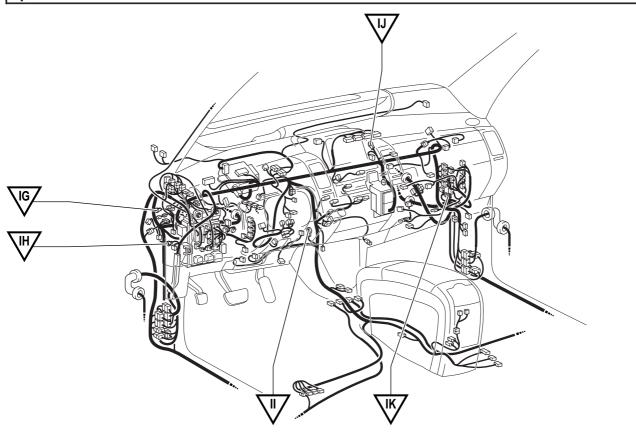
7: Location of Ground Points



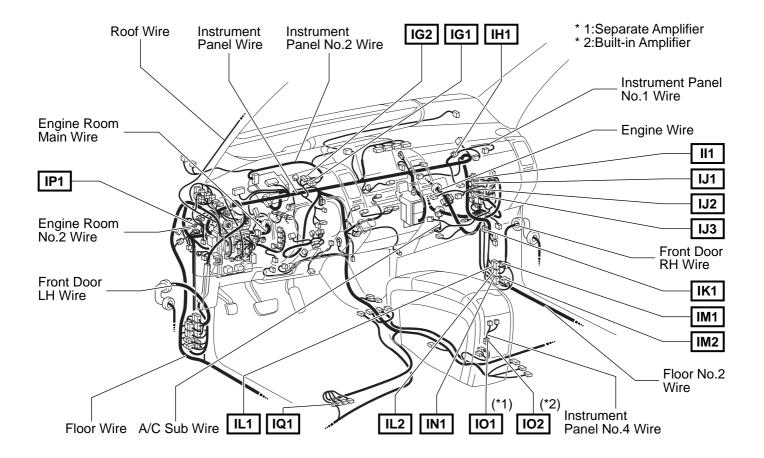
☐ : Location of Connector Joining Wire Harness and Wire Harness



abla : Location of Ground Points

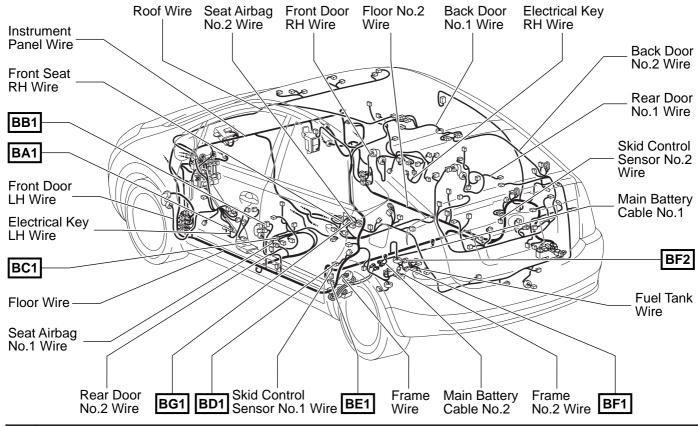


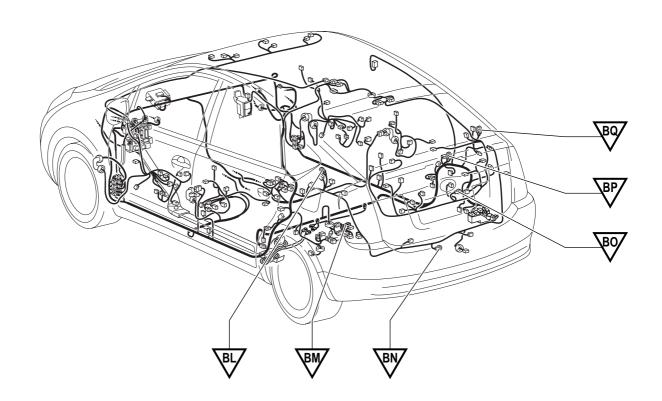
☐ : Location of Connector Joining Wire Harness and Wire Harness



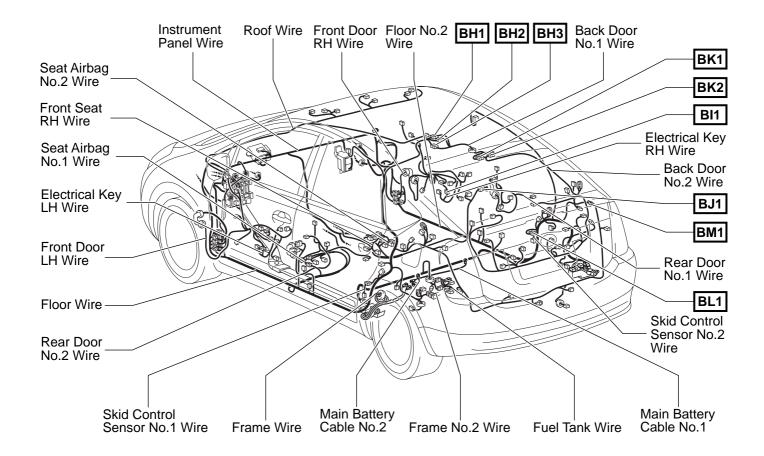
G ELECTRICAL WIRING ROUTING

☐ : Location of Connector Joining Wire Harness and Wire Harness





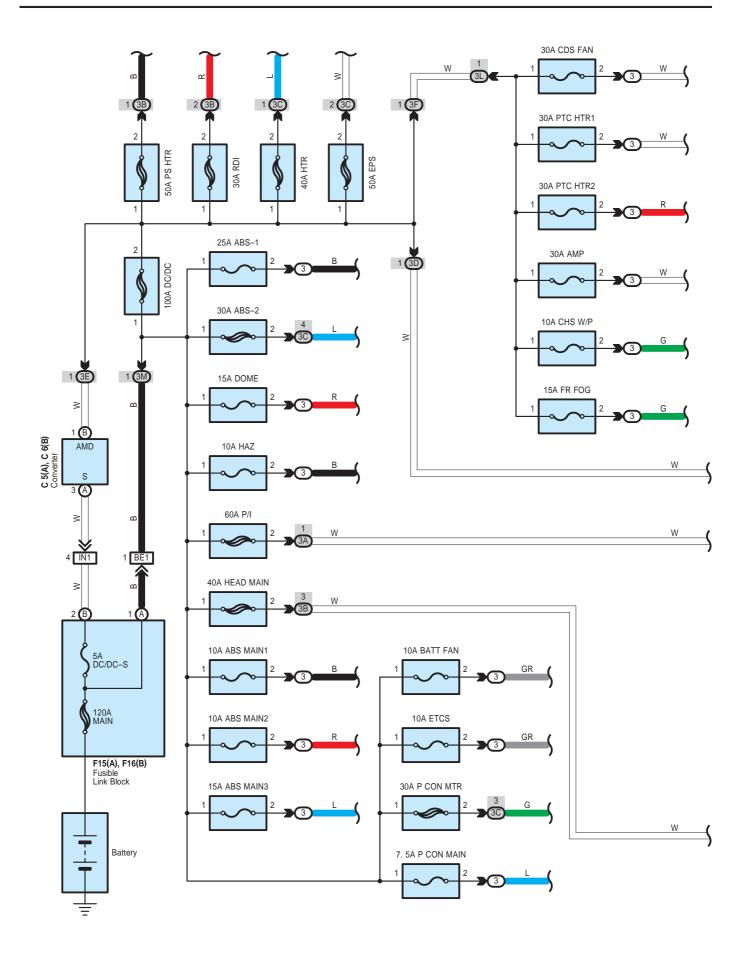
☐ : Location of Connector Joining Wire Harness and Wire Harness

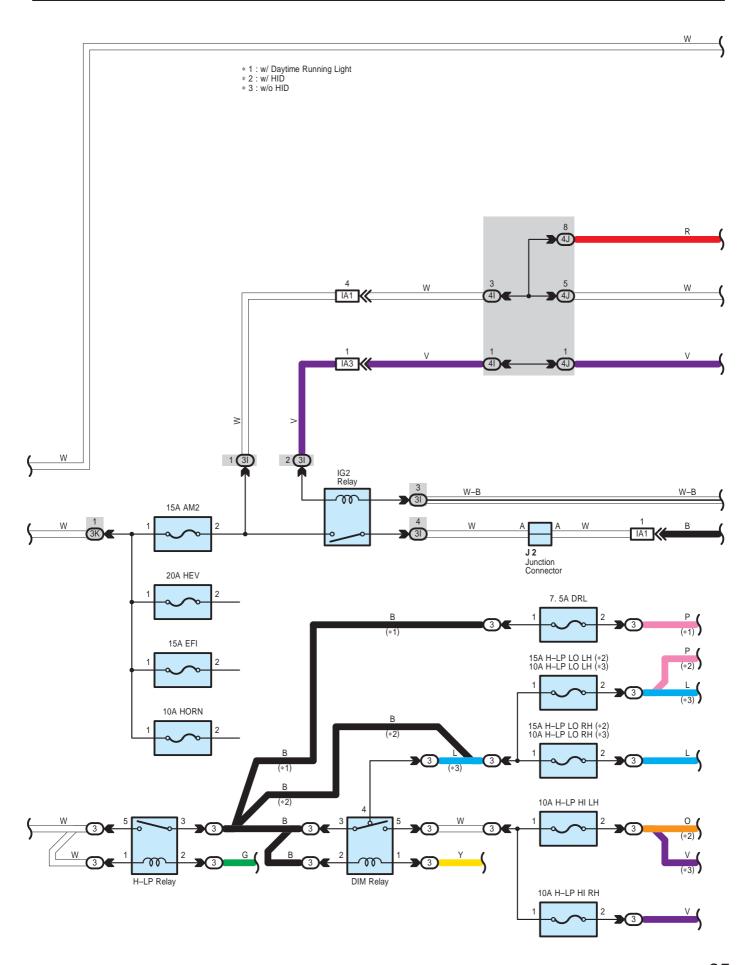


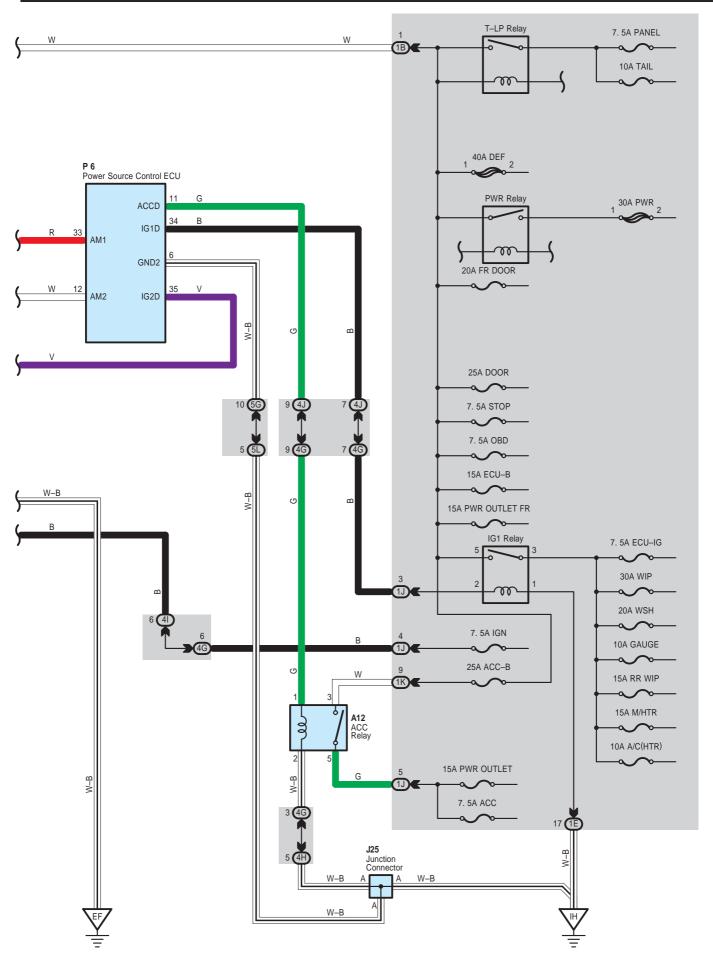
2006 PRIUS ELECTRICAL WIRING DIAGRAM SYSTEM CIRCUITS

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Audio System (Built-in Amplifier)	332
Audio System (Separate Amplifier)	322
Automatic Glare-Resistant EC Mirror	318
Automatic Light Control	156
Back-Up Light	182
Clock	308
Combination Meter	340
Cruise Control	260
Door Lock Control	200
Engine Control	128
EPS	274
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Front Wiper and Washer	192
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Horn	306
Hybrid Vehicle Immobiliser System	80
Ignition	124
Illumination	174
Interior Light	166
Key Reminder	186
Light Auto Turn Off System	160
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TRAC	280
Turn Signal and Hazard Warning Light	162
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Wireless Door Lock Control (w/o Smart Key System)	224







O : Parts Location

Code		See Page	Со	de	See Page	Code	See Page
P	12	48	F15	Α	28, 53	J25	50
C5	Α	46	F16	В	28, 53	P6	51
C6	В	46	J:		47		

: Relay Blocks

Code See Page Relay Blocks (Relay Block Location)		See Page	Relay Blocks (Relay Block Location)
Ī	3	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)					
1B	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)					
1E	- 30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)					
1J	730						
1K	31						
3A							
3B							
3C	23						
3D]23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)					
3E	- 24						
3F							
31							
3K							
3L	22						
3M	23	Frame Wire and Engine Room J/B (Engine Compartment Left)					
4G							
4H	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)					
41		Instrument Panel Wire and Center Connector No.1 (Benind the Combination Meter)					
4J							
5G	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)					
5L	7 42						

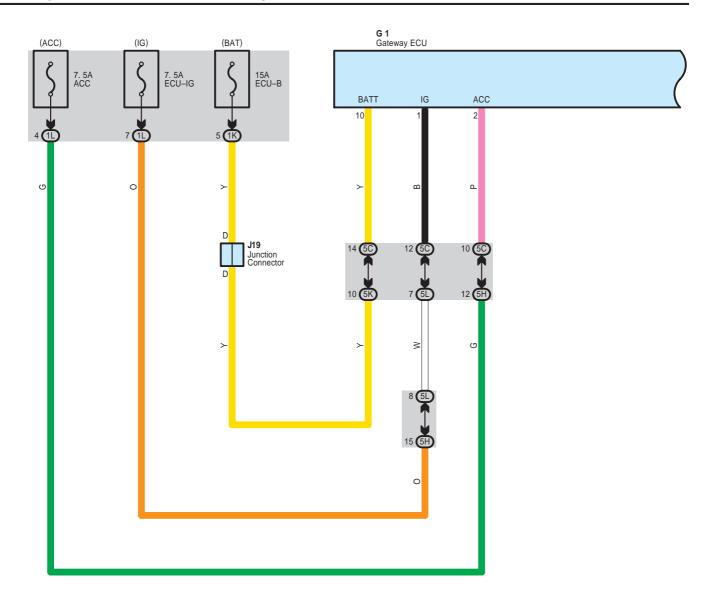
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)
IA3	30	
IN1	59	Floor No.2 Wire and Engine Room Main Wire (Right Kick Panel)
BE1	60	Frame Wire and Floor No.2 Wire (Front Side of Left Quarter Panel)

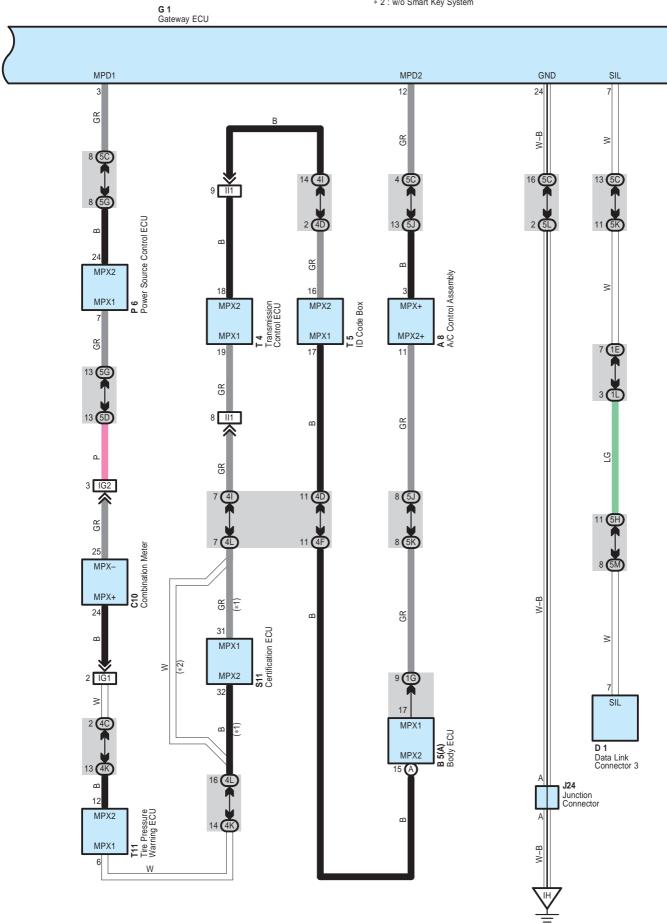
: Ground Points

Code See Page Ground Points Location		Ground Points Location
EF 56 Left Side of the Suspensi		Left Side of the Suspension Tower
IH	58	Cowl Side Panel LH

Multiplex Communication System – BEAN Bus







Multiplex Communication System - BEAN Bus

System Outline

BEAN consists of body electrical systems such as body ECU, A/C control assembly, power source control ECU, combination meter, tire pressure warning ECU, certification ECU*, transmission control ECU, ID code box and gateway ECU. Gateway ECU has communication circuit to correspond with different types of communication data. Different types of communication data can be shared among communication parts after it goes through gateway ECU. Vehicle information is input to body ECU at an assembling plant as a representative ECU which delivers the information to other ECUs through multiplex communication.

* Optional equipment

This system is working for the following systems:

- * ABS
- * Air Conditioning
- * Audio System
- * Combination Meter
- * Cruise Control
- * Engine Control
- * EPS
- * Headlight
- * Hybrid Vehicle Immobiliser System
- * Illumination
- * Interior Light
- * Key Reminder
- * Luggage Compartment Door Opener
- * Mirror Heater
- * Multi-Display
- * Push Button Start System
- * Rear Window Defogger
- * Shift Control System
- * Smart Key System
- * Taillight
- * Tire Pressure Warning System
- * TOYOTA Hybrid System
- * TRAC
- * VSC

: Parts Location

Code		See Page	Code	See Page	Code	See Page
A8 48		48	G1	49	S11	51
B5	Α	48	J19	50	T4	51
C10		49	J24	50	T5	51
D1		49	P6	51	T11	51



: Junction Block and Wire Harness Connector

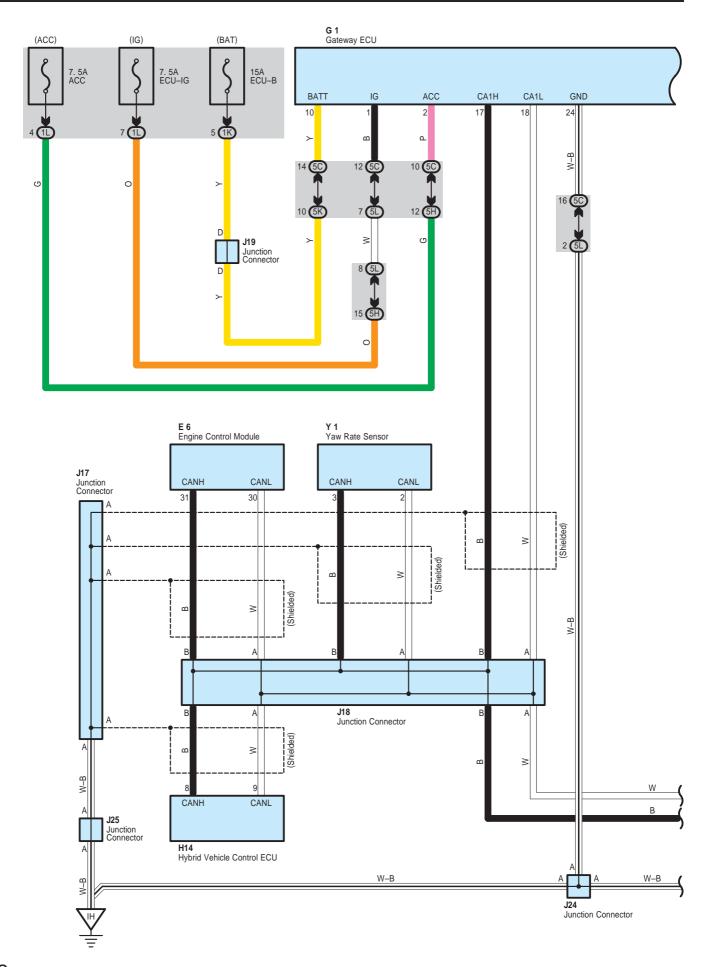
Code	See Page	Junction Block and Wire Harness (Connector Location)				
1E	30					
1G	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)				
1K	31					
1L	01					
4C						
4D		Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)				
4F	38					
41						
4K						
4L						
5C						
5D						
5G						
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)				
5J		modernional and some some comment and brace and				
5K						
5L						
5M						

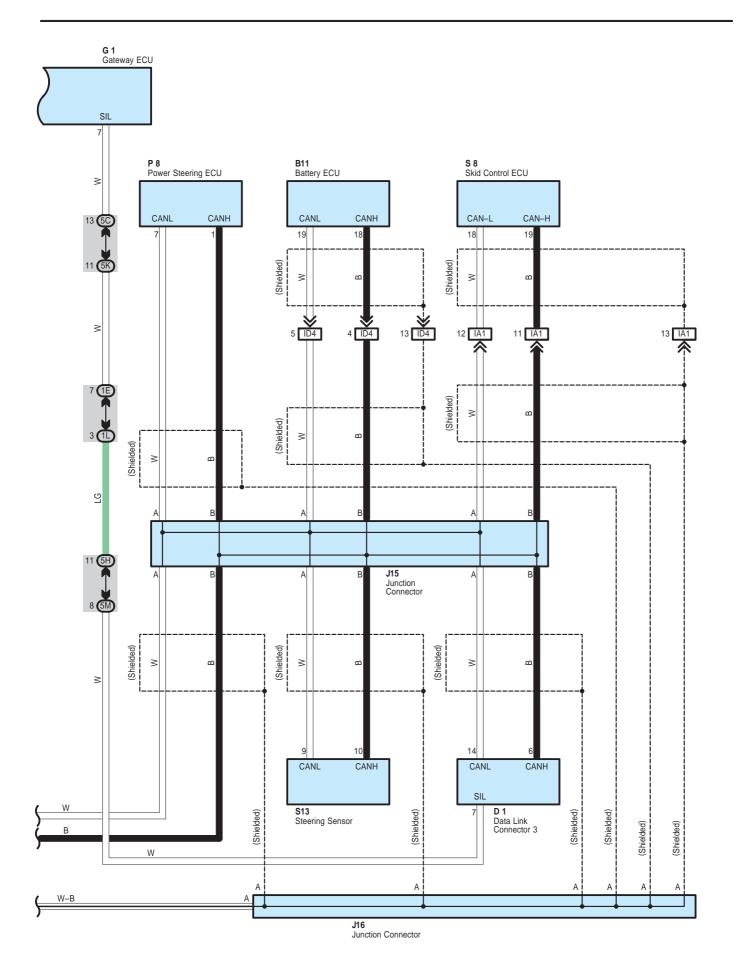
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG1	59	rument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)
IG2	1 39	Instrument Paner whe and instrument Paner No.2 whe (Behind the Combination Meter)
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

: Ground Points

	Code	See Page	Ground Points Location
ſ	IH	58	Cowl Side Panel LH





Multiplex Communication System - CAN Bus

System Outline

CAN has two lines as a pair which make communication with operating voltage. CAN has excellent data speed and error detecting capacity. It consists of vehicle control systems such as hybrid vehicle control ECU, engine control module, yaw rate sensor, battery ECU, power steering ECU, skid control ECU, steering sensor, data link connector 3 and gateway ECU. Gateway ECU has communication circuit to correspond with different types of communication data. Different types of communication data can be shared among communication parts after it goes through gateway ECU.

This system is working for the following systems:

- * ABS
- * Air Conditioning
- * Audio System
- * Back-Up Light
- * Combination Meter
- * Cruise Control
- * Engine Control
- * EPS
- * Headlight
- * Hybrid Vehicle Immobiliser System
- * Multi-Display
- * Push Button Start System
- * Shift Control System
- * Smart Key System
- * Theft Deterrent
- * TOYOTA Hybrid System
- * TRAC
- * VSC

: Parts Location

Code	See Page	Code	See Page	Code	See Page
B11	52	J16	50	P8	51
D1	49	J17	50	S8	51
E6	49	J18	50	S13	51
G1	49	J19	50	Y1	51
H14	49	J24	50		
J15	50	J25	50		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	30	
1K	31	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L	31	
5C		
5H	42	
5K		Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)
5L		
5M		

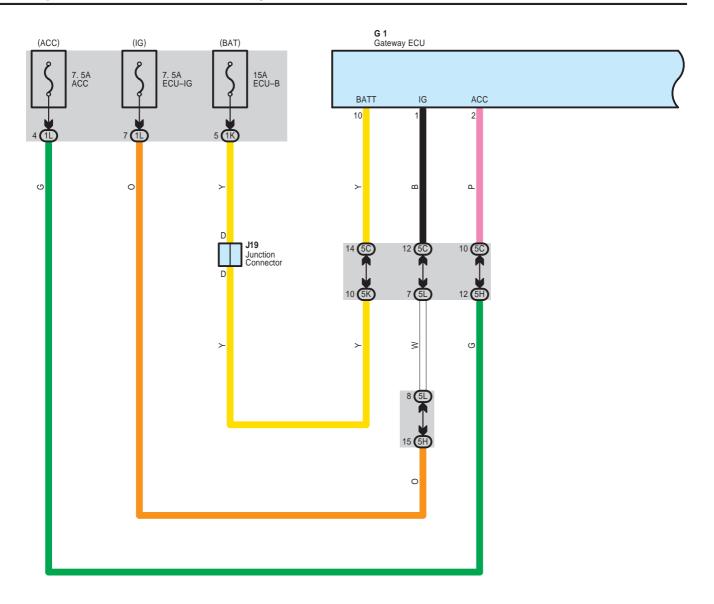
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)
ID4	58	Instrument Panel Wire and Floor Wire (Left Kick Panel)

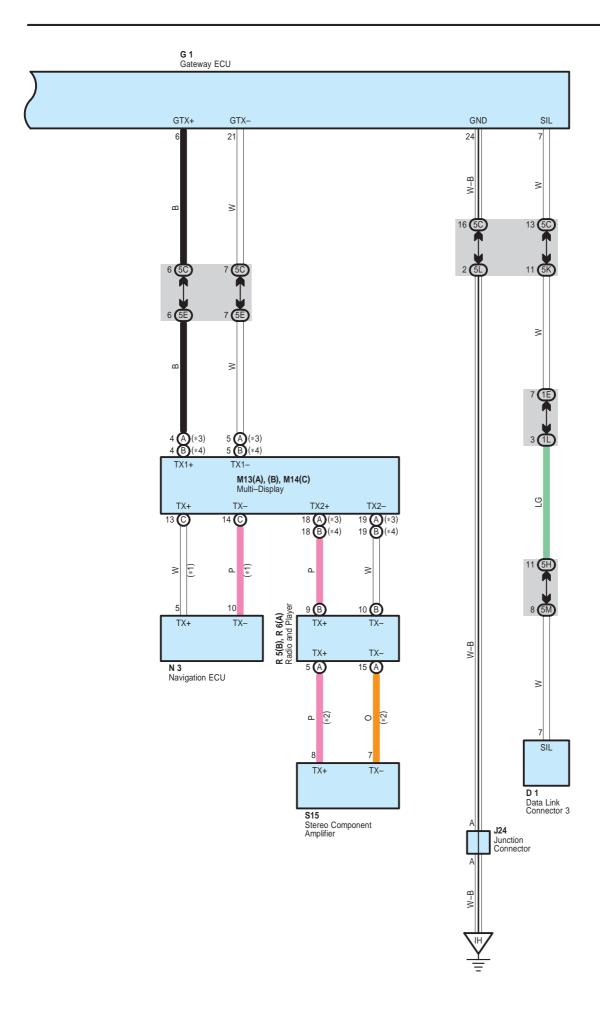
$7 : \mathsf{Ground}\,\mathsf{Points}$

	Code	See Page	Ground Points Location
I	IH	58	Cowl Side Panel LH

Multiplex Communication System – AVC-LAN Bus



- * 1 : w/ Navigation System * 2 : w/ Separate Amplifier * 3 : w/ Television Camera * 4 : w/o Television Camera



Multiplex Communication System – AVC–LAN Bus

System Outline

AVC-LAN consists of audio visual systems such as multi-display, navigation ECU*, radio and player, stereo component amplifier* and gateway ECU. Gateway ECU has communication circuit to correspond with different types of communication data. Different types of communication data can be shared among communication parts after it goes through gateway ECU.

* Optional equipment

This system is working for the following systems:

- * ABS
- * Air Conditioning
- * Audio System
- * Combination Meter
- * Engine Control
- * EPS
- * Hybrid Vehicle Immobiliser System
- * Mirror Heater
- * Multi-Display
- * Push Button Start System
- * Rear Wiper and Washer
- * Shift Control System
- * TOYOTA Hybrid System
- * TRAC
- * VSC

: Parts Location

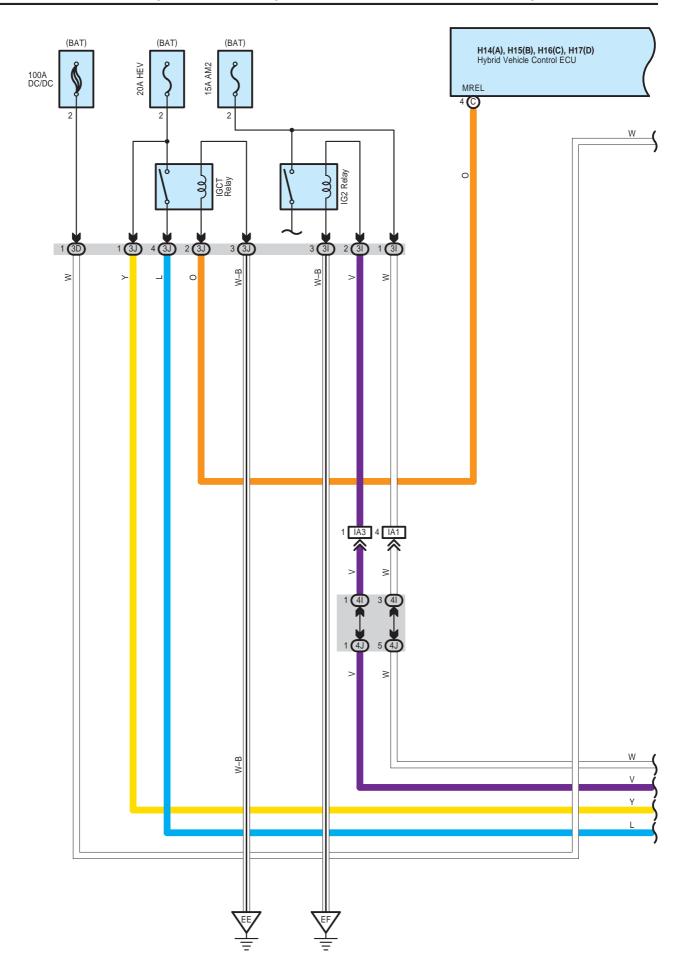
Code	See Page	Co	de	See Page	Co	de	See Page
D1	49	M13	Α	50	R5	В	51
G1	49	WITS	В	50	R6	Α	51
J19	50	M14	С	50	S	15	51
J24	50	N	3	50			

: Junction Block and Wire Harness Connector

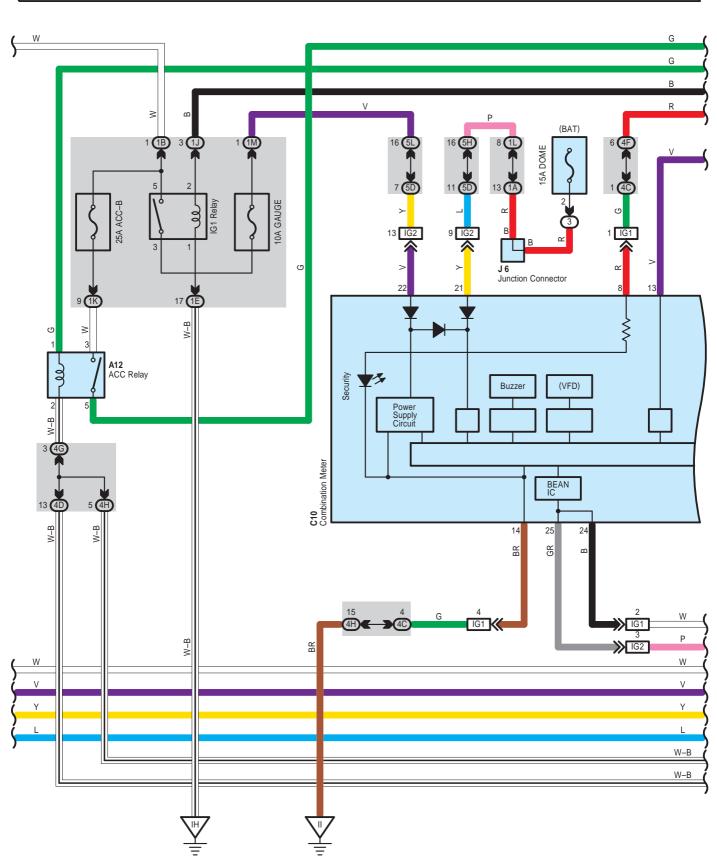
Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	30	
1K	31	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L	31	
5C		
5E		
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)
5K] 42	Institution ratio wife and Center Connector No.2 (institution ratio brace NT)
5L		
5M		

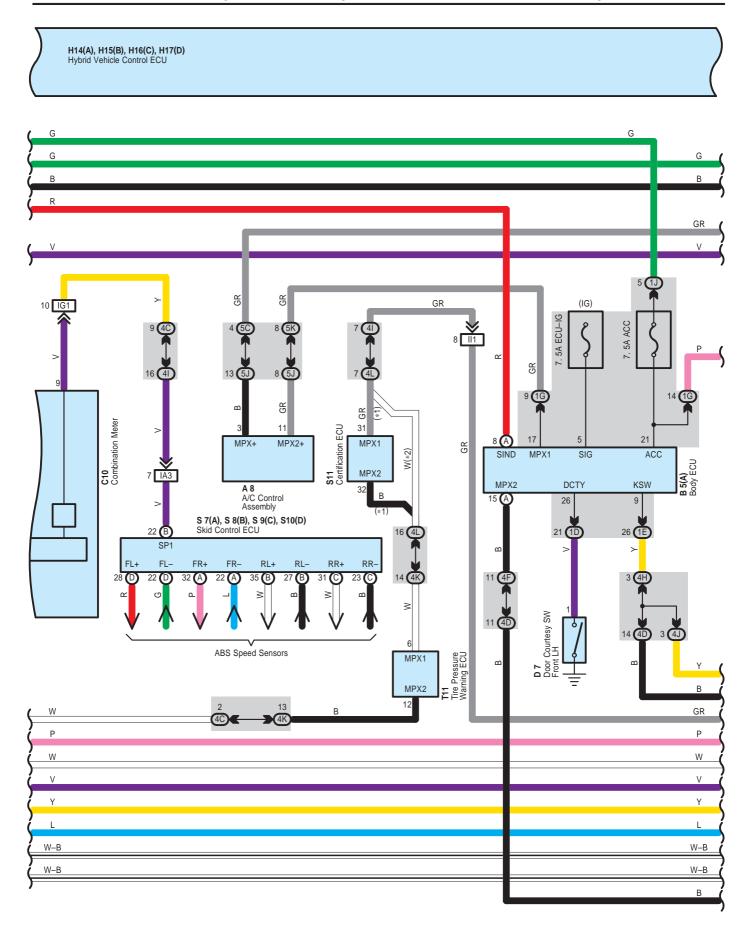
: Ground Points

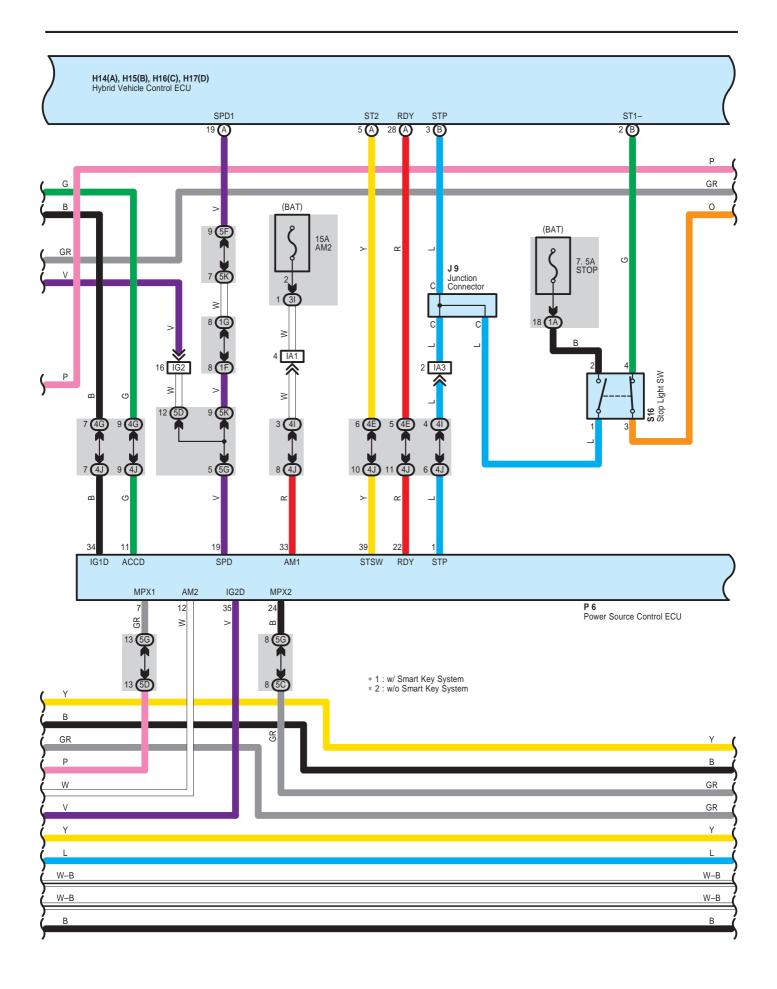
Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH

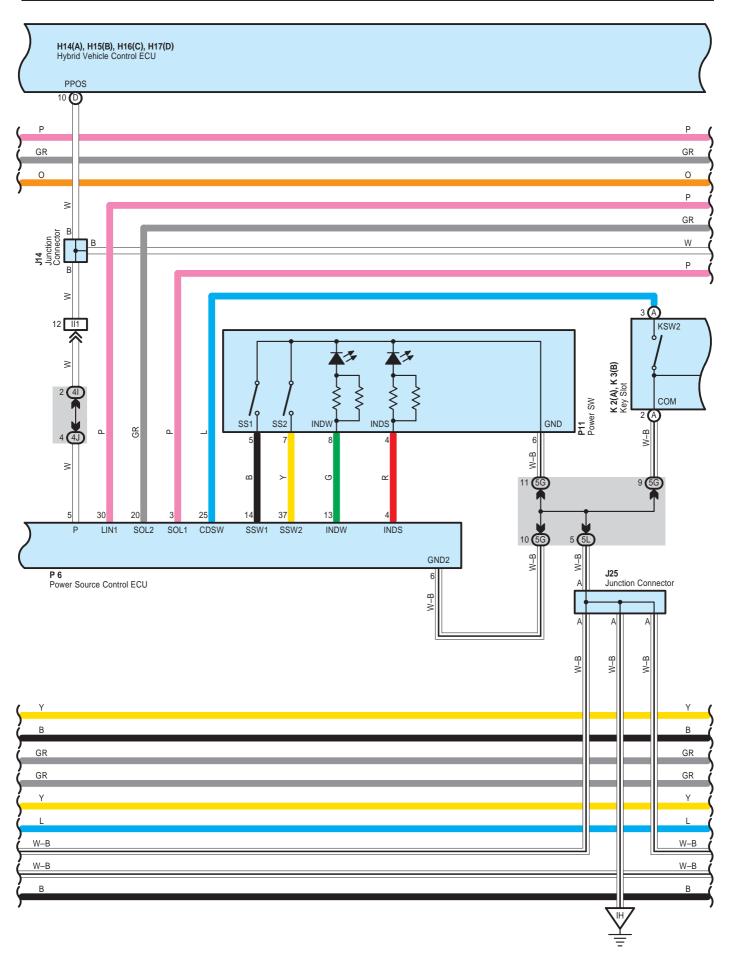


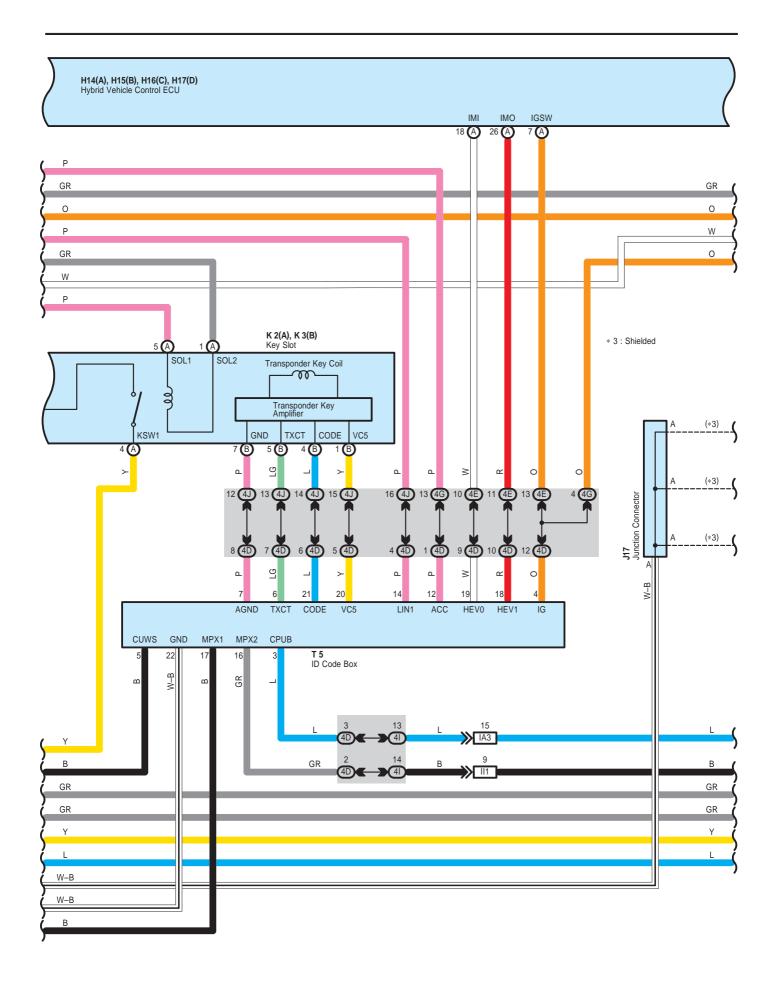
H14(A), H15(B), H16(C), H17(D)
Hybrid Vehicle Control ECU

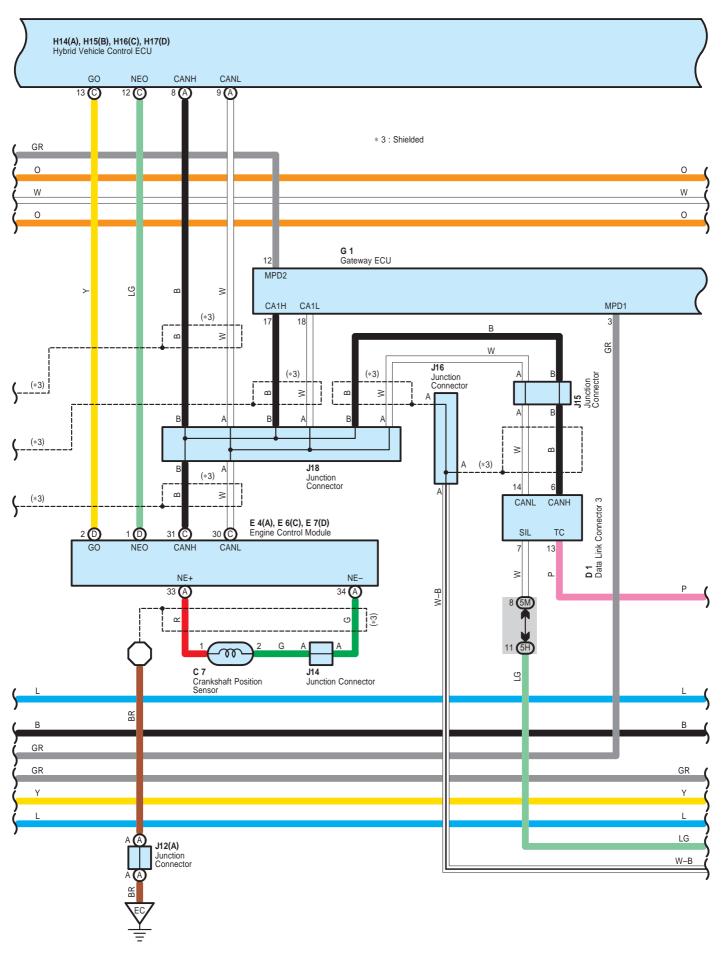


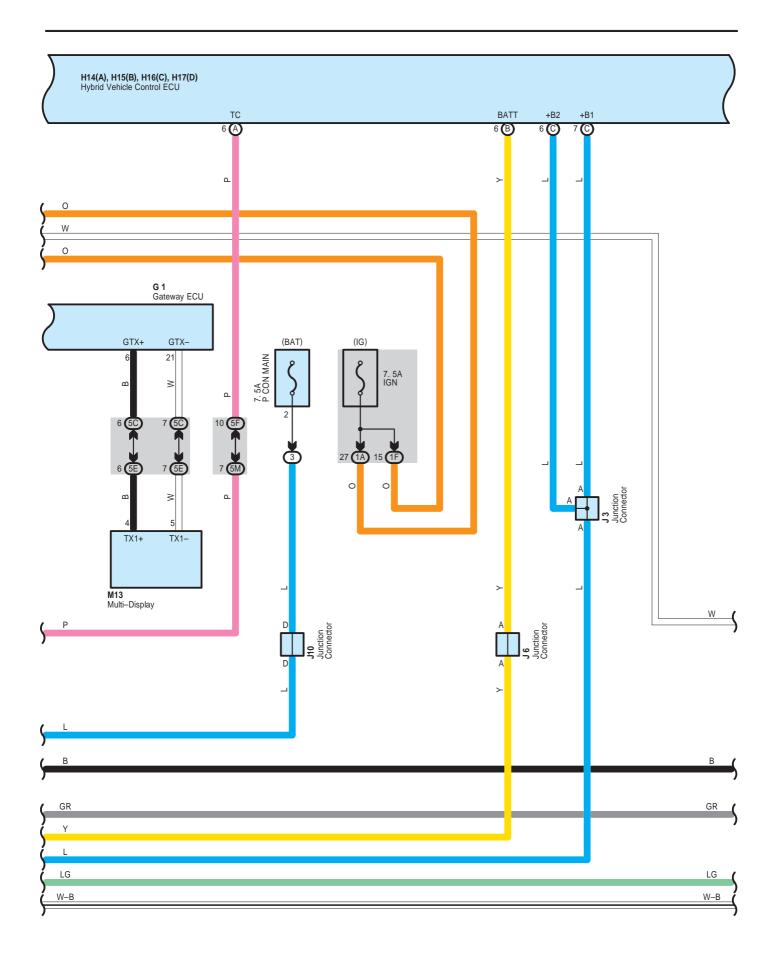


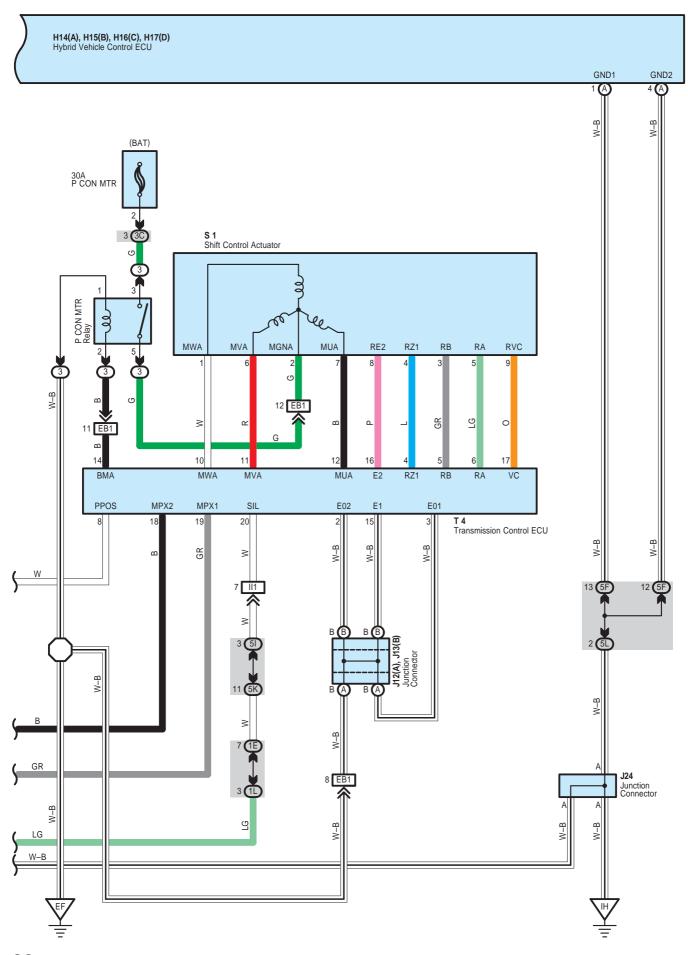












System Outline

This is the system to change power supply mode by pushing power SW and to start hybrid system by operating power SW and brake pedal simultaneously. It also has function to hold the electrical key in the key slot and not to release the key from it unless the power supply condition and shift range position are met. If there is abnormality in the system, amber portion of power SW blinks to warn the driver.

1. ACC ON Operation

When the electrical key turns on half-inserted SW and deep-inserted SW after inserting in the key slot, transponder key computer activates transponder key amplifier incorporated in key slot to identify ID. After the identification, if power SW is pushed without depressing brake pedal, power source control ECU starts. The ECU confirms that the brake pedal is not depressed from signal of stop light SW and also requests ID code box for ID identification result. If the ID identification is normal, power source control ECU turns on ACC relay and changes indicator of power SW to green lighting. In consequence, power supply is set to ACC ON condition.

2. IG ON Operation

If power SW is pushed without depressing brake pedal when ACC ON, power source control ECU confirms that the brake pedal is not depressed, and then turns on IG1 relay and IG2 relay as well as change indicator of power SW to amber lighting. Power supply is IG ON condition then.

3. Hybrid Start-Up Operation (READY)

When the electrical key turns on half-inserted SW and deep-inserted SW after inserting in the key slot, ID code box activates transponder key amplifier incorporated in key slot to identify ID. After the identification, if power SW is pushed with depressing brake pedal, power source control ECU starts. The ECU confirms that the brake pedal is depressed from signal of stop light SW and also requests ID code box for ID identification result. If the ID identification is normal, the ECU turns on ACC relay, IG1 relay and IG2 relay, and changes indicator of power SW to amber lighting. Power supply is IG ON condition then.

After that, power source control ECU sends start—up signal to hybrid vehicle control ECU. Hybrid vehicle control ECU and ID code box make communication for start—up permission. Hybrid vehicle control ECU controls to start—up hybrid system (READY).

At starting up hybrid system, power source control ECU controls to light off indicator of power SW.

4. Power Supply Off Operation

* When shift range is in P range

If power SW is pushed with power supply at READY condition while the vehicle is stationary, power source control ECU confirms that shift range is in P range, and then turns off ACC relay, IG1 relay and IG2 relay to put power supply in OFF condition. The ECU also controls to light off indicator of power SW.

If power SW is pushed with power supply at IG ON condition and without depressing brake pedal while the vehicle is stationary, power source control ECU confirms that shift range is in P range, and then turns off ACC relay, IG1 relay and IG2 relay to put power supply in OFF condition. The ECU also controls to light off indicator of power SW.

If electrical key is taken off from key slot with power supply at ACC ON condition while the vehicle is stationary, power source control ECU controls to put power supply in OFF condition automatically, which lights off indicator of power SW.

* When shift range is in other than P range

If power SW is pushed with power supply at IG ON (Including READY) condition while the vehicle is stationary, parking lock operation is carried out. After that, power source control ECU confirms that shift range is in P range and then turns off ACC relay, IG1 relay and IG2 relay to put power supply in OFF condition. The ECU controls to light off indicator of power SW.

5. Key Interlock Operation

Power source control ECU controls to hold the electrical key in the key slot and not to release the key from it unless the power supply condition and shift range position are met. Power supply condition and shift range position during the key interlock in operation are as follows;

- * At starting-up hybrid system
- * At power supply at IG ON
- * At power supply at ACC ON and shift range at other than P range

6. Emergency Stop Operation of Hybrid System

If power SW is kept pushed more than three seconds during driving, hybrid system stops and power supply is changed to ACC ON.

7. Power Supply Resuming Control

Power source control ECU always stores power supply condition (OFF, ACC ON, IG ON)

When power supply is resumed after shutting off power supply by disconnecting battery terminal, original power supply condition returns due to control of power source control ECU.

O : Parts Location

Code		See Page	Co	de	See Page	Co	de	See Page
А	A8 48 J3 47		47	M13		50		
A12		48	J6		50	P6		51
B5	Α	48	J	9	50	P'	11	51
С	7	46	J1	10	50	S	1	47
C	10	49	J12	Α	50	S7	Α	51
D	1	49	J13	В	50	S8	В	51
D7		52	J14		50	S9	С	51
E4	Α	49	J1	15	50	S10	D	51
E6	С	49	J1	16	50	S11		51
E7	D	49	J1	17	50	S16		51
G	1	49	J18		50	Т	4	51
H14	А	49	J24		50	Т	5	51
H15	В	49	J25		50	T,	11	51
H16	С	49	K2	Α	50			
H17	D	49	K3	В	50			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

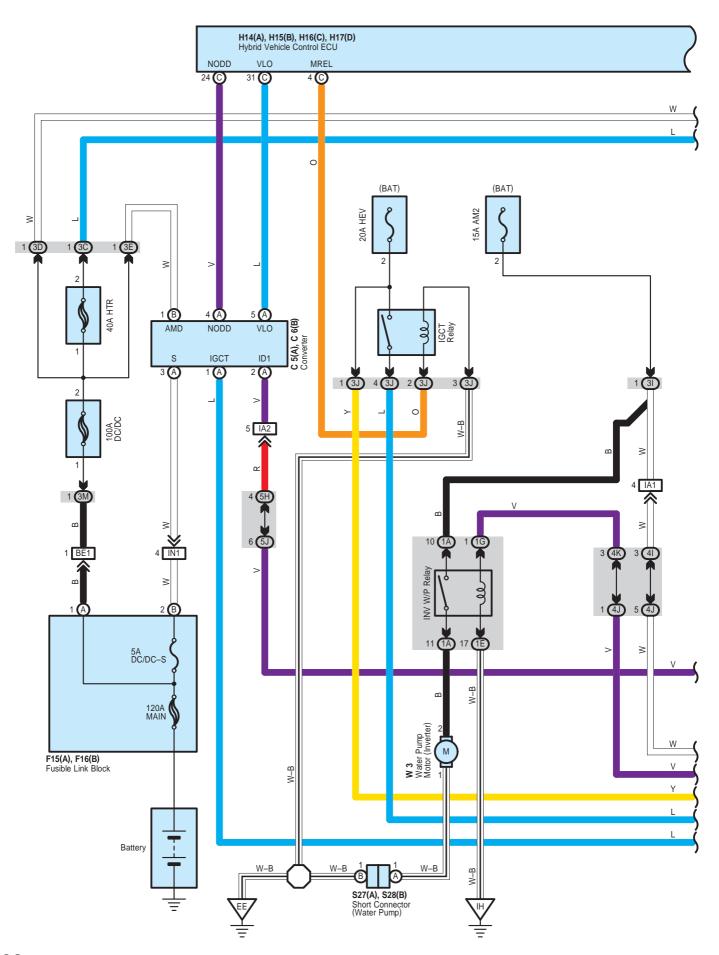
Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)				
1B						
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)				
1E						
1F	30					
1G						
1J		Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)				
1K						
1L	31					
1M						
3C	23					
3D	20	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)				
31	24	Engine Room wain wire and Engine Room 3/6 (Engine Compartment Lett)				
3J	27					
4C						
4D	- 38					
4E						
4F		Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)				
4G						
4H						
41						
4J						
4K						
4L						
5C						
5D						
5E						
5F	42					
5G						
5H		Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)				
51						
5J						
5K						
5L						
5M						

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)		
EB1	56	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)		
IA1	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)		
IA3	30	Lingine Room Main Wire and instrument Faner Wire (Opper Fans or Front Body Finar Lin)		
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)		
IG2	39	Institution trailer wire and institution railer No.2 wire (Define the Combination Meter)		
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)		

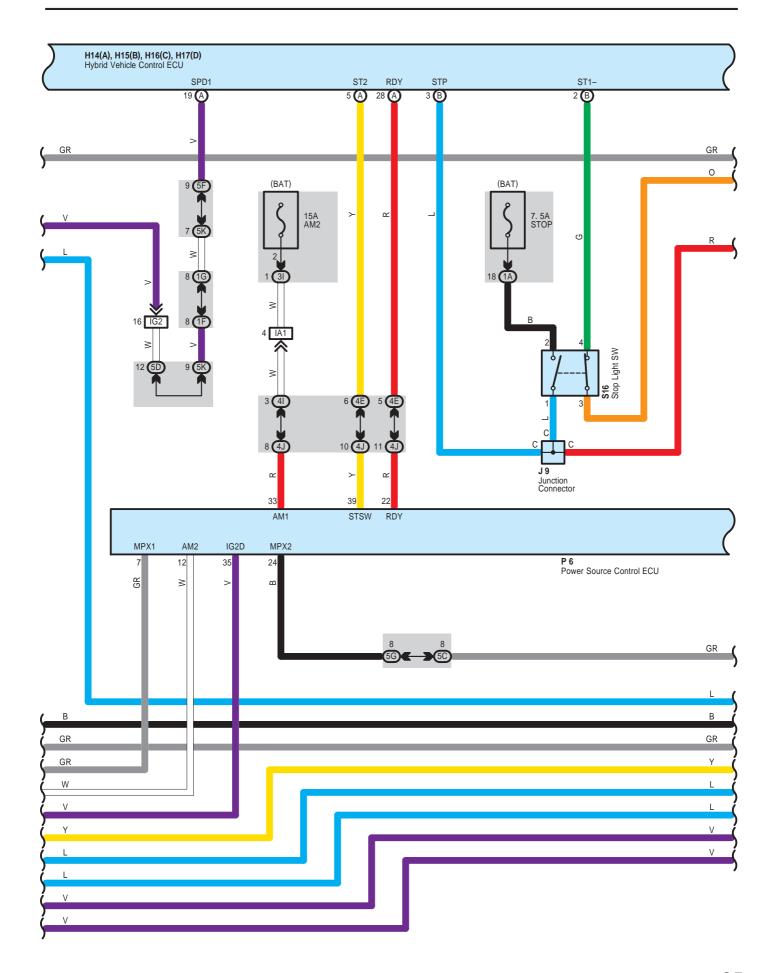
: Ground Points

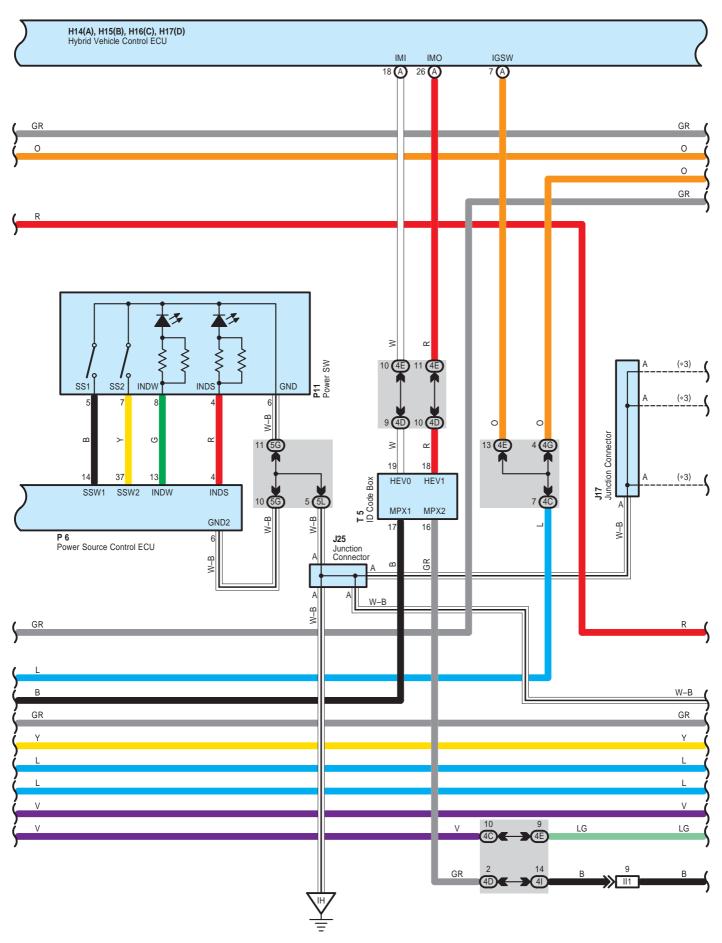
Code	See Page	round Points Location		
EC	56	Engine Block		
EE	56	Left Side of the Suspension Tower		
EF	Eelt Side of the Suspension Tower			
IH	58	Cowl Side Panel LH		
II	58	Instrument Panel Brace LH		

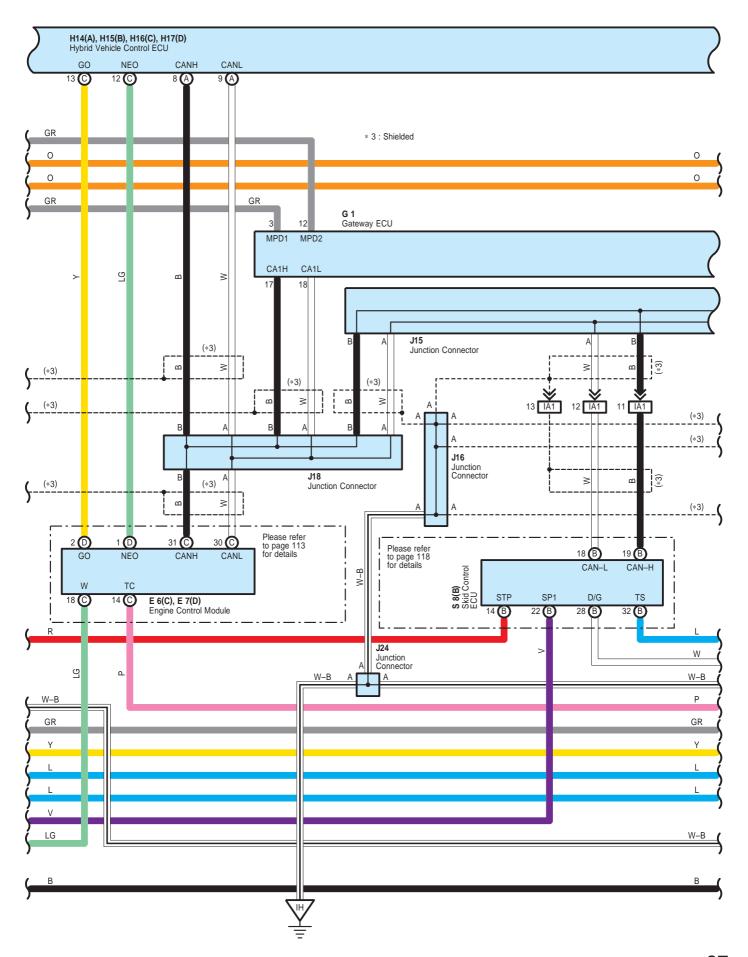


H14(A), H15(B), H16(C), H17(D) Hybrid Vehicle Control ECU GR GR (IG) 15A DOME 10A GAUGE HTR Relay 13 IG2 5 **1**N J 6 GR. GR Junction Connector GR. (VFD) Buzzer 11 B MPX2+ Power Supply Circuit IDH S5RM TR SGTR RH 18 **(**B) 8 (A) 22 **(**A) 9 (A) 10 (A) C10 Combination Meter BEAN IC GND S5 BR 용 A 9 A/C Room Temp. Sensor 15 4 4H 4C BR W Υ

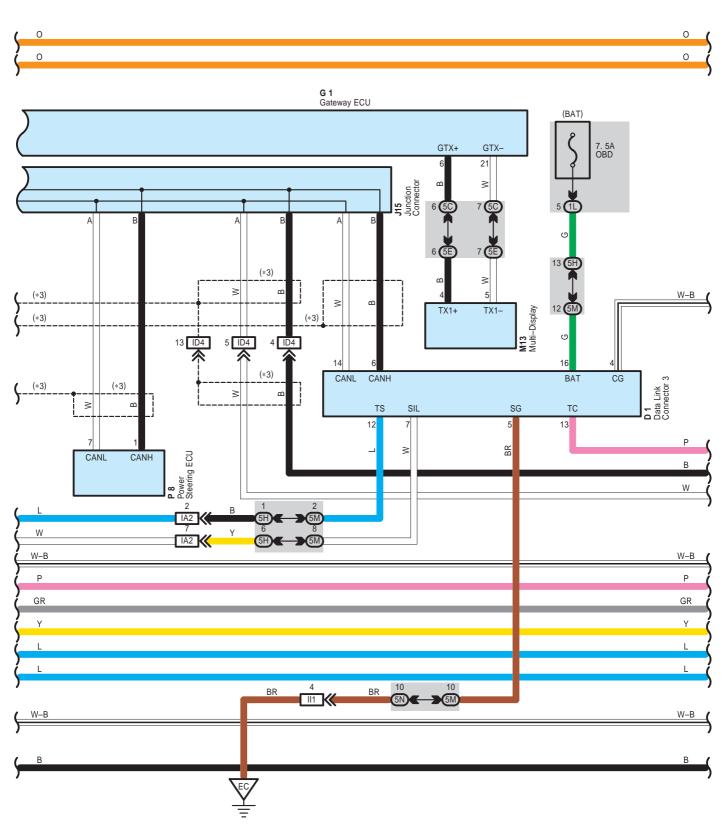
H14(A), H15(B), H16(C), H17(D) Hybrid Vehicle Control ECU GR GR GR * 1 : w/ Smart Key System * 2 : w/o Smart Key System GR 7 41 7 (4L) 13 16 **4**I R Malfunction Indicator Lamp GR GR (*) 8 111 17 31 19 MPX1 MPX1 TRLY B 5(A) Body ECU (*2) GR ≥ MPX2 MPX2 DCTY 26 21 **1**D 7 IA3 Door Courtesy SW Front LH ≥ **T11** Tire Pressure Warning ECU MPX1 MPX2 W 4C (13 13 5D**€ →** 5G GR W W ٧ Υ V ٧ **I**G1

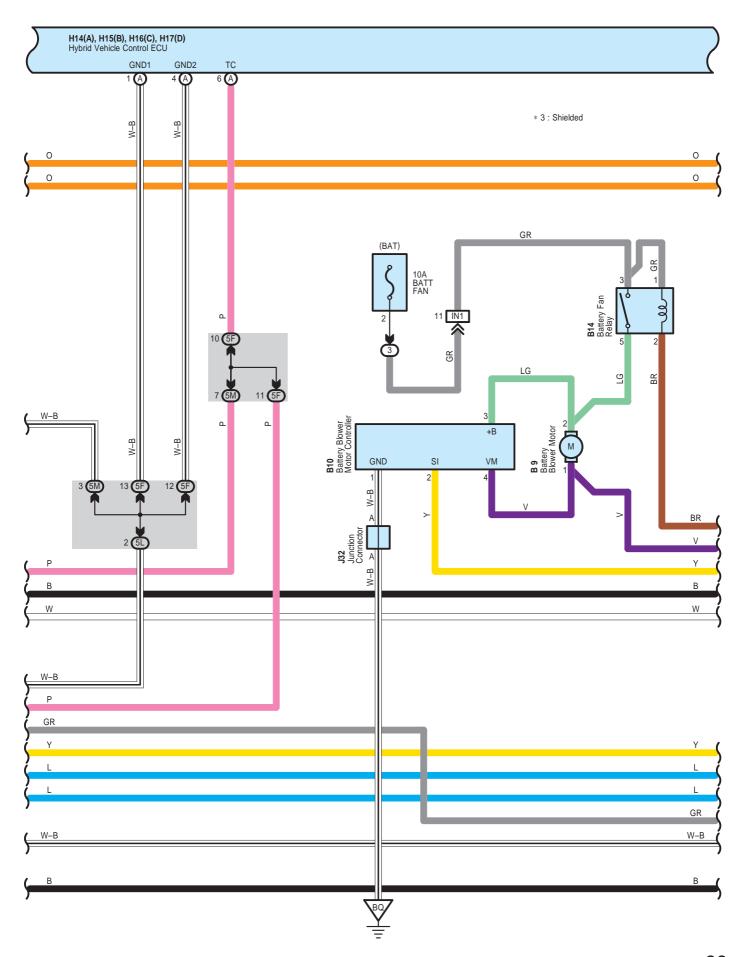


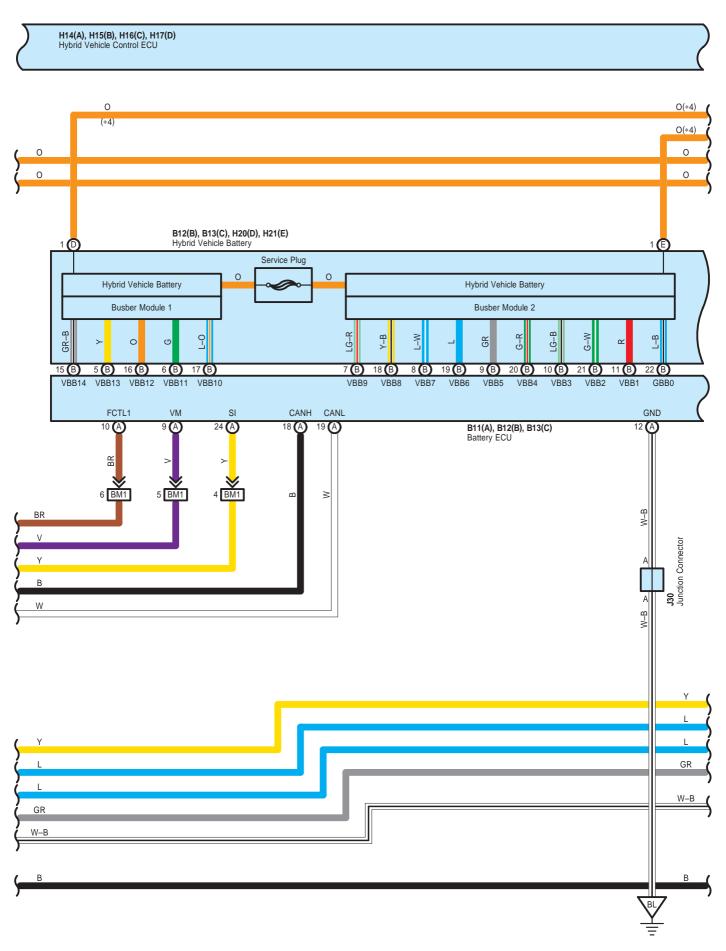


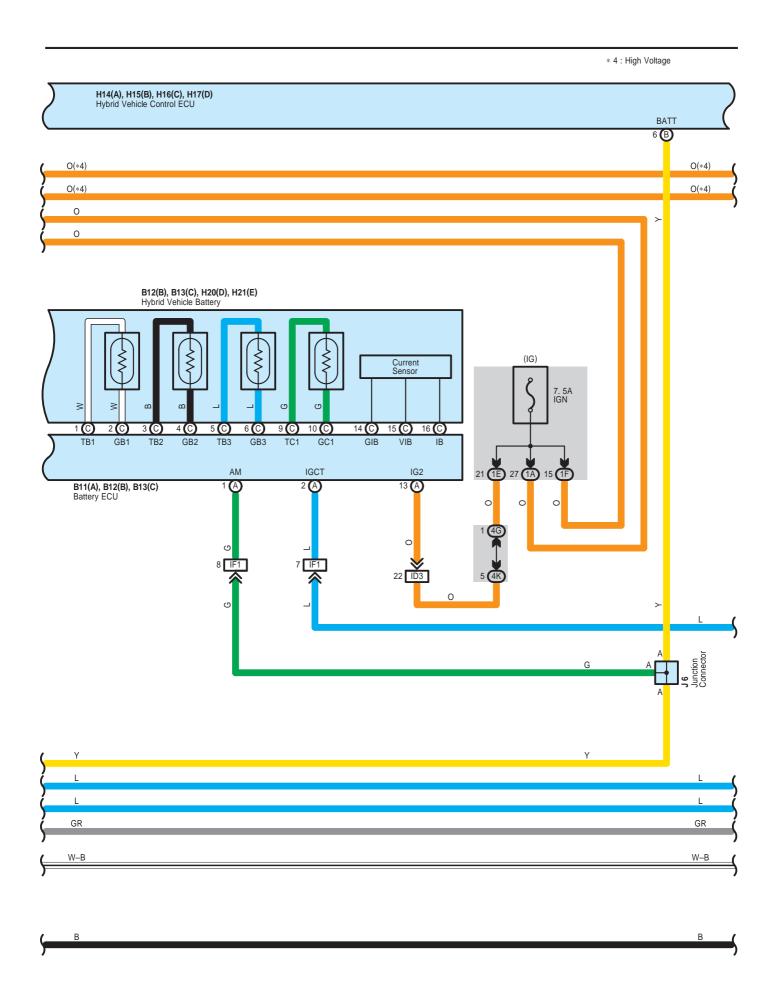


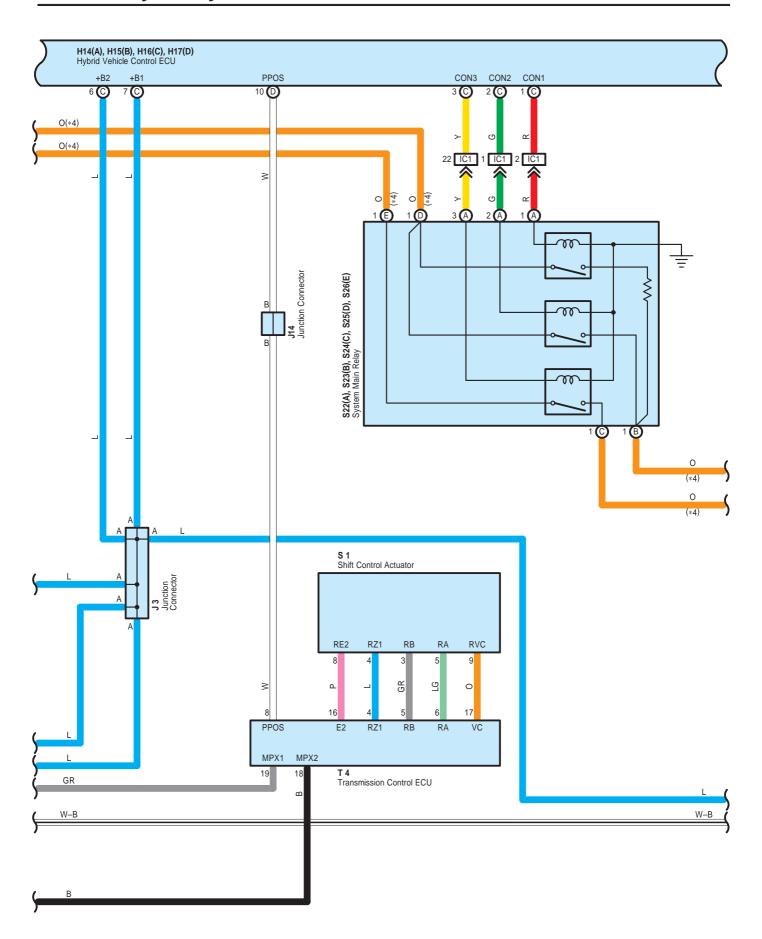
H14(A), H15(B), H16(C), H17(D) Hybrid Vehicle Control ECU



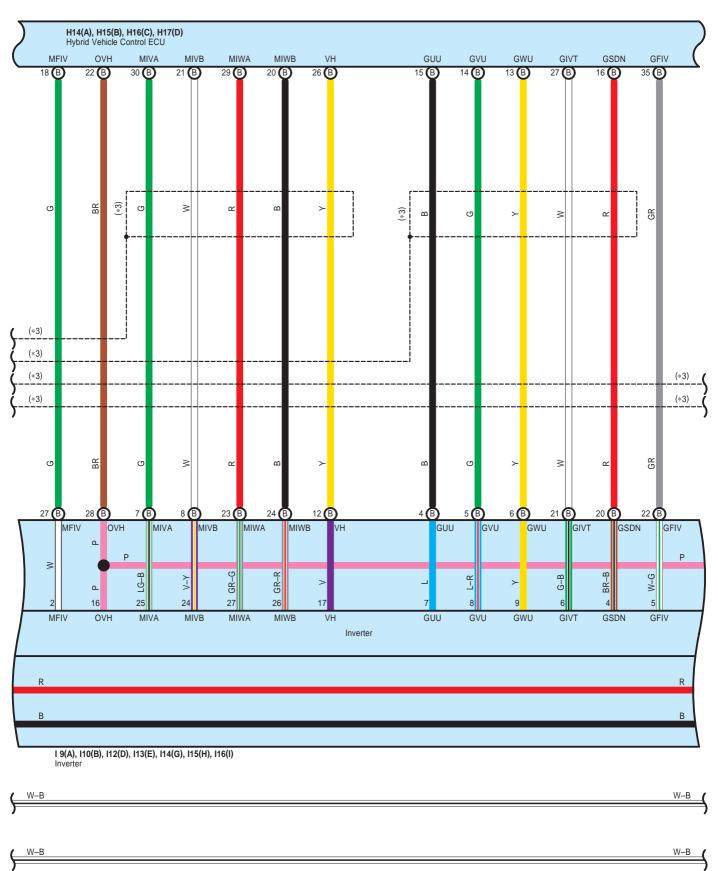


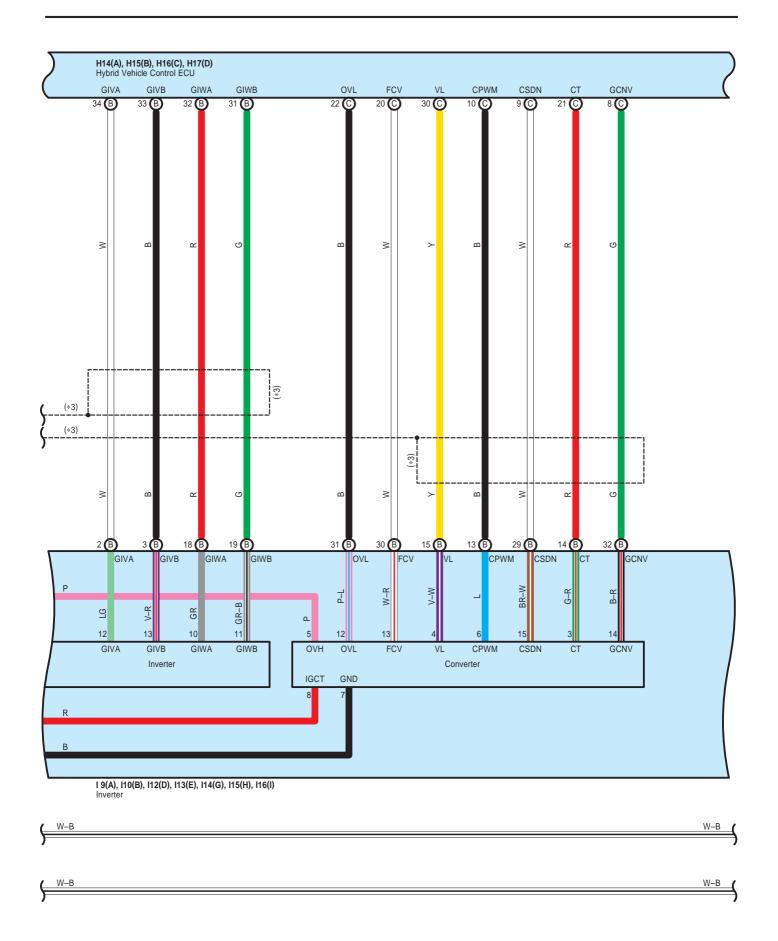


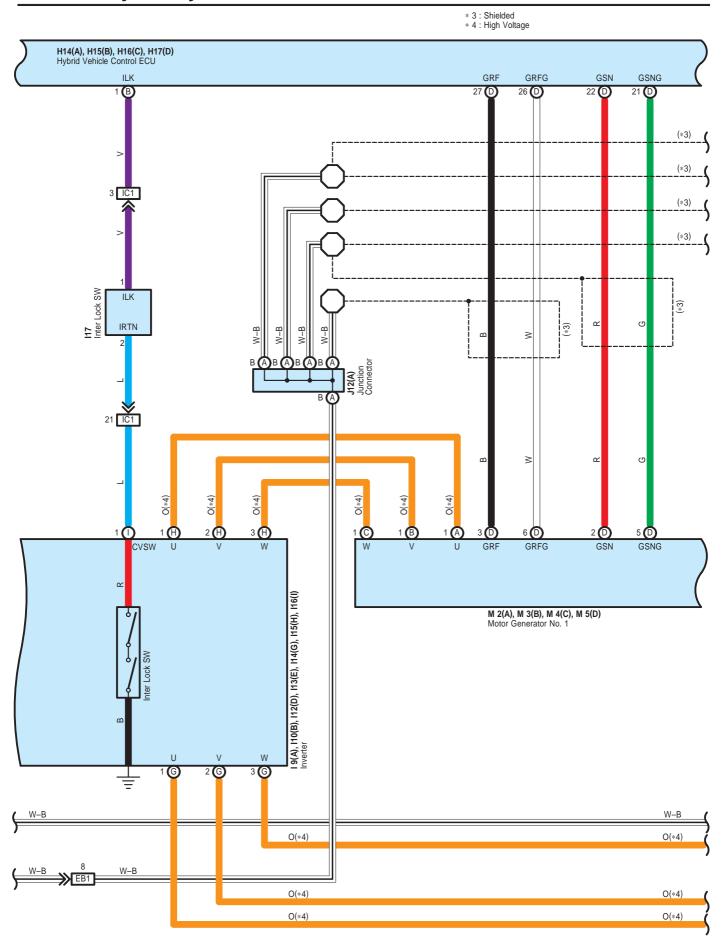


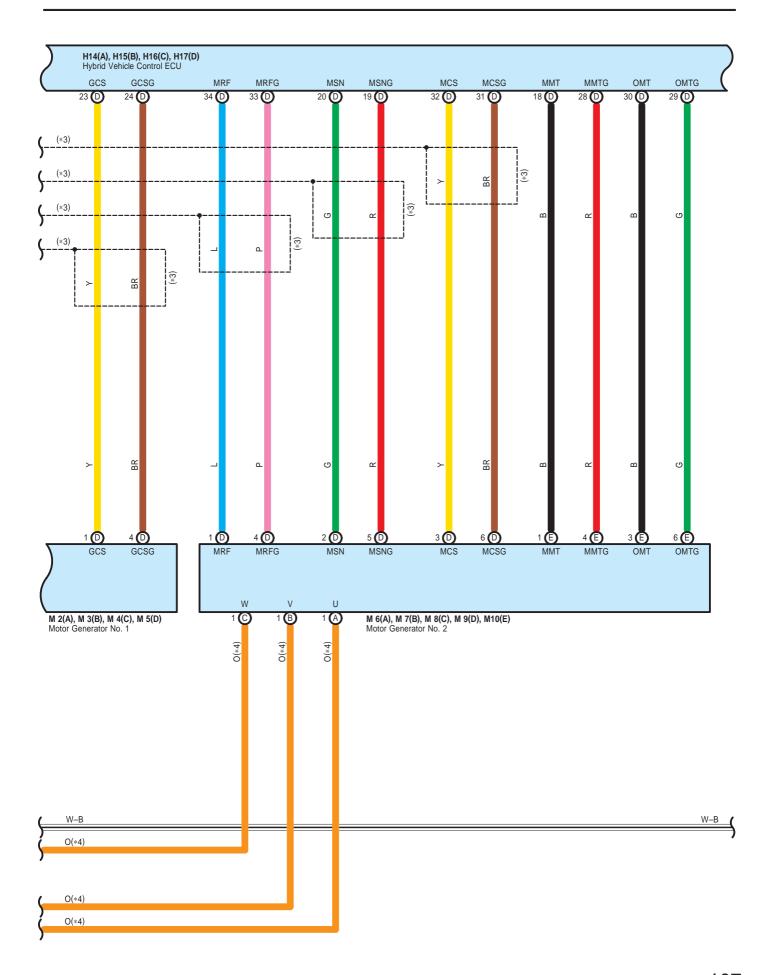


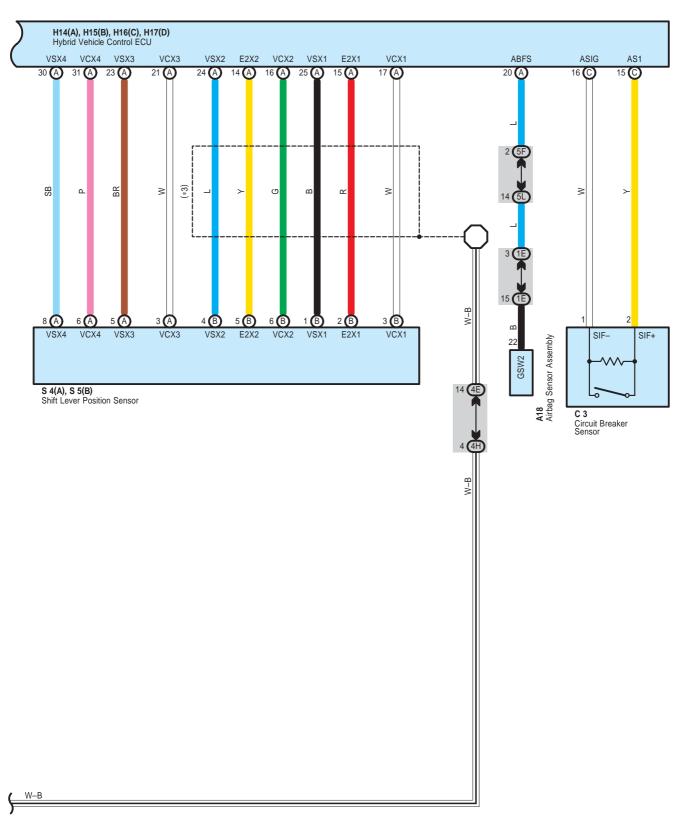
* 3 : Shielded * 4 : High Voltage H14(A), H15(B), H16(C), H17(D) Hybrid Vehicle Control ECU MUU EP1 EP2 VPA2 VCP2 VPA1 GINV MIVT VCP1 MVU MWU MSDN 19 **B** 27 C 35 **C** 25 C 9 **B** 10 **B** 11 **B** 23 **B** 8 **B** 34 **C** 33 (C) 26 **C** (*3) ≥ G വ EPA2 VPA2 VCP2 VPA VCPA A13 Accel Position Sensor (*3) (*3) (*3) (*3) 0 (*3) В മ 0 (*4) 1 (E) MUU MIVT MSDN MVU MWU GINV B-W Γ-γ വ BR I 9(A), I10(B), I12(D), I13(E), I14(G), I15(H), I16(I) Inverter MUU MVU MWU MIVT MSDN IGCT GND 15 В GND1 IGCT (*3) (*3) (£ *) (*) (*3) W-B J 5 Junction Connector

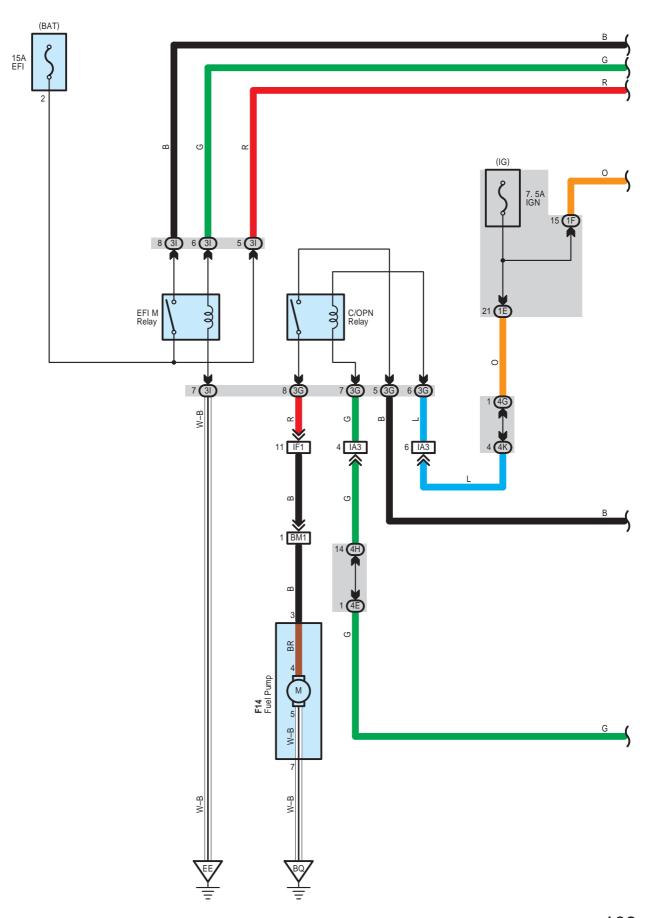




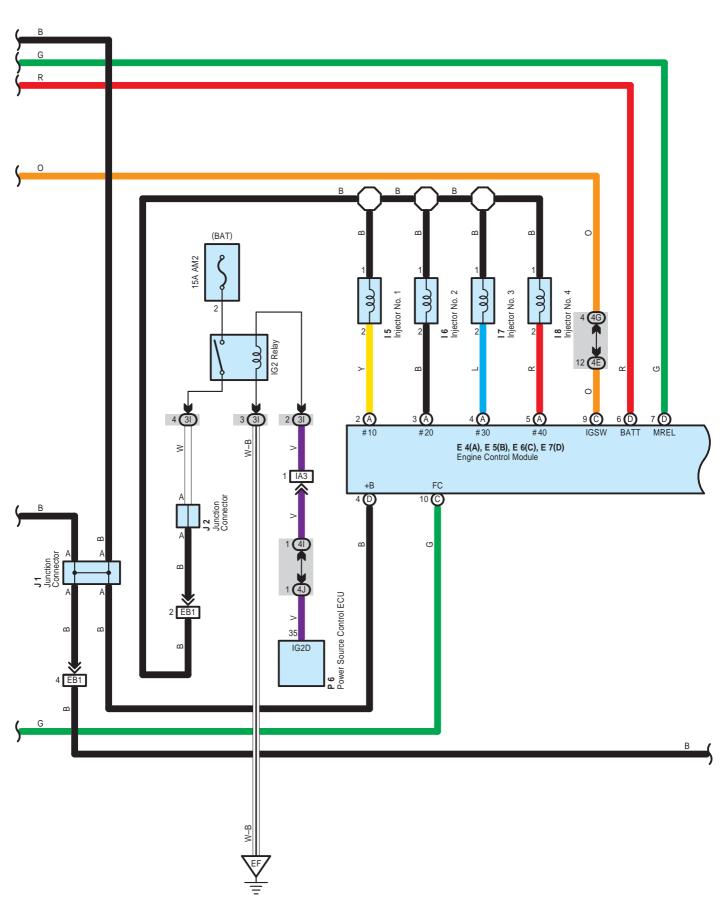


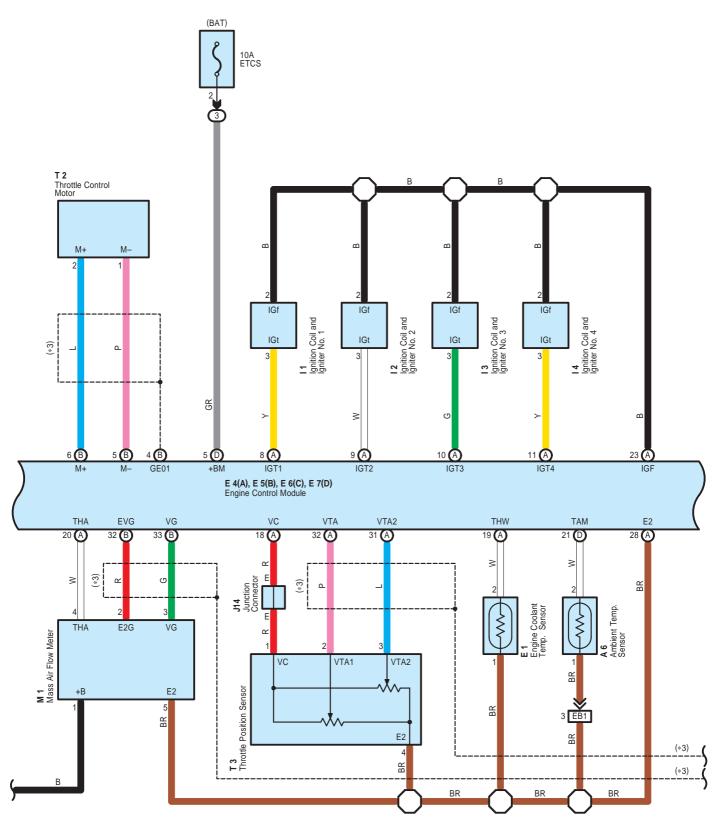




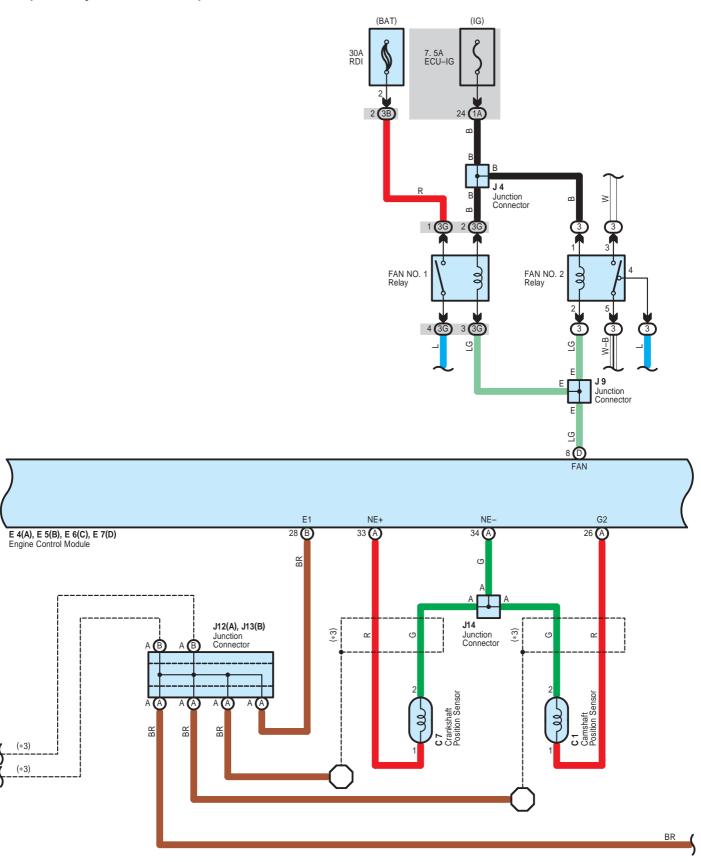


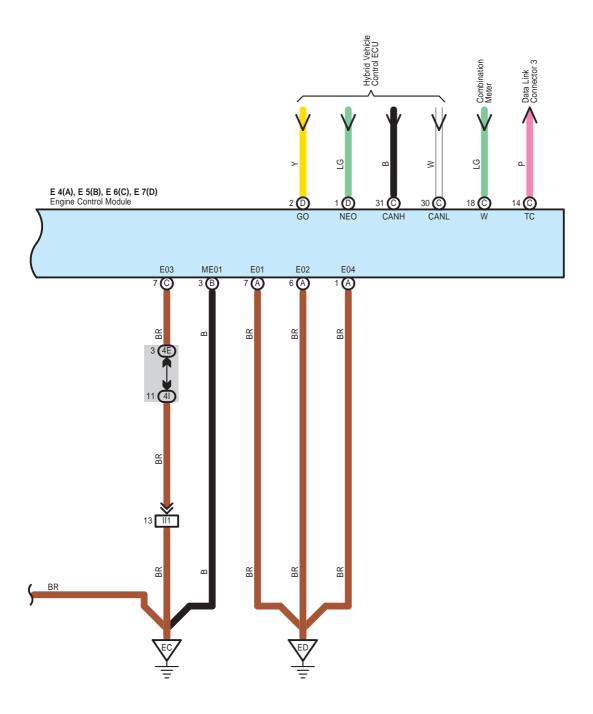
[Details of Engine Control Module Section]



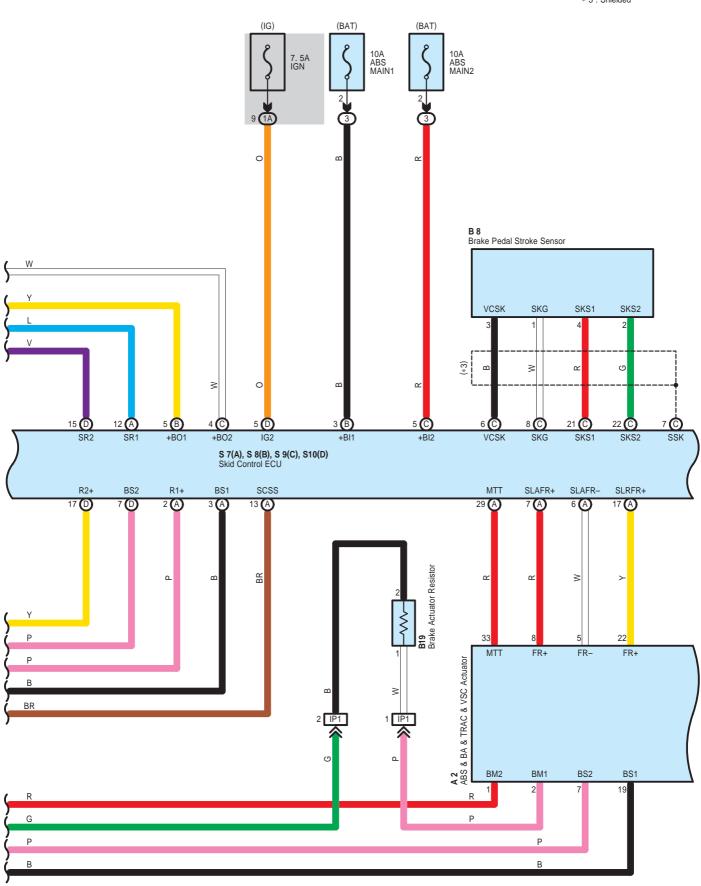


[Details of Engine Control Module Section]

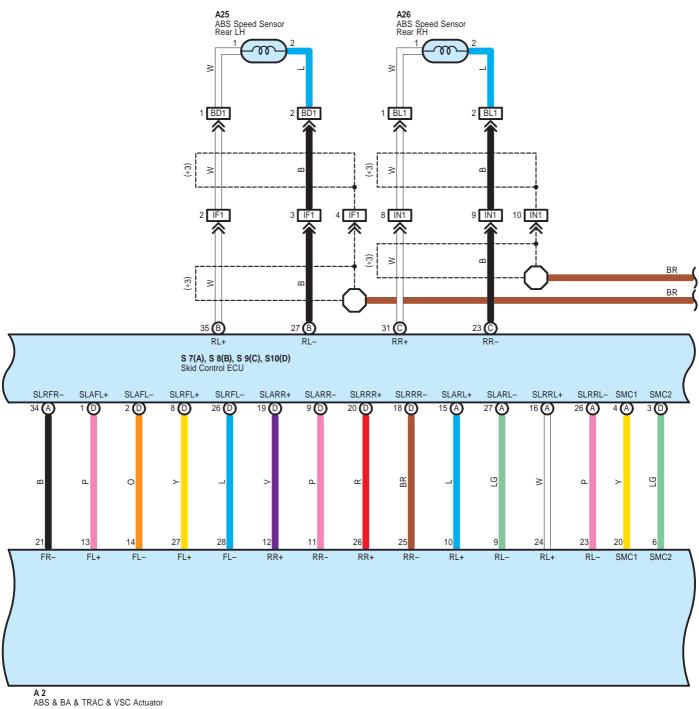


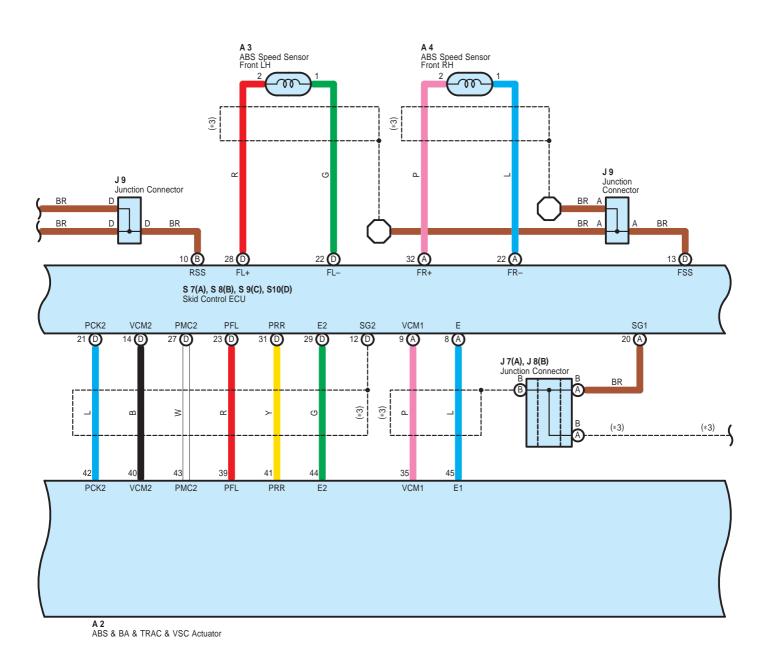


[Details of Skid Control ECU Section] (BAT) 25A ABS-1 **J 6** Junction Connector **B17**Brake Master Stroke Simulator Cylinder Assembly G BCSS BSR S 7(A), S 8(B), S 9(C), S10(D) Skid Control ECU ABS MTR Relay ABS MTR 2 Relay ABS NO. 1 Relay ABS NO. 2 Relay BR ۵ MR2+ MR1+ 25 **(**D) 11 **(**A) Short Connector 3 1 B BR GR **J 1** Junction Connector Ρ Ρ В BR ۵ R G Р В

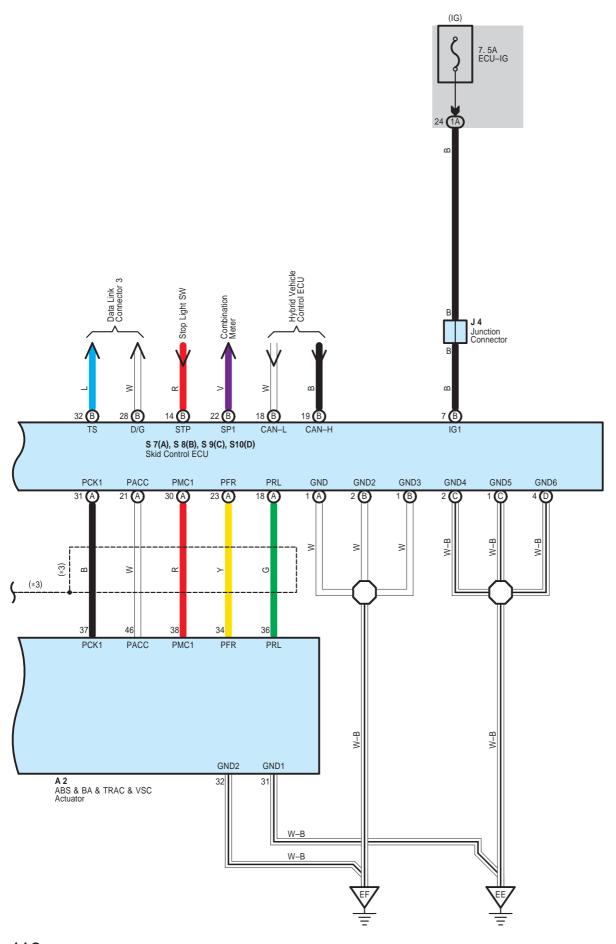


[Details of Skid Control ECU Section]





[Details of Skid Control ECU Section] * 3 : Shielded



System Outline

This system controls the following modes in order to achieve the most efficient operations to match the driving conditions.

1. Motor Generator Condition

- (1) Supply of electrical power from the HV battery to motor generator no.2 provides force to drive the wheels.
- (2) While the tires are driven by the engine via the planetary gears, motor generator no.1 activates to supply electricity via the planetary gears to motor generator no.2 to drive the wheels.
- (3) When the vehicle is decelerating, kinetic energy from the wheels is recovered into electrical energy and used to recharge the HV battery by motor generator no.2.

The hybrid vehicle control ECU switches between these modes (1, 2, 1+2, or 3) according to the driving conditions. However, when the state of charge of the HV battery is low, the HV battery is charged by the engine turning motor generator no 1

2. Inverter

- * The inverter converts high-voltage direct current of HV battery to three-phase alternating current for driving motor generator no.1 and motor generator no.2.
- * The activation of the power transistors is controlled by the HV ECU. In addition, the inverter transmits necessary information for current control, such as the output amperage or voltage, to the HV ECU.
- * Along with motor generator no.1 and motor generator no.2, the inverter is cooled by the exclusive radiator of the coolant system that is separated from that of the engine.
- * In vehicle collision, circuit breaker sensor installed in the inverter outputs collision signal to stop the system.
- * Boost converter has been adopted in the inverter, which increases rated voltage output from HV battery of DC 201.6V to DC 500V. After increasing voltage, the inverter converts direct current to alternating current.

3. Converter

The power source for auxiliary equipment of the vehicle such as the lights, audio system, and the air conditioning system, as well as the ECUs, is based on a rated voltage of DC 12V system. Because the generator outputs at DC 201.6V, the converter is used to transform the voltage from rated voltage of DC 201.6V to DC 12V in order to recharge the auxiliary battery. The converter is installed on the underside of the inverter.

4. HV Battery

- * In Prius, the sealed nickel hydride (Ni–MH) battery has been adopted. This HV battery has high power density, lightweight and longevity to match characteristics of TOYOTA hybrid system. Because TOYOTA hybrid system controls charge/discharge to maintain charge/discharge control to maintain SOC (State of charge) at constant level while the vehicle is operating normally, it does not have to rely on the use of external recharges.
- * The HV battery, battery ECU, system main relay and the cooling fan are put in a signal case which is placed in the luggage compartment behind the rear seat to make more effective use of vehicle space.
- * A service plug that shuts off circuit is provided in the middle of the 28 modules (Rated battery capacity = 201.6V). Before servicing any portion of the high–voltage circuits, make sure to remove the service plug.
 - Please do not READY ON when you remove the service plug. There is a possibility that battery ECU breaks down.
- * To ensure the HV battery's performance, the battery ECU controls the operation of the cooling fan to avoid the heat that is generated in the HV battery during charging and discharging.

5. Regenerative System Operation

This system operates the motor as a generator to change the kinetic energy of the vehicle into the electricity when accel pedal is released or foot braking decelerates the vehicle speed, and store the electricity in the battery.

TOYOTA Hybrid System

O : Parts Location

Co	de	See Page	Со	de	See Page	Со	de	See Page
А	2	46	H16	С	49	M1		47
А	3	46	H17	D	49	M2	Α	47
А	4	46	H20	D	53	МЗ	В	47
А	6	46	H21	Е	53	M4	С	47
A7	Α	48	l'	1	47	M5	D	47
A8	В	48	l:	2	47	M6	Α	47
А	9	48	I;	3	47	M7	В	47
A ²	13	48	Į.	4	47	M8	С	47
A ²		48	I:	5	47	M9	D	47
A2		52	10	6	47	M10	Е	47
A2		52	ľ	7	47	M ²		50
B5	Α	48	li	8	47	Р		51
В		48	19	Α	47	Р		51
В		52	l10	В	47	P		51
B'	10	52	l12	D	47	S	1	47
B11	Α	52	l13	E	47	S2	Α	47
B12	В	52	l14	G	47	S3	В	47
B13	С	52	I15	Н	47	S4	Α	51
B ²		52	l16	I	47	S5	В	51
B ²		46	l17		53	S7	Α	51
B ²		48	J1		47	S8	В	51
С		46	J2		47	S9	С	51
С		46	J3		47	S10	D	51
C5	Α	46	J4		47	Sí		51
C6	В	46	J5		50	S1	16	51
С		46	J	6	50	S22	Α	55
C.	10	49	J7	Α	50	S23	В	55
D		49	J8	В	50	S24	С	55
D		52	J		50	S25	D	55
E		46	J12	Α	50	S26	Е	55
E4	Α	49	J13	В	50	S27	Α	47
E5	В	49	J1		50	S28	В	47
E6	С	49	J1		50	T.		47
E7	D	49	J1		50	Т		47
F		53	J1		50	T		51
F15 A		28, 53	J18		50	Т		51
F16	В	28, 53	J2		50	T1		51
G		49	J2		50	W	/3	47
H14	Α	49	J3		53			
H15	В	49	J3	32	53			

: Relay Blocks

I	Code	See Page	Relay Blocks (Relay Block Location)
ı	3	22	Engine Room R/B (Engine Compartment Left)



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)							
1A									
1B	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)							
1C									
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)							
1E									
1F	30								
1G		Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)							
1L		Inistrument Famer vine and Driver Side 3/D (Lower Fillish Famer)							
1M	31								
1N									
3B									
3C	23								
3D									
3E		Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)							
3G	0.4								
3I 3J	24								
3M	23	Frame Wire and Engine Room J/B (Engine Compartment Left)							
4C	23	r rame vine and Engine Noom 3/D (Engine Compartment Left)							
4D									
4E									
4F		Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)							
4G	38								
4H									
41									
4J	-								
4K									
4L									
5C									
5D									
5E									
5F	42								
5G									
5H		Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)							
5J									
5K									
5L									
5M									
5N									

TOYOTA Hybrid System

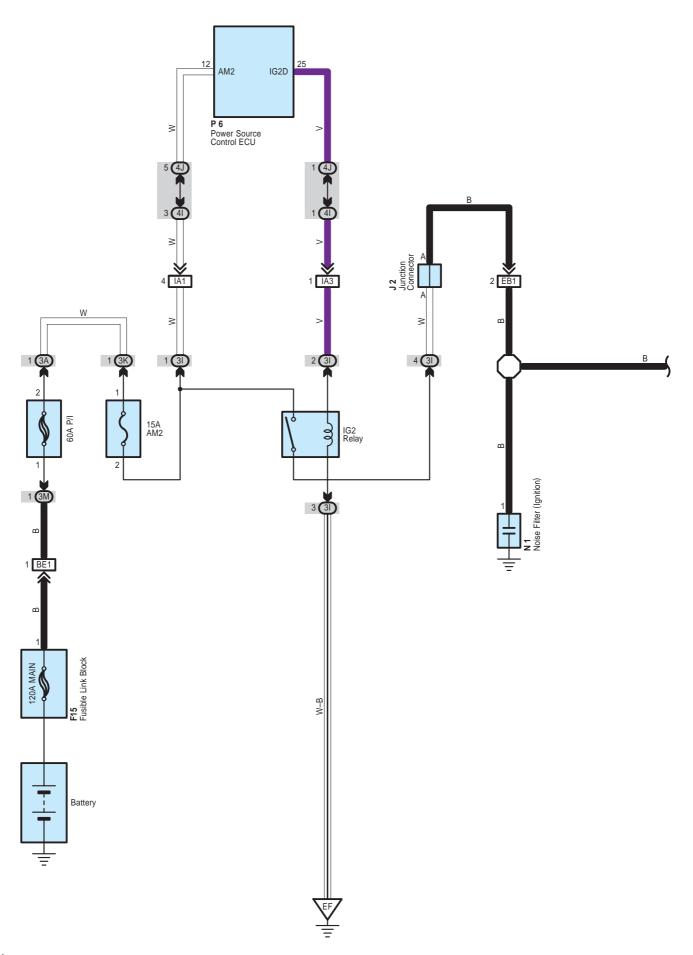
: Connector Joining Wire Harness and Wire Harness

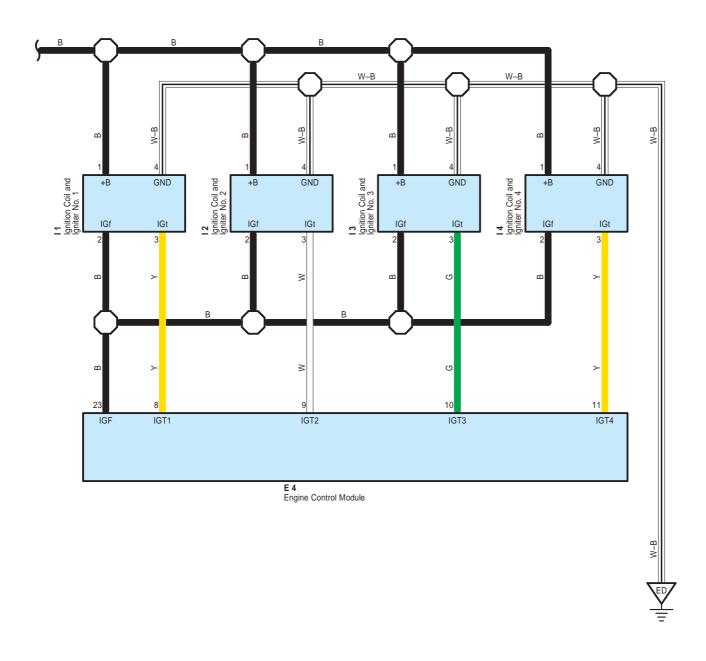
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)					
EB1	56	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)					
IA1							
IA2	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)					
IA3							
IC1	58	Engine Room Main Wire and Floor Wire (Cowl Side Panel LH)					
ID3	- 58	Instrument Panel Wire and Floor Wire (Left Kick Panel)					
ID4		institutioner and wife and not write (Lett McK1 aner)					
IF1	58	Floor Wire and Engine Room Main Wire (Left Kick Panel)					
IG1	- 59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)					
IG2		instrument ranet vvite and instrument ranet ivo.2 vvite (behind the combination weter)					
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)					
IN1	59	Floor No.2 Wire and Engine Room Main Wire (Right Kick Panel)					
IP1	59	Engine Room No.2 Wire and Engine Room Main Wire (Upper Parts of Front Body Pillar LH)					
BD1	60	Skid Control Sensor No.1 Wire and Floor Wire (Front Side of Left Quarter Panel)					
BE1	60	Frame Wire and Floor No.2 Wire (Front Side of Left Quarter Panel)					
BL1	61	Skid Control Sensor No.2 Wire and Floor No.2 Wire (Front Side of Right Quarter Panel)					
BM1	61	Floor No.2 Wire and Floor Wire (Rear Side of Right Quarter Panel)					

∇

: Ground Points

Code	See Page	Ground Points Location				
EC	56	Engine Plack				
ED	30	Engine Block				
EE	56	Left Side of the Suspension Tower				
EF	30	Left Gide of the Gusperision Tower				
IH	58	Cowl Side Panel LH				
II	58	Instrument Panel Brace LH				
IK	58	Cowl Side Panel RH				
BL	60	Rear Side of Left Quarter Panel				
BQ	60	Rear Side of Right Quarter Panel				





Ignition

O : Parts Location

Code	See Page	Code	See Page	Code	See Page
E4	49	12	47	J2	47
F15	28, 53	13	47	N1	47
l1	47	14	47	P6	51

: Junction Block and Wire Harness Connector

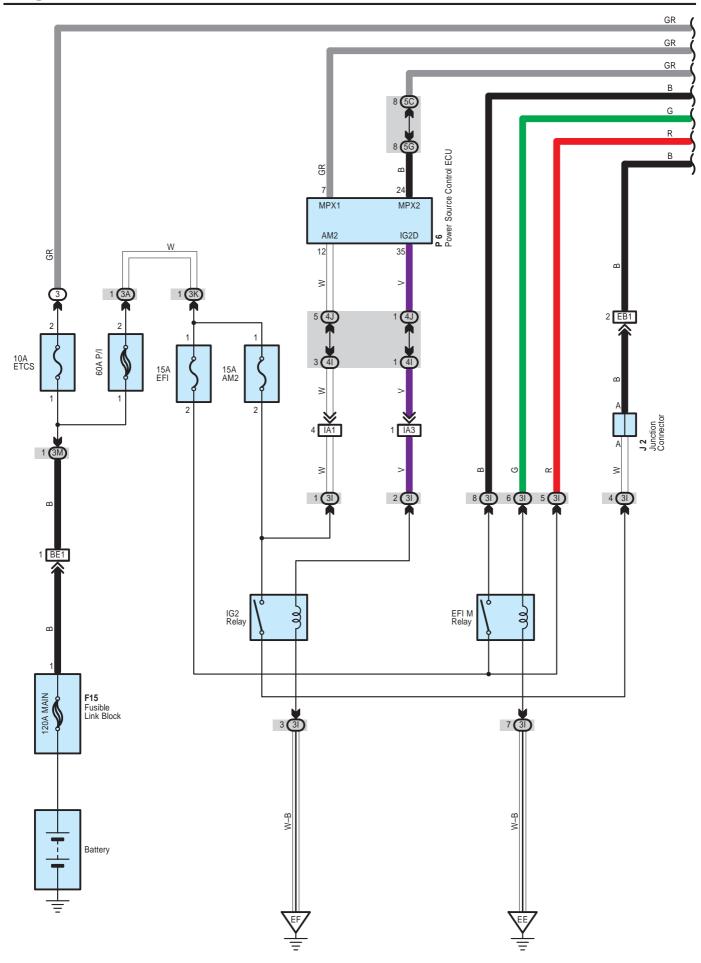
Code	See Page	Junction Block and Wire Harness (Connector Location)						
3A	23							
31	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)						
3K	24							
3M	23	Frame Wire and Engine Room J/B (Engine Compartment Left)						
41	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)						
4J	1 30	Inistrument Paner whe and Center Connector No. 1 (Benind the Combination Meter)						

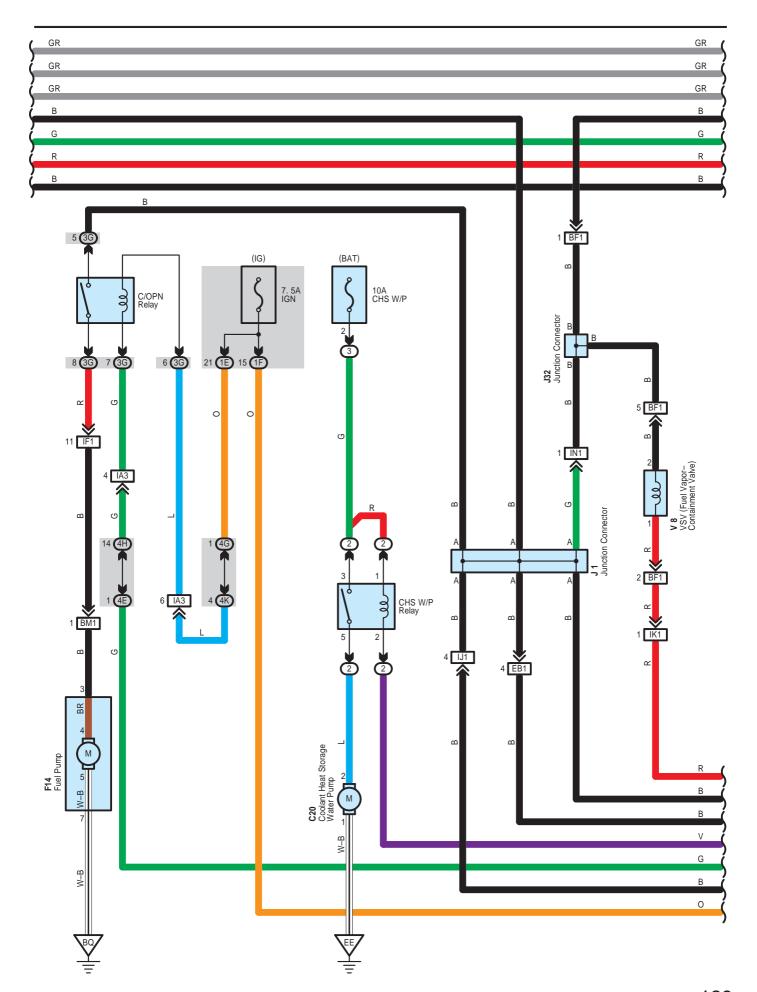
: Connector Joining Wire Harness and Wire Harness

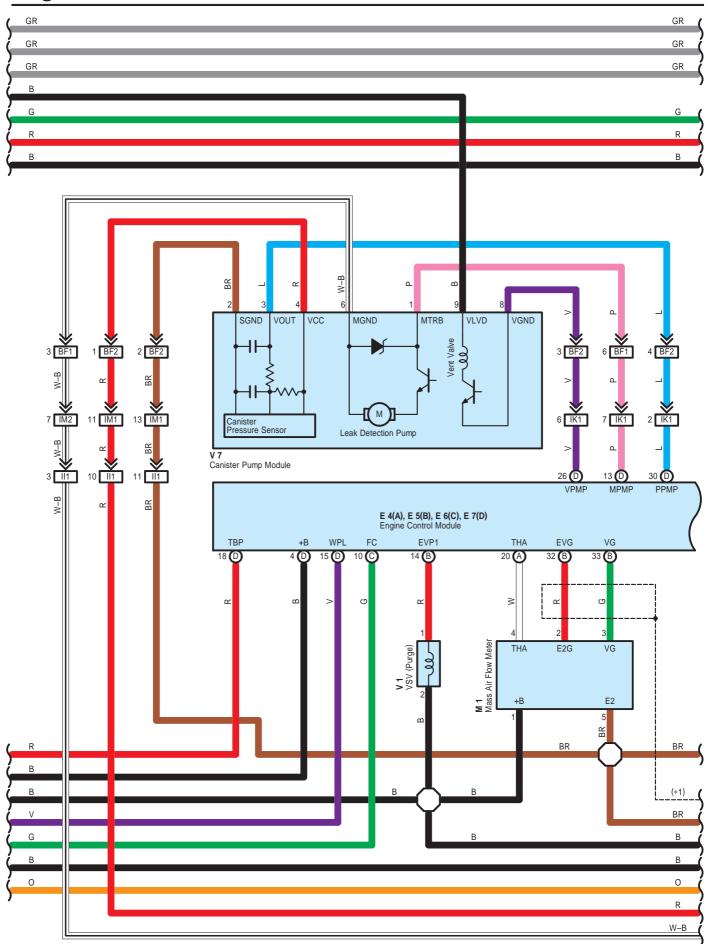
Code	See Page	oining Wire Harness and Wire Harness (Connector Location)						
EB1	EB1 56 Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)							
IA1	- 58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)						
IA3		Ligine Room Main Wire and histrument Paner Wire (opper Parts of Front Body Piliar Err)						
BE1	60	Frame Wire and Floor No.2 Wire (Front Side of Left Quarter Panel)						

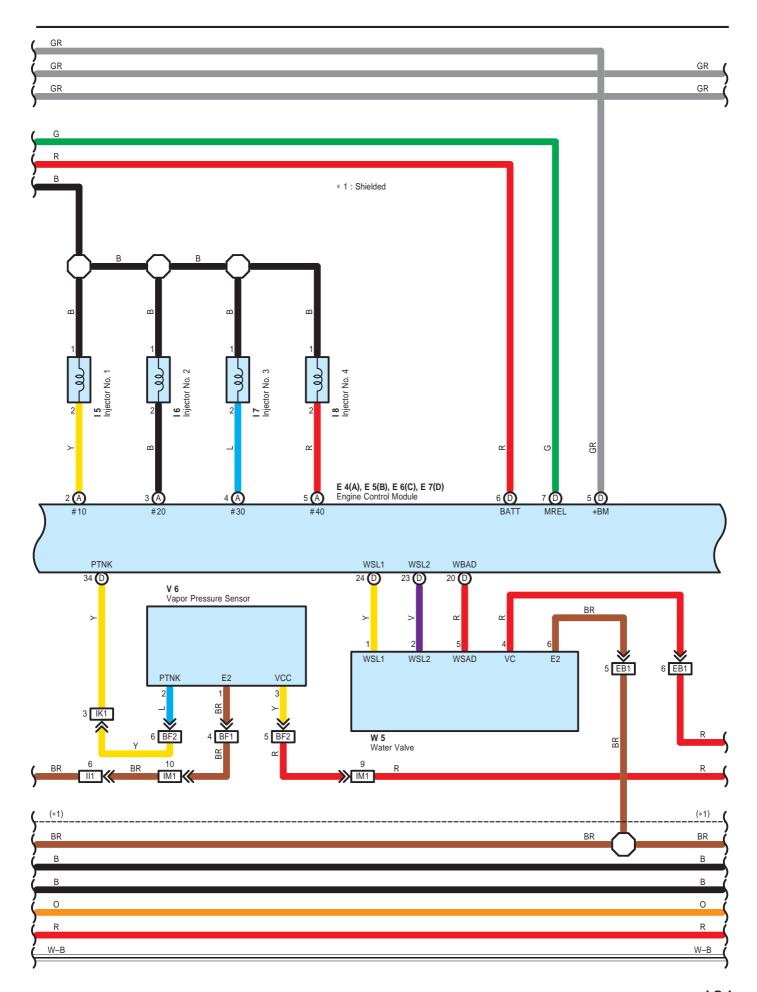
: Ground Points

Code	See Page	Ground Points Location
ED	56	Engine Block
EF	56	Left Side of the Suspension Tower

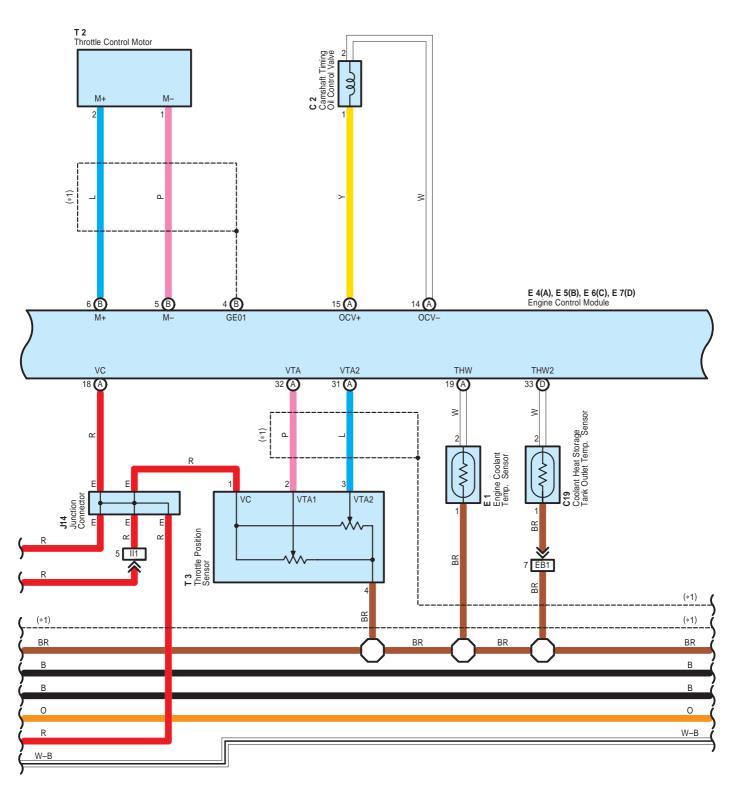




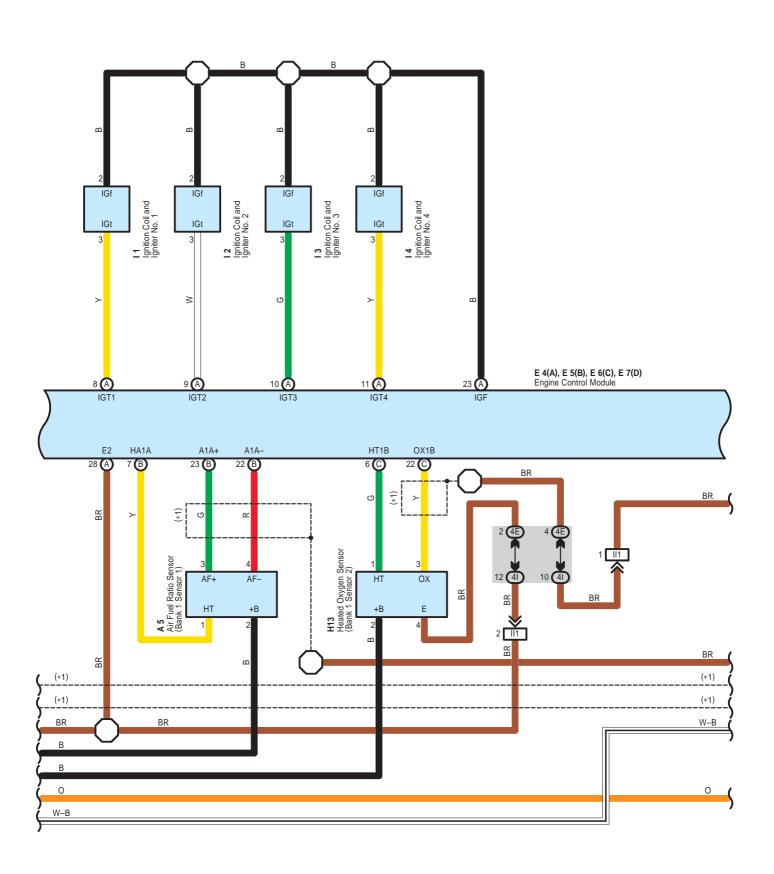


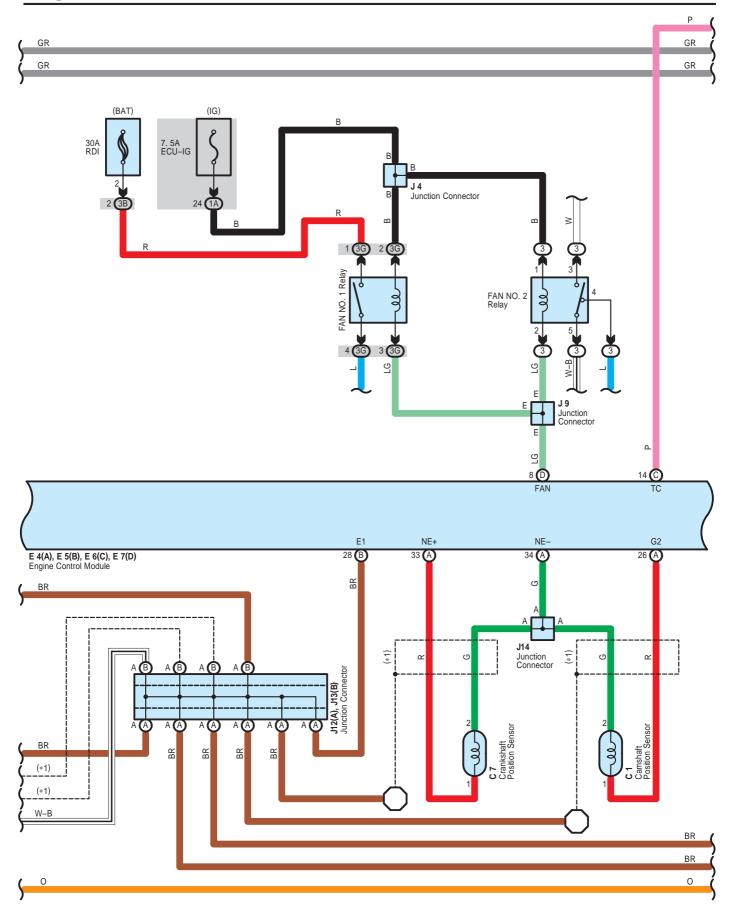


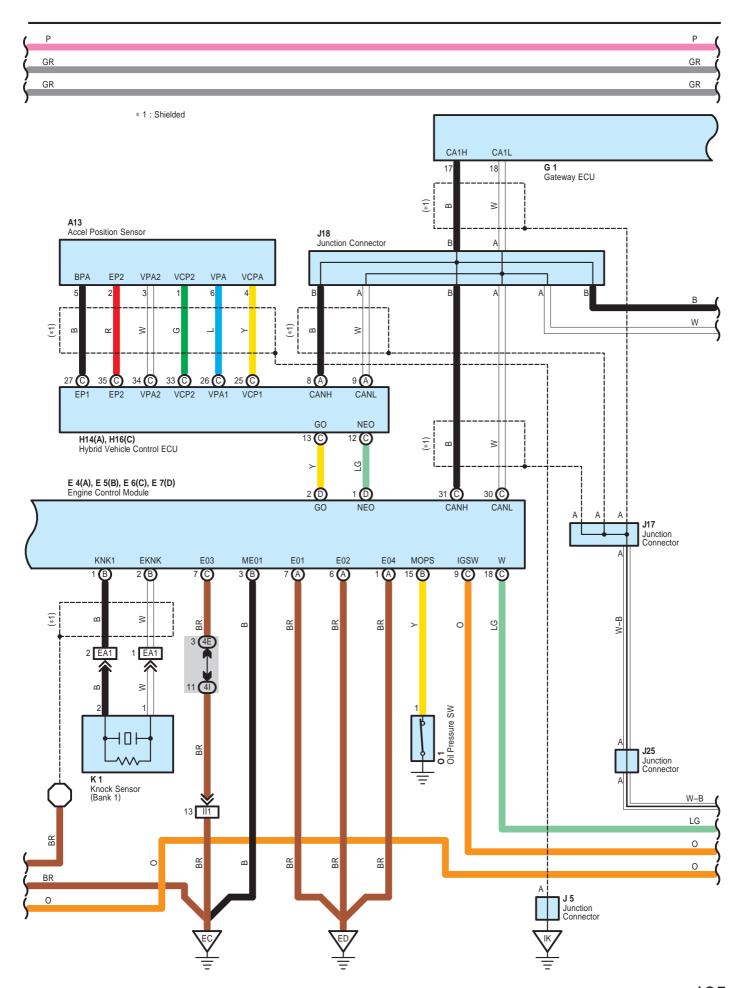
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GR GR GR
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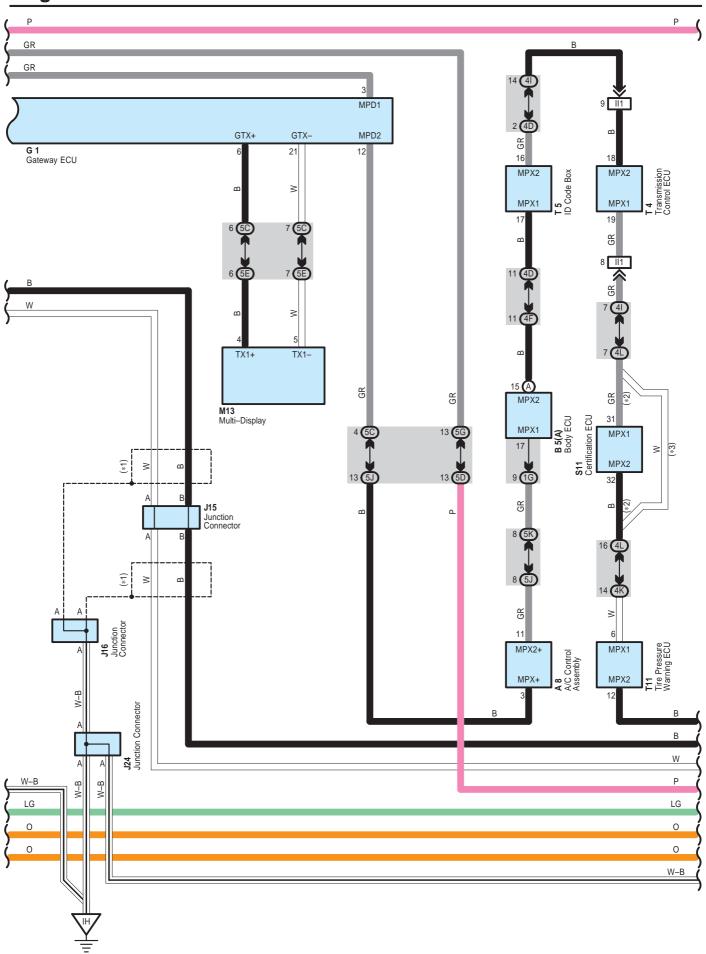


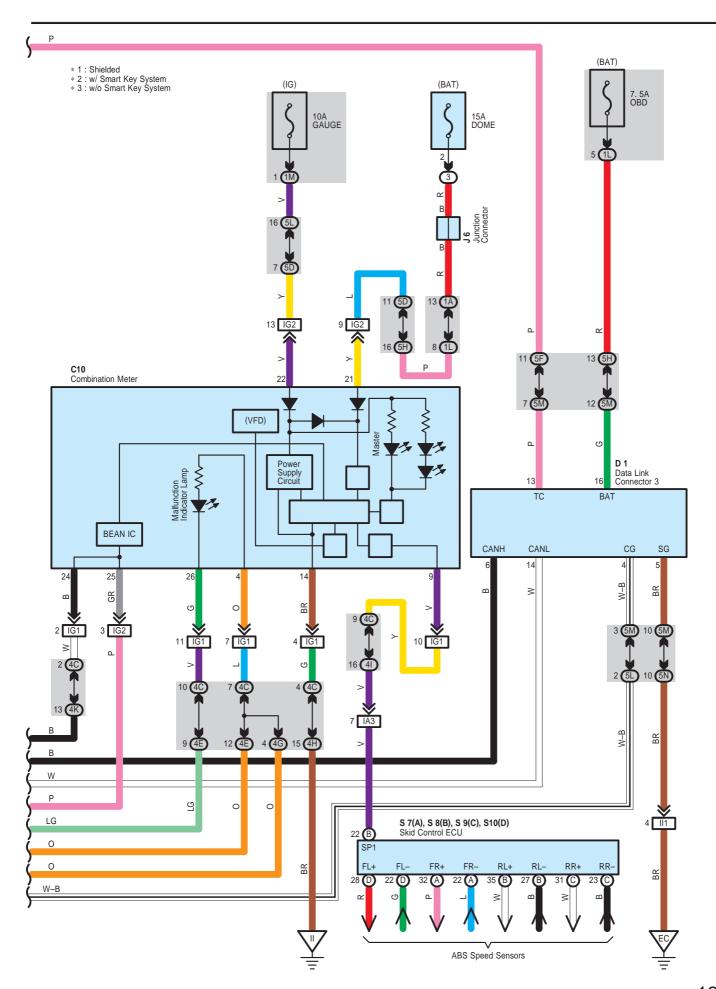












System Outline

The engine control system utilizes a microcomputer and maintains overall control of the engine, transmission 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. 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 to TERMINAL THA of the engine control module as a control signal.

(3) Oxygen sensor signal circuit

The oxygen density in the exhaust emission is detected and is input from the heated oxygen sensors to TERMINAL OX1B of the engine control module as a control signal.

(4) RPM signal circuit

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

(5) Throttle position sensor signal circuit

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

(6) Vehicle speed signal circuit

ABS speed sensor detects vehicle speed and the speed signal is input from skid control ECU to engine control module.

(7) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine control module. When the power SW is pushed on, the voltage for engine control module starts up power supply which is applied through the EFI M relay, to TERMINAL +B of the engine control module. The current from the IGN fuse flows to TERMINAL IGSW of the engine control module, and voltage is constantly applied to TERMINAL +BM.

(8) Intake air volume signal circuit

The intake air volume is detected by the mass air flow meter, and is input to TERMINAL VG of the engine control module as a control signal.

(9) Water temp. (CHS) signal circuit

The water temp. (CHS) sensor detects the water temp. (CHS) and has a built–in thermistor with a resistance which varies according to the water temp. (CHS). The water temp. (CHS) is input into TERMINAL THW2 of the engine control module as a control signal.

(10) Engine knock signal circuit

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

(11) Air fuel ratio signal circuit

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

2. Control System

* SFI system

The SFI system monitors the engine condition through the signals input from each sensors to the engine control module. The control signal is sent to the engine control module TERMINALS #10, #20, #30 and #40 to operate the injector (Fuel injection). The SFI system controls the fuel injection with the engine control module according to the driving conditions.

* ESA system

The ESA system monitors the engine condition through the signals input from each sensors to the engine control module. The best ignition timing is decided according to this data and the data stored in the engine control module. The control signal is output to TERMINALS IGT1, IGT2, IGT3 and IGT4, and these signals control the igniter to provide the best ignition timing.

Heater control system of heated oxygen sensor

The heater control system of heated oxygen sensor turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the heated oxygen sensors to improve their detecting performance. The engine control module evaluates the signals from each sensors, and outputs current to TERMINAL HT1B to control the heater.

* Heater control system of air fuel ratio sensor

The heater control system of air fuel ratio sensor turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the air fuel ratio sensor to improve detecting performance of the sensor.

The engine control module evaluates the signals from each sensor, current is output to TERMINAL HA1A, controlling the heater

* Fuel pump control system

The engine control module supplies current to TERMINAL FC, and controls the operation of the fuel pump with the C/OPN relay.

* VVT-i

VVT-i controls the intake camshaft to optimal valve timing in accordance with the engine condition.

* CHS system

Engine control module controls CHS W/P relay to run electric pump to supply heated water stored in CHS tank to engine head. The electric pump stops when the water reaches certain temperature or certain time goes by. Warming engine head optimizes combustion conditions at engine start to reduce emission of incomplete combustion gas.

3. Diagnosis System

When there is malfunction in the engine control module signal system, the malfunctioning system is recorded in the memory. The system can be found by reading the code displayed on the malfunction indicator lamp.

4. Fail-Safe System

When malfunction has occurred in any system, there is possibility of engine trouble due to continuous control based on that system. In such a case, the fail–safe system either controls the system using the data (Standard values) recorded in the engine control module memory, or stops the engine.

O : Parts Location

Code		See Page		de	See Page	See Page Code		See Page
Α	15	46	l1		47	J25		50
Α	۸8	48	I2		47	J32		53
А	13	48	13		47	K	1	47
B5	Α	48	4	4	47	М	1	47
С	1	46	15	5	47	M'	13	50
С	2	46	16	ĵ	47	0	1	47
С	7	46	17	7	47	Р	6	51
С	10	49	18	3	47	S7	Α	51
С	19	46	J	1	47	S8	В	51
С	C20 46		J2		47	S9	С	51
)1	49	J4		47	S10	D	51
E	1	46	J5		50	Sí	11	51
E4	А	49	J	6	50	T2		47
E5	В	49	J!	9	50	T3		47
E6	С	49	J12	Α	50	T4		51
E7	D	49	J13	В	50	T5		51
F	14	53	J1	4	50	T11		51
F15		28, 53	J1	5	50	V1		47
G1		49	J1	6	50	V6		55
H13		49	J1	7	50	V7		55
H14	114 A 49 J18		50	V8		55		
H16 C		49	J2	24	50	W5		47

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	28	Engine Room R/B No.2 (Right Side of Reserve Tank)
3	22	Engine Room R/B (Engine Compartment Left)



: Junction Block and Wire Harness Connector

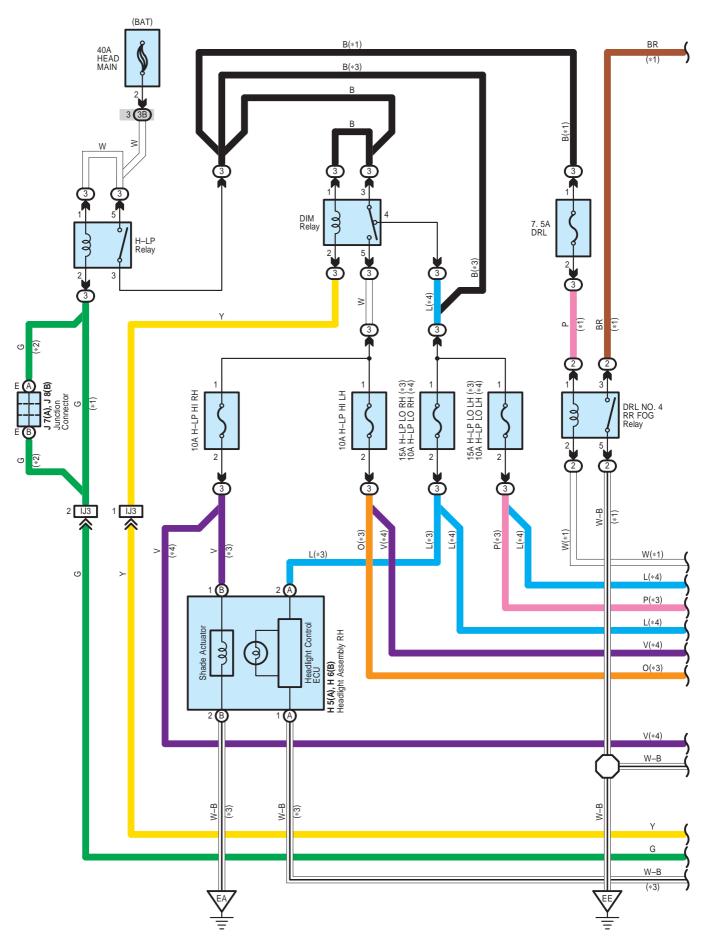
Code	See Page	Junction Block and Wire Harness (Connector Location)						
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)						
1E								
1F	30							
1G		Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)						
1L	31							
1M	31							
3A	23							
3B	20							
3G		Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)						
31	24							
3K								
3M	23	Frame Wire and Engine Room J/B (Engine Compartment Left)						
4C								
4D								
4E								
4F								
4G	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)						
4H								
41								
4J								
4K								
4L 5C								
5C 5D								
5E								
5F								
5G								
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)						
5J	·-							
5K								
5L								
5M								
5N								

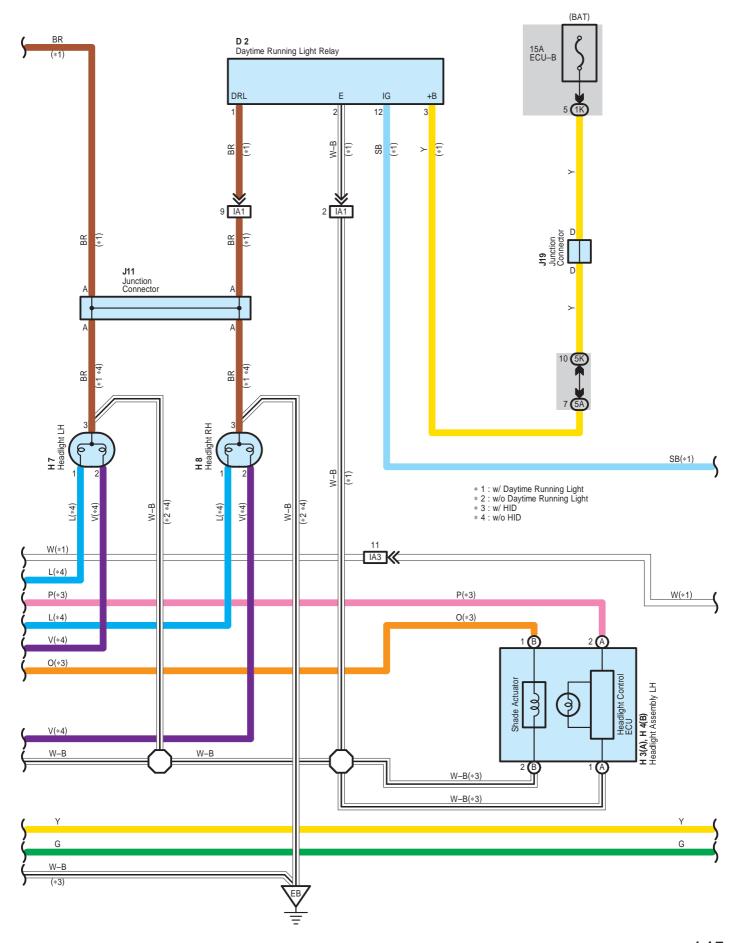
: Connector Joining Wire Harness and Wire Harness

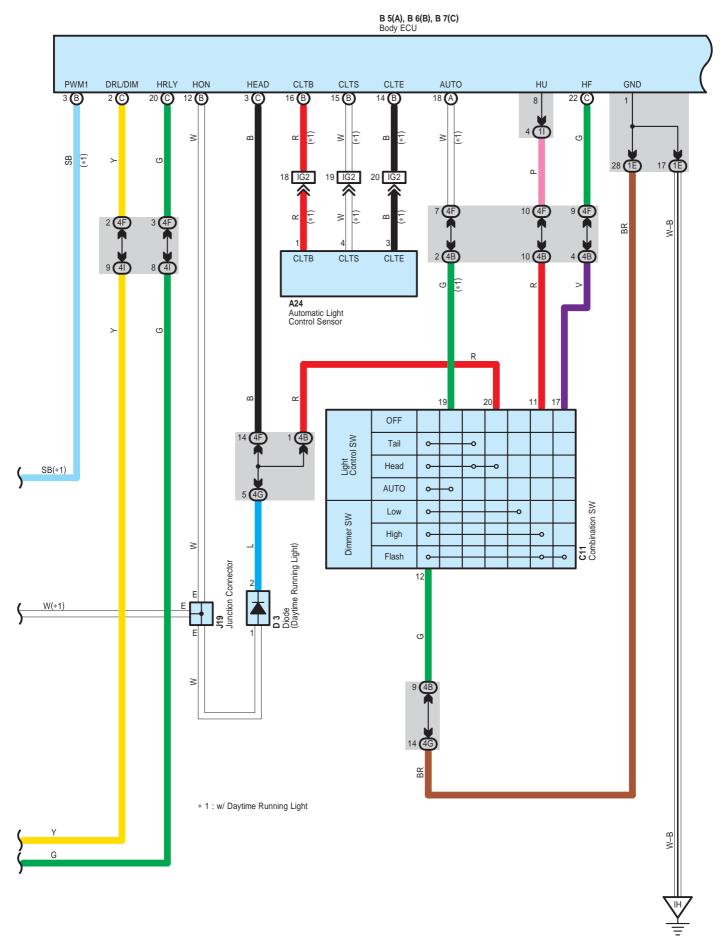
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	56	Engine Wire and Engine No.4 Wire (Near the Radiator Fan)
EB1	56	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)
IA1	- 58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)
IA3		
IF1	58	Floor Wire and Engine Room Main Wire (Left Kick Panel)
IG1	- 59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)
IG2		
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IJ1	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)
IK1	59	Engine Room Main Wire and Floor No.2 Wire (Cowl Side Panel RH)
IM1	- 59	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
IM2		
IN1	59	Floor No.2 Wire and Engine Room Main Wire (Right Kick Panel)
BE1	60	Frame Wire and Floor No.2 Wire (Front Side of Left Quarter Panel)
BF1	- 60	Floor No.2 Wire and Fuel Tank Wire (Near the Fuel Tank)
BF2		
BM1	61	Floor No.2 Wire and Floor Wire (Rear Side of Right Quarter Panel)

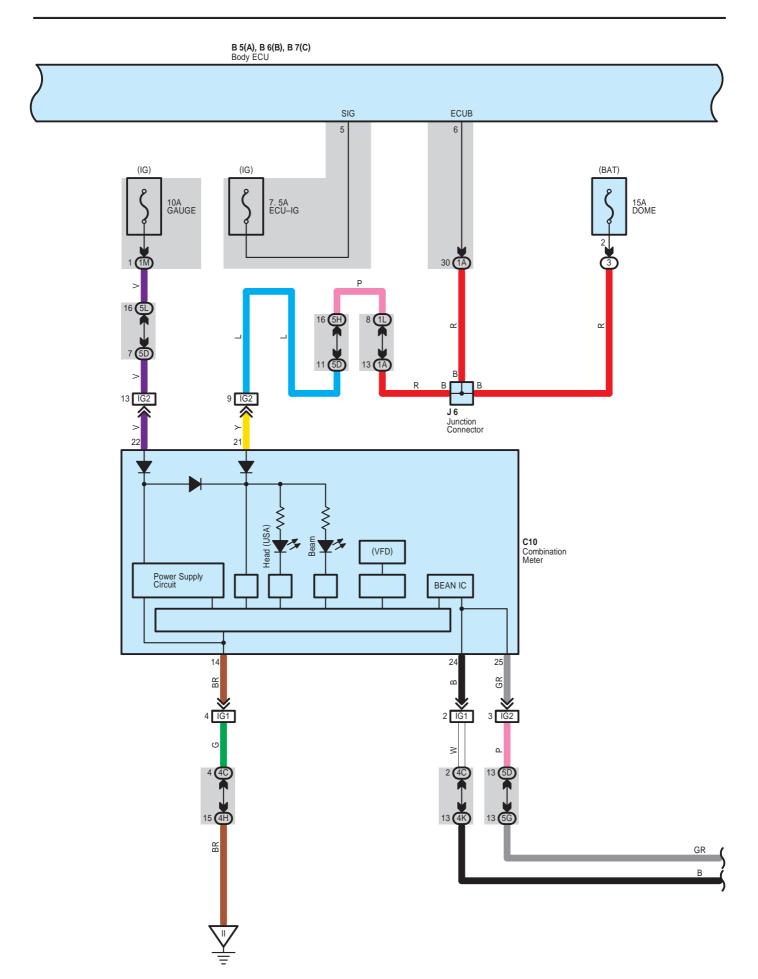
: Ground Points

Code	See Page	Ground Points Location
EC	- 56	Engine Block
ED		
EE	- 56	Left Side of the Suspension Tower
EF		
IH	58	Cowl Side Panel LH
II	58	Instrument Panel Brace LH
IK	58	Cowl Side Panel RH
BQ	60	Rear Side of Right Quarter Panel

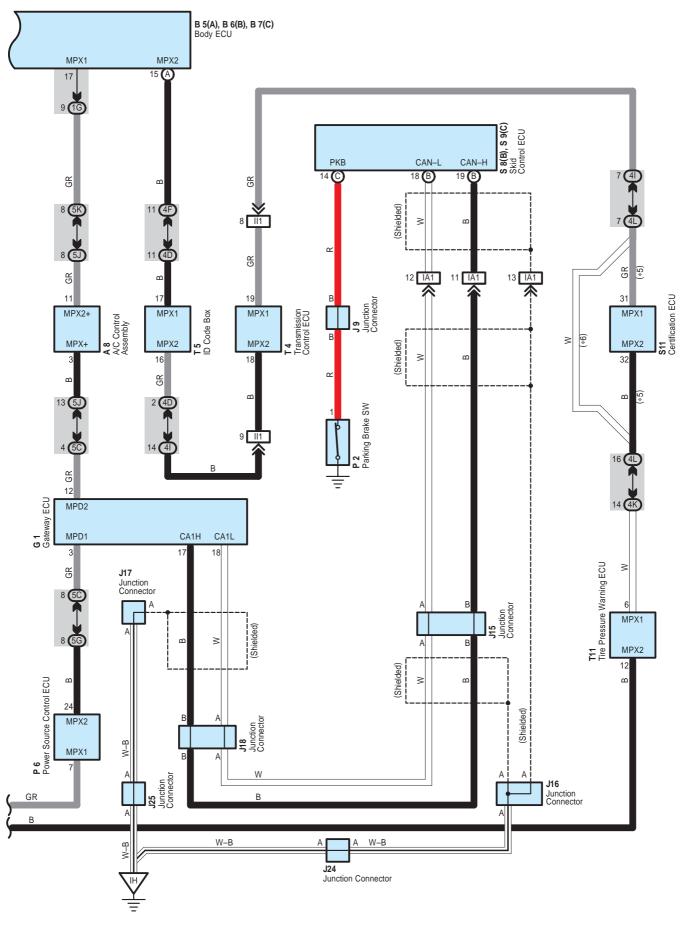








- * 5 : w/ Smart Key System * 6 : w/o Smart Key System



Daytime Running Light Function (Canada)

When power SW is at IG ON position and the vehicle is ready to drive (READY lamp on the display in combination meter is on), releasing parking brake makes signal go into TERMINAL PKB of body ECU. In this condition, when light control SW is at Off/Tail/AUTO position (Headlight is not lit), body ECU sends daytime operation request from TERMINAL DRL/DIM to daytime running light relay. As a result, daytime running light relay duty—operates headlights (Dimmer than regular lighting)

: Parts Location

Co	de	See Page		de	See Page	Со	de	See Page
Α	.8	48	H5	Α	A 46		8	50
A	24	48	H6	В	46	J1	9	50
B5	Α	48	Н	7	46	J2	:4	50
В6	В	48	Н	8	46	J2	:5	50
B7	С	48	J	6	50	P2		51
С	10	49 J7 A		50	Р	6	51	
С	11	49	J8	В	50	S8	В	51
	2	49	J	9	50	S9	С	51
	3	49	J1	11	50	S1	1	51
G	11	49	J15		50	T4		51
НЗ	H3 A 46		J16		50	T	5	51
Н4 В		46	J1	17	50	T1	1	51

: Relay Blocks

	Code	See Page	Relay Blocks (Relay Block Location)				
	2	28	Engine Room R/B No.2 (Right Side of Reserve Tank)				
Ī	3 22 Engine Room R/B (Engine Compartment Left)						

: Junction Block and Wire Harness Connector

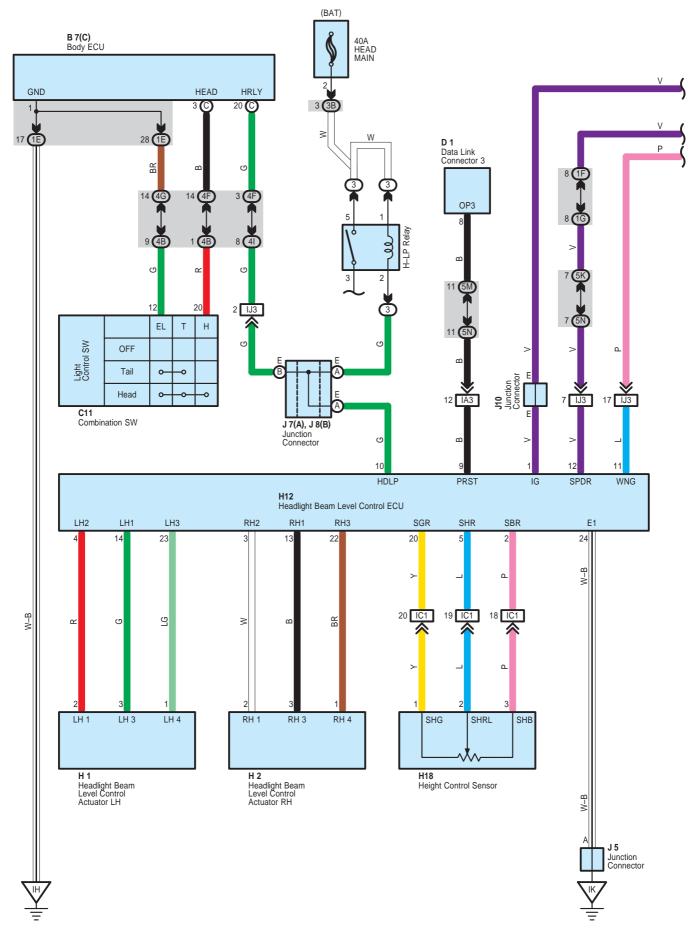
Code	See Page	Junction Block and Wire Harness (Connector Location)					
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)					
1E							
1G	30						
11]	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)					
1K		Thistitutient Fallet Wile and Driver Side 3/b (Lower Fillish Fallet)					
1L	31						
1M							
3B	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)					
4B							
4C							
4D	38						
4F							
4G		Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)					
4H							
41							
4K							
4L							
5A							
5C							
5D	42						
5G		Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)					
5H		modulitional discretization control control control vo.2 (modulitional discretization)					
5J							
5K							
5L							

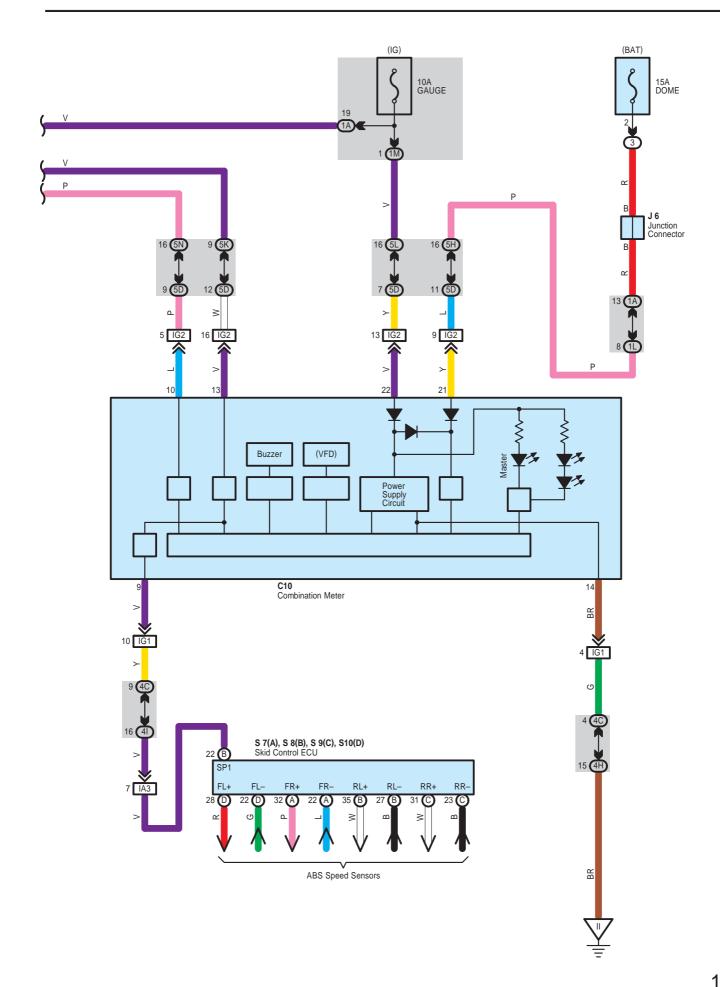
Headlight

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)
IA3	30	Engine Noom wain wire and instrainent? and wire (opport and or fort body final En)
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)
IG2	1 39	Institution trailer whe and institution railer No.2 whe (behind the Combination Meter)
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IJ3	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)

Code	See Page	Ground Points Location
EA	56	Right Side of the Fender Apron
EB	30	Tright olde of the Fehder Aproff
EE	56	Left Side of the Suspension Tower
IH	58	Cowl Side Panel LH
II	58	Instrument Panel Brace LH





Headlight Beam Level Control

System Outline

This system adjusts the illuminating angle from changes in the vehicle height and axle distance, based on the information of the vehicle height detected by the height sensors installed at the rear of the vehicle and on information of the vehicle speed and acceleration output from the VSC system which operates the reflector with the obtained illuminating angle through actuators in order to always keep the beam axis constant.

If an error occurs in this system, the headlight beam level control warning light in the combination meter lights up and warning buzzer goes on to warn the driver.

: Parts Location

Co	ode	See Page	Code		See Page	Code		See Page
В7	С	48	H	12	49	J10		50
С	10	49	H	18	53	S7	Α	51
С	11	49	J5		50	S8	В	51
)1	49	J	6	50	S9	С	51
F	11	46	J7	А	50	S10	D	51
H2		46	J8	В	50			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

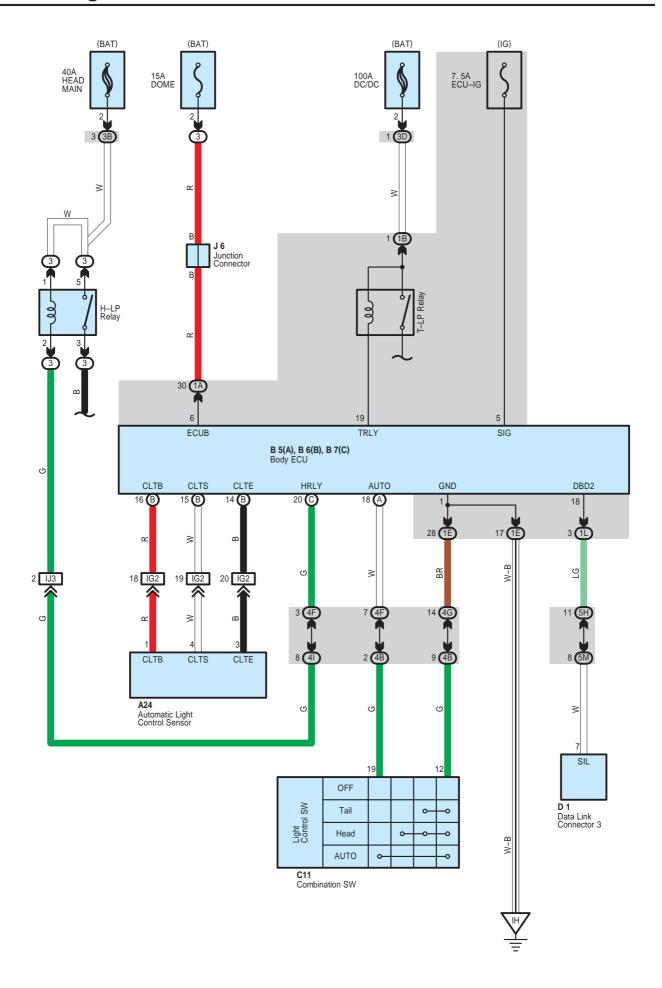
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E		
1F	30	
1G		Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L	31	
1M] 31	
3B	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
4B		
4C		
4F	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)
4G] 30	instrument and whe and denter define to two. I (behind the definition weter)
4H		
41		
5D		
5H	42	
5K		Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)
5L] 74	instrument and wire and benter connector No.2 (instrument)
5M		
5N		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IA3	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)			
IC1	58	Engine Room Main Wire and Floor Wire (Cowl Side Panel LH)			
IG1	59	strument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)			
IG2	39	institution to and institution to aller 140.2 while (Define the Combination Meter)			
IJ3	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)			



Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH
II	58	Instrument Panel Brace LH
IK	58	Cowl Side Panel RH



The automatic light control system works when the light control SW is turned to AUTO. The automatic light control sensor detects the brightness around the vehicle. By this function, the system automatically turns on the taillight and headlight if the brightness is below the certain level and turns off the taillight and headlight when the surroundings become brighter than the certain level.

: Parts Location

Co	ode	See Page	Code		See Page	Code	See Page
A	24	48	B7	С	48	J6	50
B5	Α	48	C,	11	49		
B6	В	48	D		49		

: Relay Blocks

	Code	See Page	Relay Blocks (Relay Block Location)			
ſ	3	22	Engine Room R/B (Engine Compartment Left)			

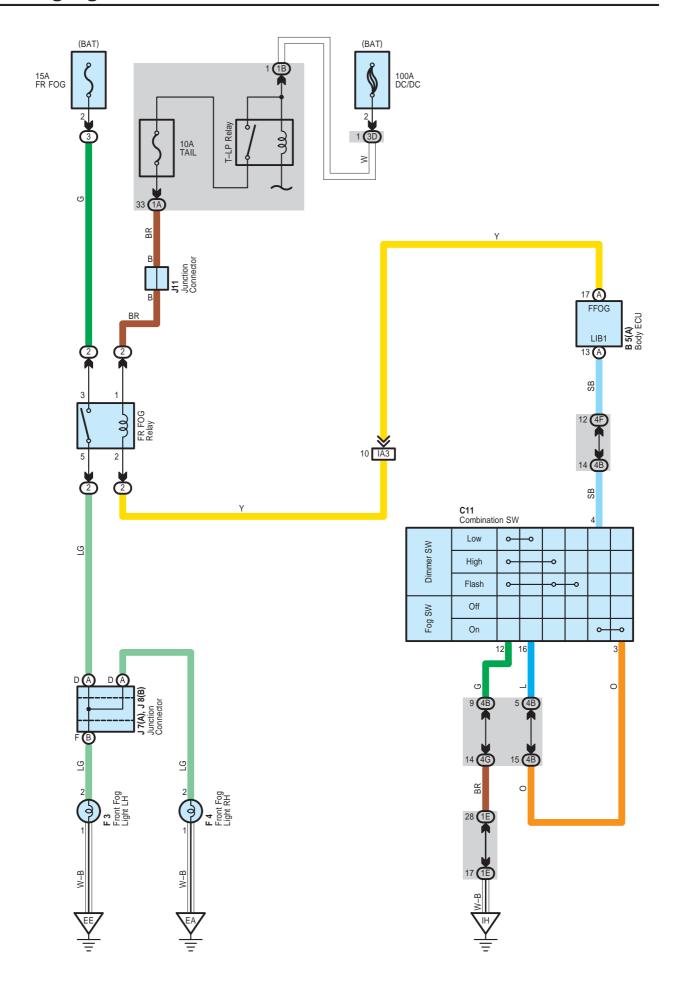
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)		
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)		
1B	30	Linging Noom Main wife and Driver Side 3/D (Lower Fillish Faller)		
1E	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)		
1L	31	This turner trainer whe and briver olde orb (Lower Fillian Faller)		
3B	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)		
3D	23	Linguise Noon Main wife and Engine Noon 3/D (Engine Compartment Left)		
4B				
4F	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)		
4G	30			
41				
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)		
5M	744	Instrument Famer wire and Center Connector No.2 (Instrument Famer Brace RH)		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	oining Wire Harness and Wire Harness (Connector Location)			
IG2	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)			
IJ3	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)			

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH



: Parts Location

Co	ode	See Page	Code		See Page	Code	See Page
B5	А	48	F	4	46	J11	50
С	:11	49	J7	Α	50		
F	-3	46	J8	В	50		

: Relay Blocks

Code	See Page	elay Blocks (Relay Block Location)			
2	28	gine Room R/B No.2 (Right Side of Reserve Tank)			
3	22	Engine Room R/B (Engine Compartment Left)			

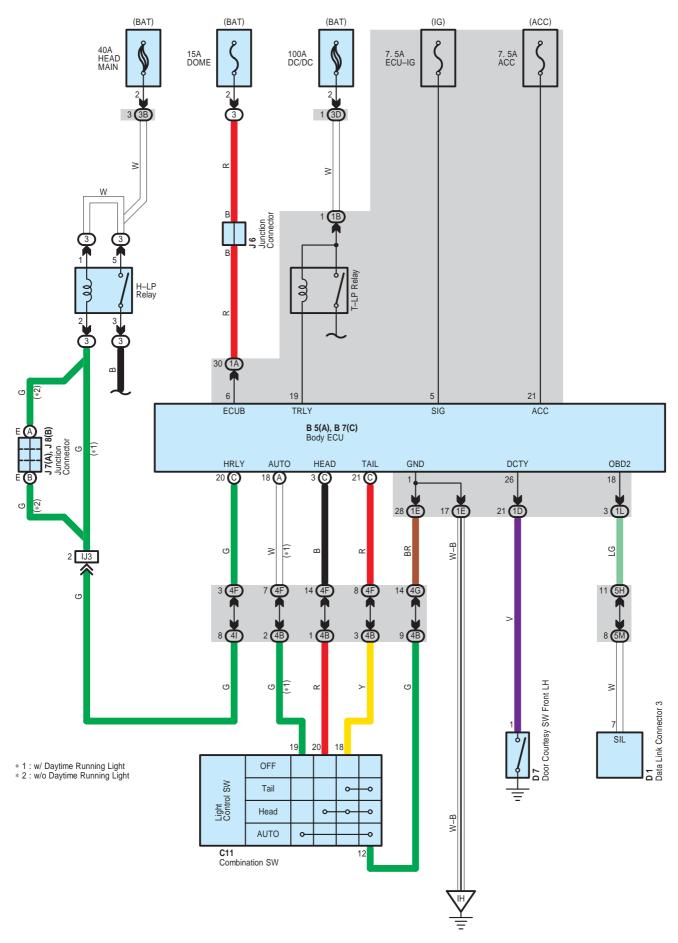
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1B	30	Engine Room Main Wire and Dirver Side 3/b (Lower Fillish Faller)
1E	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
3D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
4B		
4F	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)
4G		

: Connector Joining Wire Harness and Wire Harness

	Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
1	IA3	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)	

Code	See Page	Ground Points Location	
EA	56	Right Side of the Fender Apron	
EE	56	Left Side of the Suspension Tower	
IH	58	Cowl Side Panel LH	



"The light auto turn off system" automatically turns off the taillights or headlights when the driver's side door is opened, which prevents the lights from being left on.

If the power SW is pushed to OFF from IG ON with the headlights or taillights on, signal is input to the TERMINAL SIG of the body ECU. If the driver's side door is opened at that time, the signal from the door courtesy SW front LH is sent to the TERMINAL DCTY of the body ECU. The signal turns off the headlights, front fog lights or taillights.

: Parts Location

Code		See Page	Code	See Page	Code		See Page
B5	Α	48	D1	49	J7	Α	50
B7	С	48	D7	52	J8	В	50
C11		49	J6	50			

Relay Blocks

	Code	See Page	Relay Blocks (Relay Block Location)
Ī	3	22	Engine Room R/B (Engine Compartment Left)

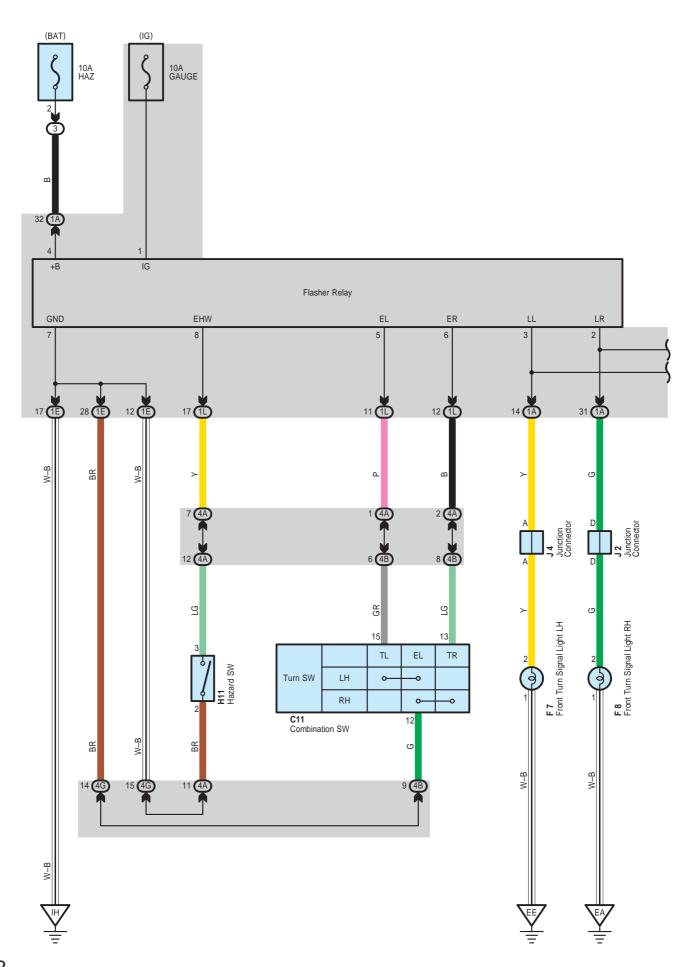
: Junction Block and Wire Harness Connector

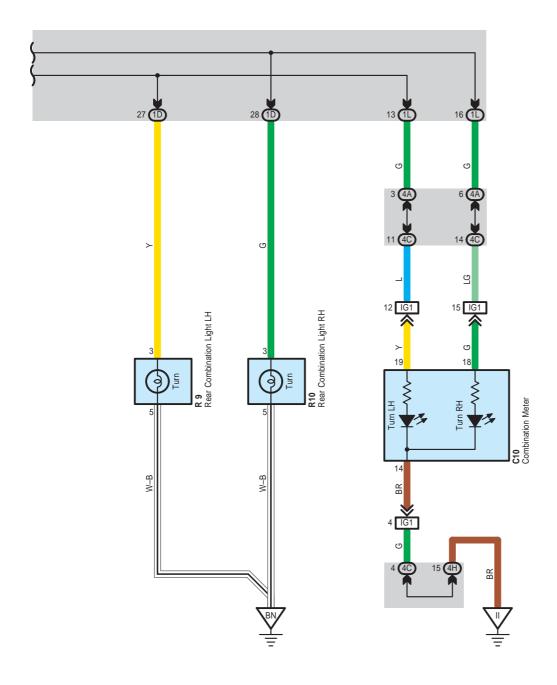
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)			
1B	30	Lingine Room Main Wire and Driver Side 3/D (Lower Fillish Faller)			
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)			
1E	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)			
1L	31	istitument Fanet ville and Driver Side 3/D (Lower Fillish Fanet)			
3B	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
3D	23				
4B					
4F	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)			
4G	36				
41	7				
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)			
5M] 44	instrument Paner vviie and Genter Connector No.2 (instrument Paner Brace KH)			

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IJ3	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH





Turn Signal and Hazard Warning Light

O : Parts Location

Code	See Page	Code	See Page	Code	See Page
C10	49	F8	46	J4	47
C11	49	H11	49	R9	54
F7	46	J2	47	R10	54

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

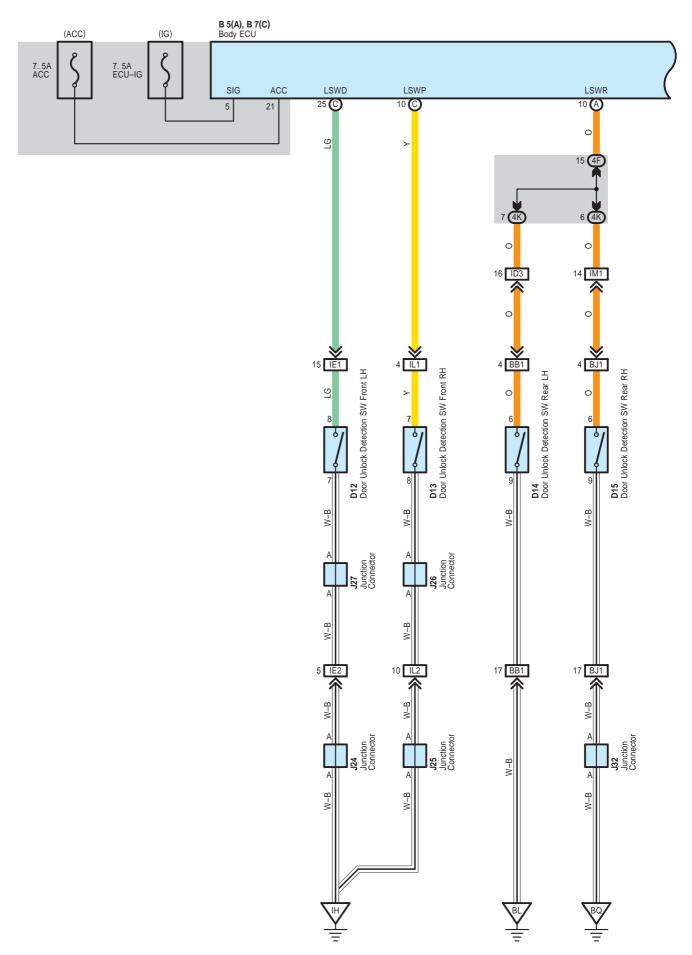
: Junction Block and Wire Harness Connector

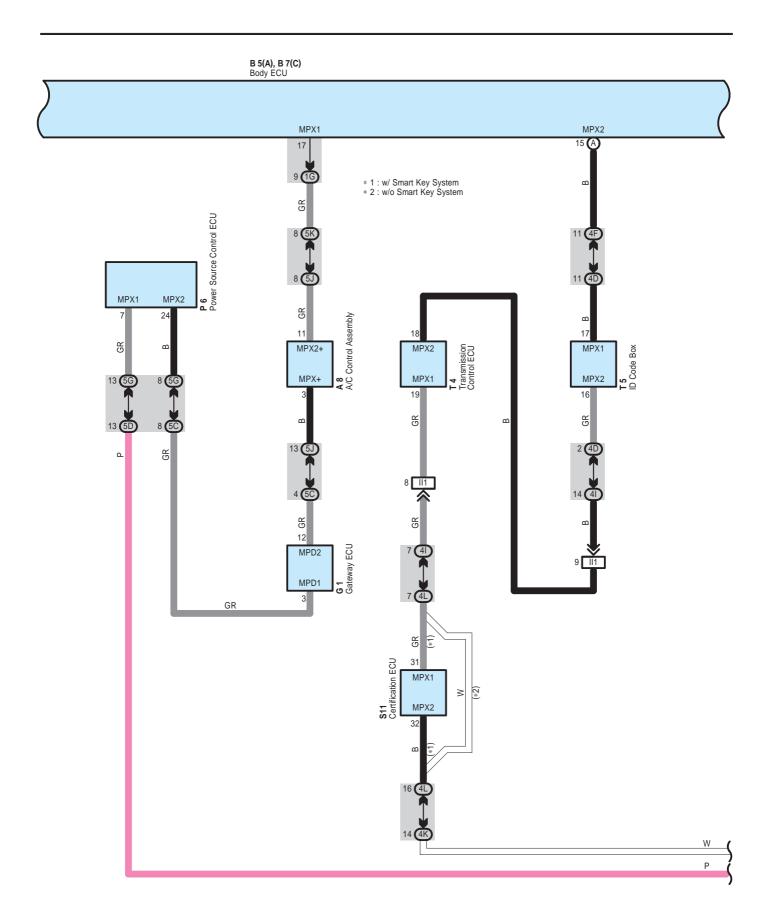
Code	See Page	Junction Block and Wire Harness (Connector Location)		
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)		
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)		
1E	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)		
1L	31	Institution of a field white and briver side 3/b (Lower Finish Faller)		
4A				
4B				
4C	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)		
4G				
4H				

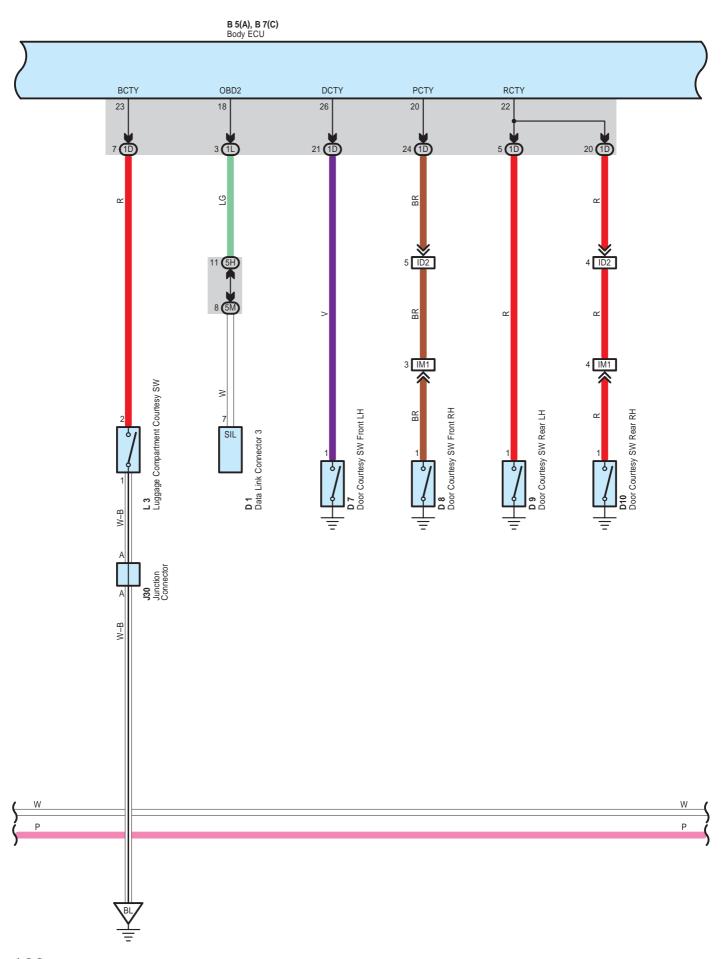
: Connector Joining Wire Harness and Wire Harness

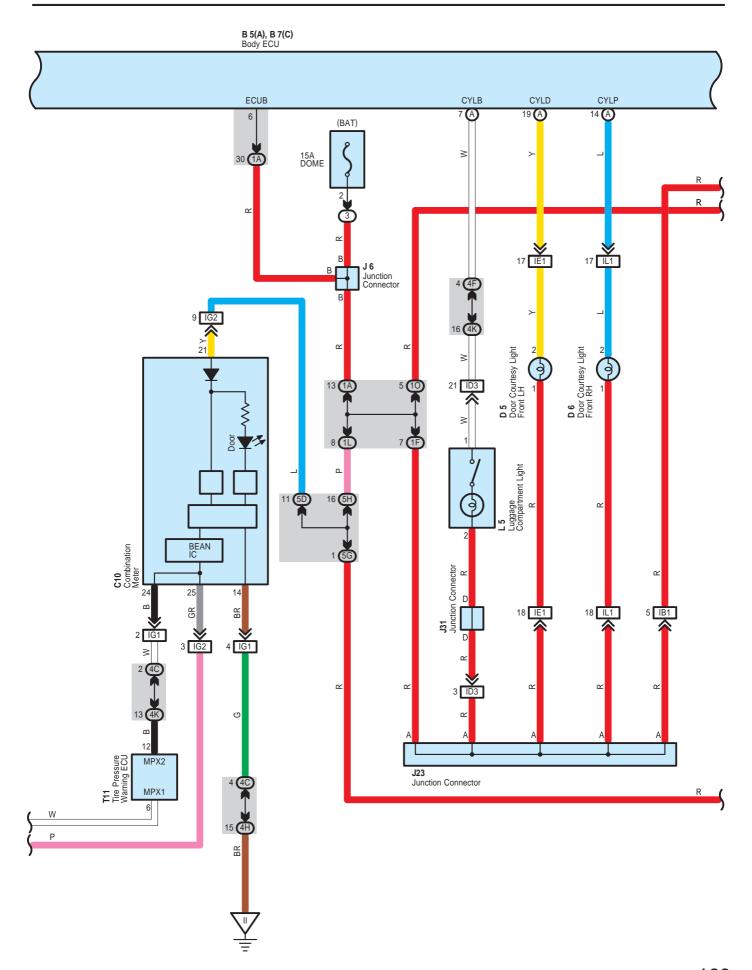
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)

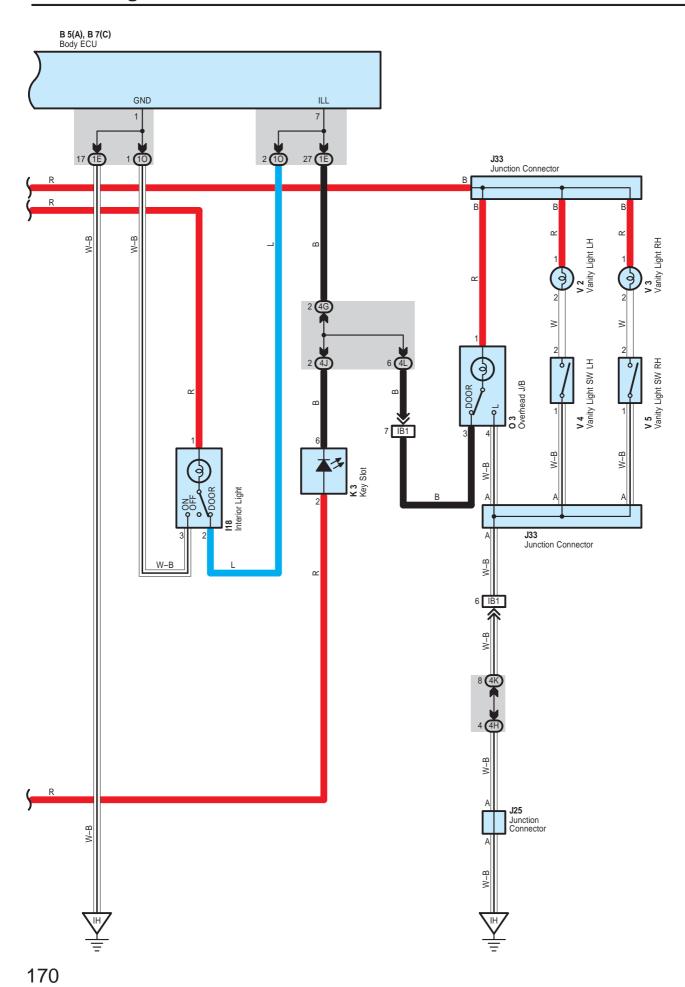
Code	See Page	Ground Points Location			
EA	56	Right Side of the Fender Apron			
EE	56	Left Side of the Suspension Tower			
IH	58	Cowl Side Panel LH			
II	58	Instrument Panel Brace LH			
BN	60	Lower Back Panel Center			











Interior light operates with control of body ECU.

Illumination Control

Lighting function of interior light, overhead J/B, electrical key holder

When any door is opened, signal is sent from door courtesy SW to body ECU. Interior light, overhead J/B and key slot light on gradually from unlit condition to fully lit condition within 1.5 seconds if lighting SW of interior light and overhead J/B is set for door.

After that, when all the doors are shut and any one of the door is unlocked, interior light, overhead J/B and key slot are lit up for about 15 seconds (Timer lighting) and then are lit off gradually.

Under conditions that power SW is set at OFF position and all the doors are closed, when any one of the door is unlocked, interior light, overhead J/B and key slot light on gradually from unlit condition to fully lit condition within 1.5 seconds, stay on for the certain time (Timer lighting) and then light off gradually. If power SW is turned from OFF position to ACC ON or IG ON position during timer lighting, the timer lighting function is cut off immediately and the light goes off gradually.

Even though timer lighting conditions are satisfied when power SW is at ACC ON or IG ON position, the light does not stay on for certain time (For 15 sec.) after lighting, but goes off gradually.

All the doors are locked during timer lighting, the timer lighting function is cut off immediately and the light goes off gradually.

: Parts Location

Co	de	See Page	Code	See Page	Code	See Page	
А	.8	48	D15	52	L3	53	
B5	B5 A 48		G1	49	L5	53	
В7	С	48	l18	53	O3	54	
C.	10	49	J6	50	P6	51	
D	1	49	J23	50	S11	51	
D	5	52	J24 50 T4 51		51		
D	6	52	J25	50	T5	51	
D	D7 52		J26	53	T11	51	
D8		52	J27	53	V2	55	
D	D9 52		J30	53	V3	55	
D.	10	52	J31	53	V4	55	
D.	12	52	J32	53	V5	55	
D.	D13 52		J33	53			
D.	14	52	K3	50			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

Interior Light

0

: Junction Block and Wire Harness Connector

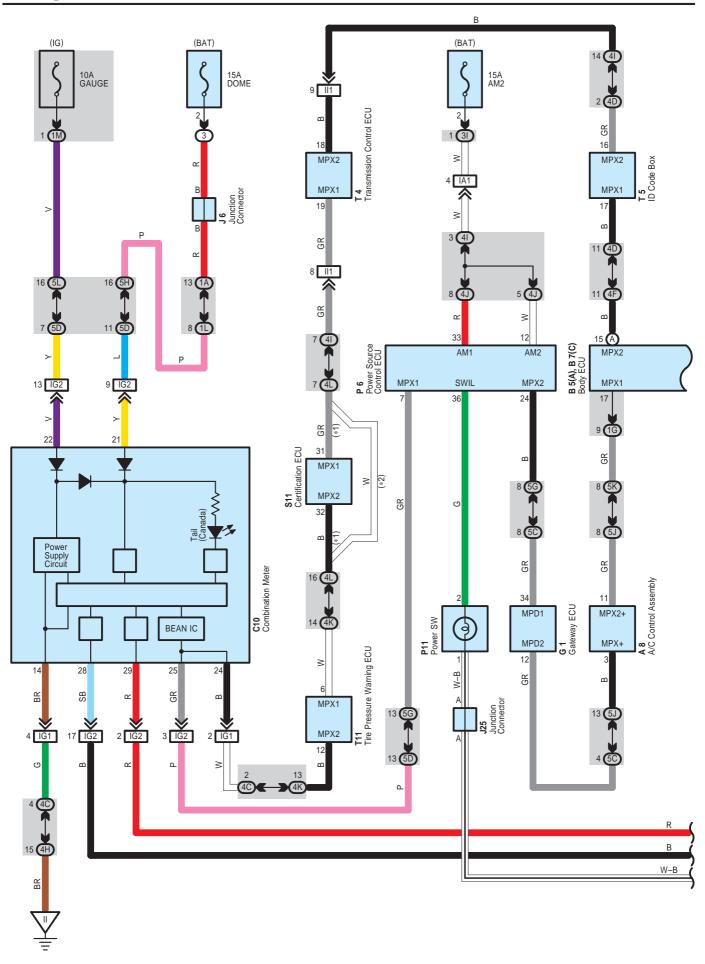
Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)				
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)				
1E						
1F	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)				
1G		instrument ratio ville and Driver Side 3/D (Lower Fillish ratio)				
1L	31					
10	30	Roof Wire and Driver Side J/B (Lower Finish Panel)				
4C						
4D						
4F						
4G	_					
4H	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)				
41	_					
4J	_					
4K	_					
4L						
5C	_					
5D	1					
5G	_					
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)				
5J	1					
5K	1					
5M						

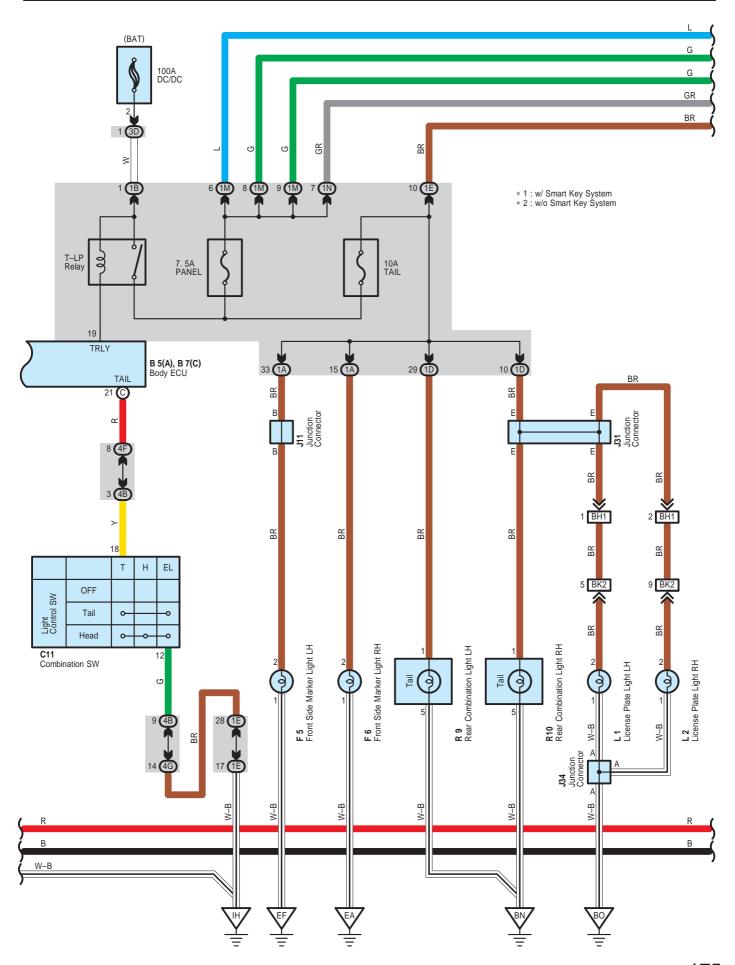
: Connector Joining Wire Harness and Wire Harness

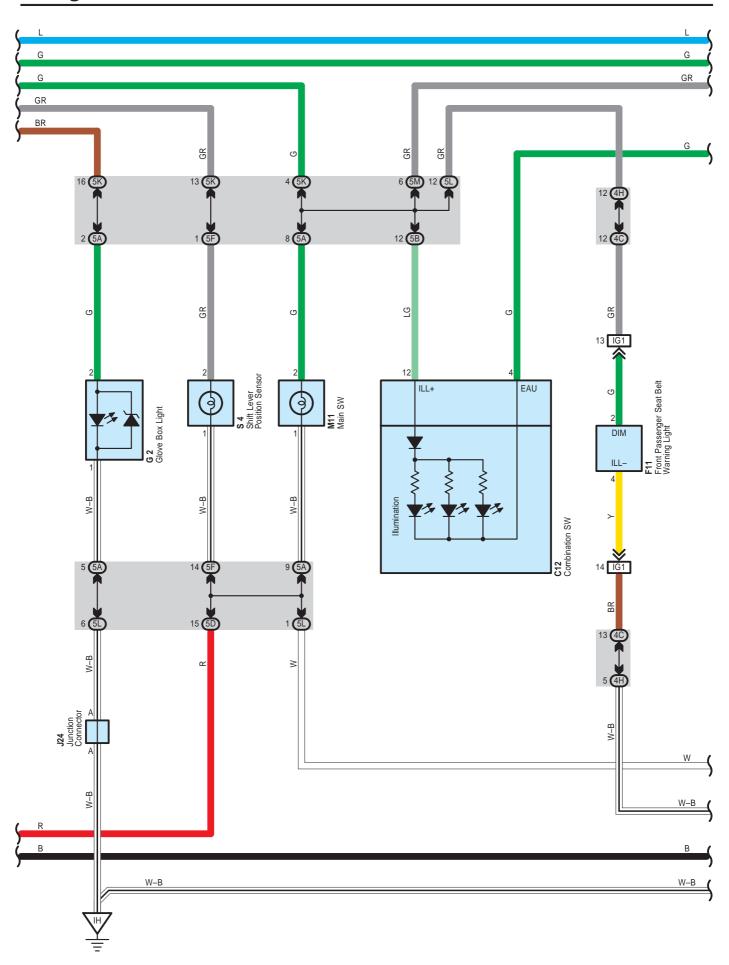
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IB1	58	Roof Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)			
ID2	- 58	Instrument Panel Wire and Floor Wire (Left Kick Panel)			
ID3	1 30				
IE1	- 58	Front Door LH Wire and Instrument Donal Wire (Left Kick Bonel)			
IE2	30	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)			
IG1	- 59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)			
IG2					
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)			
IL1	- 59	Front Door PH Wire and Instrument Panel Wire (Pight Kick Panel)			
IL2] 39	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)			
IM1	59	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)			
BB1	60	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)			
BJ1	61	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)			

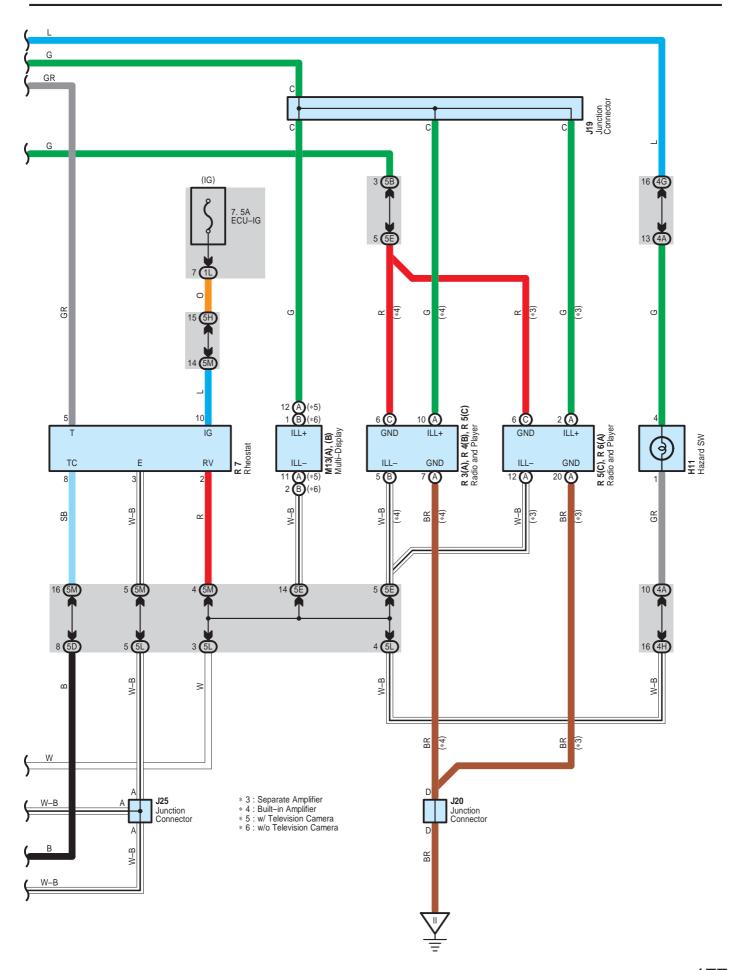
∇

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH
II	58	Instrument Panel Brace LH
BL	60	Rear Side of Left Quarter Panel
BQ	60	Rear Side of Right Quarter Panel









Taillight and Illumination

O : Parts Location

Co	ode	See Page	Co	de	See Page	Code		See Page
Α	۸8	48	J11		50	P11		51
B5	А	48	J.	19	50	R3	Α	51
B7	С	48	J2	20	50	R4	В	51
C	10	49	J2	24	50	R5	С	51
С	11	49	J2	25	50	R6	Α	51
C	12	49	J31		53	R7		51
F	F5 46		J34		53	R	9	54
F	6	46	L	.1	53	R′	10	54
F.	11	49	L2 53 S4		4	51		
G	§1	49	М	11	50	S11		51
G	32	49	M13	Α	50	Т	4	51
Н	11	49	1 10113	В	50	Т	5	51
J6		50	Р	6	51	T11		51

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

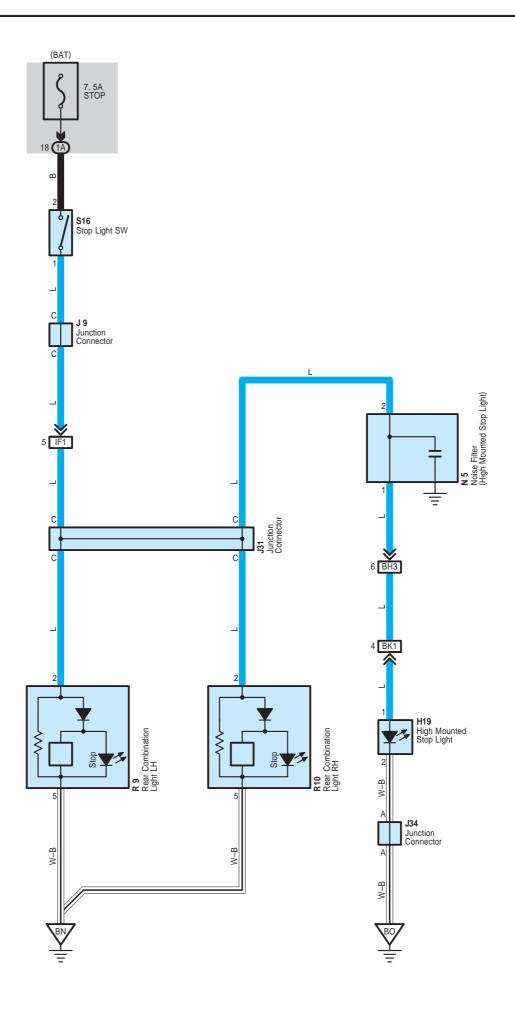
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1B		
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)
1E	30	
1G	-	
1L		Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1M	31	
1N		
3D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
31	24	
4A		Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)
4B	38	
4C 4D		
45 4F		
4G		
4H		
41		
4J		
4K		
4L		
5A		
5B		
5C		
5D	1	
5E	42	
5F		Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)
5G		Instrument Paner Wire and Center Connector No.2 (Instrument Paner Brace RH)
5H		
5J		
5K		
5L		
5M		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)
IG1	- 59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)
IG2		
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
BH1	61	Back Door No.1 Wire and Floor Wire (Rear Side of Roof Panel)
BK2	61	Back Door No.1 Wire and Back Door No.2 Wire (Rear Side of Roof Panel)

Code	See Page	Ground Points Location
EA	56	Right Side of the Fender Apron
EF	56	Left Side of the Suspension Tower
IH	58	Cowl Side Panel LH
II	58	Instrument Panel Brace LH
BN	60	Lower Back Panel Center
ВО	60	Center of the Back Door Panel



: Parts Location

Code	See Page	Code	See Page	Code	See Page
H19	53	J34	53	R10	54
J9	50	N5	54	S16	51
J31	53	R9	54		

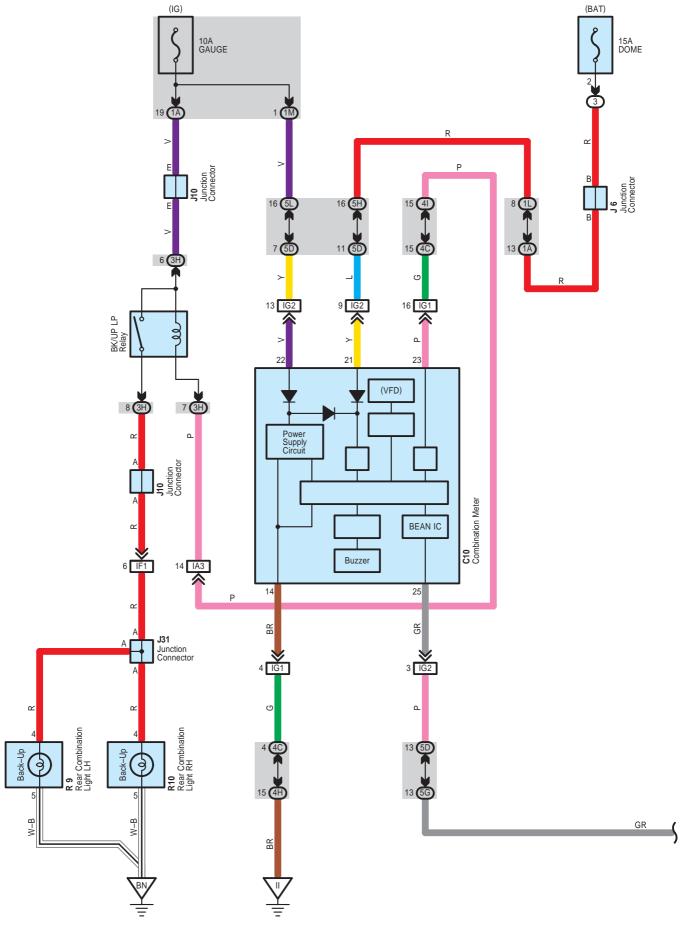
: Junction Block and Wire Harness Connector

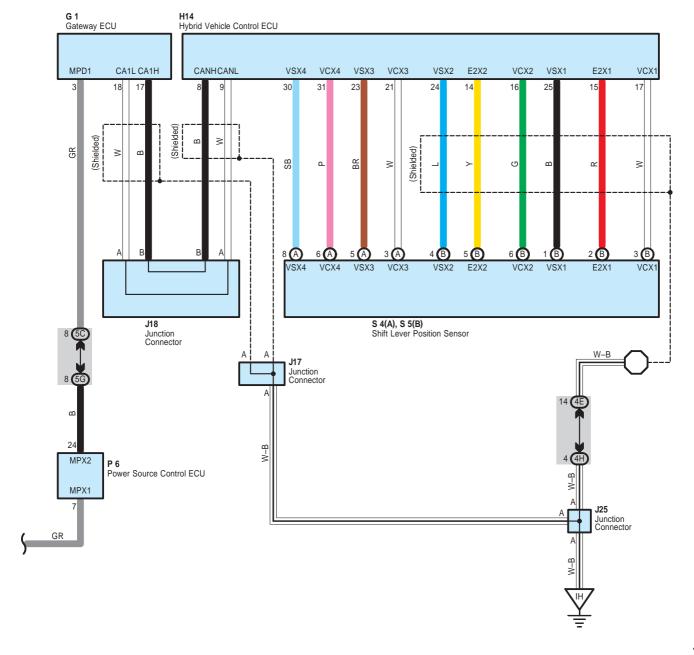
Code	See Page	Junction Block and Wire Harness (Connector Location)	
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)	

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IF1	IF1 58 Floor Wire and Engine Room Main Wire (Left Kick Panel)		
BH3	Back Door No.1 Wire and Floor Wire (Rear Side of Roof Panel)		
BK1	BK1 61 Back Door No.1 Wire and Back Door No.2 Wire (Rear Side of Roof Panel)		

Code	See Page	Ground Points Location	
BN	60	Lower Back Panel Center	
ВО	60	Center of the Back Door Panel	





Back-Up Light

O : Parts Location

Code	See Page	Code	See Page	Co	de	See Page
C10	49	J17	50	R	9	54
G1	49	J18	50	R ²	10	54
H14	49	J25	50	S4	Α	51
J6	50	J31	53	S5	В	51
J10	50	P6	51			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)	
3	22	Engine Room R/B (Engine Compartment Left)	

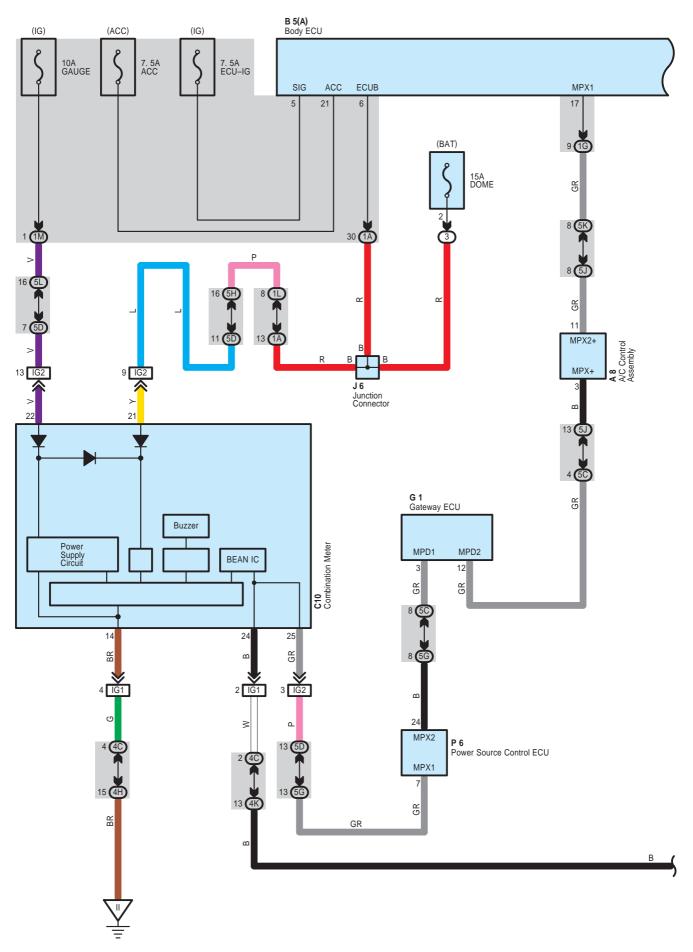
: Junction Block and Wire Harness Connector

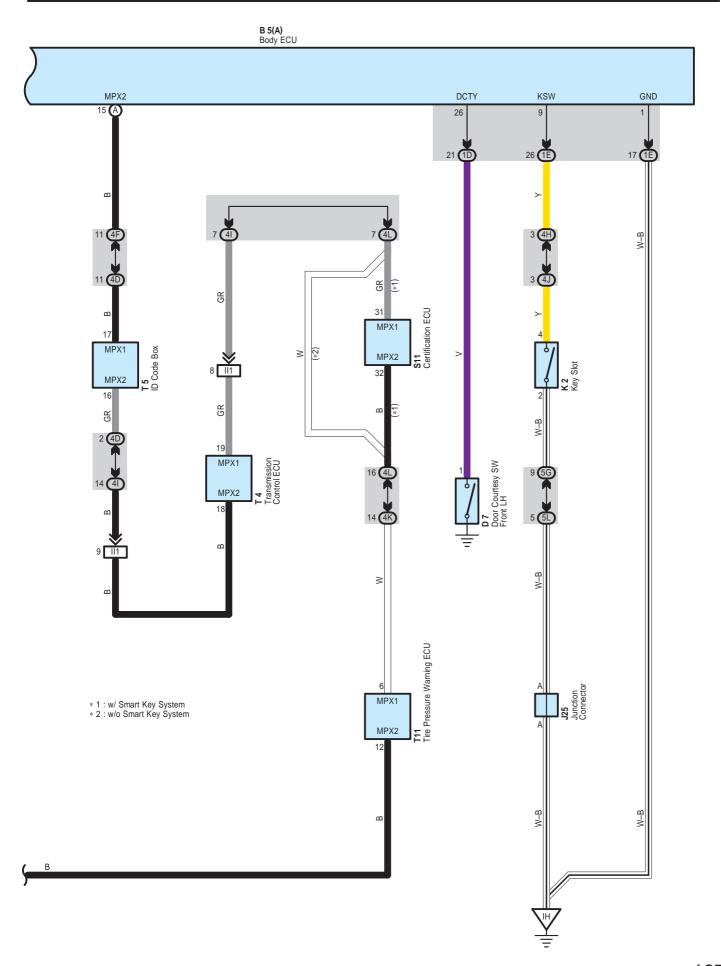
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)			
1L	31	Instrument Denel Wire and Driver Cide I/D / awar Cinich Denel			
1M	731	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)			
3H	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
4C					
4E	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)			
4H	30				
41					
5C					
5D	7				
5G	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)			
5H					
5L					

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)		
IA3	IA3 58 Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)			
IF1	58	Floor Wire and Engine Room Main Wire (Left Kick Panel)		
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)		
IG2	39	Instrument Paner wire and instrument Paner No.2 wire (Benind the Combination Meter)		

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH
II	58	Instrument Panel Brace LH
BN	60	Lower Back Panel Center





Key Reminder

System Outline

Key Reminder System

If the driver's side door is opened with the power supply set at ACC or OFF position and with the electrical key remained in the key slot, signal from key slot is input to TERMINAL KSW of body ECU and that from courtesy SW at driver's side is input to TERMINAL DCTY of body ECU. The signal from body ECU to combination meter activates warning buzzer to send a message to the driver that electrical key remains in the key slot.

: Parts Location

Co	ode	See Page	Code	See Page	Code	See Page
A8		48	J6	50	T4	51
B5	Α	48	J25	50	T5	51
С	10	49	K2	50	T11	51
D7		52	P6	51		
G1		49	S11	51		

: Relay Blocks

	Code	See Page	Relay Blocks (Relay Block Location)	
Г	3	22	Engine Room R/B (Engine Compartment Left)	

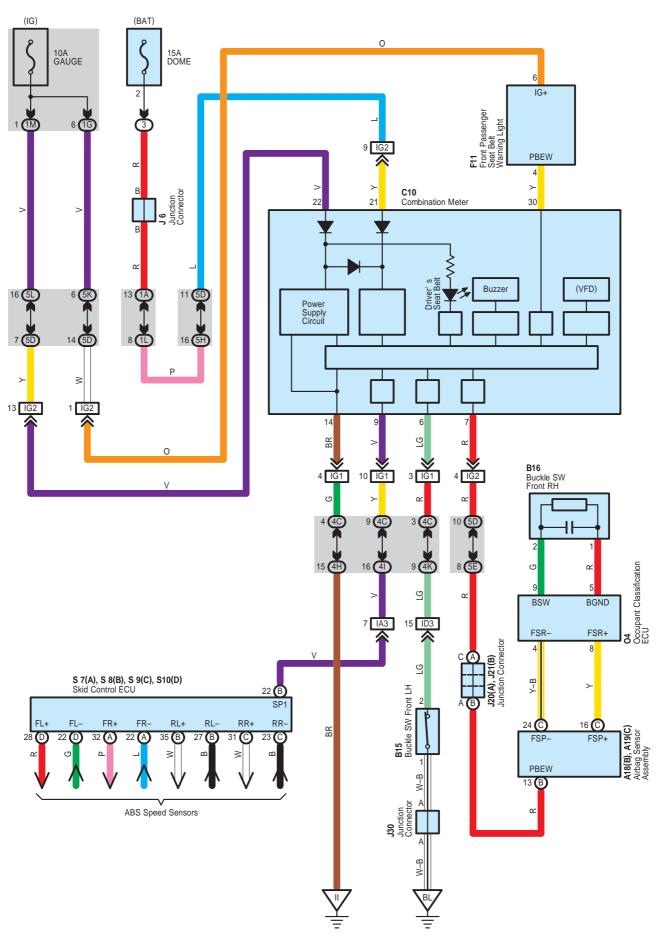
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)				
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)				
1E	- 30					
1G	1 30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)				
1L	- 31					
1M]]					
4C						
4D]					
4F]	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)				
4H	38					
41						
4J						
4K						
4L						
5C	42					
5D						
5G						
5H		Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)				
5J						
5K						
5L						

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)	
IG2	1 39	instrument and wife and instrument and two.2 wife (Define the Combination Weter)	
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)	

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH
П	58	Instrument Panel Brace LH



If the driver does not have seat belt fastened when power SW is turned to IG ON position, the indicator in combination meter lights up. Buzzer sound for 6 seconds reminds the driver of seat belt fastening. After that, if seat belt has not been fastened yet, another buzzer sound goes on for 30 seconds when vehicle speed is 15 km/h or more. The buzzer sound also goes on when the driver unfastens seat belt from fastening condition with vehicle speed over 15 km/h.

Sensor installed in front passenger seat detects whether passenger(s) is(are) seated on front passenger seat(s). If a passenger does not have seat belt fastened in front seat, passenger seat belt warning light blinks.

: Parts Location

Code		See Page	Code		See Page	Code		See Page
A18	В	48	F1	11	49	С	4	54
A19	С	48	J	6	50	S7	Α	51
B ²	15	52	J20	Α	50	S8	В	51
B ²	16	52	J21	В	50	S9	С	51
C10		49	J30		53	S10	D	51

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)			
3	22	Engine Room R/B (Engine Compartment Left)			

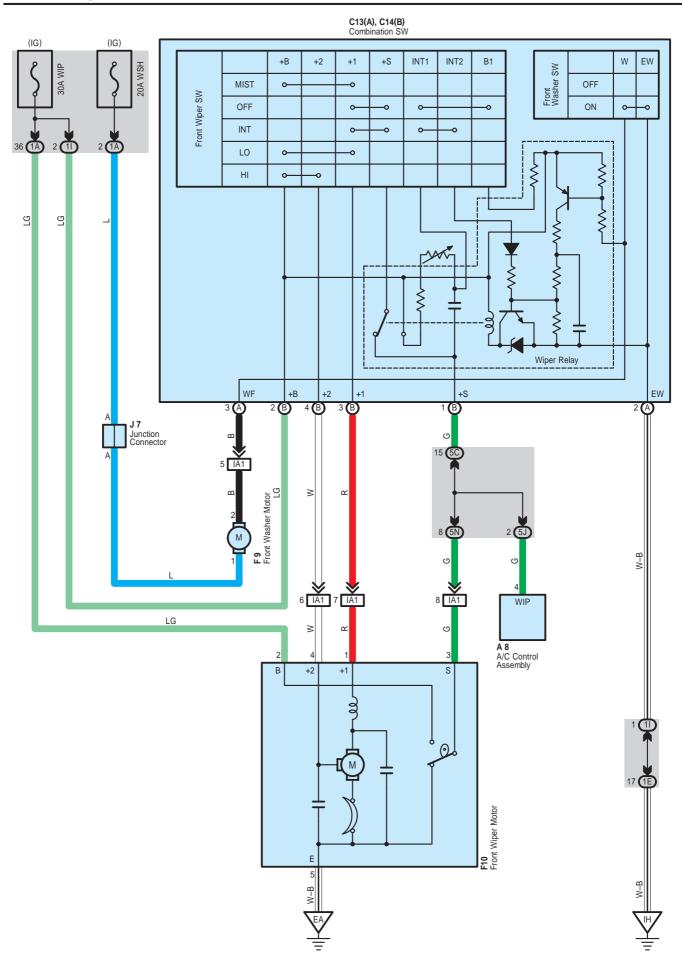
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)				
1G	30					
1L	31	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)				
1M						
4C						
4H	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)				
41	30					
4K]					
5D						
5E]					
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)				
5K	1					
5L	1					

: Connector Joining Wire Harness and Wire Harness

Code	See Page	ining Wire Harness and Wire Harness (Connector Location)				
IA3	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)				
ID3	58	strument Panel Wire and Floor Wire (Left Kick Panel)				
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)				
IG2	39	Institution the and institution ratio No.2 wire (behind the combination weter)				

	Code	See Page	round Points Location			
Ī	II	58	nstrument Panel Brace LH			
Ī	BL	60	ear Side of Left Quarter Panel			



With the power SW pushed to IG ON position, the current flows to TERMINAL (B) 2 of the wiper and washer SW, and TERMINAL 2 of the front wiper motor through the WIP fuse.

1. Low Speed Position

With the wiper and washer SW turned to LO position, the current flows from TERMINAL (B) 2 of the wiper and washer SW to TERMINAL (B) 3 to TERMINAL 5 of the front wiper motor to TERMINAL 4 to GROUND, which runs the front wiper motor at low speed.

2. High Speed Position

With the wiper and washer SW turned to HI position, the current flows from TERMINAL (B) 2 of the wiper and washer SW to TERMINAL (B) 4 to TERMINAL 3 of the front wiper motor to TERMINAL 4 to GROUND, which runs the front wiper motor at high speed.

3. INT Position

With the wiper and washer SW turned to INT position, the wiper relay operates and current flows from TERMINAL (B) 2 of the wiper and washer SW to TERMINAL (A) 2 to GROUND. This activates the intermittent circuit and the current flows from TERMINAL (B) 2 of the wiper and washer SW to TERMINAL (B) 3 to TERMINAL 5 of the front wiper motor to TERMINAL 4 to GROUND and then the wiper operates. Intermittent operation is controlled by a condenser's charge and discharge function in the relay.

4. Washer Interlocking Operation

With the wiper and washer SW pulled to washer position (Washer SW ON position), the current flows from the WSH fuse to TERMINAL 1 of the front washer motor to TERMINAL 2 to TERMINAL (A) 3 of the wiper and washer SW to TERMINAL (A) 2 to GROUND and runs the washer motor and the window washer to spray. Simultaneously, current flows from the WIP fuse to TERMINAL (B) 2 of the wiper and washer SW to TERMINAL (B) 3 to TERMINAL 5 of the front wiper motor to TERMINAL 4 to GROUND, which activates the wiper.

) : Parts Location

Code		de	See Page	Code		See Page	Code	See Page
	A8		48	C14	В	49	F10	46
ſ	C13	Α	49	F	9	46	J7	50

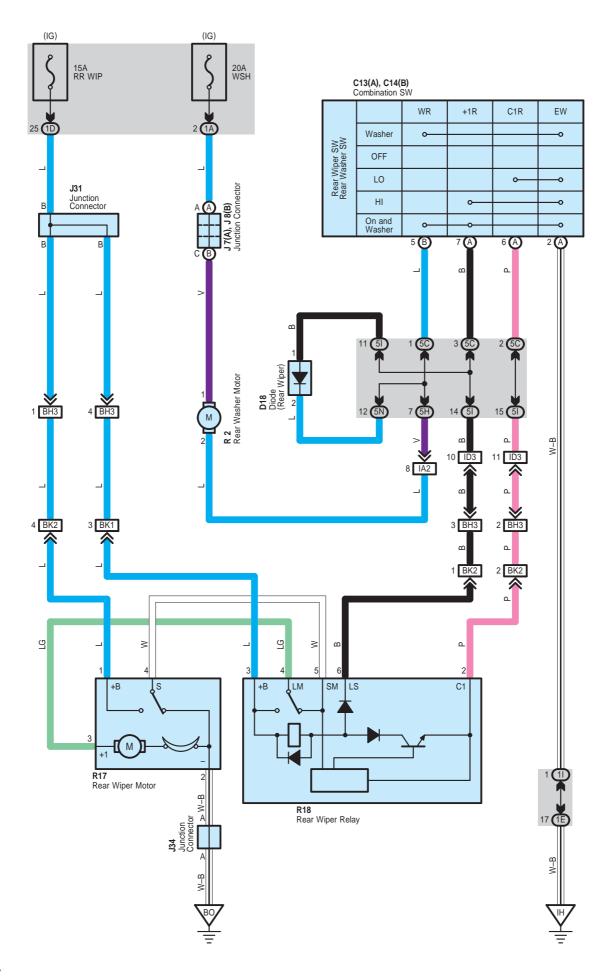
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	30	ngine Room Main Wire and Driver Side J/B (Lower Finish Panel)				
1E	30	nstrument Panel Wire and Driver Side J/B (Lower Finish Panel)				
11	30	Institutient Pariet Wile and Driver Side 3/B (Lower Phristi Pariet)				
5C						
5J	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)				
5N						

: Connector Joining Wire Harness and Wire Harness

	Code	ode See Page Joining Wire Harness and Wire Harness (Connector Location)			
Ī	IA1	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)		

Code	See Page	Ground Points Location			
EA	56	light Side of the Fender Apron			
IH	58	Cowl Side Panel LH			



When the power SW is pushed to IG ON position, the current flows from the WSH fuse to rear washer motor TERMINAL 1, and the current flows from the RR WIP fuse to rear wiper relay TERMINAL 3, and to the rear wiper motor TERMINAL 1 respectively.

1. Rear Wiper Normal Operation

When the power SW is pushed to IG ON position, and the rear wiper and washer SW is turned to HI position, the current flows from the rear wiper relay TERMINAL 3 to TERMINAL 6 to the rear wiper and washer SW TERMINAL (A) 7 to TERMINAL (A) 2 to GROUND, and turns on the rear wiper relay. As a result, the current flows from the rear wiper relay TERMINAL 3 to TERMINAL 4 to the rear wiper motor TERMINAL 3 to TERMINAL 2 to GROUND, and operates the rear wiper.

2. Rear Wiper Intermittent Operation

When the power SW is pushed to IG ON position, and the rear wiper and washer SW is turned to LO position, the current flows from the rear wiper relay TERMINAL 3 to TERMINAL 2 to the rear wiper and washer SW TERMINAL (A) 6 to TERMINAL (A) 2 to GROUND, and the intermittent circuit in the rear wiper relay is controlled to operate the wiper intermittently.

3. Washer Operation

With the power SW is pushed to IG ON position, and the rear wiper and washer SW turned to ON position, when the washer is turned ON (to Wiper HI side), current to TERMINAL 1 of the washer motor flows to TERMINAL 2 of the motor to TERMINAL 5 of the rear wiper and washer SW to TERMINAL 2 to GROUND so that the washer motor rotates and the window washer emits water.

With the power SW is pushed to IG ON position, and the rear wiper and washer SW turned to OFF position, when the washer is turned ON (to Wiper OFF side), current flows as above so that the washer motor rotates and the window washer emits water as well as the wiper operates.

: Parts Location

Code		See Page	Code		See Page	Code	See Page
C13	Α	49	J8	В	50	R17	54
C14	В	49	J31		53	R18	54
D.	D18 49		J3	34	53		
J7	Α	50	R	2	47		

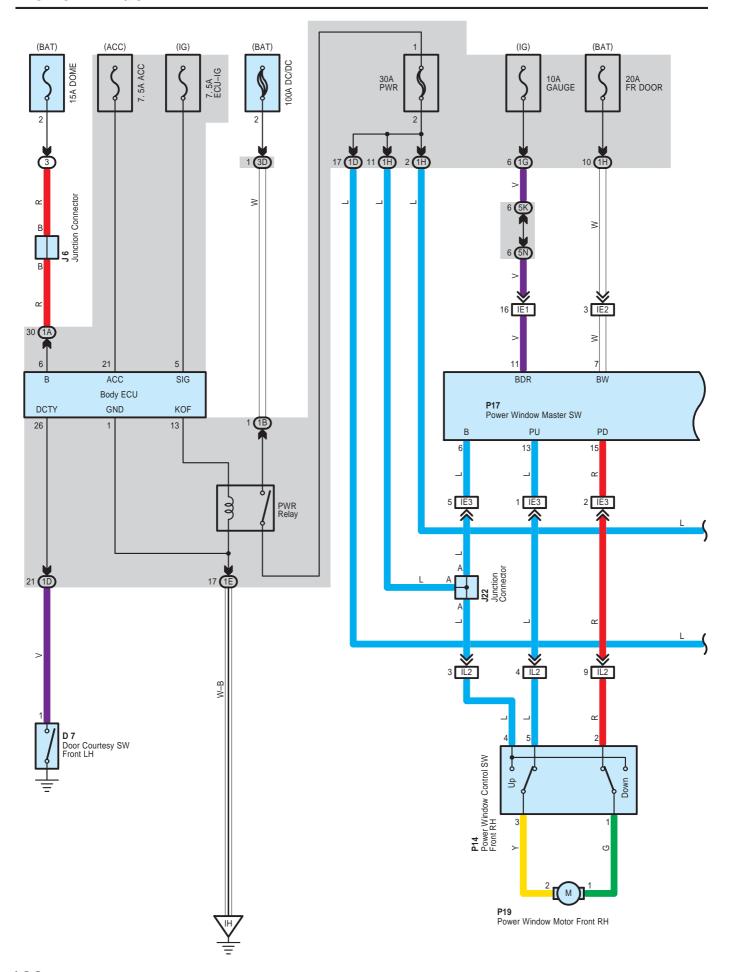
: Junction Block and Wire Harness Connector

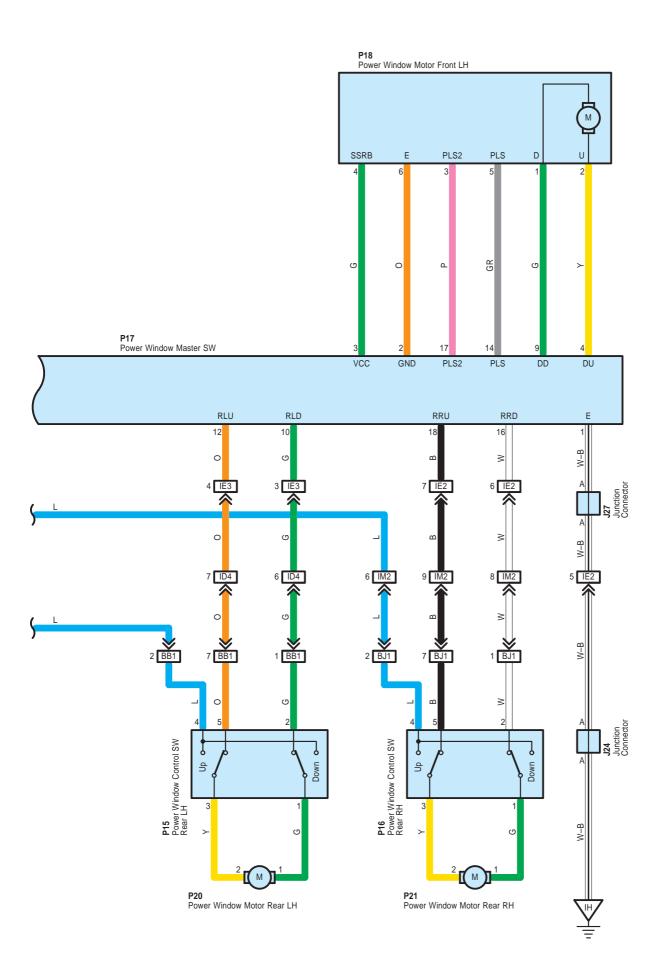
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)
1E	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
11	30	instrument and wife and briver side 3/b (Lower i linstrand)
5C		
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)
51		
5N		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)
ID3	58	Instrument Panel Wire and Floor Wire (Left Kick Panel)
BH3	61	Back Door No.1 Wire and Floor Wire (Rear Side of Roof Panel)
BK1	61	Back Door No.1 Wire and Back Door No.2 Wire (Rear Side of Roof Panel)
BK2	01	Back Door No. I write and back Door No.2 write (Rear Side of Roof Panel)

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH
ВО	60	Center of the Back Door Panel





1. Manual Up and Down Function

This function operates the window to open or close while the power window switch is being pulled up or pushed down (Driver's SW should be pulled up and down halfway for manual operation.). The window stops as soon as the switch is released

2. Driver's Door One-Touch Auto Up and Down Function

"The driver's door one-touch auto up and down function" enables the window of front doors to be fully opened or closed with a touch of the power window switch.

3. Jam Protection Function (Driver's Door)

The jam protection function automatically stops the power window and moves it downward if a foreign object gets jammed in the course of the window during one–touch auto–up operation.

4. Remote Control Function

The up and down operation of the front passenger door windows and the rear door windows can be controlled by operating the power window master switch.

5. Key-Off Operation Function

For about 43 seconds after pushing OFF the power SW or opening the driver's side door, this function enables the power window master switch to operate all the door windows and enables the switch of each passenger's door to operate each window manually. Please note that the function becomes unavailable if the driver's side door is shut. (The one–touch auto up and down operation of the driver's side door is included as well)

- * When the battery terminal or fuse is disconnected, the glass position of all door windows have to be reset to the initial positions, one by one, with the power window control switch by following the procedure below:
- A) Reconnect the battery terminal or fuse.
- B) Push the power SW to IG ON position
- C) Lower the window of each door halfway or more with the power window switch.
- D) Then close the window fully with the power window switch.
 Do not release the switch for at least one second after the window is fully closed.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
D7	52	P14	54	P19	54
J6	50	P15	54	P20	54
J22	50	P16	54	P21	54
J24	50	P17	54		
J27	53	P18	54		

: Relay Blocks

	Code	See Page	elay Blocks (Relay Block Location)	
3 22 Engine Room R/B (Engine Compartment Left)				

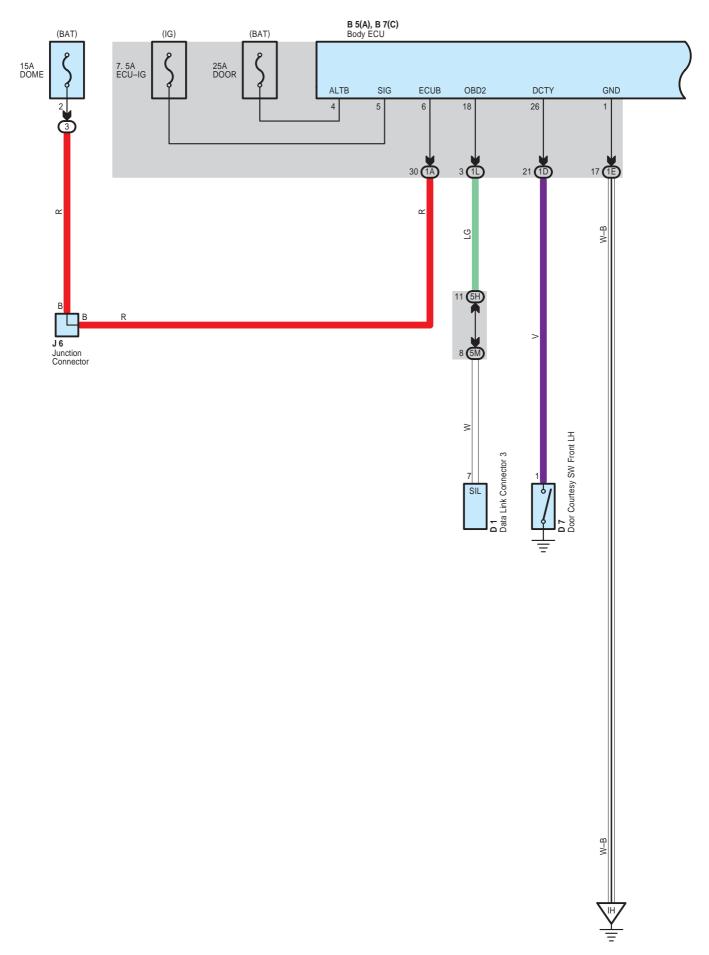
: Junction Block and Wire Harness Connector

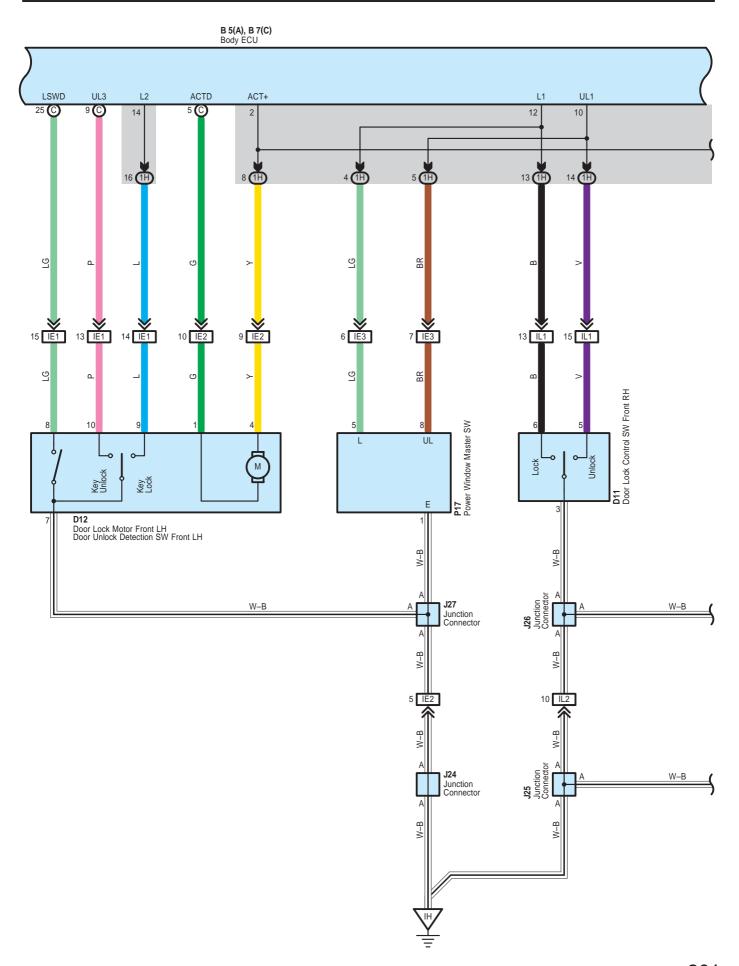
Code	See Page	Junction Block and Wire Harness (Connector Location)	
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)	
1B		Engine Room Main wire and Driver Side 3/D (Lower Fillish Father)	
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)	
1E			
1G	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)	
1H]		
3D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)	
5K	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)	
5N] 74	monument i and wire and center connector No.2 (monument raner brace NT)	

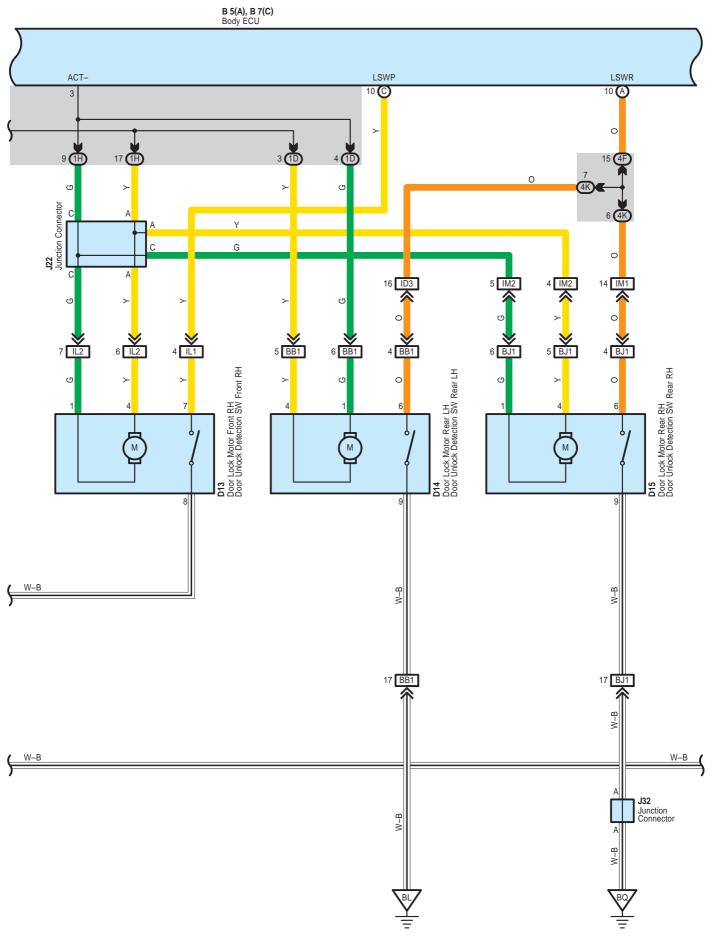
: Connector Joining Wire Harness and Wire Harness

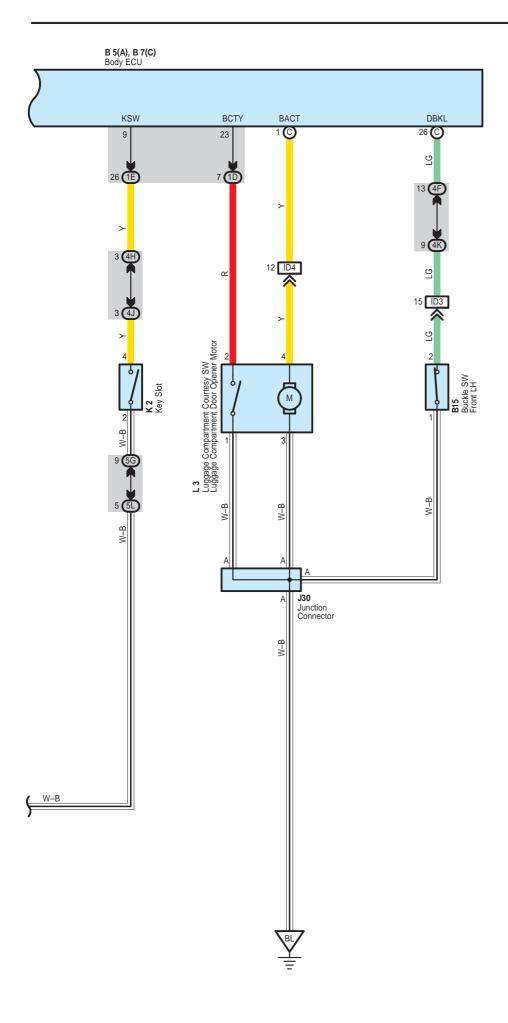
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID4	58	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IE1		
IE2	58	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE3		
IL2	59	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2	59	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
BB1	60	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
BJ1	61	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH









Door Lock Control

System Outline

The door lock control is a system controlled by various signals input into the body ECU through communication control of the body ECU etc.

1. Manual Unlock Operation

When the door lock control SW of the driver's or passenger's side door is pushed to UNLOCK, the door unlocks.

2. Manual Lock Operation

When the door lock control SW of the driver's or passenger's side door is pushed to LOCK, the door locks.

3. Door Key Unlock Operation

* Unlock operation from driver's side door

When the driver's side door is unlocked once using the mechanical key, only the driver's side door unlocks. If this operation is repeated within 3 seconds, all the other doors also unlock.

4. Ignition Key Reminder Operation

Under condition that the electrical key remains inserted in the key slot and driver's side door is open, locking operation with door knob of driver's door is not effective but automatically unlocks the door. When the door is locked with the manual door lock SW of driver's door or door key SW of driver's door, the door locks once but right after that, the door unlocks automatically.

: Parts Location

Co	de	See Page	Code	See Page	Code	See Page
B5	А	48	D13	52	J26	53
B7	С	48	D14	52	J27	53
B ⁻	15	52	D15	52	J30	53
D1		49	J6	50	J32	53
D7		52	J22	50	K2	50
D11		52	J24	50	L3	53
D12		52	J25	50	P17	54

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

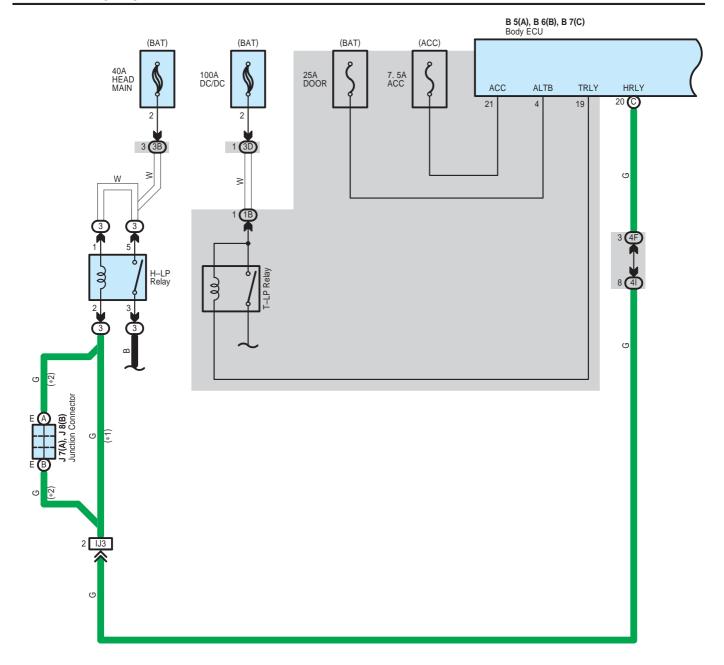
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)
1E	30	
1H	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L	31	
4F		Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)
4H	38	
4J		
4K		
5G		
5H	- - 42	Instrument Denel Wire and Center Connector No. 2 (Instrument Denel Brees RIII)
5L		Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)
5M		

: Connector Joining Wire Harness and Wire Harness

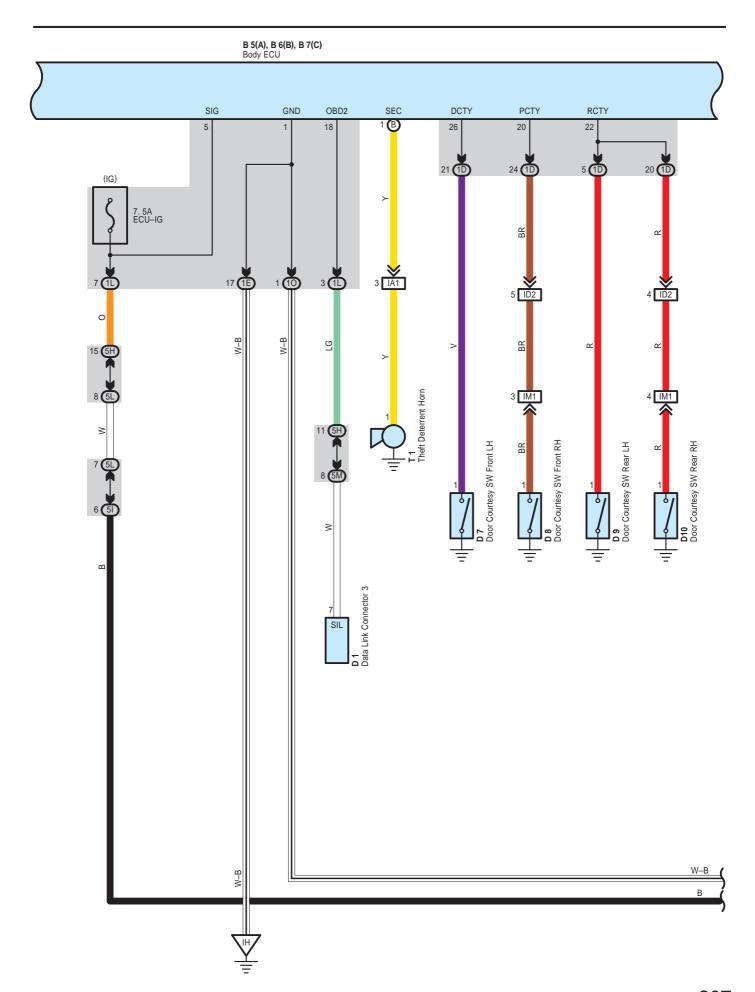
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID3	58	Instrument Panel Wire and Floor Wire (Left Kick Panel)
ID4	30	installent and wile and roof wile (Lettrick)
IE1		
IE2	58	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IE3		
IL1	59	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IL2	59	Front Door Kit wire and institution Failer wire (Kight Kick Faller)
IM1	59	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
IM2	39	institution and vide and vide invo.2 wire (Night Nok valie)
BB1	60	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
BJ1	61	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)

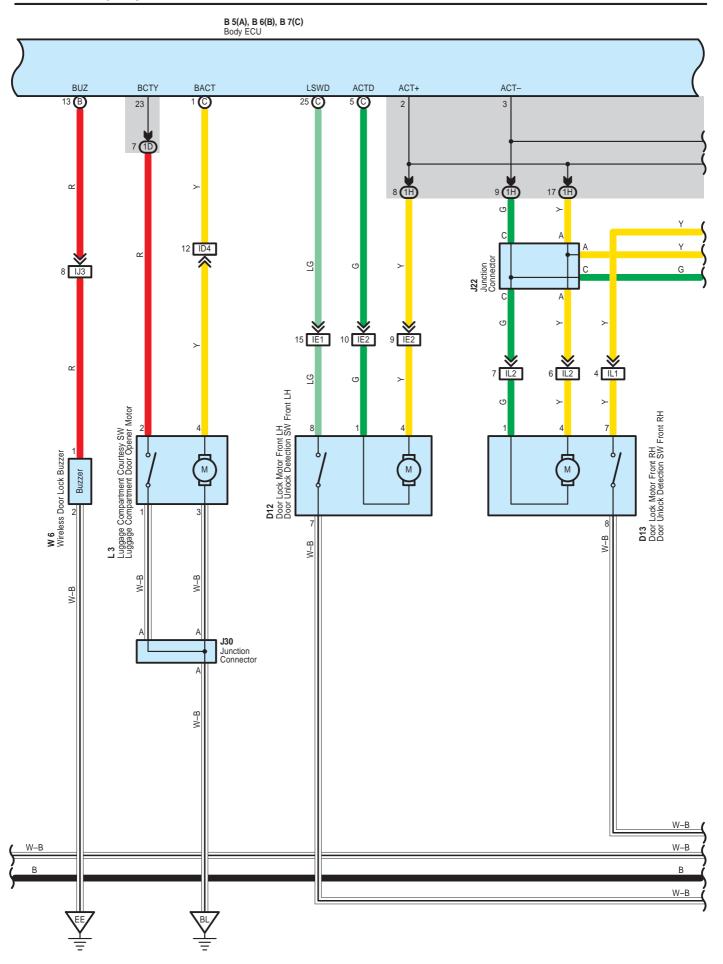
Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH
BL	60	Rear Side of Left Quarter Panel
BQ	60	Rear Side of Right Quarter Panel

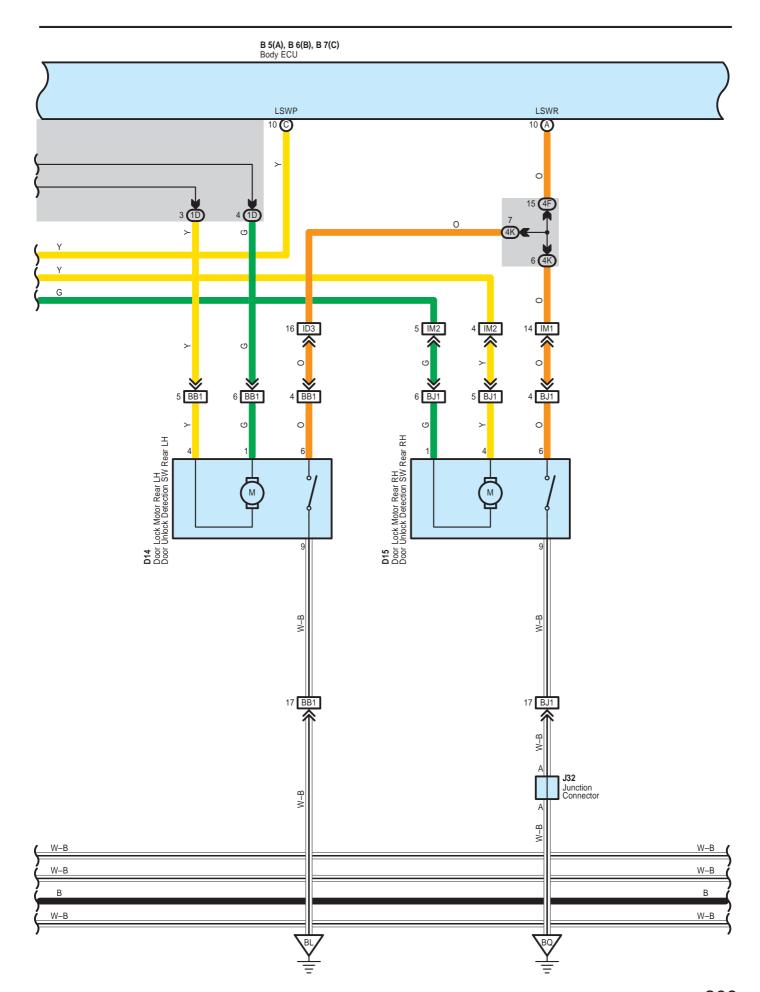
Smart Key System and Wireless Door Lock Control

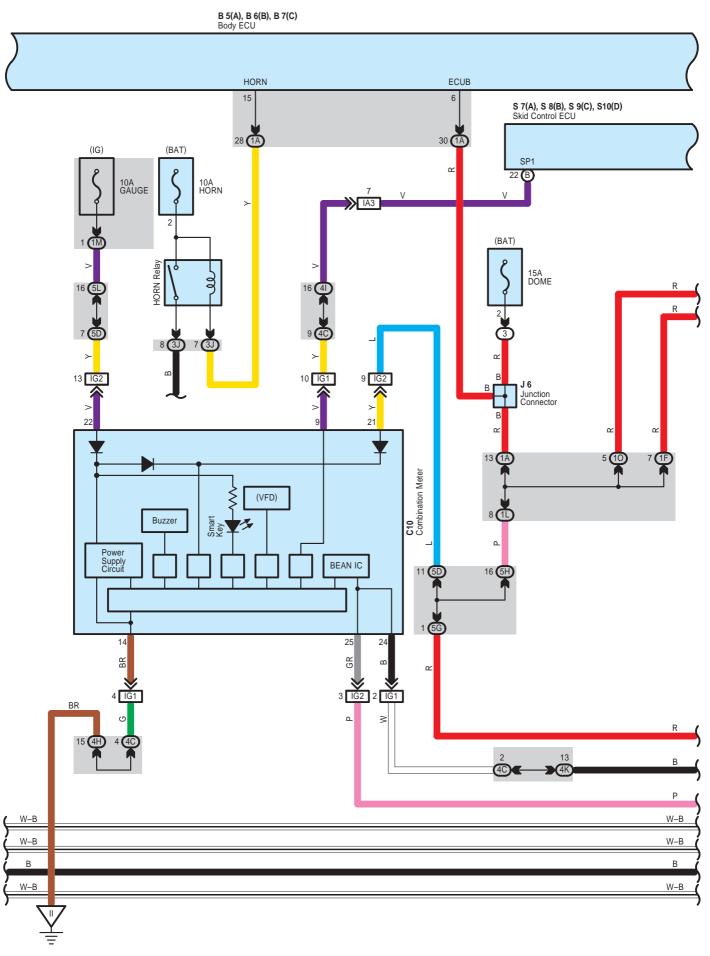


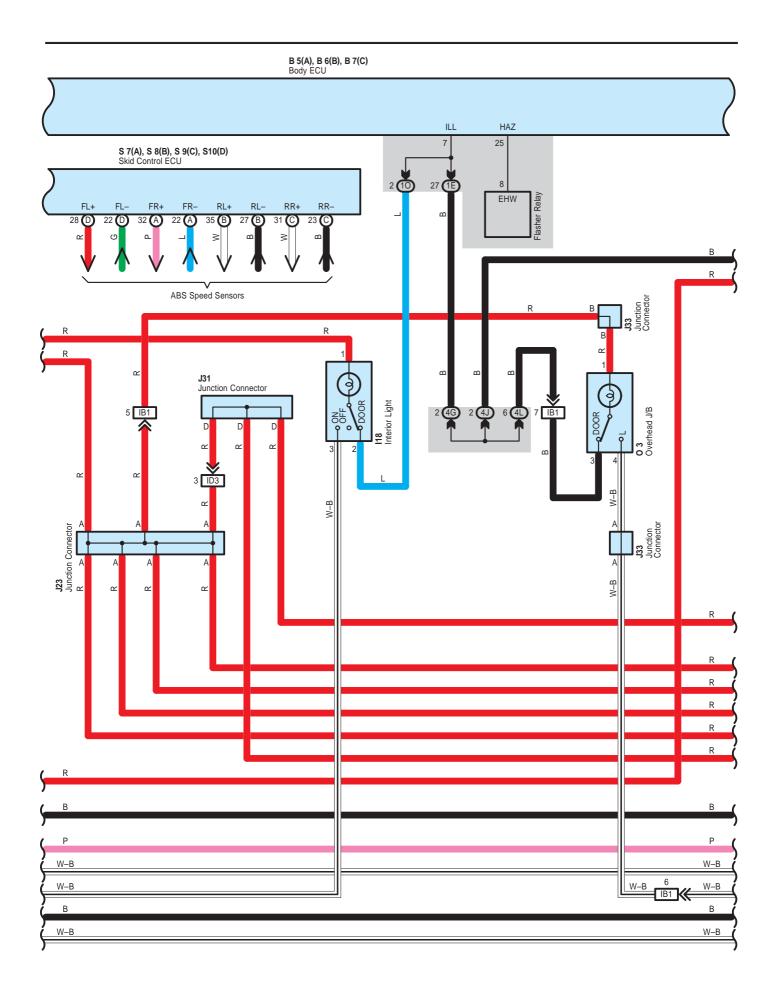
- * 1 : w/ Daytime Running Light * 2 : w/o Daytime Running Light

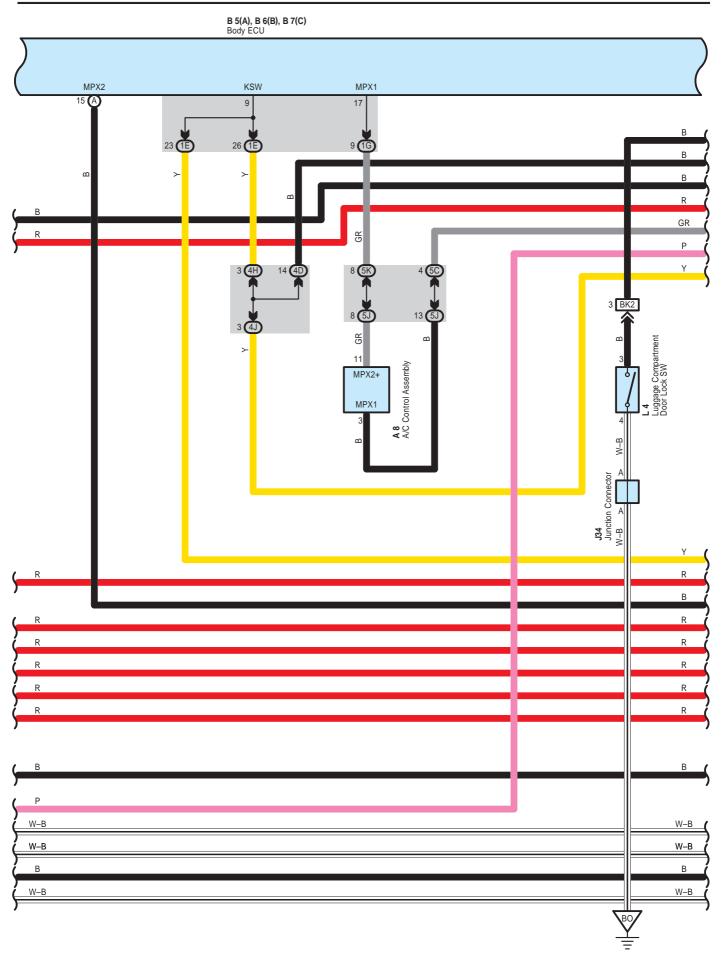


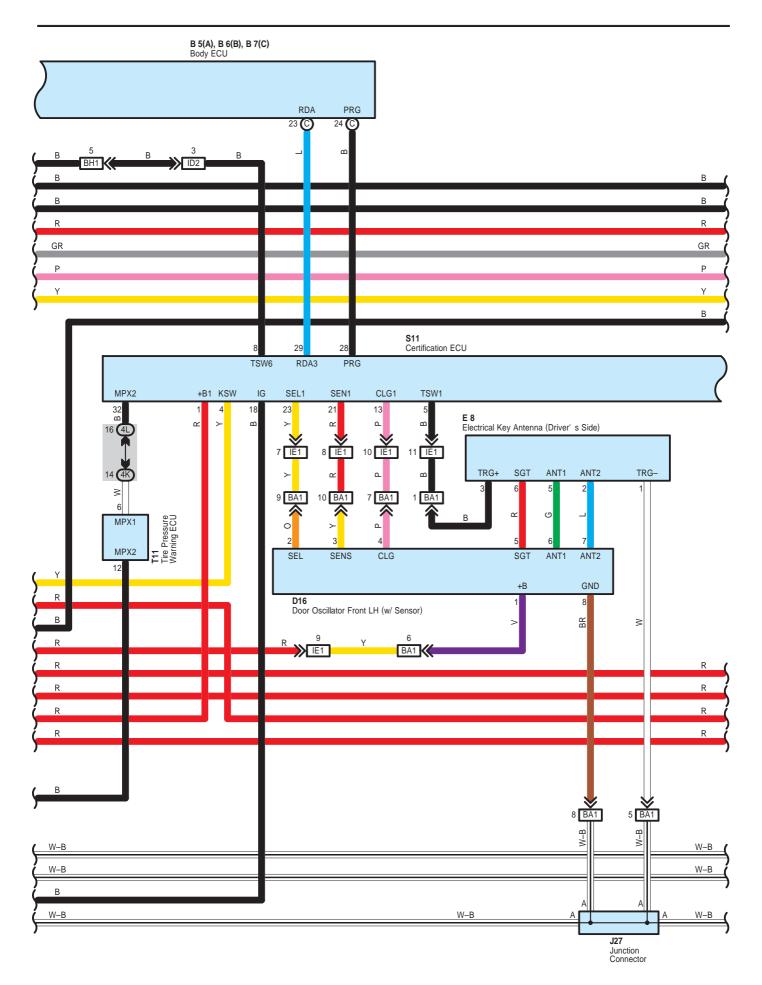


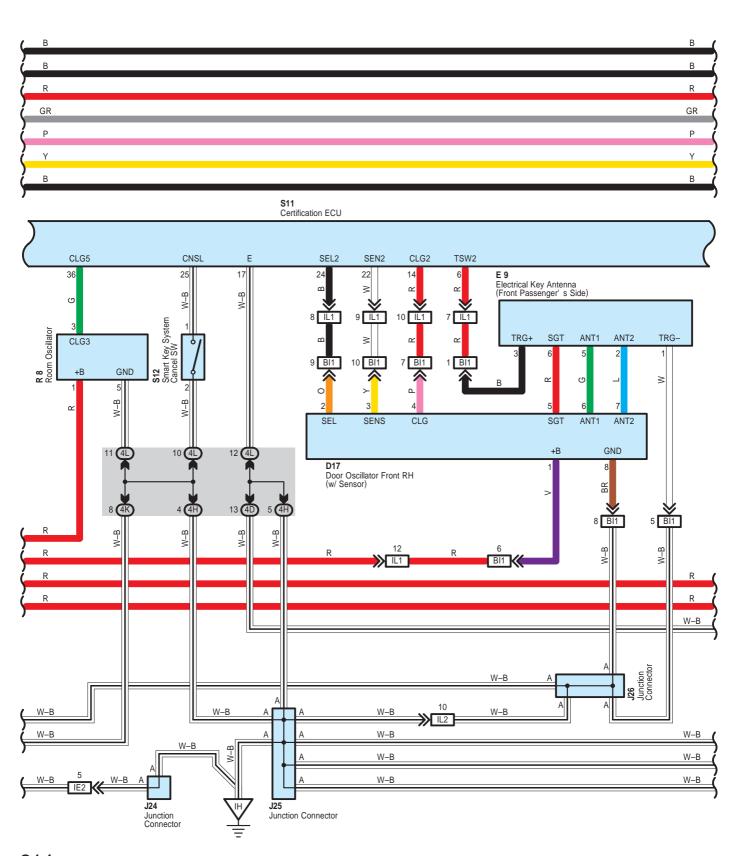


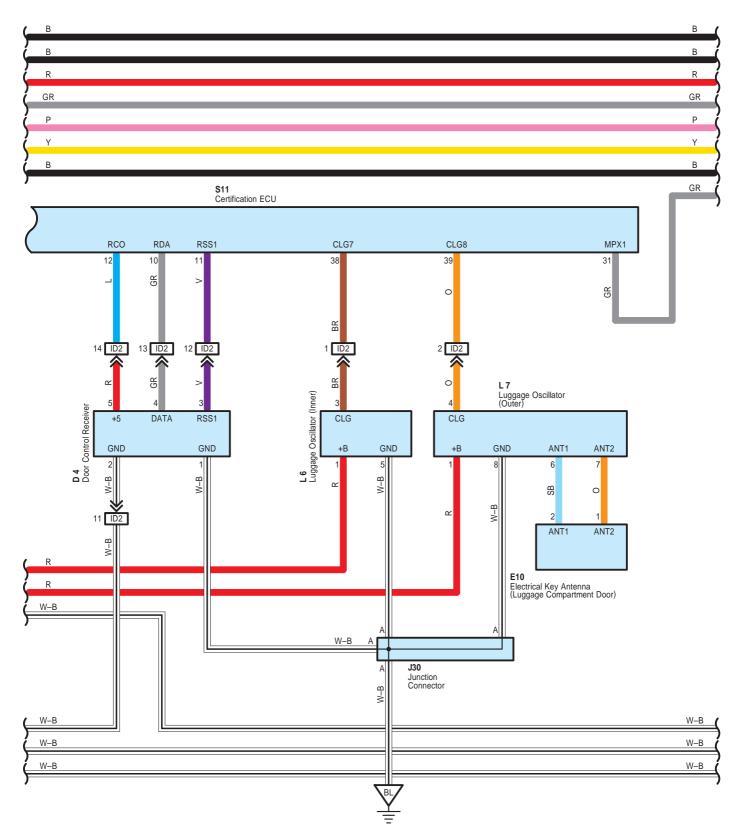


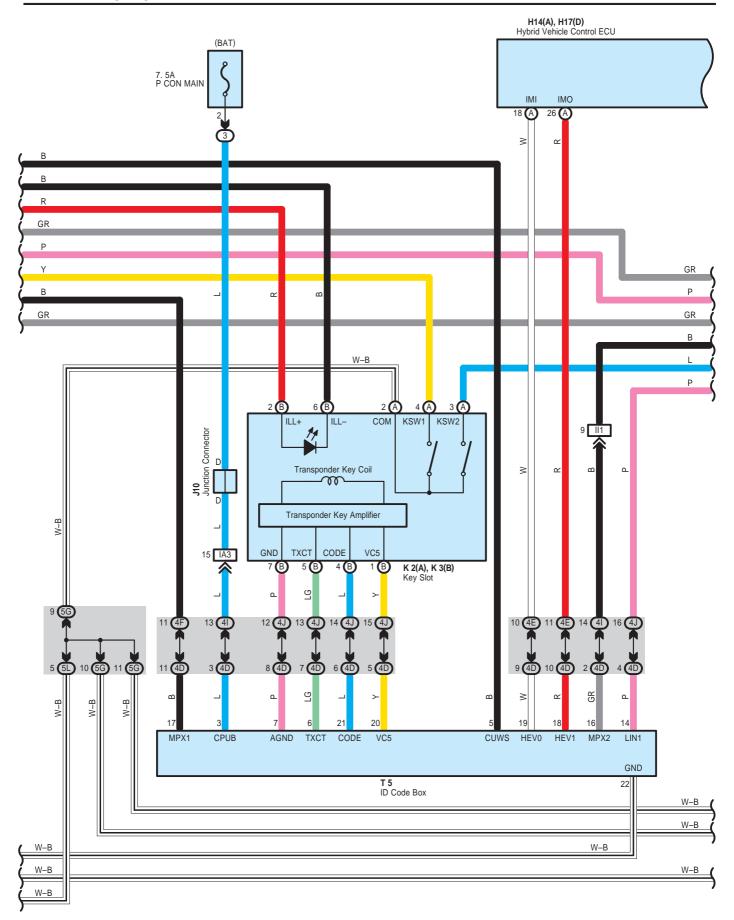


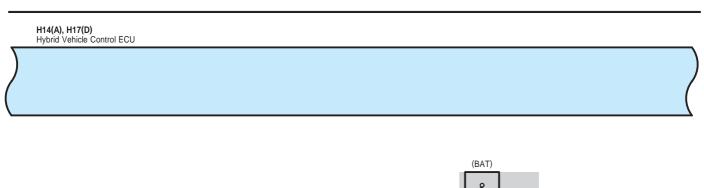


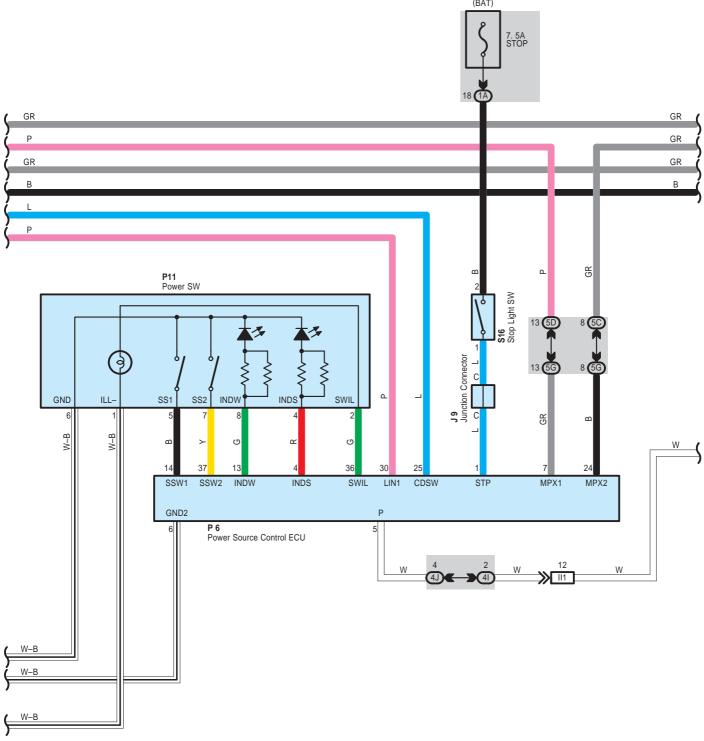




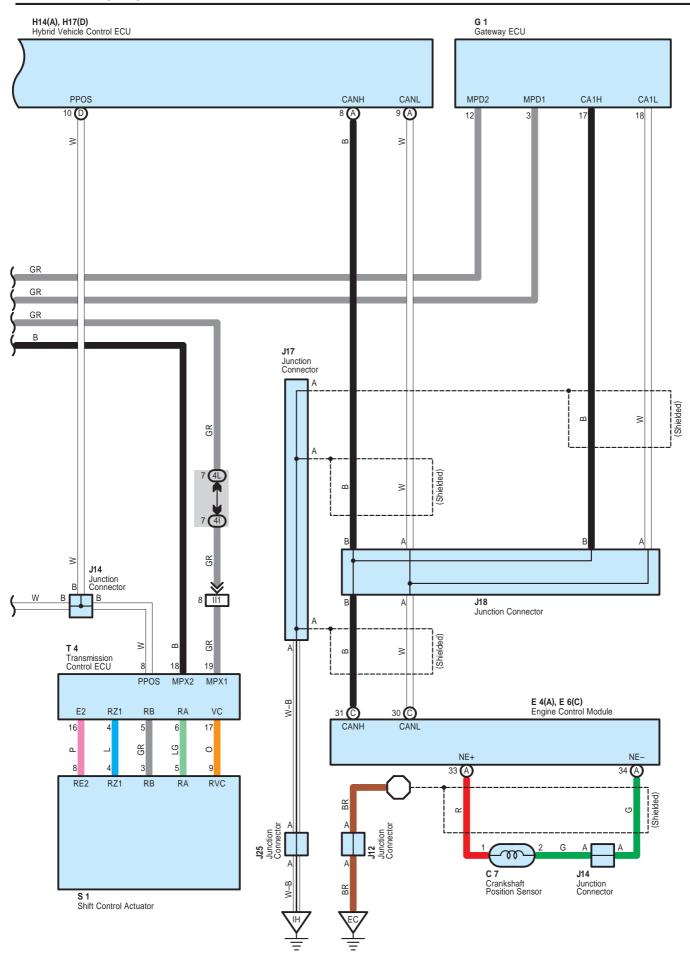








Smart Key System and Wireless Door Lock Control



System Outline

Smart key system is a system to enable, without operating the key, to lock/unlock doors, to unlatch luggage compartment door, to start engine (Motor). It owes interactive communication function of electrical key, which makes the vehicle to recognize where the key is. All that driver has to do is to have the key with him or her. If the electrical key runs out of dry battery, the key operates as normal key without the smart key system.

1. Smart Door Unlock Function

When all the doors are locked, oscillator of each door sends signal regularly and forms detecting area outside of passenger room around 0.7 to 1m from each door handle. After forming the area, driver goes in the area with the electrical key, the key sends ID code signal. Certification ECU receives the signal through electrical key antenna and identifies ID code. After identifying ID code, doors in the area get into unlock stand—by condition. At this time, sensors installed in door handles activate. Touching back of door handles unlocks the door locks, lights up hazard lamp and sounds wireless door lock buzzer. If any door is not opened within 30 seconds after unlocking the door lock, the doors lock again.

2. Smart Door Lock Function

If driver gets off the vehicle with the electrical key and pushes lock SW of door handles when all doors are locked, certification ECU sends signal to inside and outside of passenger room to identify the electrical key. In case identification with inside of the passenger room is NG and that with outside of it is OK, doors lock. Door ajar alarm sounds to tell a door is not shut properly when lock SW of door handle is pushed with any door opened.

3. Smart Luggage Compartment Door Unlatch Function

If the driver stands in front of luggage compartment door with the electrical key and pushes unlock SW of luggage compartment door, ID code of the electrical key is identified with certification ECU through luggage oscillator (Outer). After the ID code is identified, luggage compartment door is unlocked. To keep pushing luggage compartment door opener SW unlatches luggage compartment door.

4. Smart Ignition (READY) Function

When the driver pushes the power SW with the electrical key with him or her, ID code of the electrical key is identified with certification ECU by room oscillator in passenger room. After the ID code is identified, hybrid vehicle immobiliser is released and electric power is set at ACC ON to enable to start engine. Then pushing the power SW sets power supply at IG ON and another pushing sets it at OFF. Condition circulates from ACC ON to/from IG ON to/from OFF and to ACC ON. The vehicle gets READY to drive when the driver pushes power SW with applying brake pedal at any power supply condition.

5. Smart Alarm Function

- * If any door is opened and then shut with shift at P range and the power SW at other than OFF position, certification ECU identifies ID code with inside of passenger room twice. In case the identification result is NG, buzzer in combination meter alarms (Once) and wireless door lock buzzer alarms (Three times), and smart warning light in combination meter lights up. If power supply is pushed OFF with power SW or identification of the electrical key with inside of passenger room is confirmed at the second time, the warning stops.
- * If all the doors are closed with shift at P range and power SW at other than OFF position, pushing lock SW of door handle starts certification ECU to identify ID code with inside and outside of passenger room. In case result of identification with inside is NG and that with outside is confirmed, wireless door lock buzzer alarms (For two seconds) and doors do not lock.
- * If driver's side door is opened and then shut with shift at other than P range and power SW at other than OFF position, certification ECU identifies ID code with inside of passenger room twice. In case the identification result is NG, buzzer in combination meter and wireless door lock buzzer alarm continuously as well as smart warning light in combination meter lights up. Then, if shift is put into P range or the identification with inside is confirmed at the second time, the continuous alarming stops. If the driver turns electric power OFF with power SW or the identification with inside is confirmed at the second time, smart warning light goes off.
- * If other doors than driver's side door is opened and then shut with shift at other than P range and power SW at other than OFF position, certification ECU identifies ID code with inside of passenger room twice. In case the identification result is NG, buzzer in combination meter alarms (Once) and wireless door lock buzzer alarms (Three times), and smart warning light in combination meter lights up. If power supply is pushed OFF with power SW or identification with inside of passenger room is confirmed at the second time, the warning stops.
- * If lock SW of door handle is pushed with all the doors shut and power SW at OFF position, certification ECU identifies ID code with inside of passenger room twice. In case the identification is confirmed then, wireless door lock buzzer alarms (For two seconds) but doors do not lock.
- * If power supply is turned OFF with power SW after "READY to drive" condition are kept for about 20 minutes, certification ECU identifies ID code of the electrical key with inside of passenger room. In case the ECU recognizes code of battery voltage decrease, buzzer in combination meter alarms once.
- * If power SW is pushed ON, certification ECU identifies ID code with inside of passenger room twice. In case the identification result is NG, buzzer in combination meter alarms once and smart warning light lights up for about five seconds. Then, driver's operation of power SW is cancelled.

Smart Key System and Wireless Door Lock Control

6. Smart Door Unlock Mode Change Function

If lock button and PANIC button of electrical key are pushed simultaneously for about five seconds with power SW at off position and electrical key not in key holder, smart door unlock mode changes to all door unlock mode or to each door unlock mode (At front passenger door, it changes only to all door unlock condition). The unlock modes circulate. Wireless door lock buzzer and buzzer in combination meter sound to inform mode change.

7. Power Saving Function for Battery

In case the electrical key does not send signal for five days or longer, interval between identification time is extended from about 300 ms to 600 ms.

In case the electrical key does not send signal for 14 days or longer, or the key is in detected area outside of vehicle for ten minutes or longer, smart function stops its operation. Smart function resumes under following conditions.

- * When lock and unlock signal of wireless function of the key is input and its ID code is identified.
- * When doors are locked with lock SW ON.
- * When doors are locked or unlocked with door key SW operation.

8. Manual Operation Function

Electrical key has lock, unlock, and PANIC buttons. It can operate wireless door locking manually. Its operation is the same as one without smart key system.

9. Smart Illumination Function

When driver goes in detected area outside of passenger room with electrical key with him or her and its ID code is identified, interior light, overhead J/B and key slot light up for about 15 seconds by timer.

10. Smart Entry System Cancelled

Smart key system is cancelled under following conditions.

- * When smart key system cancel SW is turned on.
- * When electrical key is inserted in key slot.
- * When battery of electrical key is dead.

: Parts Location

Co	Code See Page C		Code		See Page	Code		See Page
А	A8 48		H14	Α	49	K3	В	50
B5	Α	48	H17	D	49	L3		53
В6	В	48	I1	8	53	L4		53
B7	С	48	J	6	50	L	6	53
С	7	46	J7	Α	50	L	7	53
C.	10	49	J8	В	50	0	3	54
D	1	49	J	9	50	Р	6	51
D	4	52	J1	10	50	P ⁻	11	51
D	7	52	J1	12	50	R	.8	51
D	8	52	J14		50	S1		47
D	D9 52		J1	17	50	S7	Α	51
D.	10	52	J18		50	S8	В	51
D.	12	52	J22		50	S9	С	51
D,	D13 52 J23		50	S10	D	51		
D.	14	52	J2	24	50	S11		51
D.	15	52	J25		50	S12		51
D.	16	52	J26		53	S16		51
D,	17	52	J27		53	T1		47
E4	Α	49	J30		53	T4		51
E6	С	C 49 J31		53	T5		51	
E	8	53	J3	32	53	T.	11	51
E	9	53	J3	33	53	V	/6	47
E′	10	53	J3	34	53			
G	1	49	K2	Α	50			

: Relay Blocks

	Code	See Page	Relay Blocks (Relay Block Location)
ſ	3	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

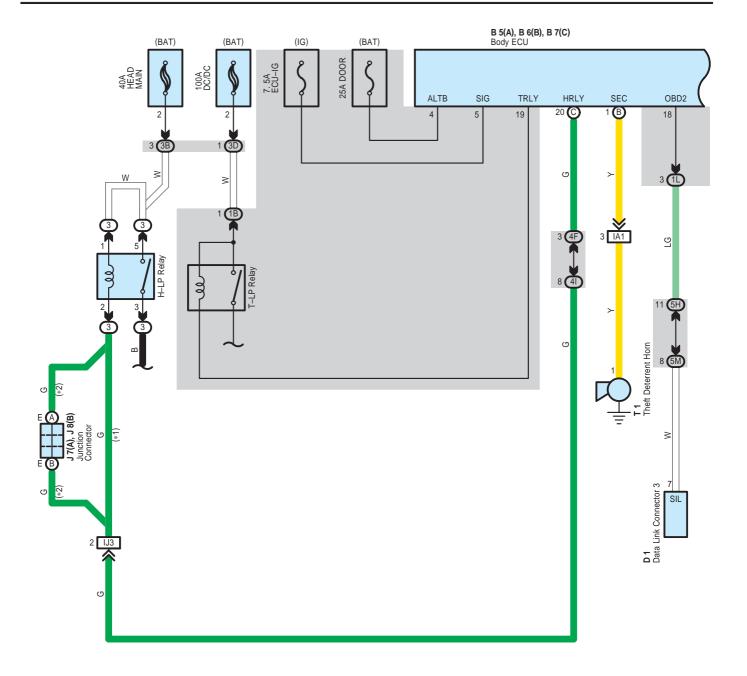
Code	See Page	Junction Block and Wire Harness (Connector Location)					
1A							
1B	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)					
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)					
1E							
1F	30						
1G	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)					
1H	1	instrument Fariet wire and Driver Side 3/D (Lower Fillish Fariet)					
1L	- 31						
1M] 31						
10	30	Roof Wire and Driver Side J/B (Lower Finish Panel)					
3B	- 23						
3D		Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)					
3J	24						
4C							
4D]						
4E							
4F							
4G	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)					
4H							
41							
4J	1						
4K	1						
4L							
5C	-						
5D	-						
5G	-						
5H	1,0	Lasterna et Bassil Wite and Ocates Ocases to No. (Maderna et Bassil Bass					
51	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)					
5J	-						
5K 5L	-						
	-						
5M		1					

Smart Key System and Wireless Door Lock Control

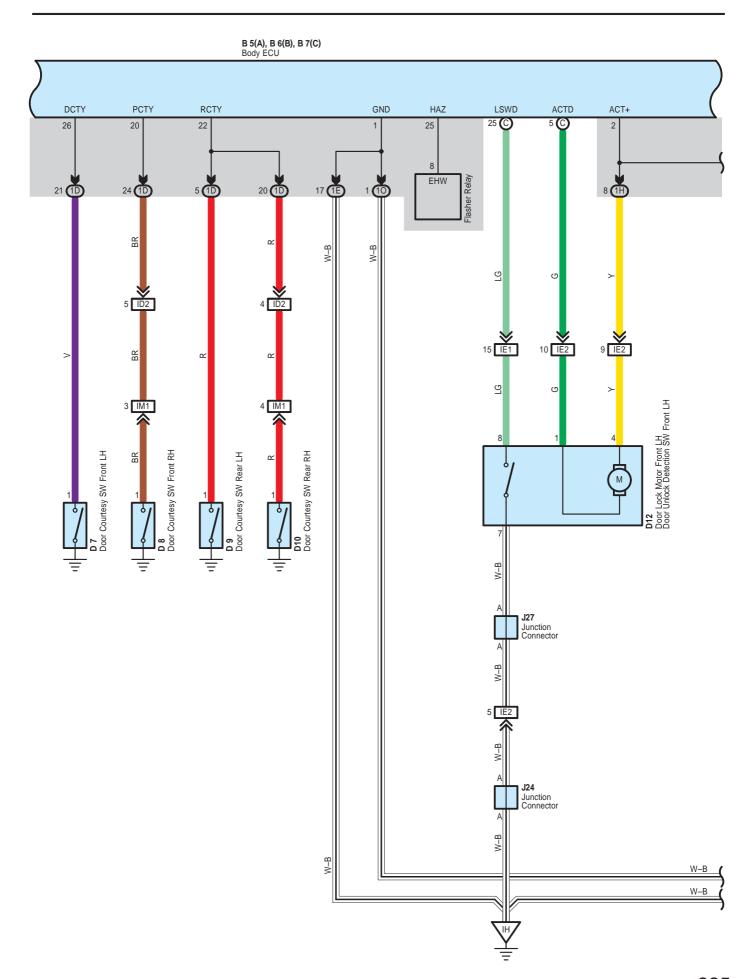
: Connector Joining Wire Harness and Wire Harness

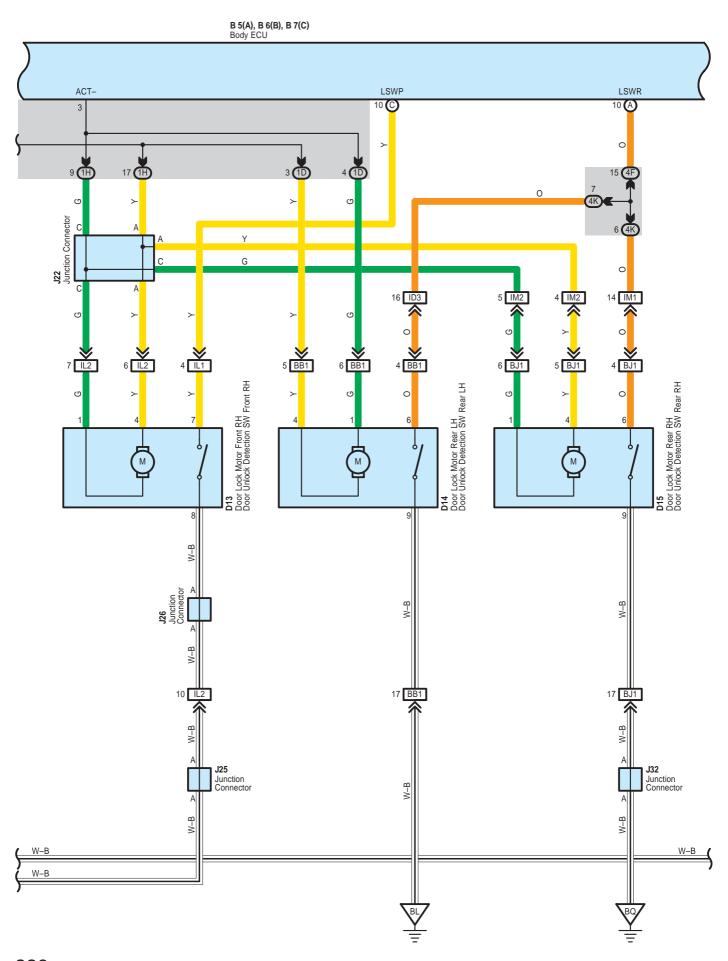
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)					
IA1	- 58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)					
IA3	7 30	Engine Room Main Wire and instrument Fariel Wire (Opper Farts of Front Body Fillar Ln)					
IB1	58	Roof Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)					
ID2							
ID3	58	Instrument Panel Wire and Floor Wire (Left Kick Panel)					
ID4	1						
IE1	- 58	Front Door L.H. Wire and Instrument Danel Wire (Left Kick Banel)					
IE2	36	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)					
IG1	- 59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)					
IG2	1 59	instrument Parier whe and instrument Parier No.2 while (Behind the Combination Neter)					
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)					
IJ3	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)					
IL1	- 59	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)					
IL2		Front Door KTT Wife and institution Famer Wife (Kight Kick Famer)					
IM1	59	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)					
BA1	60	Front Door LH Wire and Electrical Key LH Wire (Near the Front Door Outside Handle LH)					
BB1	60	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)					
BH1	61	Back Door No.1 Wire and Floor Wire (Rear Side of Roof Panel)					
BI1	61	Front Door RH Wire and Electrical Key RH Wire (Near the Front Door Outside Handle RH)					
BJ1	61	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)					
BK2	61	Back Door No.1 Wire and Back Door No.2 Wire (Rear Side of Roof Panel)					

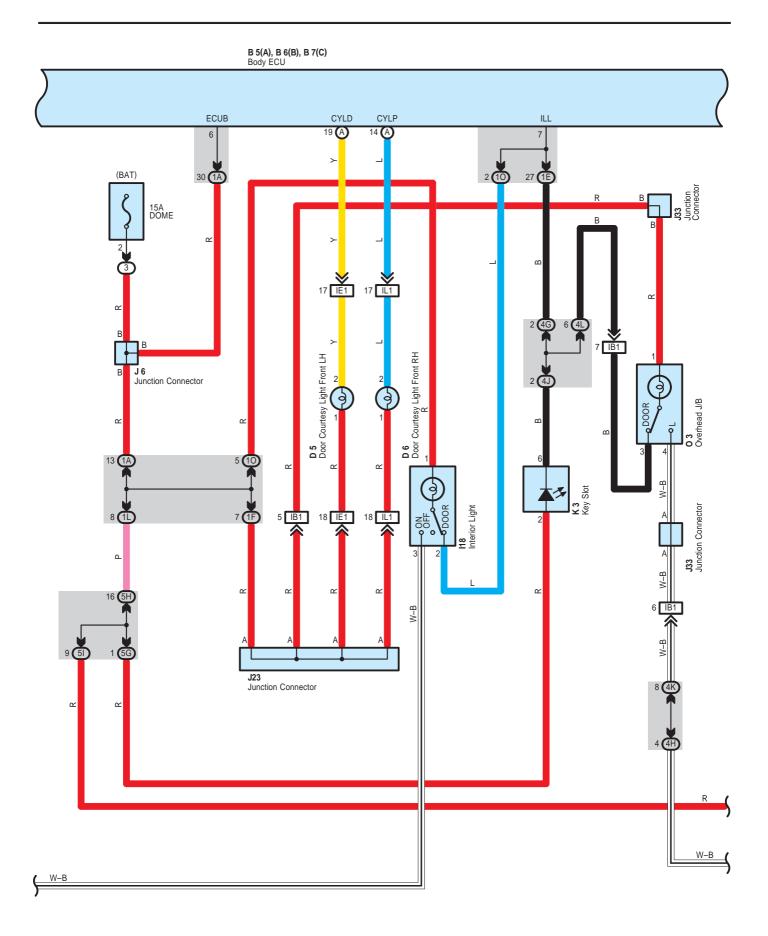
Code	See Page	Ground Points Location
EC	56	Engine Block
EE	56	Left Side of the Suspension Tower
IH	58	Cowl Side Panel LH
II	58	Instrument Panel Brace LH
BL	60	Rear Side of Left Quarter Panel
ВО	60	Center of the Back Door Panel
BQ	60	Rear Side of Right Quarter Panel

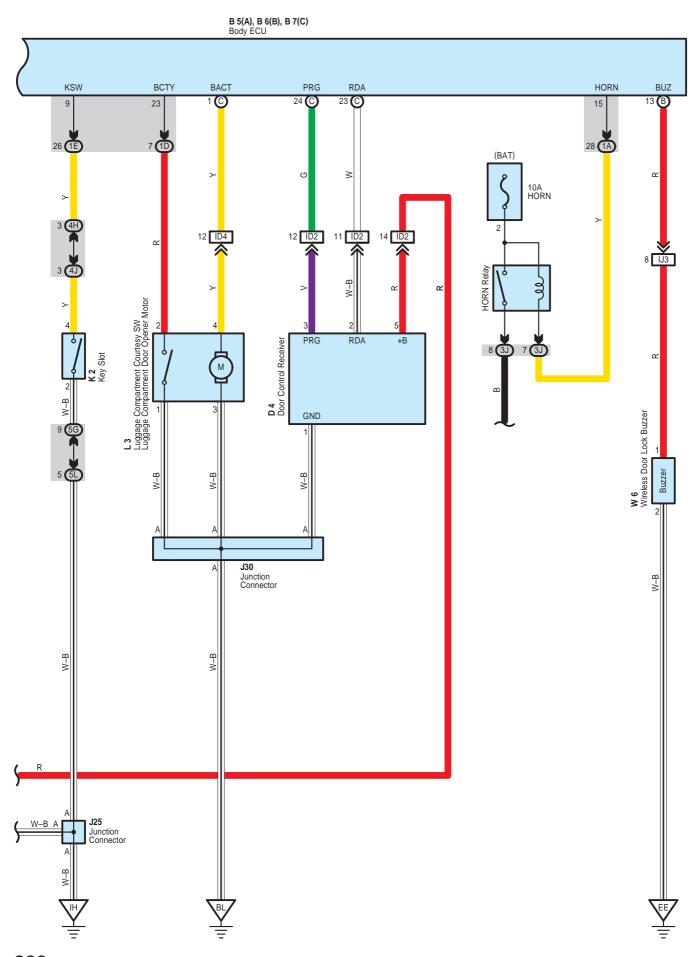


- * 1 : w/ Daytime Running Light * 2 : w/o Daytime Running Light









System Outline

Door lock control (Lock and unlock) and panic control (Theft alarm and flash) is performed by remote control, without the key inserted in the door key cylinder, using low–power electrical waves emitted from a transmitter.

1. Normal Operation

* Lock operation

When the lock SW on the transmitter is pressed, all the doors will lock.

* Unlock operation

When the unlock SW on the transmitter is pressed once, only the driver door will unlocks. When the unlock SW is pressed again within 3 seconds, all the doors will unlock.

2. Auto Lock Function

When the door is not actually opened within 30 seconds after the door has been unlocked by the unlock SW on the transmitter, all the doors will automatically lock. If any one of the following conditions is detected, the wireless door lock does not function.

- * Any door is opened.
- * The electrical key is inserted in the key slot.
- * Power SW is on

3. Wireless Door Lock Stop Function

If any one of the following conditions is detected, the wireless door lock does not function.

Lock operation

- * When any door is open (Door courtesy SW on)
- * The electrical key is inserted in the key slot (Unlock warning SW on)
- * Power SW is on

Unlock operation

- * Power SW is on
- * The electrical key is inserted in the key slot

4. Visual Confirmation of Lock or Unlock

During lock operation, when the body ECU receives a lock signal from the door lock detection SW, the turn signal light flashes once. During unlock operation, when the body ECU receives an unlock signal from the door lock detection SW, the turn signal light flashes twice.

5. Remote Panic Operation

Panic will function when doors are locked or unlocked, open or closed. When the panic button (Transmitter) is pushed once, interior lights light up, and theft alarm and horn sounds and turn signal lights, headlights and taillights flash. Then, any one of the button (Transmitter) is pushed once again, interior lights turn off, sounding and flashing will stop. Panic will not function when power SW is on.

6. Repeat Function

If the lock detection signal is not received in response to the output signal after the body ECU has output the lock signal, the lock signal is output again.

7. Illuminated Entry Function

When the body ECU detects the unlock state after the unlock operation has been made, it lights up the key slot, overhead J/B and interior light for approx. 15 sec. If all the doors are locked during this operation, lighting is cancelled and the lights immediately fade out.

: Parts Location

Co	de	See Page	Co	de	See Page	Code	See Page
B5	Α	48	D.	13	52	J27	53
В6	В	48	D.	14	52	J30	53
В7	С	48	D.	15	52	J32	53
D	1	49	I1	8	53	J33	53
D4 52		52	J6		50	K2	50
D	5	52	J7	Α	50	K3	50
D	6	52	J8	В	50	L3	53
D	7	52	J2	22	50	O3	54
D	8	52	J2	23	50	T1	47
D9		52	J24		50	W6	47
D10		52	J2	25	50		
D	12	52	J2	26	53		

Wireless Door Lock Control without Smart Key System

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

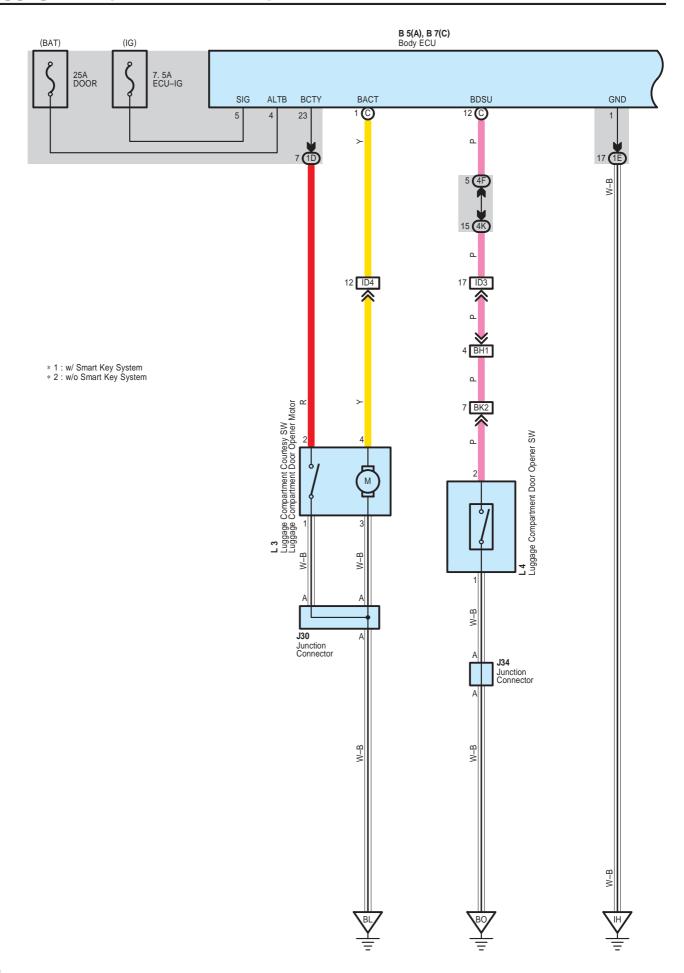
: Junction Block and Wire Harness Connector

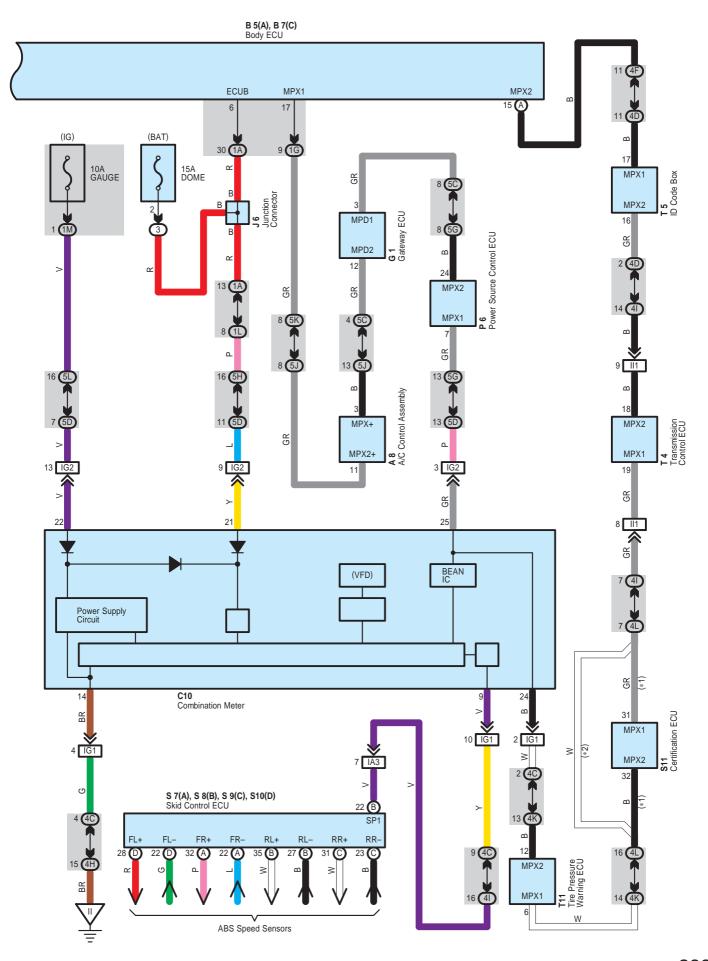
Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)				
1B	7 30	Engine Room Main Wire and Driver Side 3/D (Lower Fillish Faller)				
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)				
1E						
1F	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)				
1H						
1L	31					
10	30	Roof Wire and Driver Side J/B (Lower Finish Panel)				
3B	23					
3D	20	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)				
3J	24					
4F						
4G						
4H						
41	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)				
4J						
4K						
4L						
5G						
5H						
51	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)				
5L						
5M						

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)					
IA1	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)					
IB1	58	Roof Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)					
ID2							
ID3	58	Instrument Panel Wire and Floor Wire (Left Kick Panel)					
ID4	1						
IE1	- 58	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)					
IE2	30						
IJ3	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)					
IL1	- 59	Front Door PH Wire and Instrument Banel Wire (Pight Kick Banel)					
IL2		Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)					
IM1	- 59	Instrument Bened Mire and Elear No 2 Mire (Birtht Kick Bened)					
IM2		Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)					
BB1	60	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)					
BJ1	61	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)					

Code	See Page	Ground Points Location
EE	56	Left Side of the Suspension Tower
IH	58	Cowl Side Panel LH
BL	60	Rear Side of Left Quarter Panel
BQ	60	Rear Side of Right Quarter Panel





Luggage Compartment Door Opener

System Outline

If the vehicle is stationary (Slower than 5 km/h) and luggage compartment door is unlocked, the luggage compartment door opener motor activates with control of body ECU when luggage compartment door opener SW is pushed. It results in releasing latch of luggage compartment door to open luggage compartment door.

: Parts Location

Co	ode	See Page	Code		See Page	Code		See Page
P	۸8	48	J34		53	S10 D		51
B5	Α	48	L	3	53	S11		51
В7	С	48	L	4	53	T4		51
С	C10 49 P6		6	51	Т	5	51	
(61	49	S7	Α	51	T1	1	51
J	6	50	S8	В	51			
J30		53	S9	С	51			

: Relay Blocks

	Code	See Page	elay Blocks (Relay Block Location)				
Ī	3	22	Engine Room R/B (Engine Compartment Left)				

: Junction Block and Wire Harness Connector

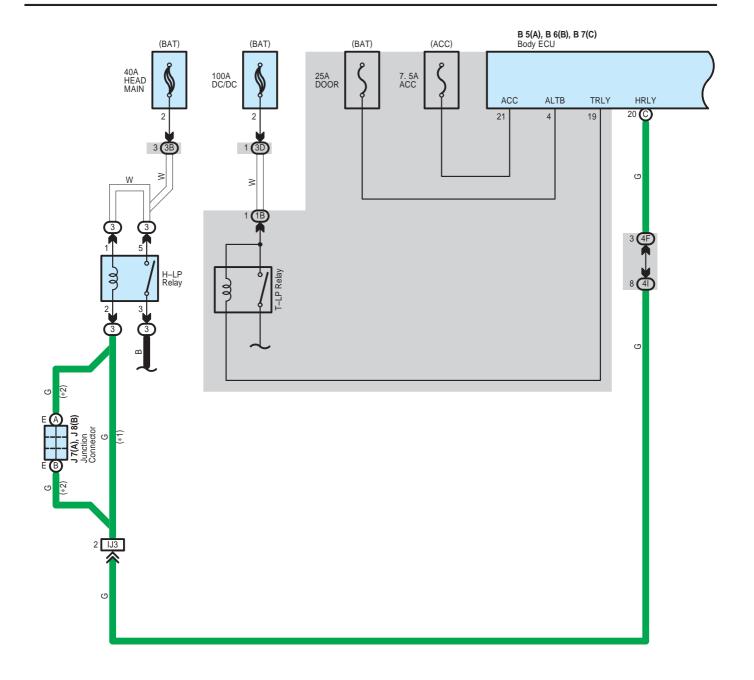
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)			
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)			
1E	30				
1G	1 30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)			
1L	31				
1M]				
4C					
4D]	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)			
4F]				
4H	38				
41]				
4K	4L 5C 5D 5G				
4L					
5C					
5D		Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)			
5G					
5H					
5J					
5K]				
5L					

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)		
IA3	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)		
ID3	- 58	Instrument Panel Wire and Floor Wire (Left Kick Panel)		
ID4] 30	Institution Failer wire and Floor wire (Left Nick Failer)		
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)		
IG2	1 39			
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)		
BH1	61	Back Door No.1 Wire and Floor Wire (Rear Side of Roof Panel)		
BK2	61	Back Door No.1 Wire and Back Door No.2 Wire (Rear Side of Roof Panel)		

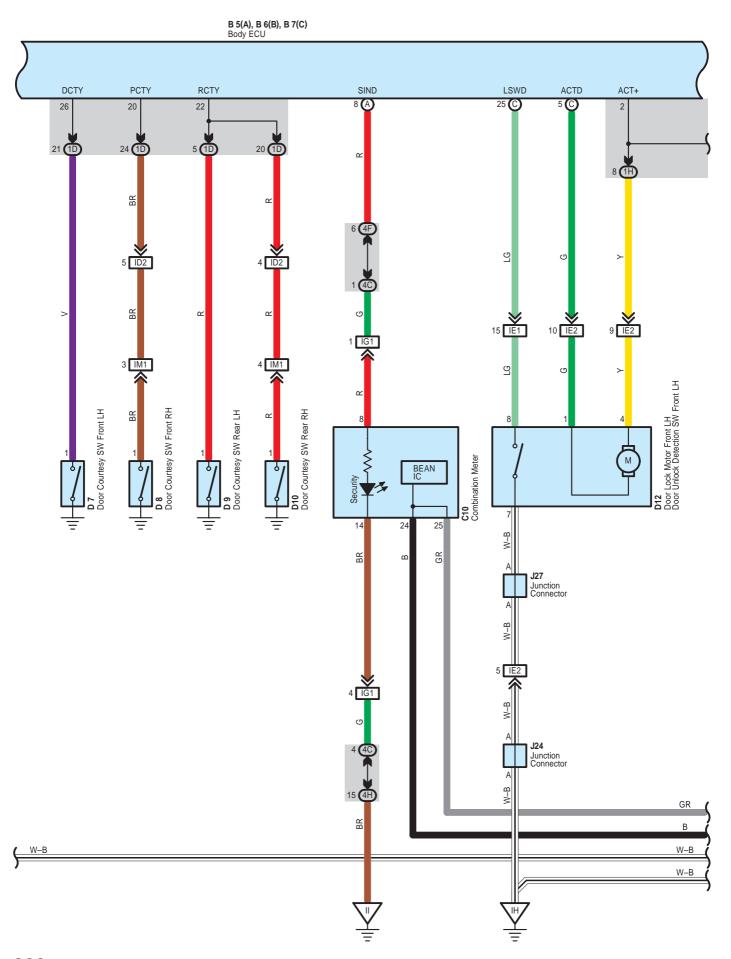


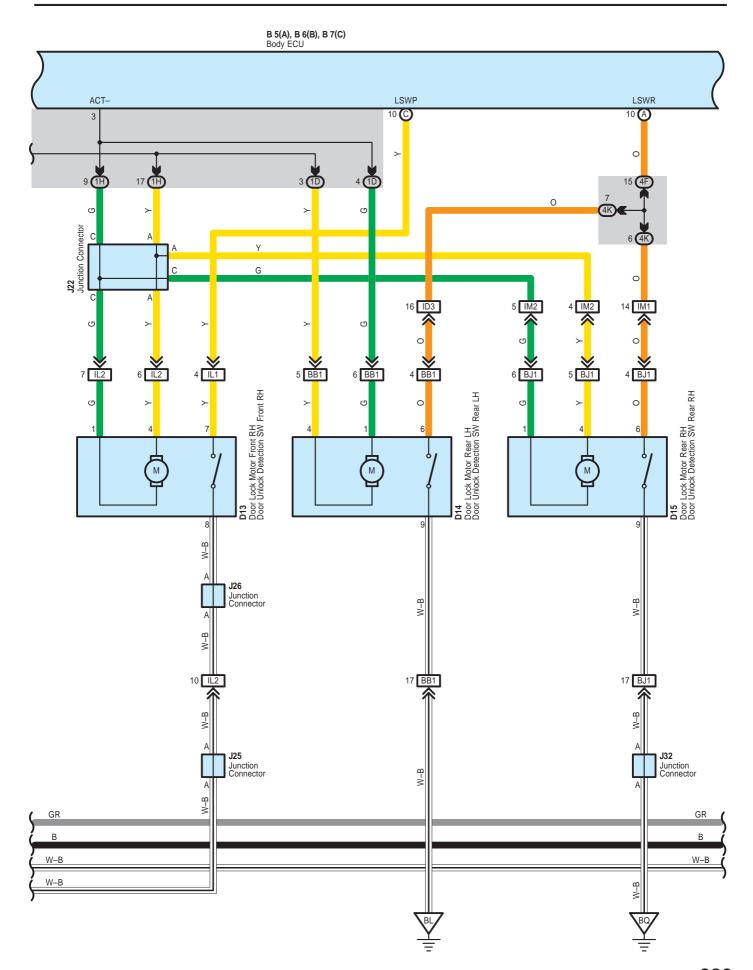
Code	See Page	Ground Points Location	
IH	58	Cowl Side Panel LH	
II	58	Instrument Panel Brace LH	
BL	60	ear Side of Left Quarter Panel	
ВО	60	Center of the Back Door Panel	

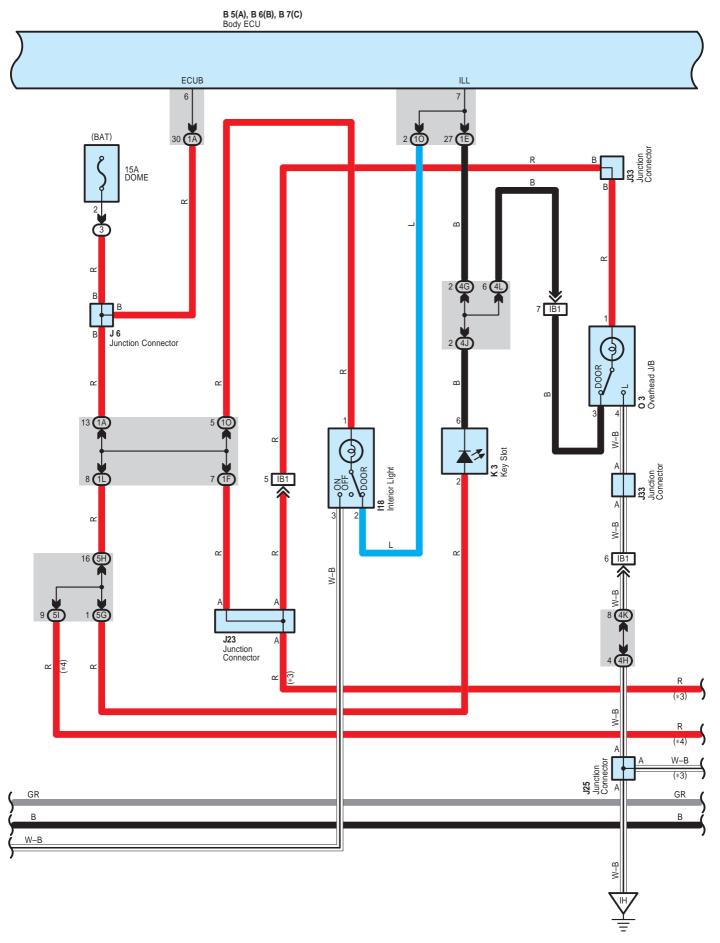


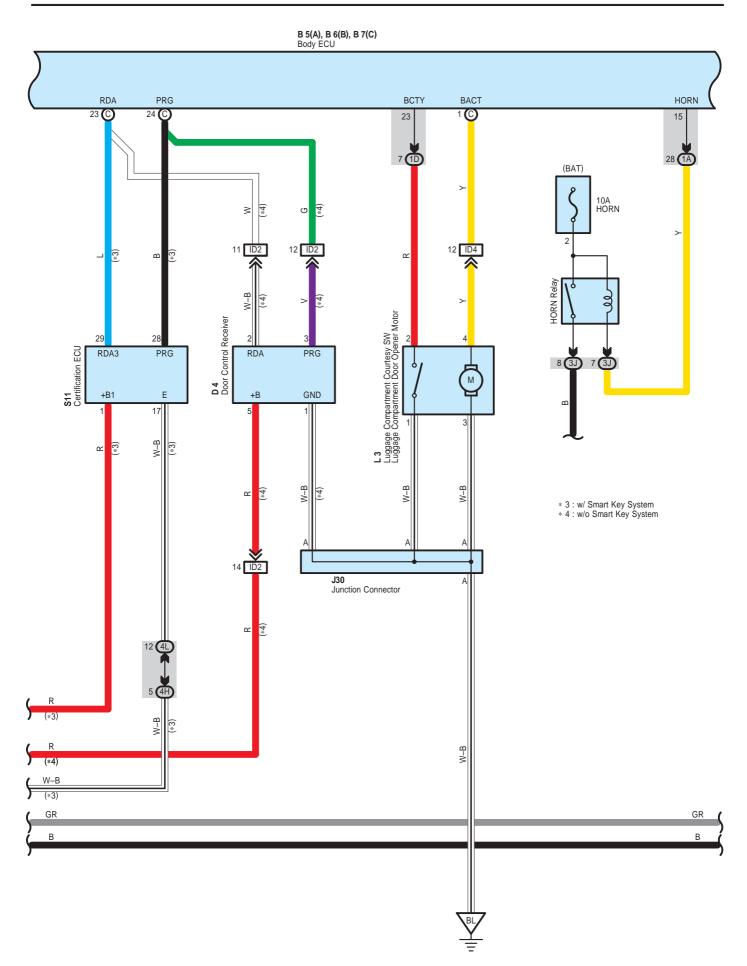
- * 1 : w/ Daytime Running Light * 2 : w/o Daytime Running Light

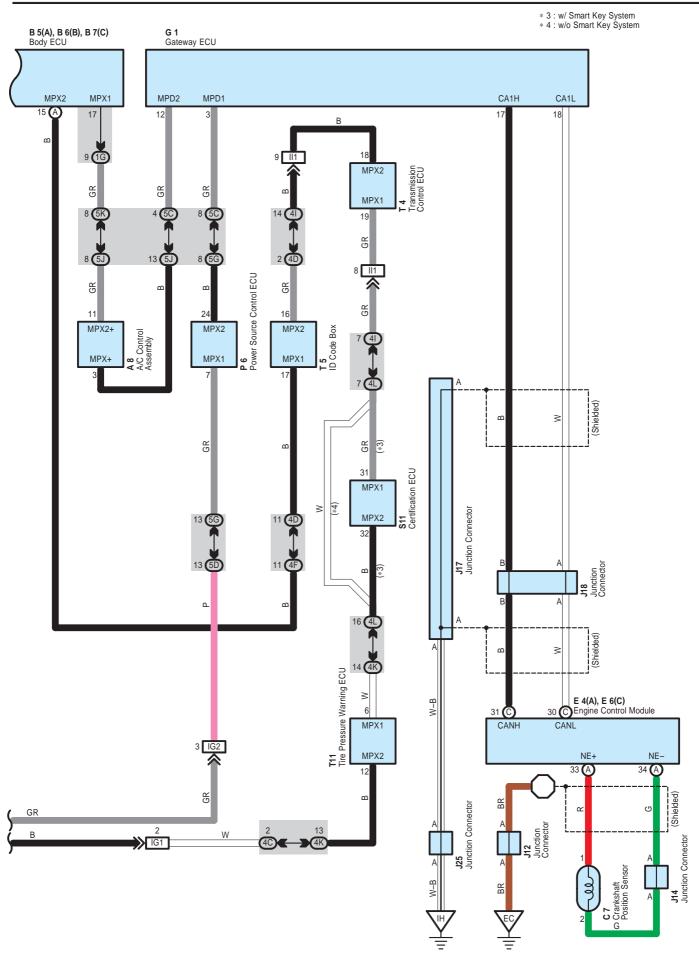
B 5(A), B 6(B), B 7(C) Body ECU SEC OBD2 SIG GBS GND HCTY HAZ 5 B 1 **B** 6 **B** (BAT) (IG) EHW Flasher Relay 3 **1**L 15A ECU-B 7. 5A ECU-IG 13 IA3 3 IA1 9 BR 7 11 0 11 (5H) ۵ **E 3** Engine Hood Courtesy SW Theft Deterrent Horn O 2 Option Connector (Glass Breakage Sensor) GBS1 GBIG GB+B J19 Junction Connector ≥ **D 1** Data Link Connector 3 SIL











: Parts Location

Code		See Page	Code		See Page	Code	See Page
A8		48	E4	Α	49	J25	50
B5	А	48	E6	С	49	J26	53
В6	В	48	G	1	49	J27	53
В7	С	48	I1	8	53	J30	53
С	7	46	J	6	50	J32	53
C	10	49	J7	Α	50	J33	53
D	1	49	J8	В	50	K3	50
D	14	52	J12		50	L3	53
D7		52	J14		50	O2	51
D8		52	J17		50	O3	54
D9		52	J18		50	P6	51
D	10	52	J19		50	S11	51
D	12	52	J20	Α	50	T1	47
D	13	52	J21	В	50	T4	51
D14		52	J22		50	T5	51
D	15	52	J23		50	T11	51
E3		46	J2	24	50		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)	
3	22	Engine Room R/B (Engine Compartment Left)	

Theft Deterrent

0

: Junction Block and Wire Harness Connector

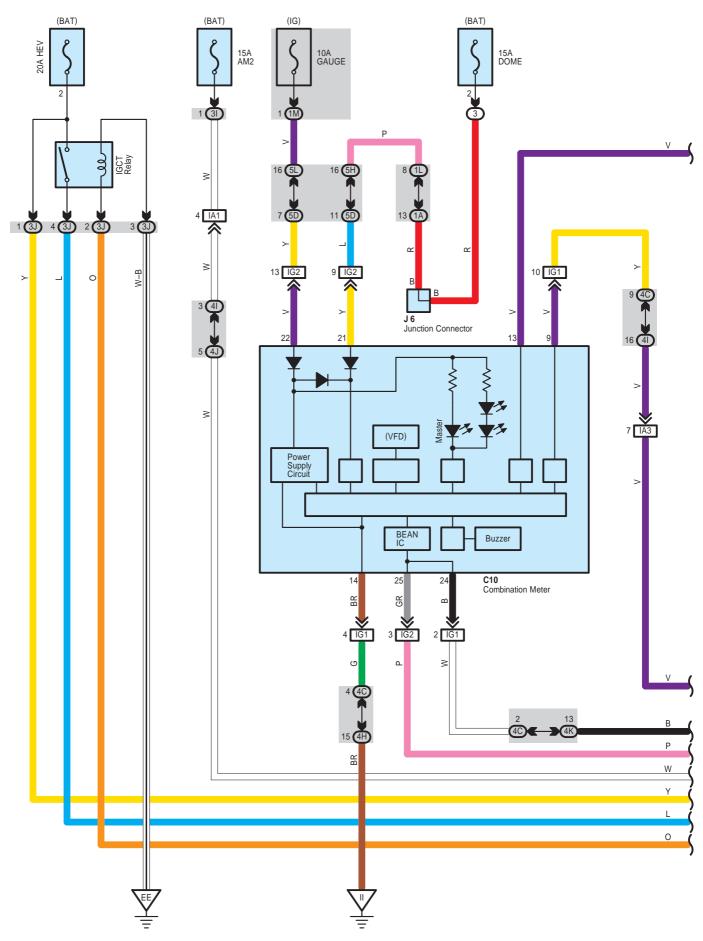
Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)				
1B	30					
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)				
1E						
1F	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)				
1G	30					
1H	1					
1K	31					
1L	31					
10	30	Roof Wire and Driver Side J/B (Lower Finish Panel)				
3B	23					
3D	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)				
3J	24					
4C						
4D						
4F	1					
4G						
4H	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)				
41						
4J						
4K]					
4L						
5C						
5D						
5E						
5G]					
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)				
51						
5J]					
5K						
5M						

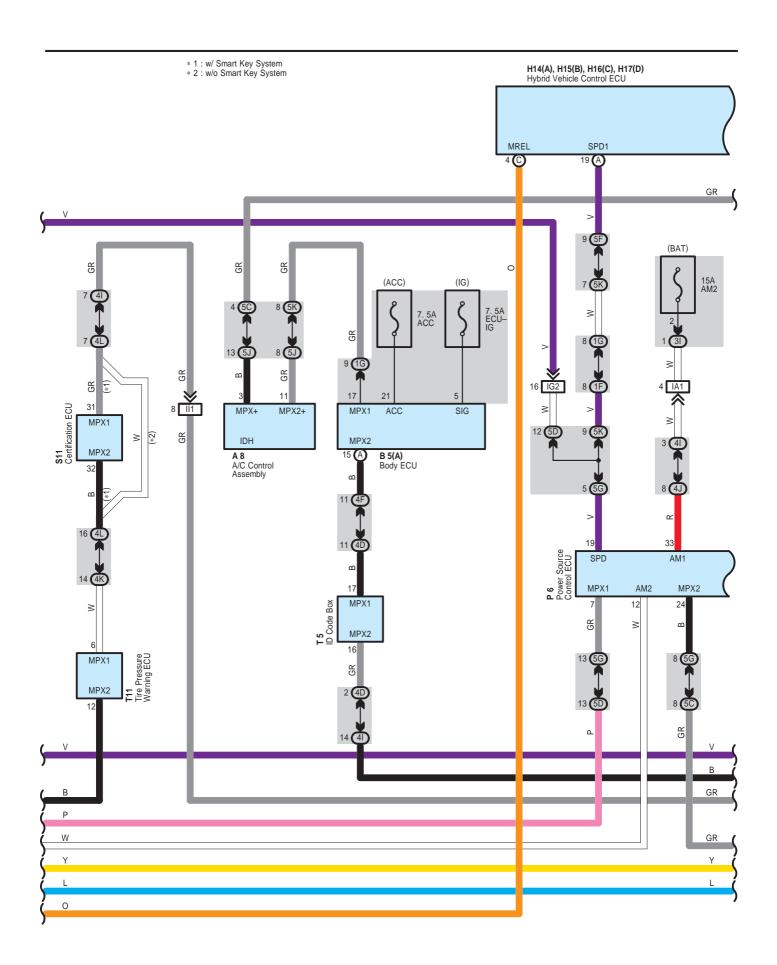
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)		
IA1	- 58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)		
IA3	30	Engine Room wain wire and instrument raner wire (opper rans or ront body rinar En)		
IB1	58	Roof Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)		
ID2				
ID3	58	Instrument Panel Wire and Floor Wire (Left Kick Panel)		
ID4]			
IE1	- 58	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)		
IE2] 30			
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)		
IG2	39	Instrument Paner wire and instrument Paner No.2 wire (Benind the Combination Meter)		
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)		
IJ3	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)		
IL1	- 59	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)		
IL2				
IM1	- 59	Instrument Bened Wire and Elect No 2 Wire (Bight Kick Bened)		
IM2] 33	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)		
BB1	60	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)		
BJ1	61	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)		

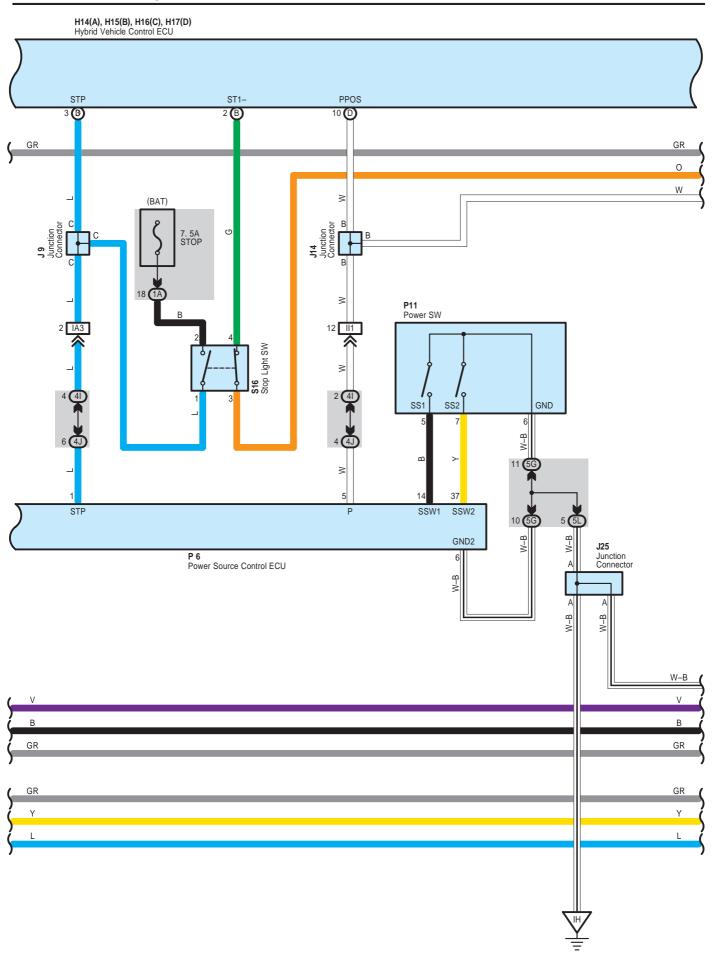


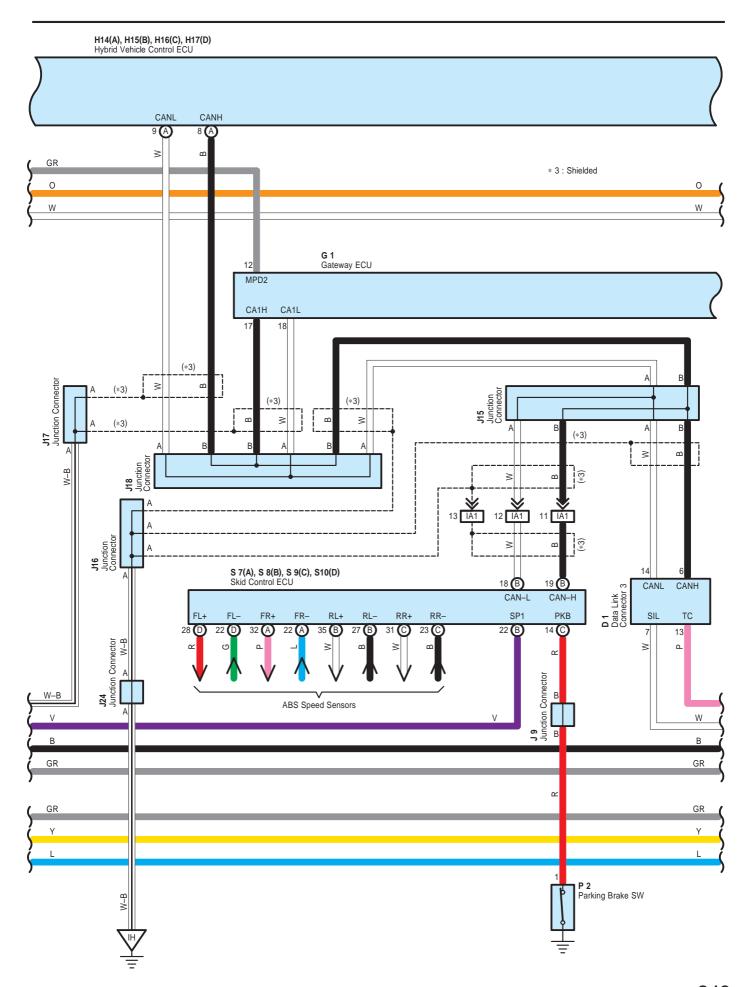
Code	See Page	Ground Points Location	
EC	56	Engine Block	
EF	56	Left Side of the Suspension Tower	
IH	58	Cowl Side Panel LH	
II	58	Instrument Panel Brace LH	
BL	60	Rear Side of Left Quarter Panel	
BQ	60	Rear Side of Right Quarter Panel	



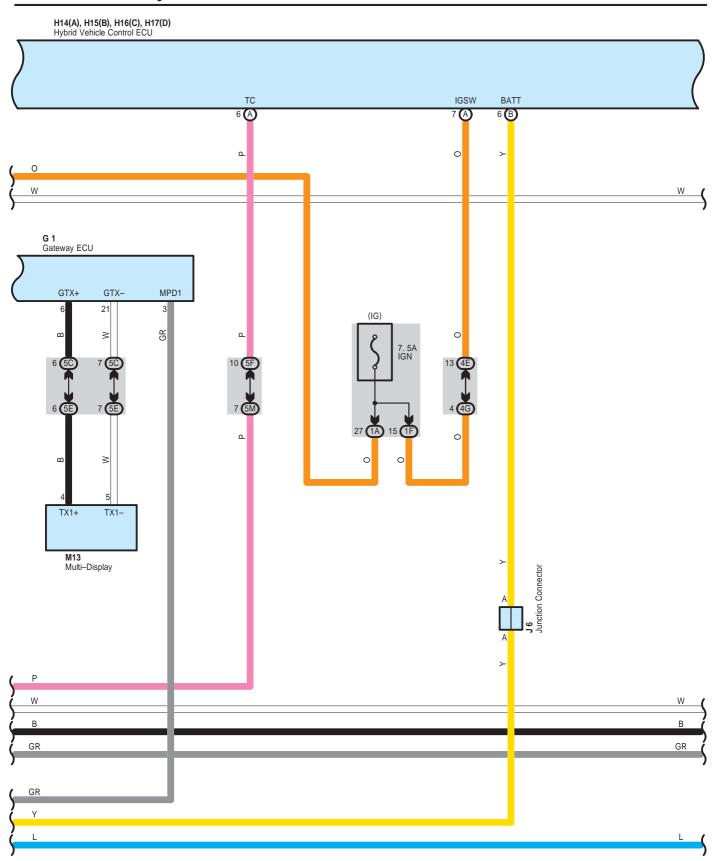


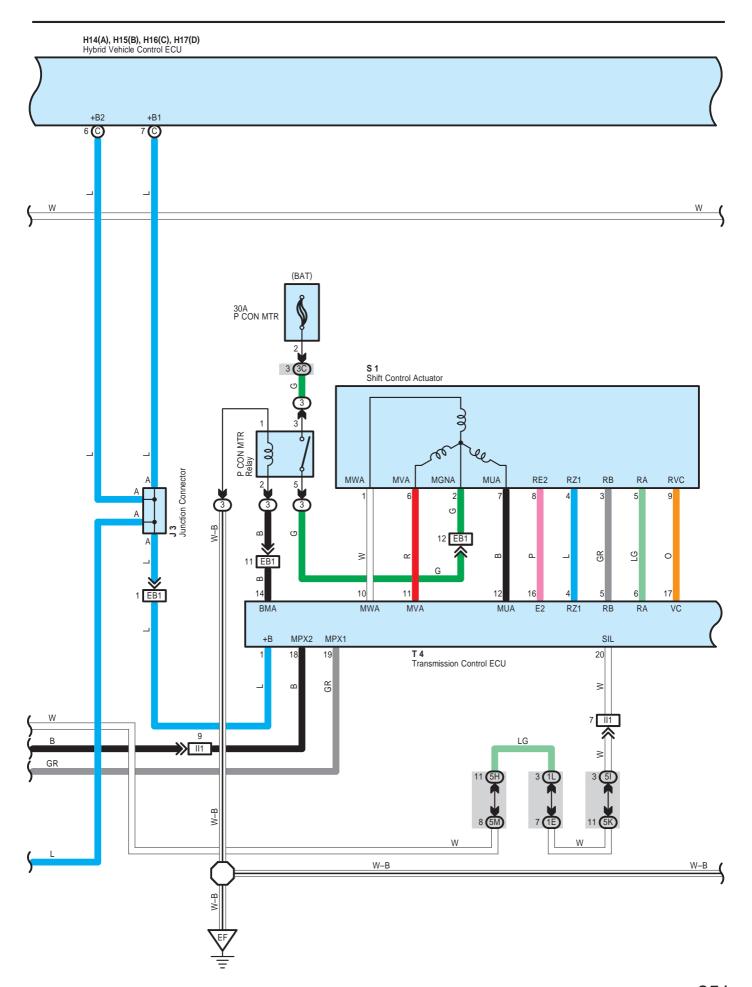
Shift Control System



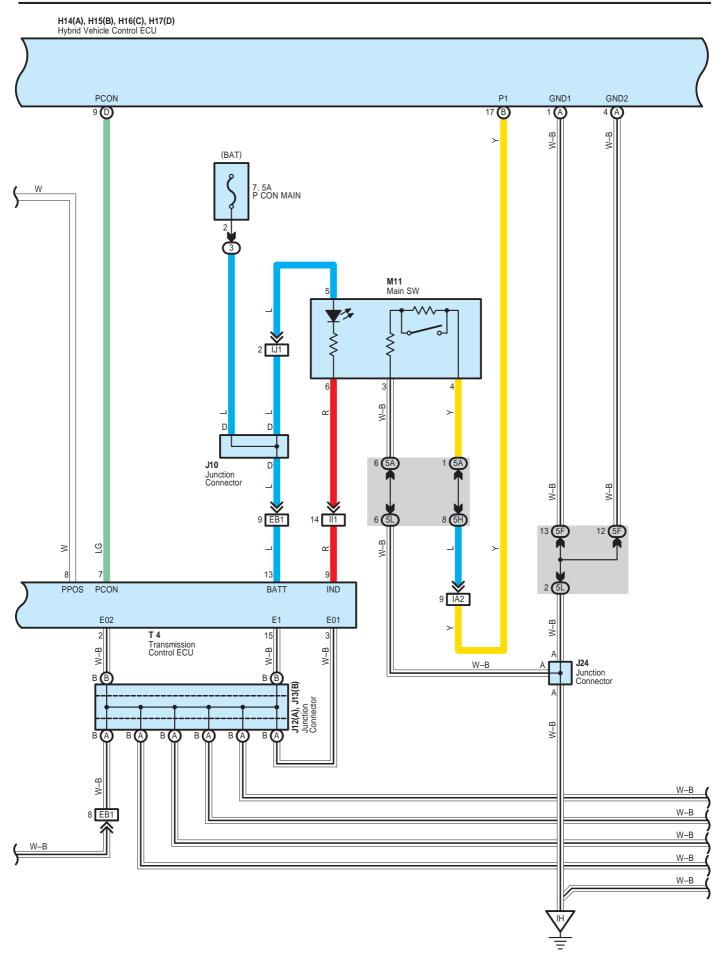


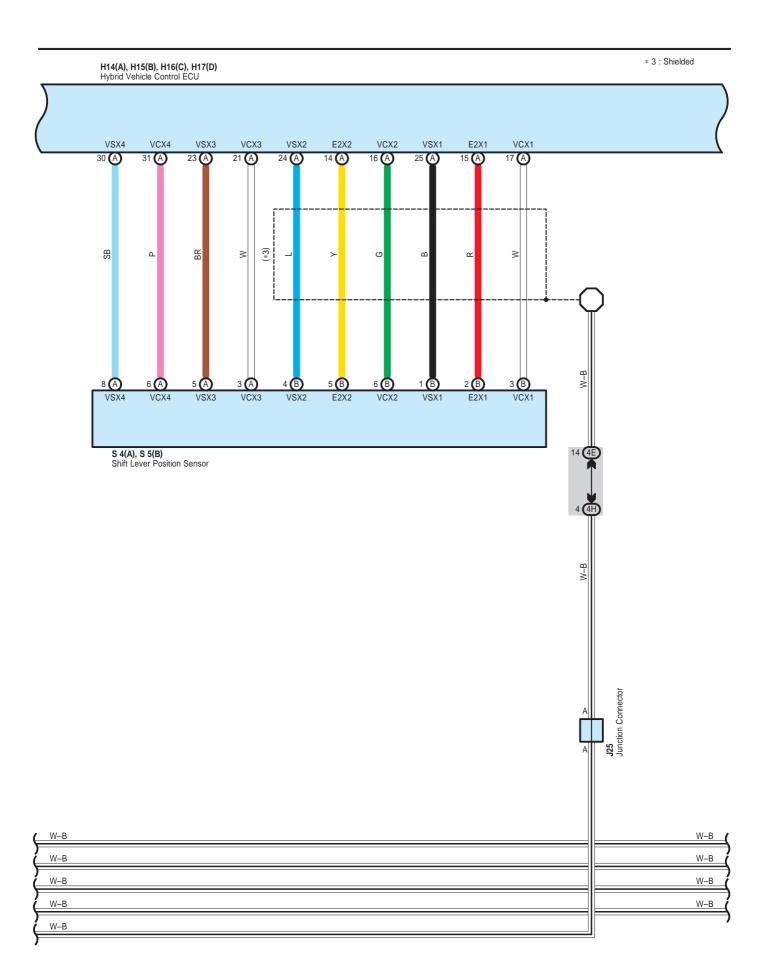
Shift Control System

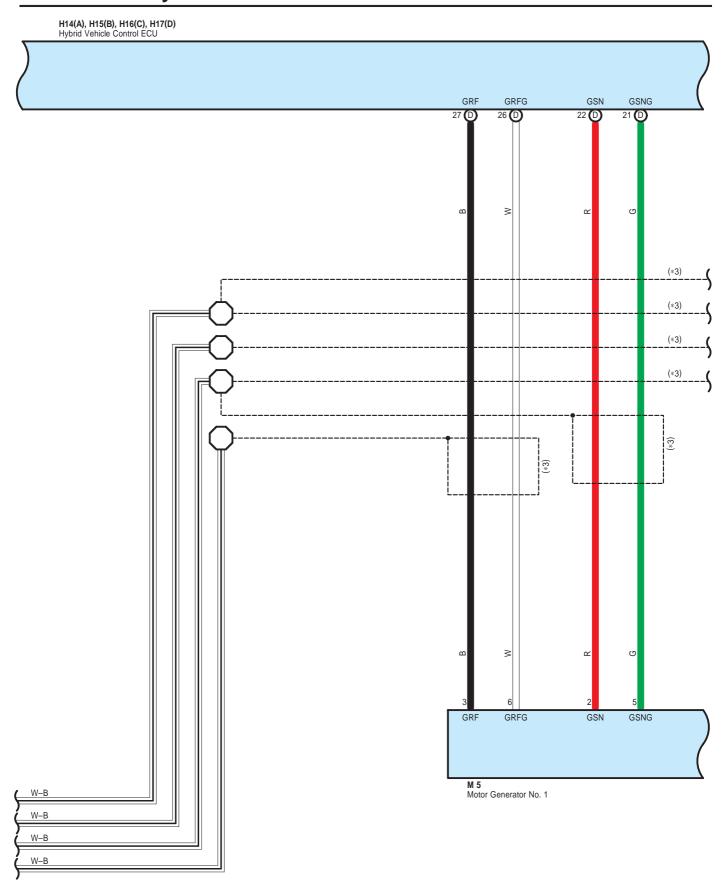


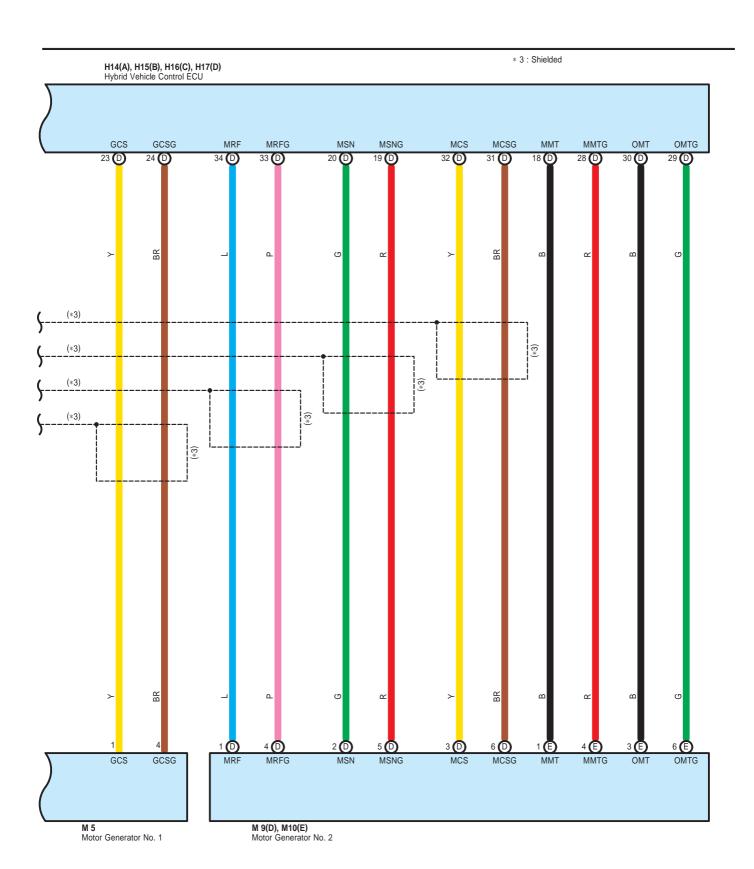


Shift Control System









Shift Control System

System Outline

Under this system, operating signal of shift lever is sent to hybrid vehicle control ECU to control hybrid motor, which changes shift ranges (R, N, D, B) electrically. When shift is put in P range, transmission control ECU receives operating signal from hybrid vehicle control ECU and activates parking lock electrically.

1. Shift Range Change Function

Gear can be shifted to any shift range under condition when vehicle can drive except when reject function is in operation.

When vehicle cannot drive with power SW at IG ON position, gear can be shifted only to P and N range.

When vehicle cannot drive with power SW at ACC ON position, gear can be shifted only to P range.

When power SW is at OFF position, gear cannot be shifted to any range.

When main SW is operated at vehicle stop after starting hybrid system, gear is automatically changed to P range from any other gear range and turns off power supply.

2. Reject Function

Changing gear may not effect to change range under certain vehicle condition. Under such condition, warning buzzer of combination meter sounds to show the rejection and call for driver's attention. Followings are shift operations and shift range conditions under which reject function is activated.

- * When gear is shifted from P range to other range without applying brake pedal, gear stays in P range.
- * Main SW cannot put gear in P range during driving but changes to N range.
- * Shift change to forward or backward during driving changes gear to N range.
- * When gear is changed from other range than D range to B range, gear is changed to N range automatically.

3. Combination Meter Indication

The combination meter shows present shift range position. Other shift range positions than D or B range are not shown in lighting in the combination meter. This is to avoid unnecessary shifting operation to B range from other shift position except D range.

4. Operation of Parking Lock

Operation signal from/to P range is sent from main SW or power SW to transmission control ECU through hybrid vehicle control ECU. At that time the transmission control ECU operates P CON MTR relay, activates parking lock actuator with appropriate control of electric current, and lights up main SW when shift is at P range. If the system has abnormality on parking lock operation, it tells the system abnormality to the driver by lighting up master warning light on combination meter, displaying warning of the system abnormality on the multi–display, and blinking indicator light of main SW.

5. Operation at Electric Power OFF

Under electric power OFF, transmission control ECU receives signal from power source control ECU by multi-communication, and sends shift range position information to hybrid vehicle control ECU. The hybrid vehicle control ECU sends signal to power source control ECU to tell whether it is right or wrong condition to turn off electric power. Accepted conditions for electric power OFF are as follows;

- * When hybrid vehicle control ECU is not sending request signal for parking lock release with shift range in P range position.
- * With shift range is at other range than P range, when hybrid vehicle control ECU is outputting signal that hybrid system is not running or request signal for parking lock.
- * When there is abnormal motor's not running condition with paring lock in operation, and hybrid system is not running and parking brake is being applied.

: Parts Location

Code See Pa		See Page	Code		See Page	Code		See Page
A	ا8	48	J13 B		50	P6		51
B5	Α	48	J1	14	50	P'	11	51
С	10	49	J1	15	50	S	1	47
)1	49	J1	16	50	S4	Α	51
G	61	49	J1	17	50	S5	В	51
H14	Α	49	J1	18	50	S7	Α	51
H15	В	49	J2	24	50	S8	В	51
H16	С	49	J2	25	50	S9	С	51
H17	D	49	M	15	47	S10	D	51
	3	47	M9	D	47	S11		51
J	J6 50 M10		M10 E		47	Sŕ	16	51
J9		50	M11		50	T4		51
J	10	50	М	13	50	T5		51
J12	J12 A 50 P2		2	51	Τ´	11	51	

) : Relay Blocks

	Code	See Page	Relay Blocks (Relay Block Location)
I	3	22	Engine Room R/B (Engine Compartment Left)

0

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E		
1F	30	
1G		Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L	31	
1M	31	
3C	23	
31	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3J	27	
4C		
4D		
4E		
4F		
4G	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)
4H		
41		
4J 4K		
4K 4L		
5A		
5C		
5D		
5E		
5F		
5G		
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)
51		
5J		
5K		
5L		
5M		

: Connector Joining Wire Harness and Wire Harness

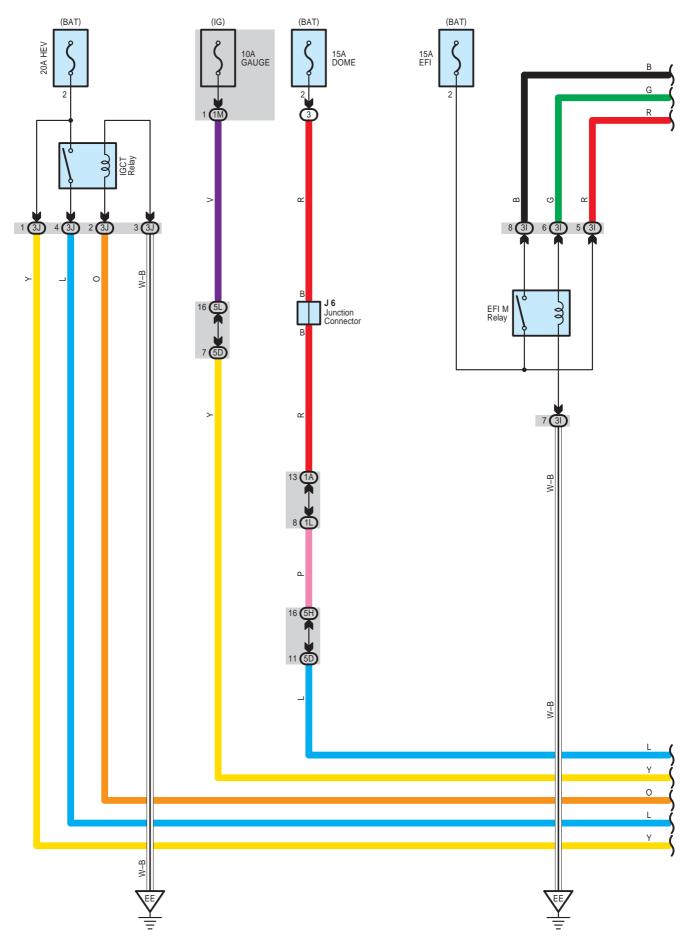
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
EB1	56	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)				
IA1						
IA2	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)				
IA3	1					
IG1	- 59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)				
IG2	1 39	Institution ratio wife and institution ratio No.2 wife (Behind the Combination Neter)				
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)				
IJ1	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)				

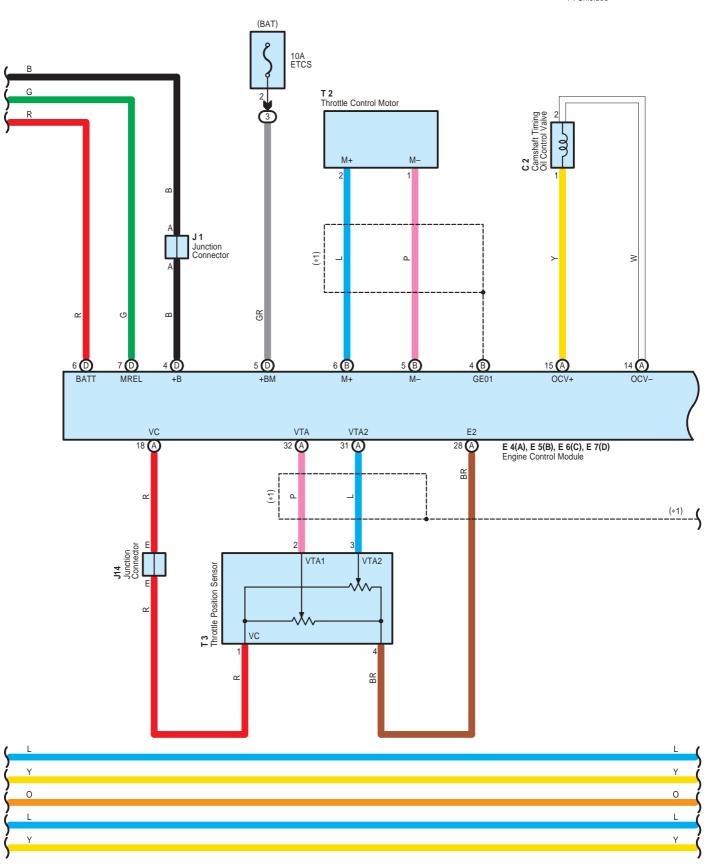
Shift Control System

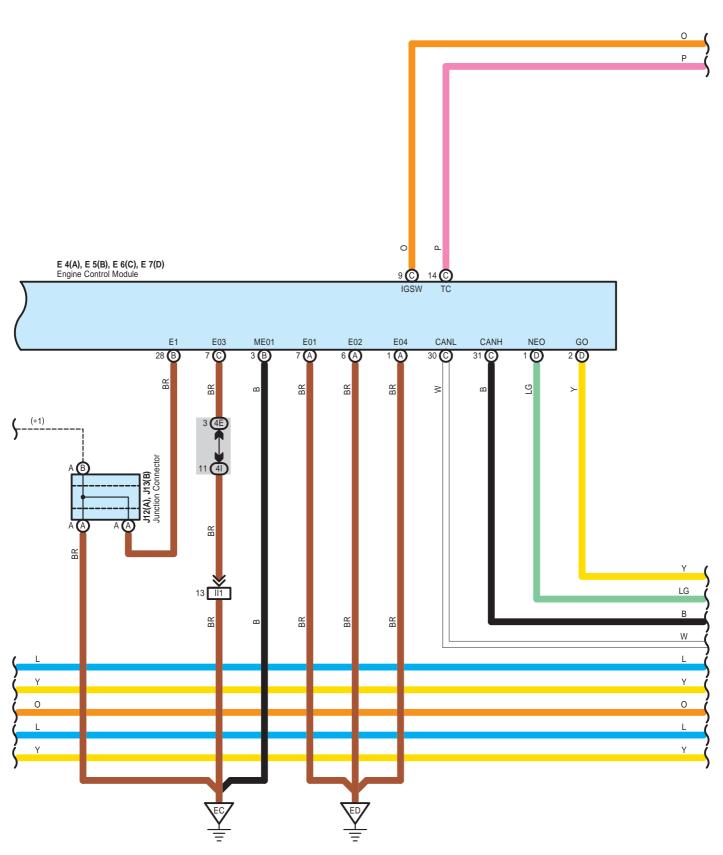
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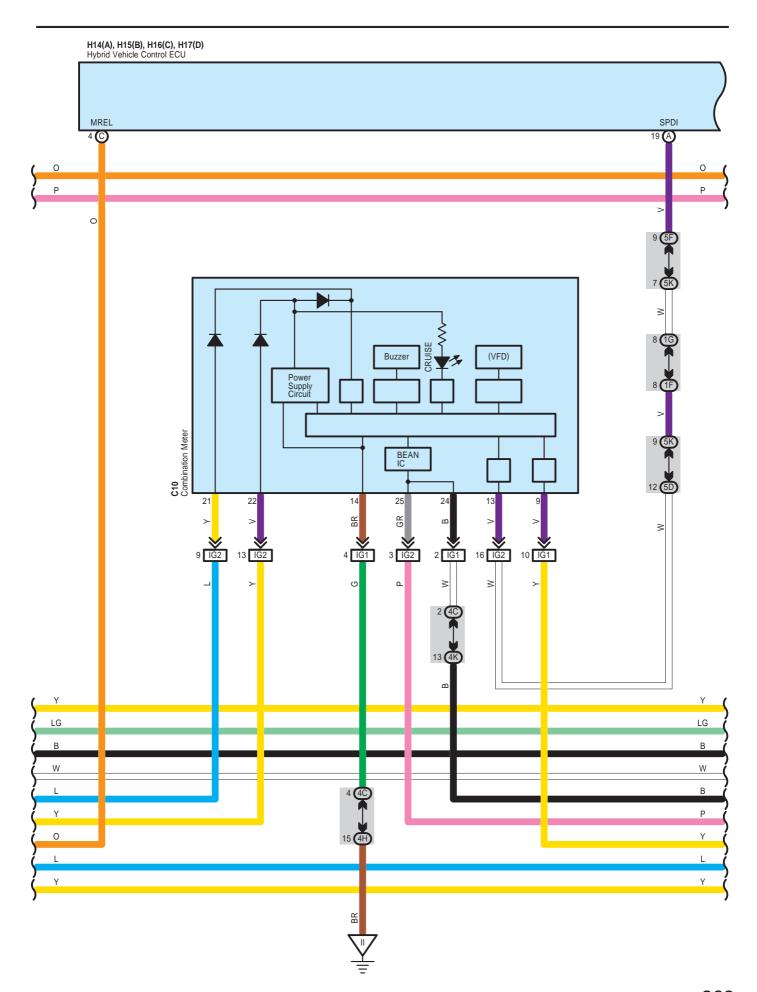
: Ground Points

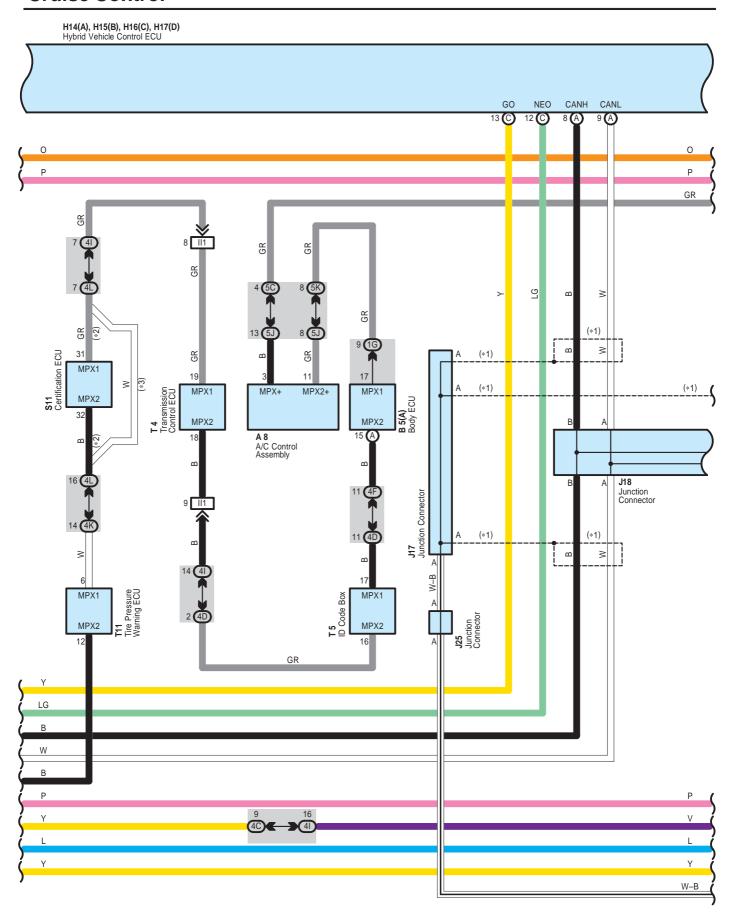
Code	See Page	Ground Points Location			
EE	56	Left Side of the Suspension Tower			
EF	30	Left Side of the Suspension Tower			
IH	58	Cowl Side Panel LH			
II	58	Instrument Panel Brace LH			

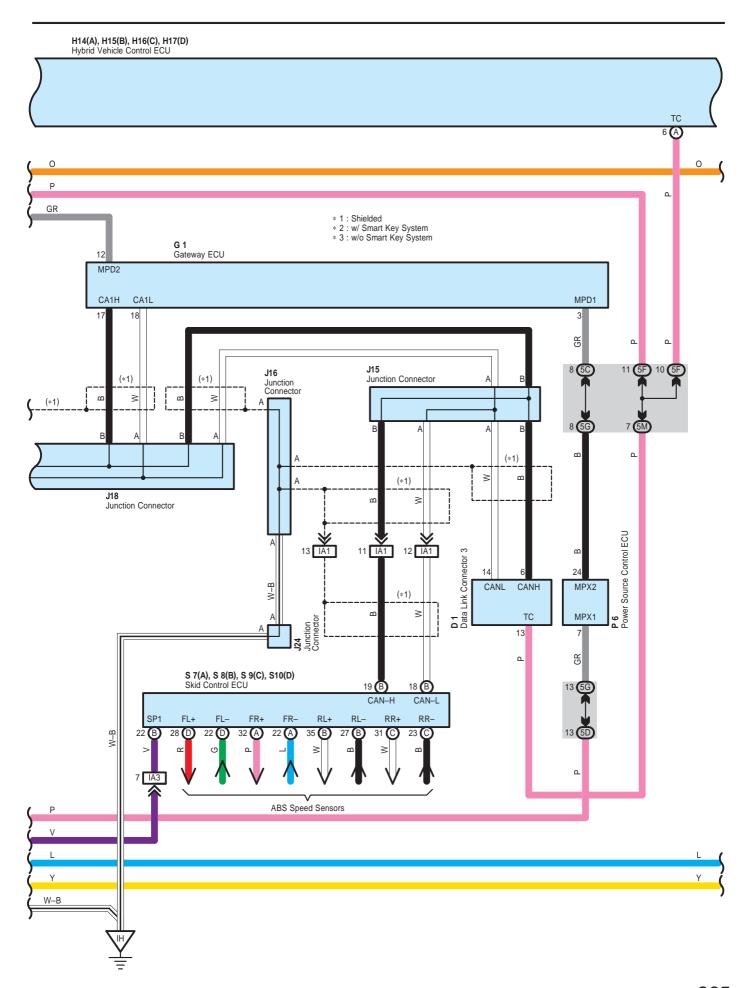


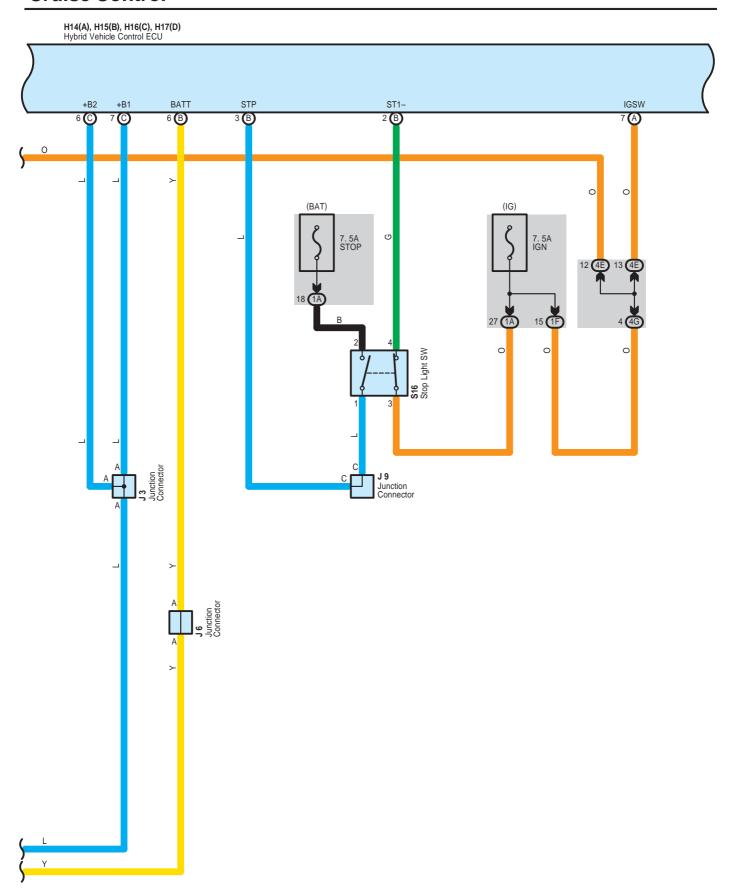


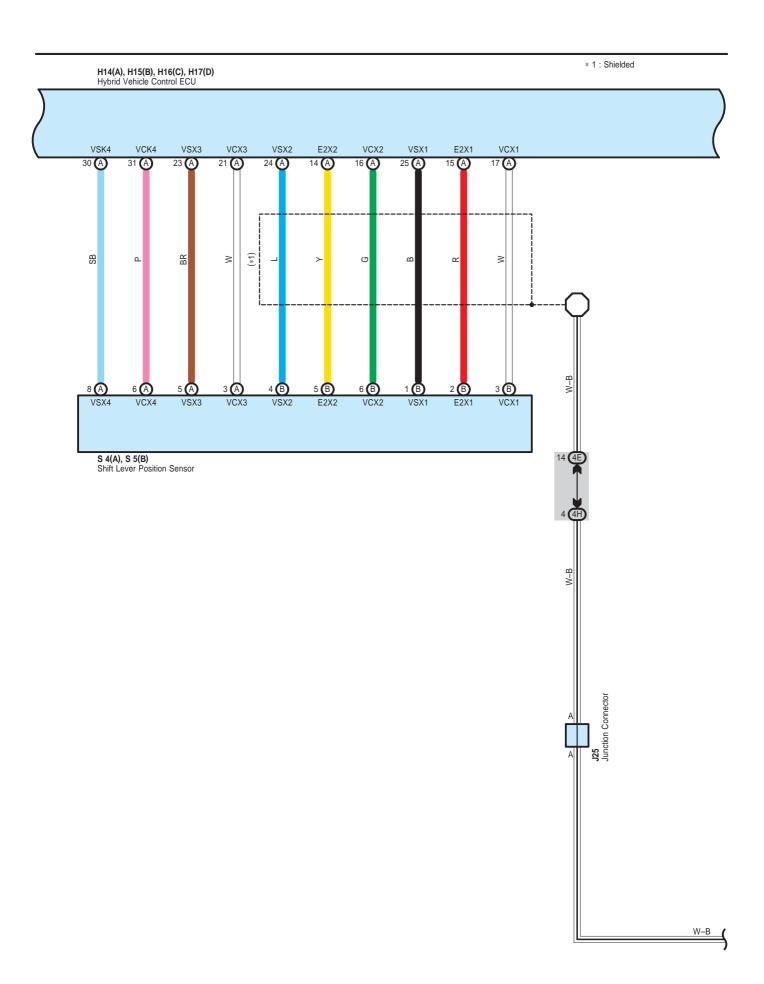


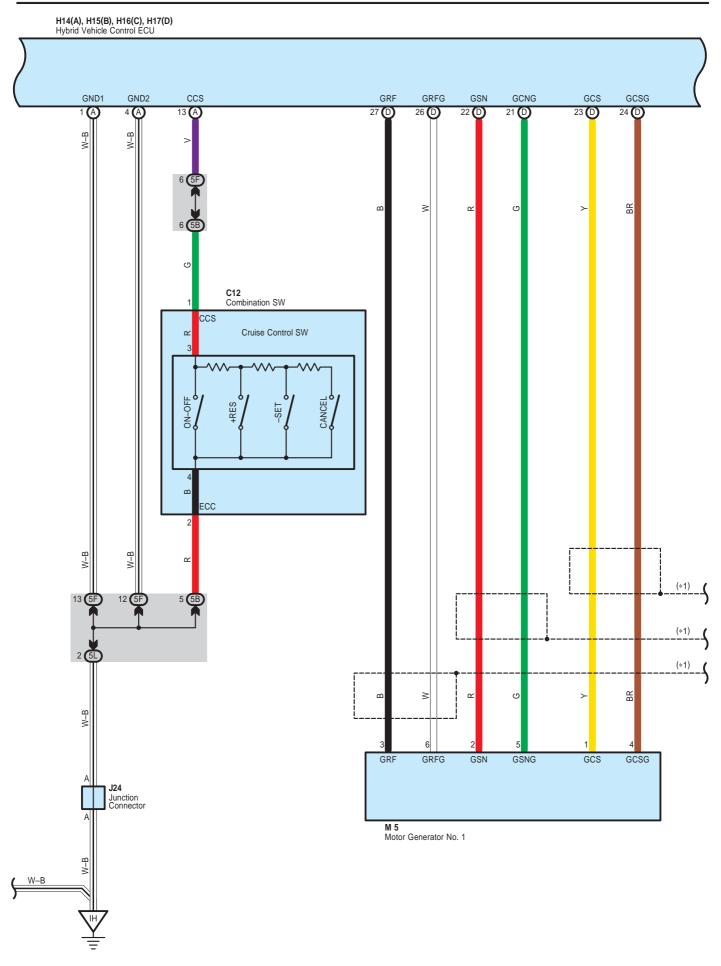


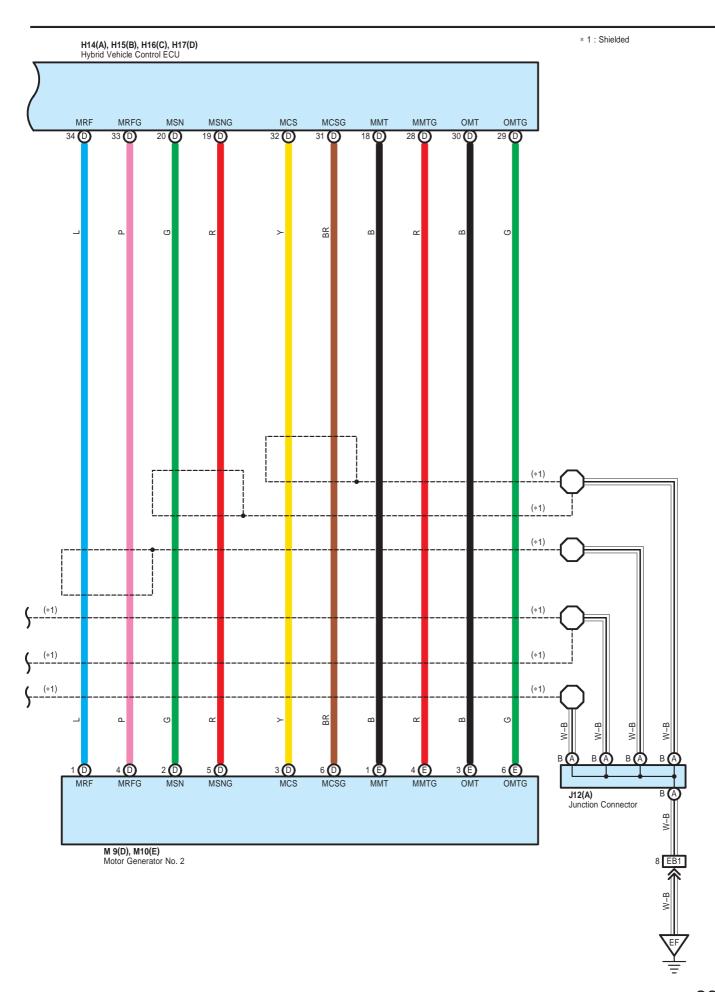












System Outline

Cruise control is the speed control device, which can set desired speed by just operating the switch on the control panel without applying the accelerator pedal. The device can be used when driver would like to drive the vehicle at fixed speed.

1. Set Control

If the cruise control switch is pushed to – SET side and hand is released from the switch during driving, (The available range of set speed: between 40 and 200 km/h) with the ON–OFF switch at ON (Power indicator comes on), the device stores vehicle speed at that time and controls it constantly at the set speed.

2. Set Speed Control

The device compares the actual vehicle speed with the set speed, and controls the driving power of the motor and the engine by calculating the cruise control requirements to drive it constantly at the set speed.

3. Coast Control

If the cruise control switch is kept pushed to the – SET side during driving in the cruise control mode, the device recognizes the cruise control requirement is at zero and decelerates the vehicle speed. When hand is released from the cruise control switch, the device stores the vehicle speed while the vehicle speed is decelerating. From then on, vehicle speed is controlled to stay at that speed.

Every time the switch is operated to – SET side momentarily (For about 0.5 seconds), the set speed is decreased by about 1.6 km/h. However, in case of tap–down operation to make more than 5 km/h gap between the set speed and the actual vehicle speed, the device recalls the original set speed and controls it at the speed constantly.

4. Accel Control

If the cruise control switch is kept pushed to the + RES side during driving in the cruise control mode, the device recognizes the cruise control is on the acceleration side and accelerates the vehicle speed. When hand is released from the cruise control switch, the device stores the vehicle speed at that time and controls it with the set speed constantly.

Every time the switch is operated to + RES side momentarily (For about 0.5 seconds), the set speed is increased by about 1.6 km/h. However, in case of tap—up operation to make more than 5 km/h gap between the set speed and the actual vehicle speed, the device does not change the set speed. (Tap—up operation is not available.)

5. Resume Control

After the cruise control mode is cancelled by any one the cancel switches, the mode can be resumed and controlled at the set speed by operating the cruise control switch in the + RES direction providing that the vehicle speed has not dropped below the low speed limit [Approx. 40 km/h (25 mph)].

The mode cannot be resumed if the vehicle speed once drops below the low speed limit, because the speed in the memory is cleared.

6. Manual Cancel Control

If any of the following signals is sent to the device while the vehicle is running in the cruise control, the cruise control is cancelled accordingly.

- * Stop light switch: ON (Depressing the brake pedal)
- * CANCEL switch of control switch: ON
- * ON-OFF switch: OFF

7. Auto Cancel Function

- A) The set speed is cleared and the cruise control is canceled under the following conditions. The cruise main indicator blinks until the main switch is turned OFF. The speed control is unavailable unless the main switch is turned ON again.
- * When the stop light switch open or short-circuits.
- * When signal of sudden change in the vehicle speed is sent.
- B) The set speed is cleared and the cruise control is canceled under the following conditions.
- * When there is malfunction of the stop light switch input circuit.
- * When the vehicle speed becomes lower than 40 km/h.
- * When the vehicle speed becomes lower than the speed that 16 km/h is subtracted from the set speed.

: Parts Location

Co	Code See Page C		Code		See Page	Code		See Page
А	A8 48 J1		1	47	M10	Е	47	
B5	Α	48	J	3	47	Р	6	51
С	2	46	J	6	50	S4	Α	51
С	10	49	J	9	50	S5	В	51
С	12	49	J12	Α	50	S7	Α	51
D)1	49	J13	В	50	S8	В	51
E4	А	49	J14		50	S9	С	51
E5	В	49	J1	15	50	S10	D	51
E6	С	49	J1	16	50	S11		51
E7	D	49	J1	17	50	S ⁻	16	51
G	1	49	J1	18	50	T2		47
H14	А	49	J24		50	Т	3	47
H15	В	49	J25		50	T4		51
H16	С	49	M	15	47	Т	5	51
H17	D	49	M9	D	47	T.	11	51

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)					
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)					
1F	30						
1G	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)					
1L	31	Thistrument and wire and briver side 3/b (Lower Fillish Faller)					
1M	31						
31	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)					
3J		Linguis result water vite and Engine results 5 (Engine estimparament Esty					
4C]						
4D							
4E							
4F							
4G	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)					
4H							
41							
4K							
4L							
5B 5C							
5D	-						
5F	-						
5G	- - 42						
5H		Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)					
5J	-						
5K	1						
5L	1						
5M	1						

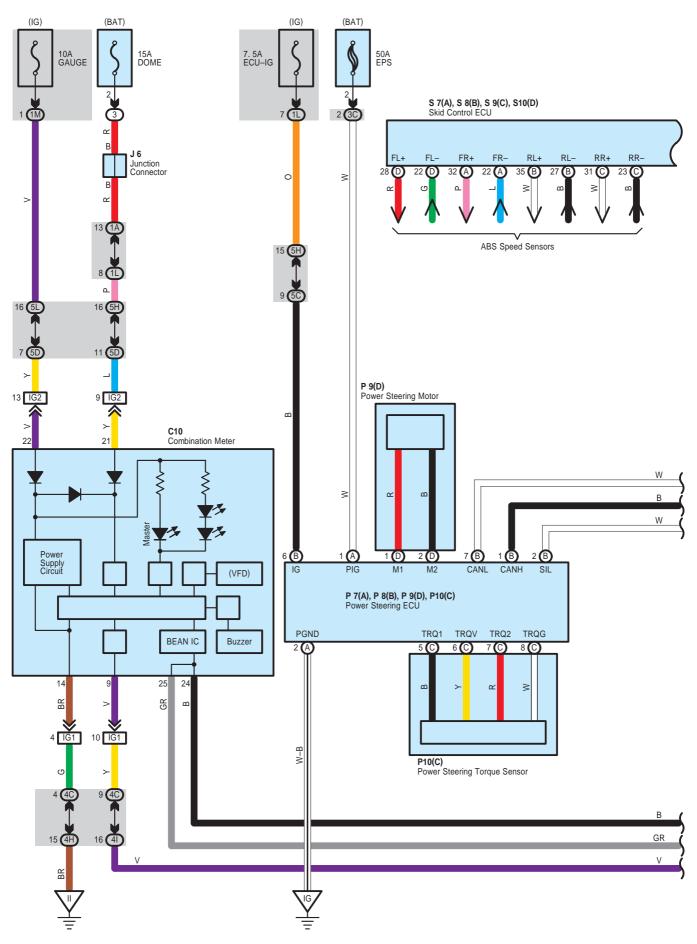
Cruise Control

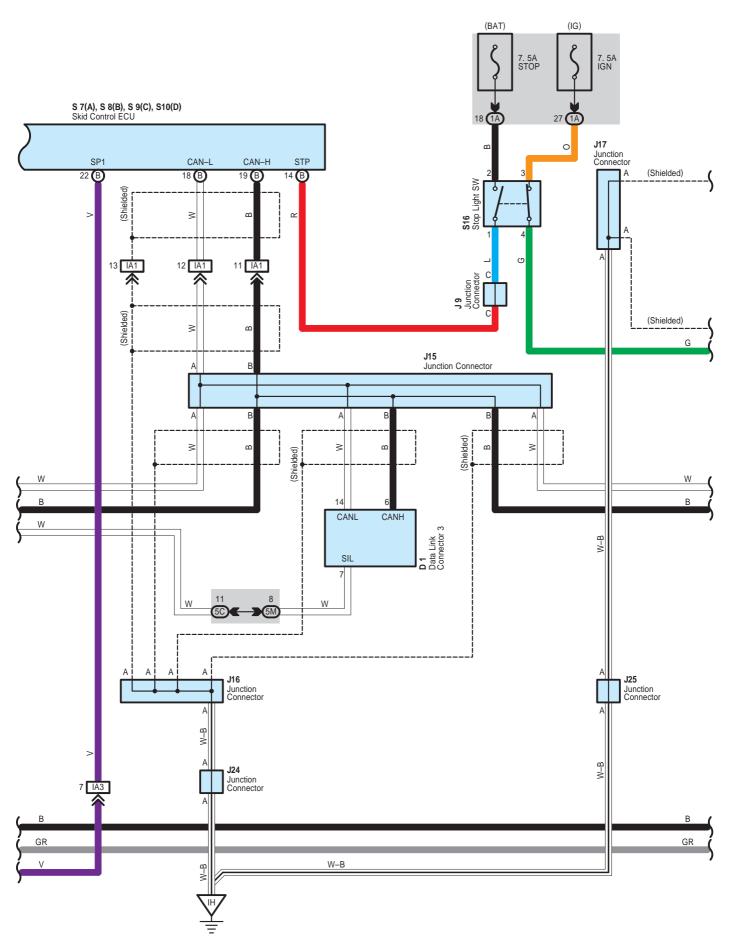
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
EB1	56	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)				
IA1	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)				
IA3	36	ngine Room Main wire and instrument Fanel Wire (Opper Fants of Front Body Fillar Ln)				
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)				
IG2	1 39	Institution (Faile) whe and institution Faile (No.2 whe (Deniil ditile Combination Neter)				
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)				

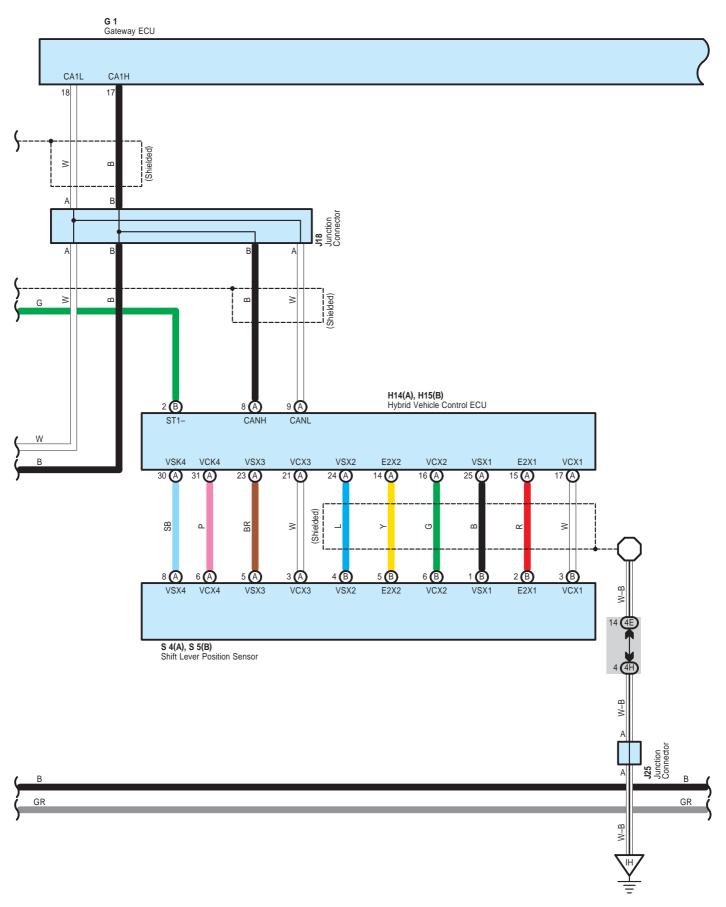
: Ground Points

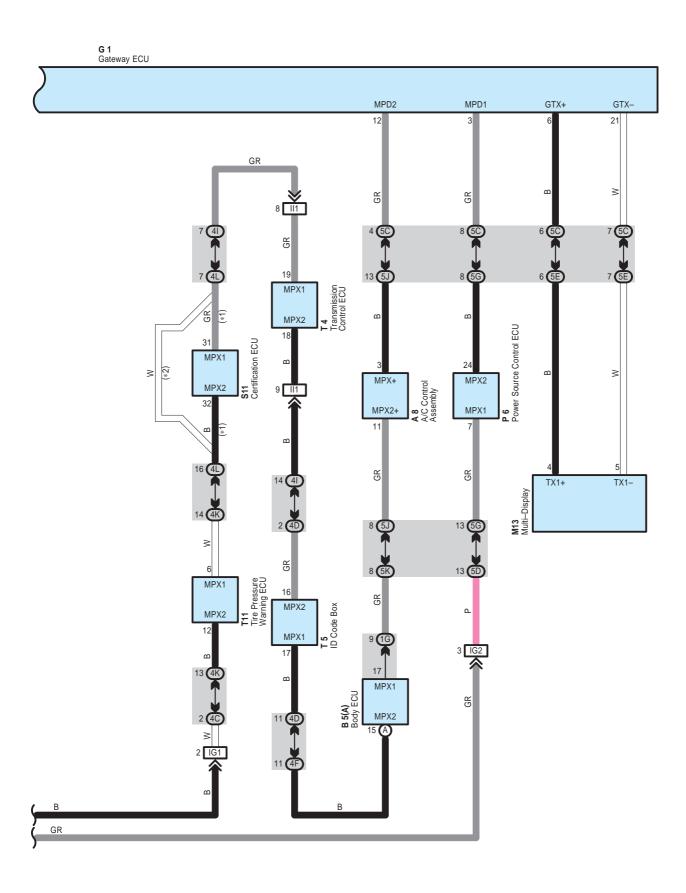
Code	See Page	Ground Points Location				
EC	56	Engine Block				
ED	30	Engine Block				
EE	56	Left Side of the Suspension Tower				
EF	Left Side of the Suspension Tower					
IH	58	Cowl Side Panel LH				
II	58	Instrument Panel Brace LH				





- * 1 : w/ Smart Key System * 2 : w/o Smart Key System





System Outline

This is a system to assist the driver to steer the vehicle with easy steering force. Based on torque signal of steering from power steering torque sensor, and vehicle speed and other vehicle information from skid control ECU, power steering ECU calculates assisting current to control power steering motor.

Under the system in abnormality, power source relay and motor relay in power steering ECU is shut down and master warning lamp on combination meter blinks as well as P/S warning is indicated, resulting to stop the assistance.

: Parts Location

Co	Code See Page Code		de	See Page	Co	de	See Page	
А	8	48	J17		50	S5	В	51
B5	Α	48	J1	18	50	S7	Α	51
C.	10	49	J24		50	S8	В	51
D	D1 49 J25		25	50	S9	С	51	
G	1	49	M13		50	S10	D	51
H14	Α	49	Р	6	51	S11		51
H15	В	49	P7	Α	51	S	16	51
J	6	50	P8	В	51	Т	4	51
J9		50	P9	D	51	Т	5	51
J15		50	P10	С	51	T.	11	51
J1	6	50	S4	Α	51			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

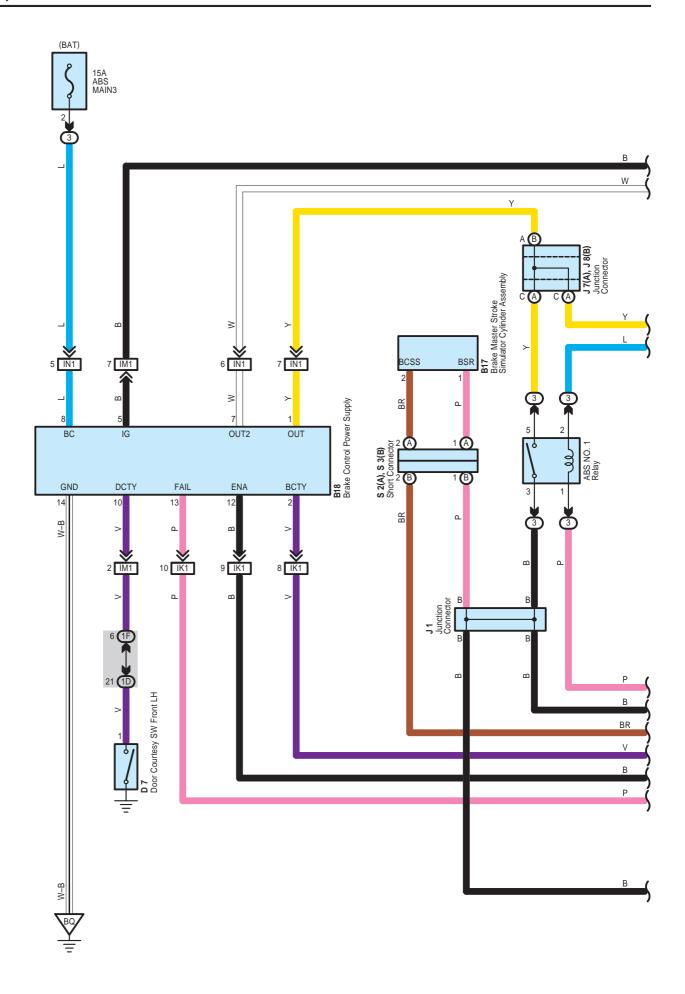
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1G	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1L		
1M		
3C	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
4C		Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)
4D]	
4E	- - - - - - -	
4F		
4H		
41		
4K		
4L		
5C	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)
5D		
5E		
5G		
5H		
5J		
5K		
5L		
5M		

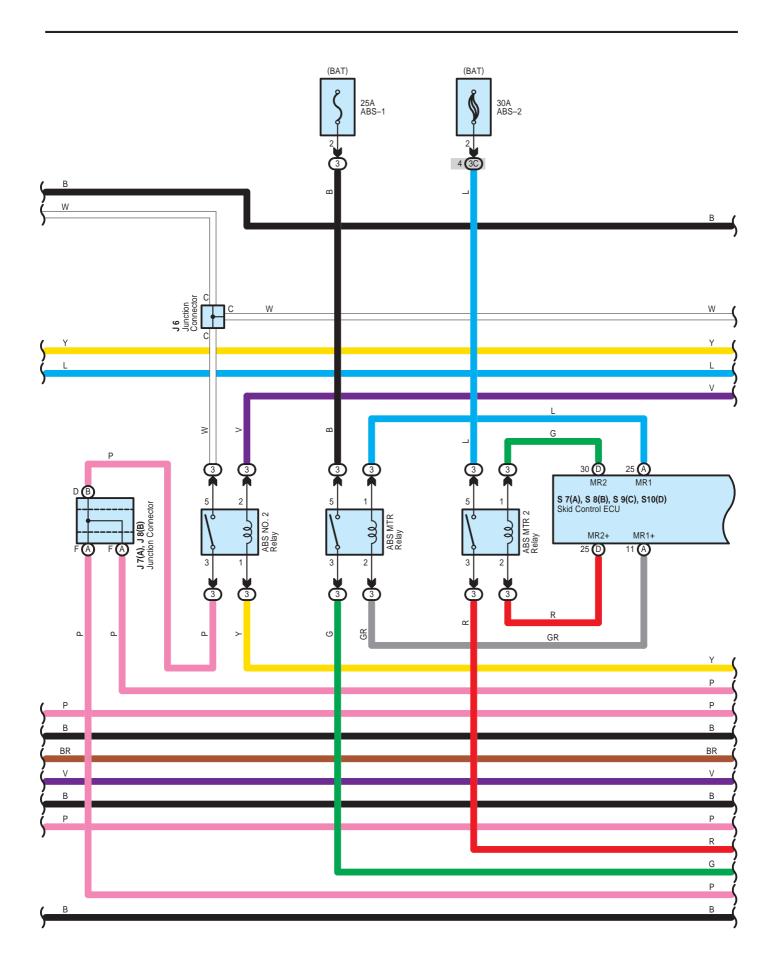
: Connector Joining Wire Harness and Wire Harness

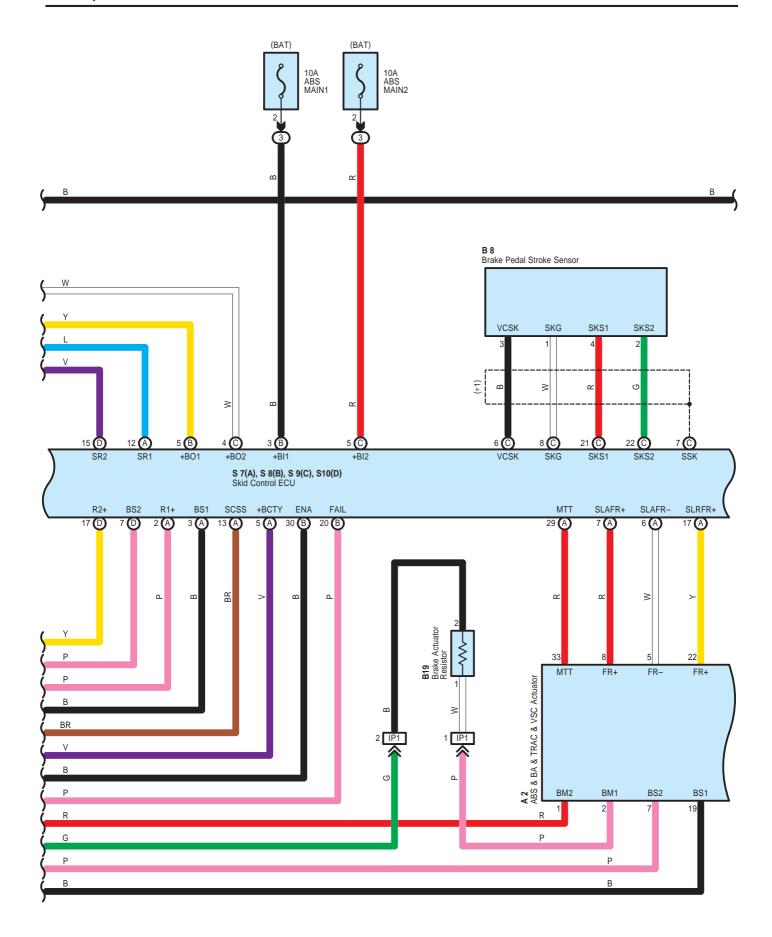
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	- 58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)
IA3		
IG1	- 59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)
IG2		
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

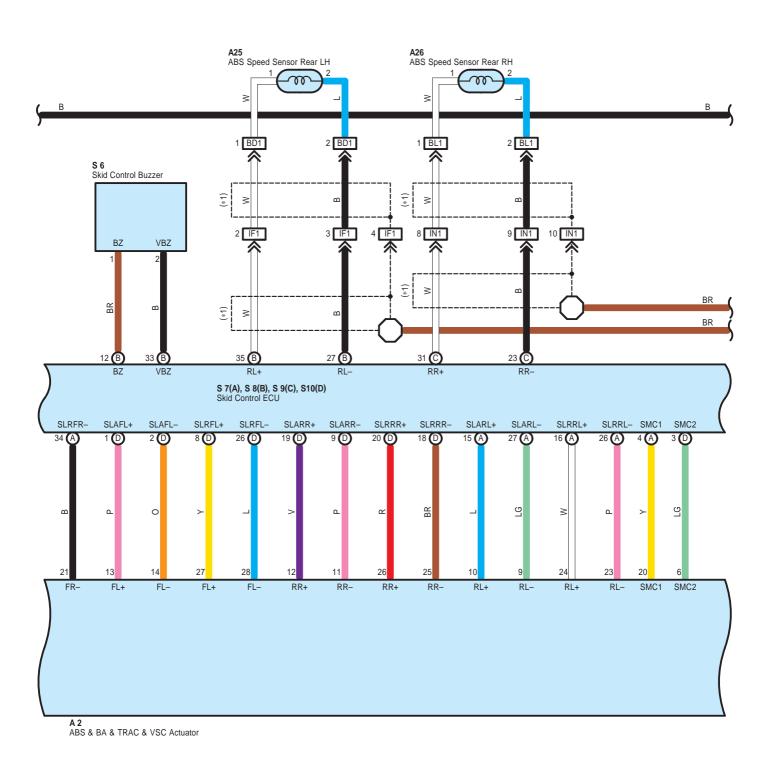
: Ground Points

Code	See Page	Ground Points Location
IG	58	Cowl Side Panel LH
IH] 30	Cowi Side i aliei Li i
II	58	Instrument Panel Brace LH

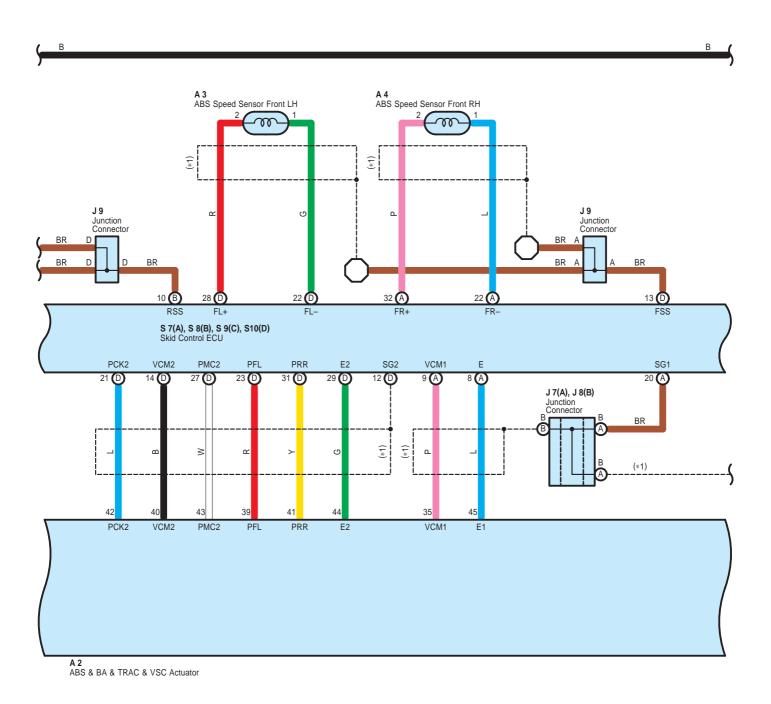


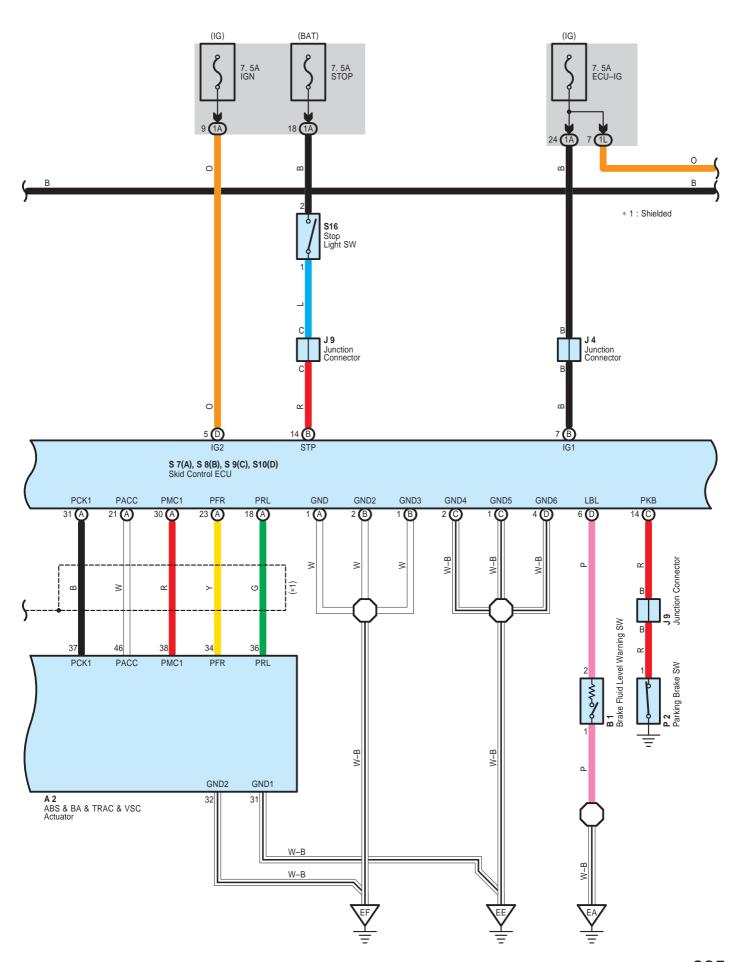


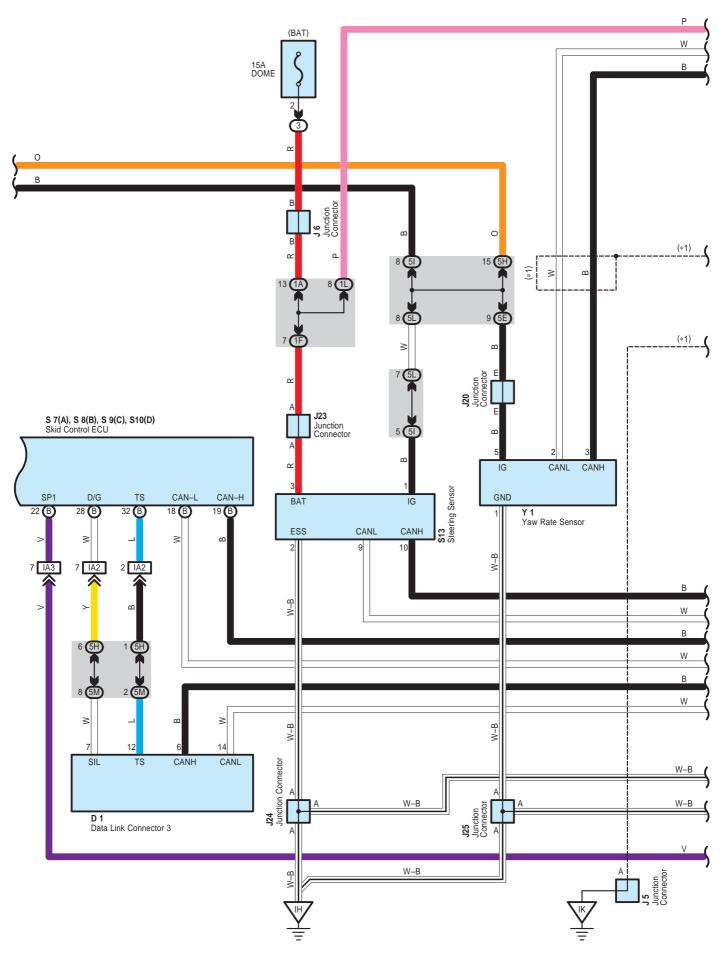


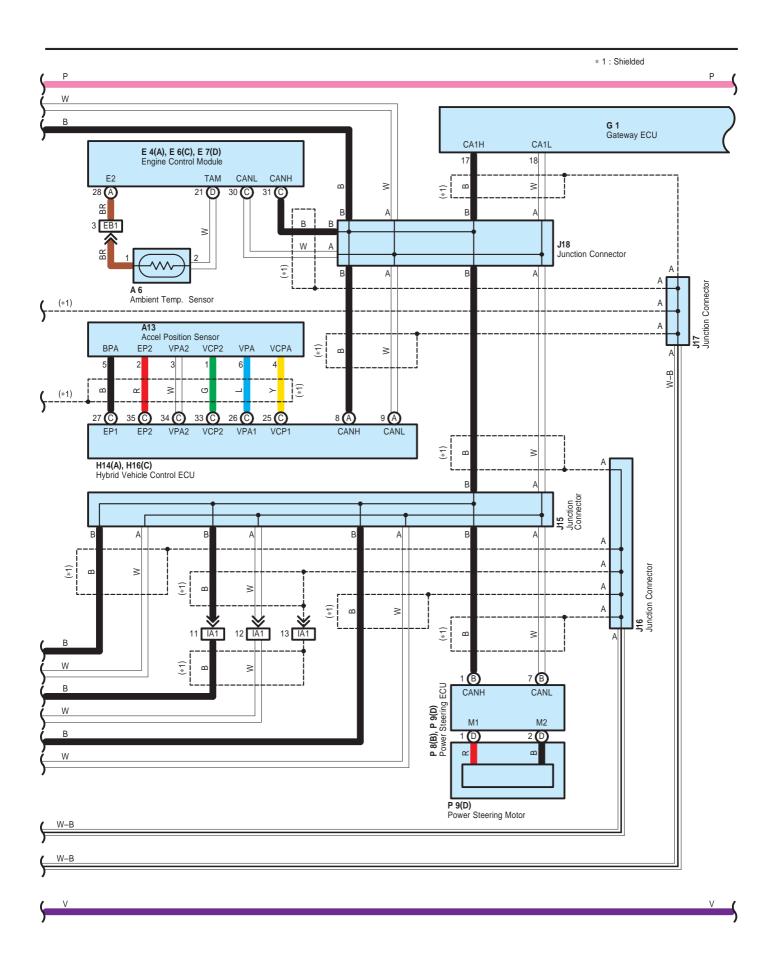


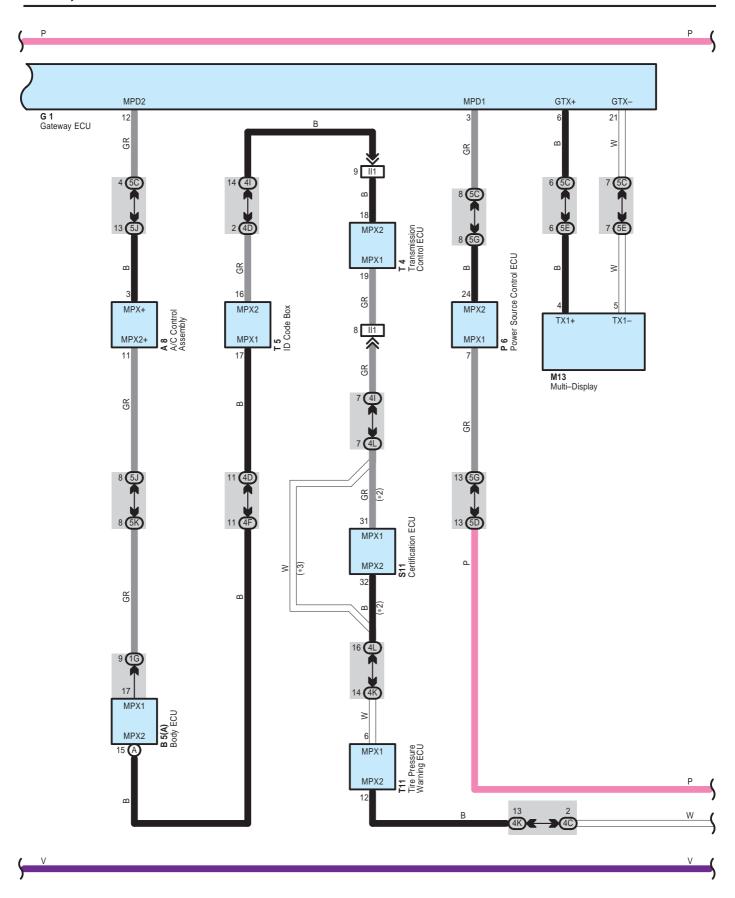
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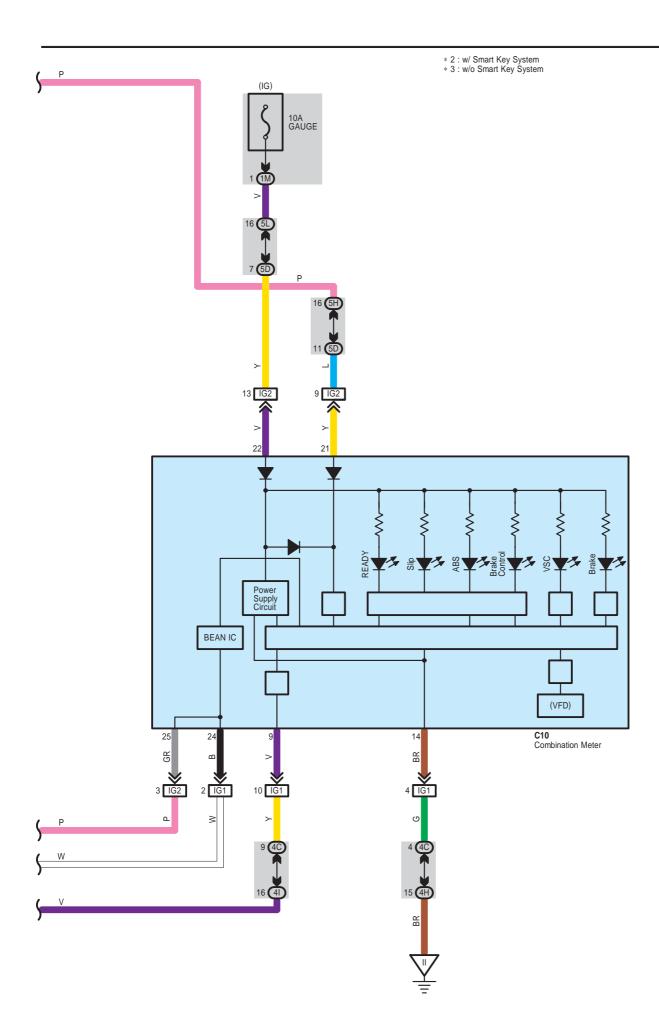












System Outline

1. ABS Operation

If the brake pedal is depressed suddenly, the ABS controls the hydraulic pressure of all the four wheel cylinders to automatically avoid wheel locking and to ensure the directional and steering stability of the vehicle. Under the situation, the skid control ECU controls the solenoids in the actuators, using the signals from the sensors to move the brake fluid to the reservoir in order to release the braking pressure applied to the wheel cylinder. If the skid control ECU detects that the fluid pressure in the wheel cylinder is insufficient, the ECU controls the solenoids in the actuators to increase the braking pressure.

2. Electronic Brake-Force Distribution

Skid control ECU distributes appropriate brake–force to front and rear wheels (Control of brake–force distribution to front and rear wheels) corresponding to the vehicle driving conditions. It also makes effective use of rear wheel brake–force to match loading condition and decelerating of the vehicle, resulting to reduce depressing of brake pedal and to ensure effective braking. In braking during making a turn, the ECU controls appropriate brake–force distribution to right and left wheels (Control of brake–force distribution to right and left wheels) to ensure stability and braking of the vehicle.

3. Brake Assist System

Skid control ECU recognizes emergency braking from detecting applying speed of brake pedal and brake travel, and controls braking effectiveness to supply strong brake–force for the emergency braking.

4. VSC Operation (w/ VSC)

Unexpected road conditions, emergency situation, and any other external factors may cause large under—or over—steering of the vehicle. If they occur, the VSC system automatically controls the driving power and wheel brakes to reduce the under—or over—steering.

To reduce large over-steering:

If the VSC system determines that the over–steering is large, it activates the brakes for the outer turning wheels depending on the degree of the over–steering to produce the moment toward the outside of the vehicle and reduce the over–steering. To reduce large under–steering:

If the VSC system determines that the under-steering is large, it controls the driving power and activates the front wheel brakes and rear inner side wheel brake to reduce the under-steering.

If there is malfunction in the VSC system, the VSC indicator lights up to warn the driver.

5. Mutual System Control

Due to cooperative control with hybrid vehicle control ECU, skid control ECU controls hydraulic brake to collect much electrical energy by making the most use of regenerative brake.

Skid control ECU also improves stability of the vehicle, performing cooperative control with power steering ECU to give steering torque assistance, corresponding to driving conditions. (w/ VSC)

6. Electric Source Backup Function

Electric charge is stored in brake control power supply. If voltage of vehicle electricity is declined, electric charge is released to cover electric supply to the system.

7. Fail Safe Function

Skid control ECU monitors the system component parts electrically. In case there is abnormality in ECU, sensor signal and actuator, normal parts except parts with abnormality continue braking operation.

Even in case braking is shut off due to malfunction of oil pressure source, braking is secured as master cylinder pressure made by manpower works on wheel cylinder.

In case only regenerative brake is not effective due to abnormality in communication with hybrid vehicle control ECU, control will be changed to have oil pressure brake generate all the braking force

Code		See Page	Code		See Page	Code		See Page
A2		46	E7	D	49	M13		50
A	3	46	G	1	49	P2		51
A ²	4	46	H14 A		49	P6		51
A	3	46	H16	С	49	P8	В	51
A8	3	48	J	1	47	P9	D	51
A1	3	48	J	4	47	S2	Α	47
A2	:5	52	J	5	50	S3	В	47
A2	6	52	J6		50	S6		51
B ²	1	46	J7	Α	50	S7	Α	51
B5	Α	48	J8	В	50	S8	В	51
В8	3	48	J	9	50	S9	С	51
B1	7	46	J ¹	15	50	S10	D	51
B1	8	52	J16		50	S11		51
B1	9	48	J1	7	50	S13		51
C10		49	J ¹	18	50	S16		51
D1		49	J2	20	50	T4		51
D7	7	52	J23		50	T5		51
E4	Α	49	J2	24	50	T11		51
E6	С	49	J2	25	50	Y1		51

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

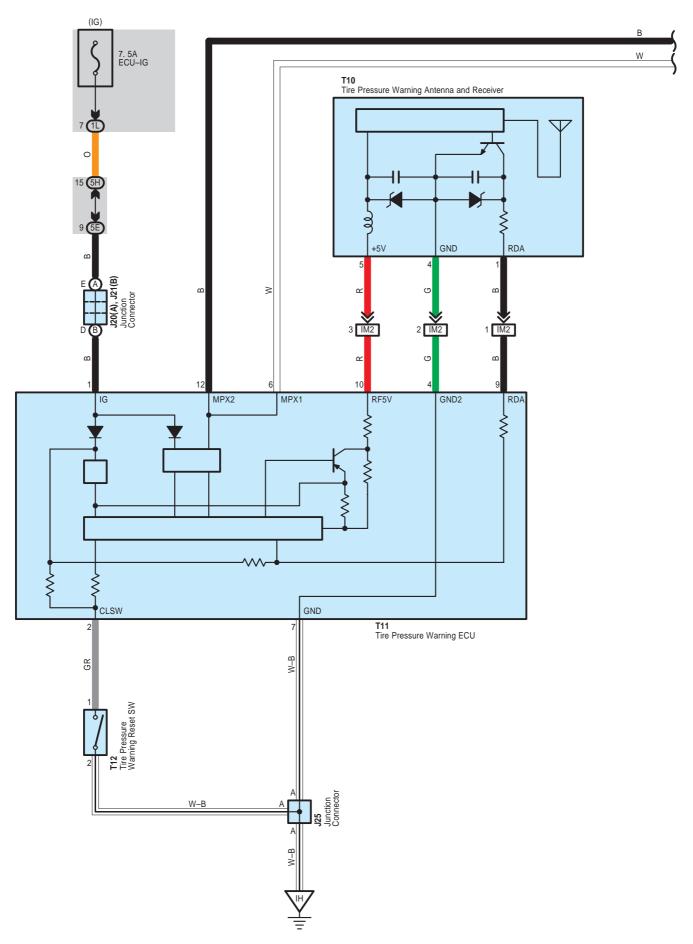
Code	See Page	Junction Block and Wire Harness (Connector Location)					
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)					
1D	30	Floor Wire and Driver Side J/B (Lower Finish Panel)					
1F	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)					
1G							
1L	31						
1M							
3C	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)					
4C							
4D							
4F		Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)					
4H	38						
41							
4K							
4L							
5C							
5D							
5E	_						
5G	_						
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)					
51							
5J							
5K	_						
5L	_						
5M							

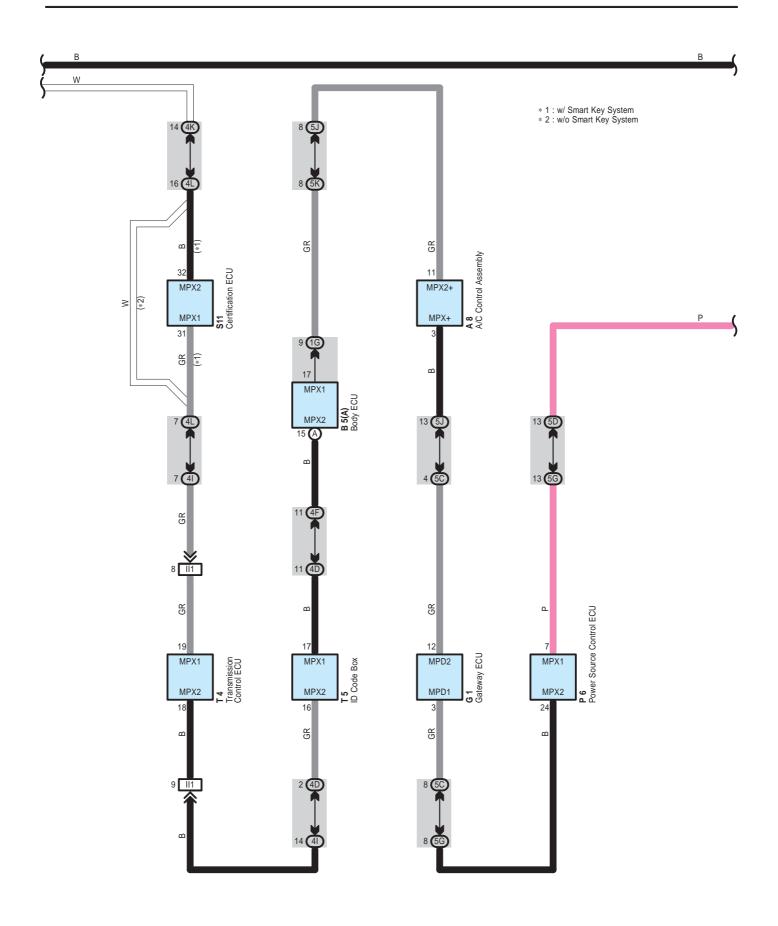
ABS, TRAC and VSC

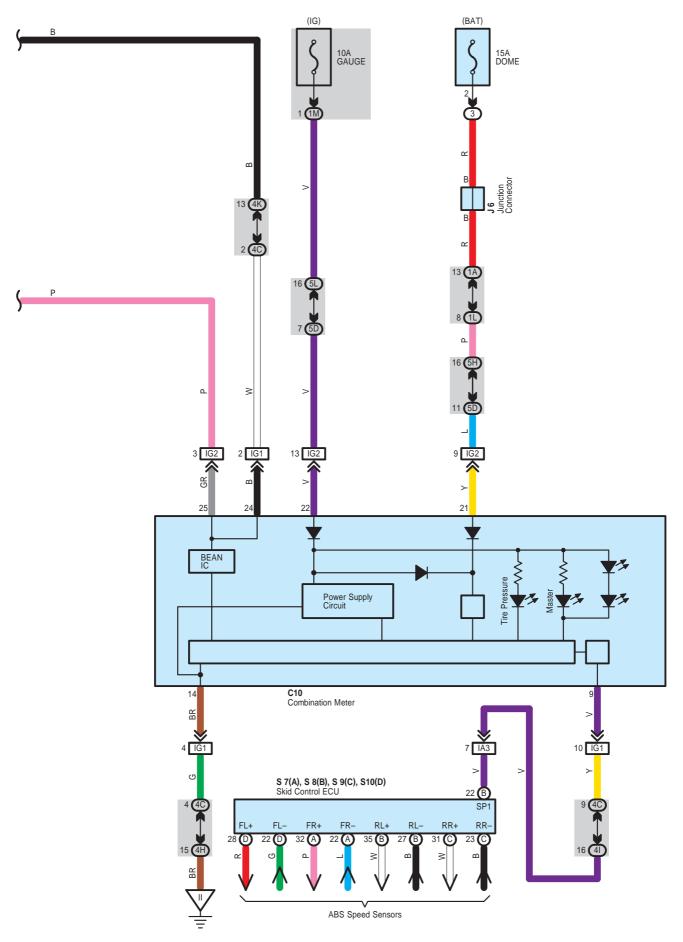
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
EB1	56	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)				
IA1						
IA2	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)				
IA3	1					
IF1	58	Floor Wire and Engine Room Main Wire (Left Kick Panel)				
IG1	- 59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)				
IG2	139	instrument and whe and instrument anervo.2 whe (behind the combination weter)				
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)				
IK1	59	Engine Room Main Wire and Floor No.2 Wire (Cowl Side Panel RH)				
IM1	59	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)				
IN1	59	Floor No.2 Wire and Engine Room Main Wire (Right Kick Panel)				
IP1	59	Engine Room No.2 Wire and Engine Room Main Wire (Upper Parts of Front Body Pillar LH)				
BD1	60	Skid Control Sensor No.1 Wire and Floor Wire (Front Side of Left Quarter Panel)				
BL1	61	Skid Control Sensor No.2 Wire and Floor No.2 Wire (Front Side of Right Quarter Panel)				

Code	See Page	Ground Points Location				
EA	56	Right Side of the Fender Apron				
EE	56	Left Side of the Suspension Tower				
EF	30					
IH	58	Cowl Side Panel LH				
II	58	Instrument Panel Brace LH				
IK	58	Cowl Side Panel RH				
BQ	60	Rear Side of Right Quarter Panel				







System Outline

- * In the tire pressure warning system, the warning light illuminates to alert the driver about the low tire pressure when the vehicle continues driving with one of the four tires under such low pressure to cause possible driving disturbance.
- * The air pressure sensors installed in the wheels measure air pressure in the tires directly.

: Parts Location

Co	ode	See Page	Code		See Page	Code	See Page
P	۸8	48	J25		50	T4	51
B5	Α	48	Р	6	51	T5	51
С	10	49	S7	Α	51	T10	55
(§1	49	S8	В	51	T11	51
_	16	50	S9	С	51	T12	51
J20	Α	50	S10	D	51		
J21	В	50	S′	11	51		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)				
1G	30					
1L	31	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)				
1M						
4C						
4D						
4F						
4H	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)				
41						
4K						
4L						
5C						
5D						
5E						
5G	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)				
5H		instantent and wire and contence to incettor two.2 (instantent)				
5J						
5K						
5L						

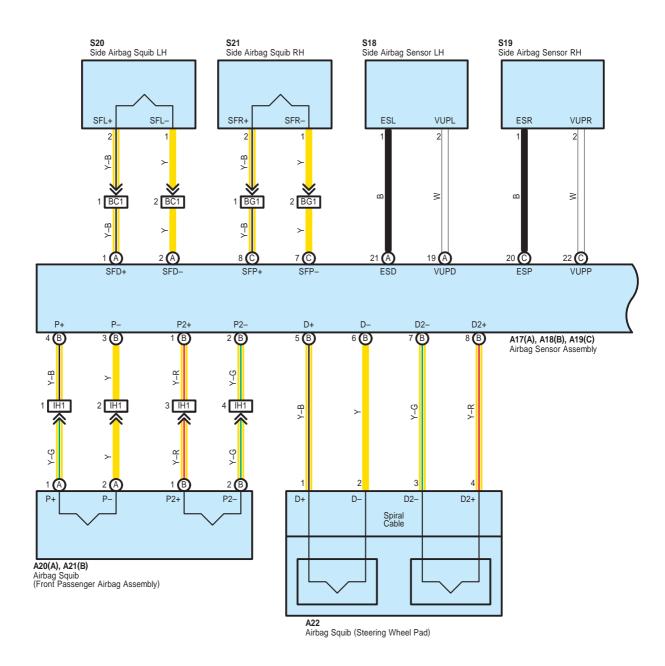
: Connector Joining Wire Harness and Wire Harness

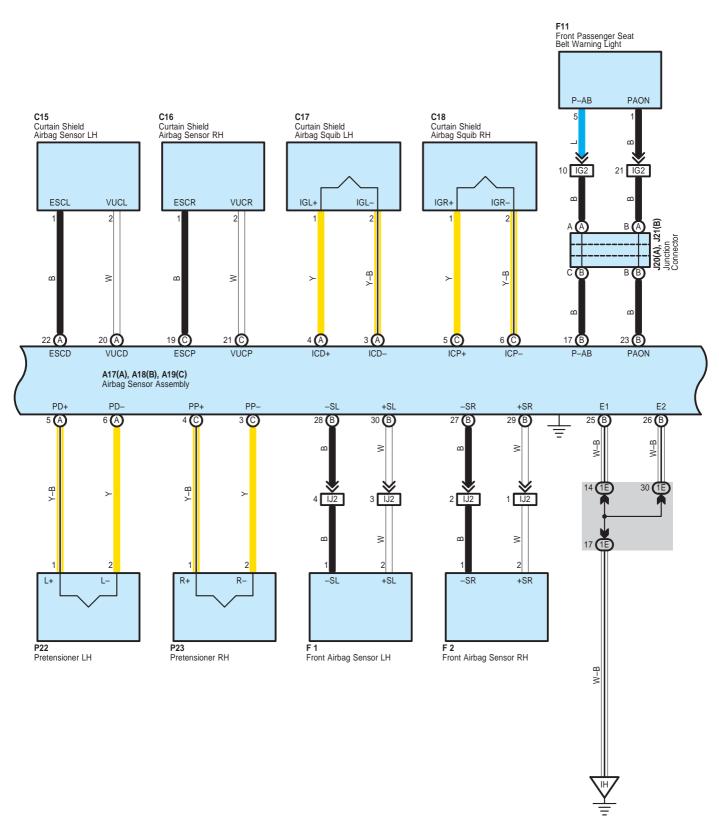
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)					
IA3	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)					
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)					
IG2	39	instrument Fanel while and instrument Fanel No.2 while (Berlind the Combination Meter)					
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)					
IM2	59	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)					

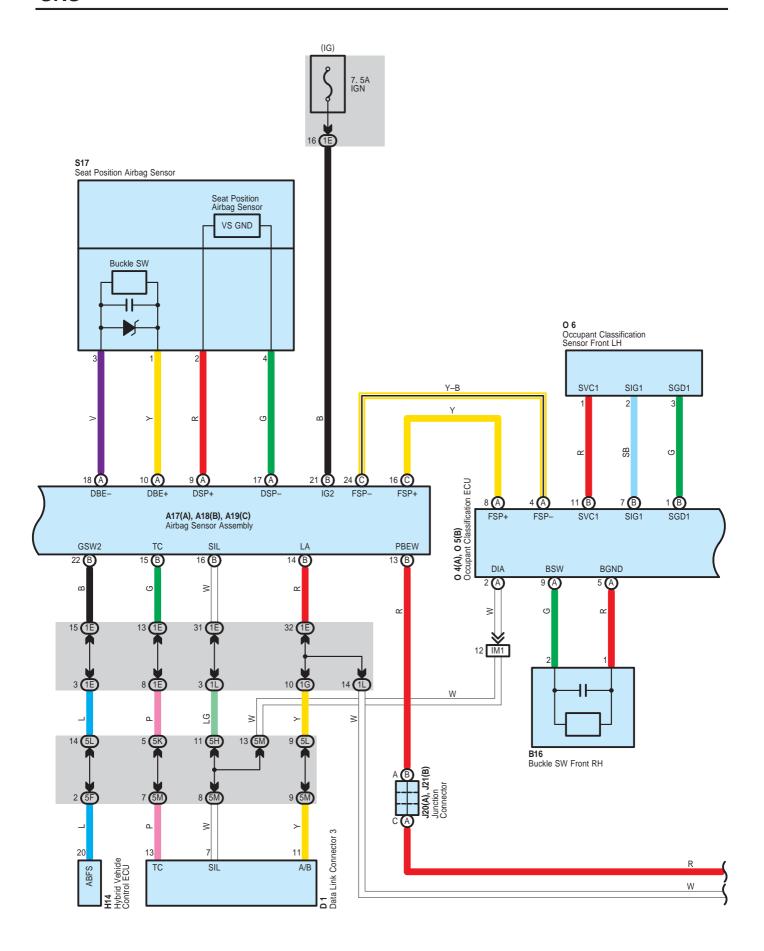
Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH
Ш	58	Instrument Panel Brace LH

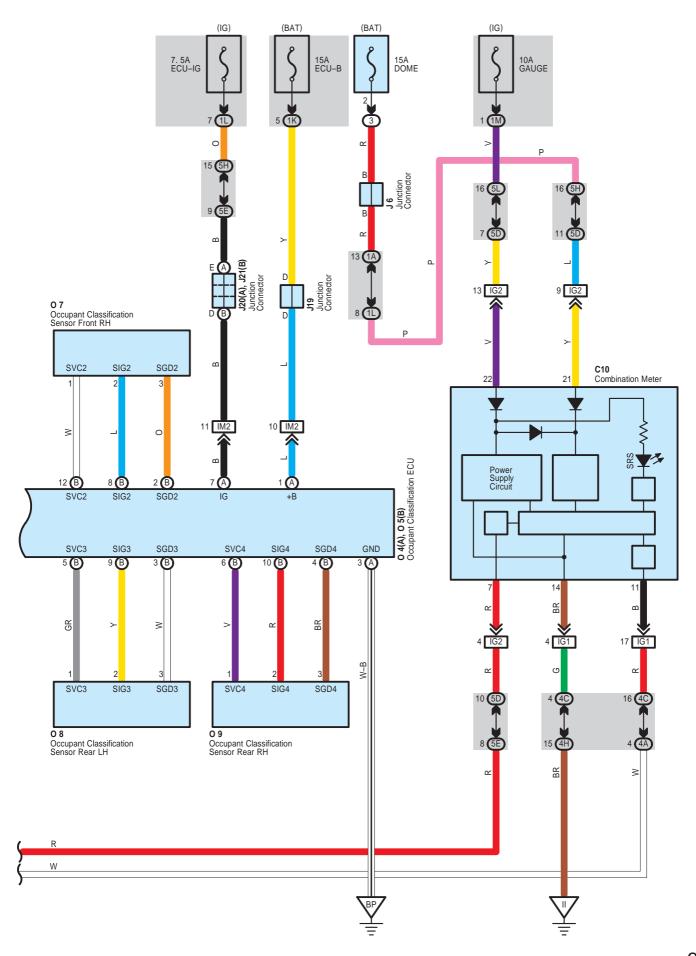
NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information
 when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- Work must be started more than 90 seconds after the power SW is pushed to the "OFF" position and the
 negative (-) terminal cable is disconnected from the battery.
 (The SRS is equipped with a back-up power source so that if work is started within 90 seconds from
 disconnecting the negative (-) terminal cable of the battery, the SRS may deploy.)
- When the negative (-) terminal cable is disconnected from the battery, the memory of the clock and audio system will be cleared. So before starting work, make a record of the contents in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. Some vehicles have power tilt steering, power telescopic steering, power seat and power outside rear view mirror which are all equipped with memory function. However, it is not possible to make a record of these memory contents. So when the work is finished, it will be necessary to explain it to your customer, and ask the customer to adjust the features and reset the memory. To avoid erasing the memory in each system, never use a back—up power supply from outside the vehicle.
- Before repair, remove the airbag sensor if shocks are likely to be applied to the sensor during repair.
- Do not expose the following parts directly to hot air or flame;
- Even in cases of a minor collision where the SRS does not deploy, the following parts should be inspected;
- Never use SRS parts from another vehicle. When replacing parts, replace with new parts.
- For the purpose of reuse, never disassemble and repair the following parts.
- If the following parts have been dropped, or have cracks, dents and other defects in their case, bracket, and connector, replace with new one.
- Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting electrical circuits of the system.
- Information labels are attached to the periphery of the SRS components. Follow the instructions of the notice.
- After work on the SRS is completed, check the SRS warning light.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section of the Repair Manual.
 - * Steering wheel pad
 - * Front passenger airbag assembly
 - * Side airbag assembly
 - Curtain shield airbag assembly
 - * Seat belt pretensioner
 - * Center airbag sensor assembly
 - * Front airbag sensor assembly
 - * Side airbag sensor assembly
 - * Rear airbag sensor assembly









System Outline

- * The system reaches an ignition judgment to deploy the following device based on the signals received from the front airbag sensor and deceleration sensor.
 - Driver Airbag
 - Front Passenger Airbag
 - Seat Belt Pretensioner
- * The system reaches an ignition judgment to deploy the following device based on the signals received from the side airbag sensors.
 - Side Airbags
 - Curtain Shield Airbags
- * The dual-stage SRS airbag system has been used for the driver and front passenger airbags. This system controls the optimal airbag inflation by judging the extent of impact, seat position (driver seat), whether or not the seat belt is fastened (driver seat) and information from the front passenger occupant classification system.
- * The front passenger occupant classification system judges whether the front passenger seat is occupied by an adult or child (with child seat) or is unoccupied, according to the load applied to the front passenger seat and whether the seat belt is buckled. Based on the results, it restricts the deployment of the front passenger airbag, front passenger side airbag, and front passenger seat belt pretensioner. In addition, the system informs the driver of the result of the judgment through the use of the AIRBAG ON/OFF indicator lights.
- * The airbag sensor assembly transmits a signal to the engine control module in order to stop the fuel pump when the airbag is deployed.

: Parts Location

Co	Code See Page		Co	de	See Page	Code	See Page
A17	Α	48	D	1	49	07	54
A18	В	48	F	1	46	O8	54
A19	С	48	F	2	46	O9	54
A20	Α	48	F′	11	49	P22	54
A21	В	3 48		14	49	P23	54
A2	22	48	J6		50	S17	55
B ^r	16	52	J1	19	50	S18	55
C	10	49	J20	Α	50	S19	55
C15		52	J21	В	50	S20	55
C16		52	O4	Α	54	S21	55
C17		52	O5	В	54		
C.	18	52	0	6	54		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)



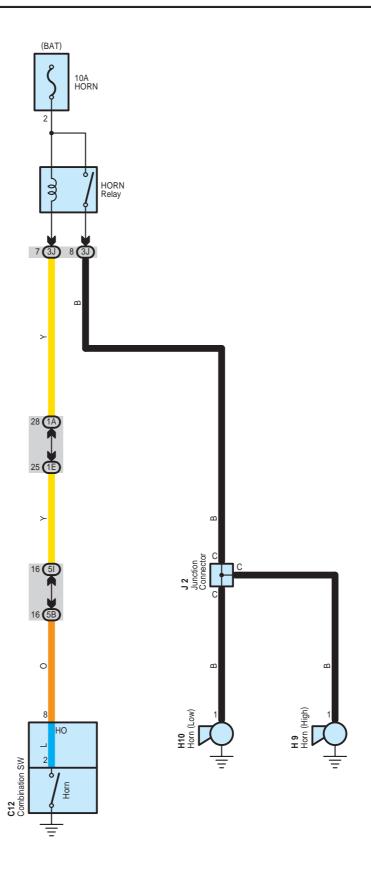
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E		
1F	30	
1G]	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1K		Thistitutient Fallet Wile and Driver Side 3/5 (Lower Fillish Fallet)
1L	31	
1M	1	
4A		
4C	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)
4H		
5D		
5E		
5F		
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)
5K		
5L		
5M		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IG1	- 59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)	
IG2	1 39	instrument Fanet write and instrument Fanet No.2 write (Benind the Combination Meter)	
IH1	59	Instrument Panel Wire and Instrument Panel No.1 Wire (Behind the Glove Box)	
IJ2	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)	
IM1	- 59	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)	
IM2	- 59	Instrument Fariet Wile and Floot No.2 Wile (Right Rick Fariet)	
BC1	60	Floor Wire and Seat Airbag No.1 Wire (Under the Driver's Seat)	
BG1	60	Floor No.2 Wire and Seat Airbag No.2 Wire (Under the Front Passenger's Seat)	

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH
II	58	Instrument Panel Brace LH
BP	60	Front Side of Right Quarter Panel

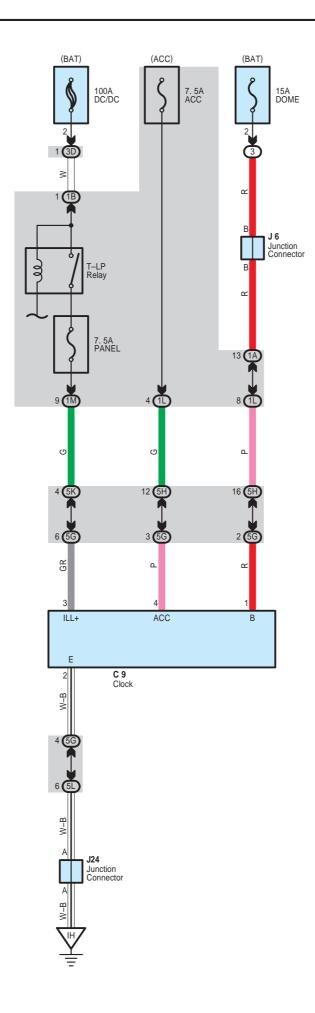


Code	See Page	Code	See Page	Code	See Page
C12	49	H10	46		
H9	46	J2	47		

0

: Junction Block and Wire Harness Connector

Code	See Page	unction Block and Wire Harness (Connector Location)	
1A	30	ngine Room Main Wire and Driver Side J/B (Lower Finish Panel)	
1E	30	strument Panel Wire and Driver Side J/B (Lower Finish Panel)	
3J	24	ngine Room Main Wire and Engine Room J/B (Engine Compartment Left)	
5B	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)	
51	42	Institution Failer Wile and Center Connector No.2 (institution Failer Brace NT)	



	Code	See Page	Code	See Page	Code	See Page
-	C9	49	J6	50	J24	50

: Relay Blocks

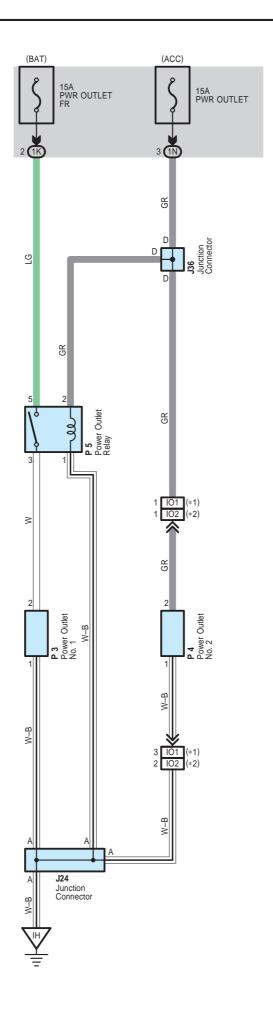
	Code	See Page	Relay Blocks (Relay Block Location)	
Ī	3	22	Engine Room R/B (Engine Compartment Left)	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)		
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)		
1B	30			
1L	31	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)		
1M	31	Thistitutient Fallet Wile and Driver Side 3/b (Lower Finish Fallet)		
3D	23	ngine Room Main Wire and Engine Room J/B (Engine Compartment Left)		
5G		Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)		
5H	42			
5K		Institution and vite and center connector No.2 (institution and blace it i)		
5L				

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH

- * 1 : Separate Amplifier * 2 : Built-in Amplifier



Code	See Page	Code	See Page	Code	See Page
J24	50	P3	51	P5	51
J36	50	P4	51		

0

: Junction Block and Wire Harness Connector

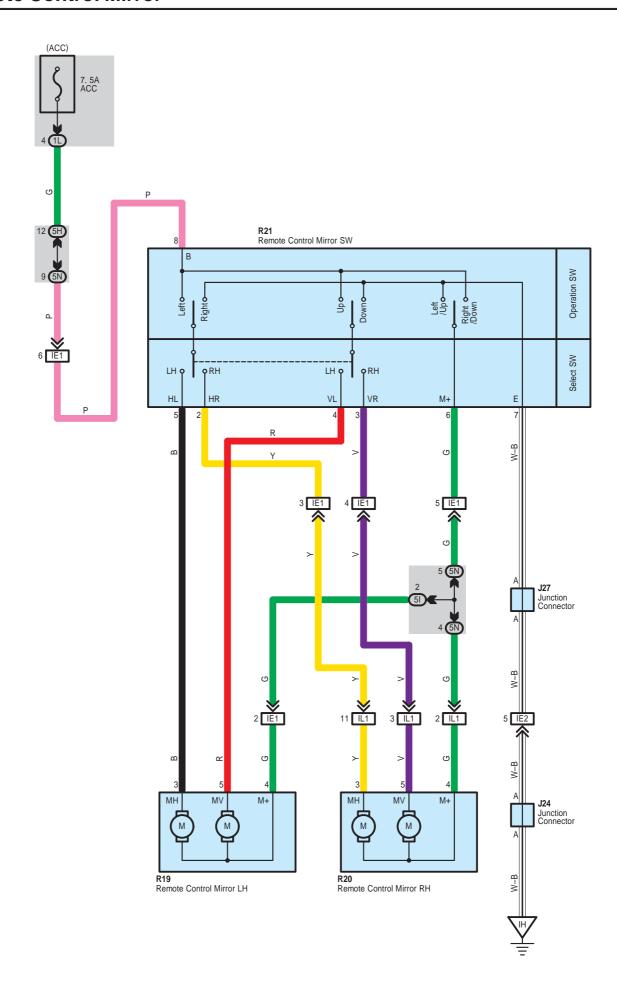
Code	See Page	Junction Block and Wire Harness (Connector Location)		
1K	31	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)		
1N	131	Instrument and whe and briver side 3/b (Lower Finish Faher)		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IO1	- 59	Instrument Panel Wire and Instrument Panel No.4 Wire (Front Console Box LH)			
102	39				

∇

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH



Code	See Page	Code	See Page	Code	See Page
J24	50	R19	54	R21	54
J27	53	R20	54		

0

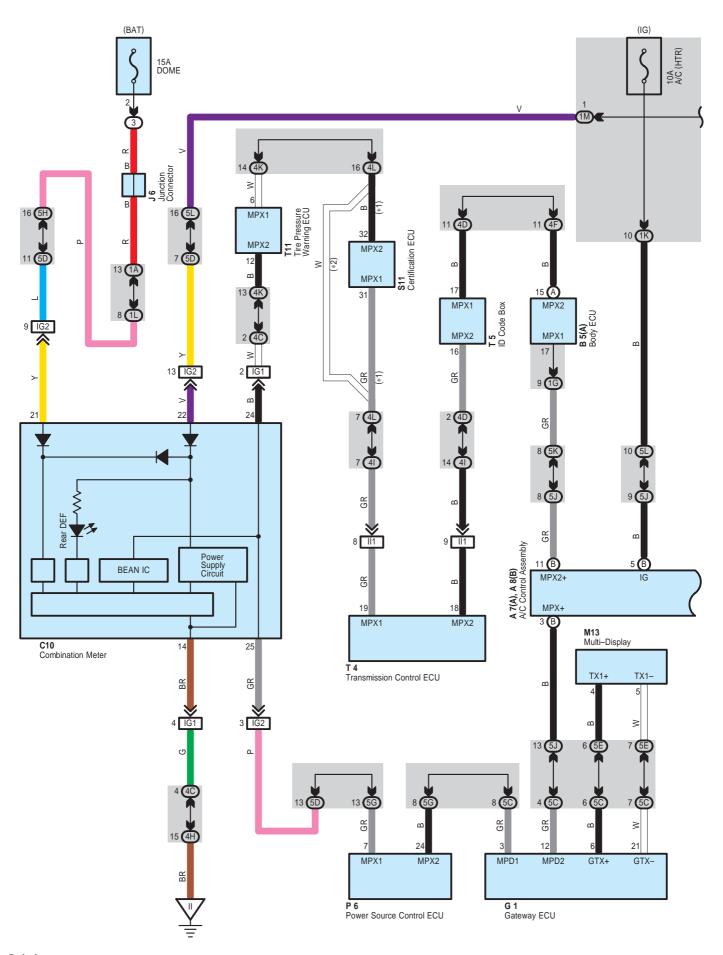
: Junction Block and Wire Harness Connector

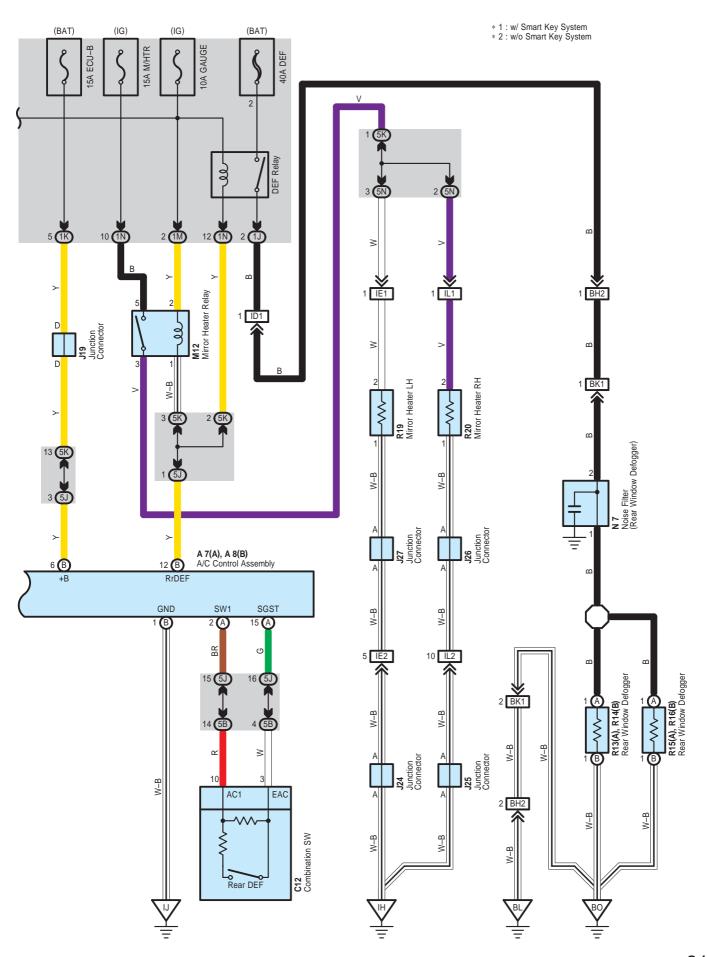
Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	31	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
5H		
51	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)
5N		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IE1	58	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)			
IE2	36	Front Door Erryvire and institution Fairer wire (Left Nick Fairer)			
IL1	59	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)			

	Code	See Page	Ground Points Location
Ī	IH	58	Cowl Side Panel LH





Rear Window Defogger and Mirror Heater

System Outline

When power SW is at IG ON position, turning ON rear DEF SW on the steering wheel sends signal to A/C control assembly. Then A/C control assembly flows electricity in TERMINAL Rr DEF, which activates DEF relay and mirror heater relay. As a result, rear DEF SW and mirror heater is turned on.

Turning ON rear DEF SW of multi–display sends signal to A/C control assembly. Then the same action follows as above. During rear window defogger and mirror heater in operation, signal is input in combination meter, lighting rear DEF indicator in combination meter.

: Parts Location

Co	ode	See Page	Co	de	See Page	Co	de	See Page
A7	Α	48	J2	25	50	R15	Α	54
A8	В	48	J2	26	53	R16	В	54
B5	Α	A 48		27	53	R′	19	54
С	10	49	M	12	50	R2	20	54
С	12	49	M	13	50	S	11	51
G	G1 49		N	17	54	Т	4	51
J	6	50	Р	6	51	Т	5	51
J.	19	50	R13	Α	54	T′	11	51
J2	24	50	R14	В	54			

: Relay Blocks

ode	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

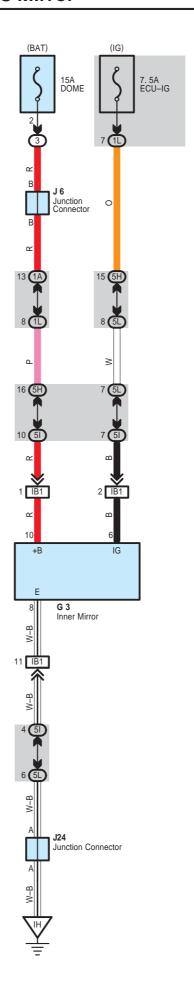
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)			
1G	30				
1J					
1K		Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)			
1L	31				
1M] "				
1N					
4C]				
4D]				
4F	1	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)			
4H	38				
41					
4K					
4L					
5B					
5C	-				
5D	-				
5E	-				
5G	- 42 - -	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)			
5H 5J					
55 5K					
5L					
5N	-				
DIN		1			

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
ID1	58	Instrument Panel Wire and Floor Wire (Left Kick Panel)			
IE1	- 58	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)			
IE2	36	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)			
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)			
IG2	1 39	instrument ranet wire and instrument ranet No.2 wire (behind the Combination Meter)			
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)			
IL1	59	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)			
IL2	39	FIGUR DOOLN'T WITE and instrument Famel Wite (Night Nick Famel)			
BH2	61	Back Door No.1 Wire and Floor Wire (Rear Side of Roof Panel)			
BK1	61	Back Door No.1 Wire and Back Door No.2 Wire (Rear Side of Roof Panel)			

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH
II	58	Instrument Panel Brace LH
IJ	58	Instrument Panel Brace RH
BL	60	Rear Side of Left Quarter Panel
ВО	60	Center of the Back Door Panel



Code	See Page	Code	See Page	Code	See Page
G3	53	J6	50	J24	50

: Relay Blocks

	Code	See Page	Relay Blocks (Relay Block Location)
Γ	3	22	Engine Room R/B (Engine Compartment Left)

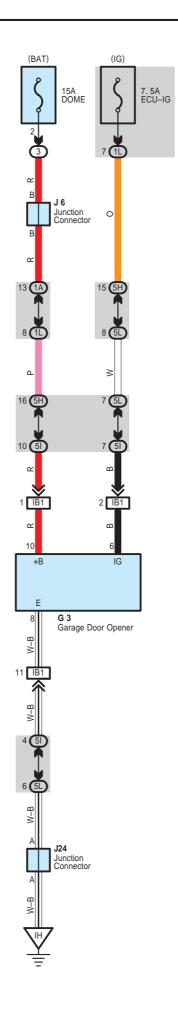
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)	
1L	31	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)	
5H			
51	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)	
5L			

: Connector Joining Wire Harness and Wire Harness

	Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
ſ	IB1	58	Roof Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)	

	Code	See Page	Ground Points Location
ſ	IH	58	Cowl Side Panel LH



Code	See Page	Code	See Page	Code	See Page
G3	53	J6	50	J24	50

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)	
3	22	Engine Room R/B (Engine Compartment Left)	

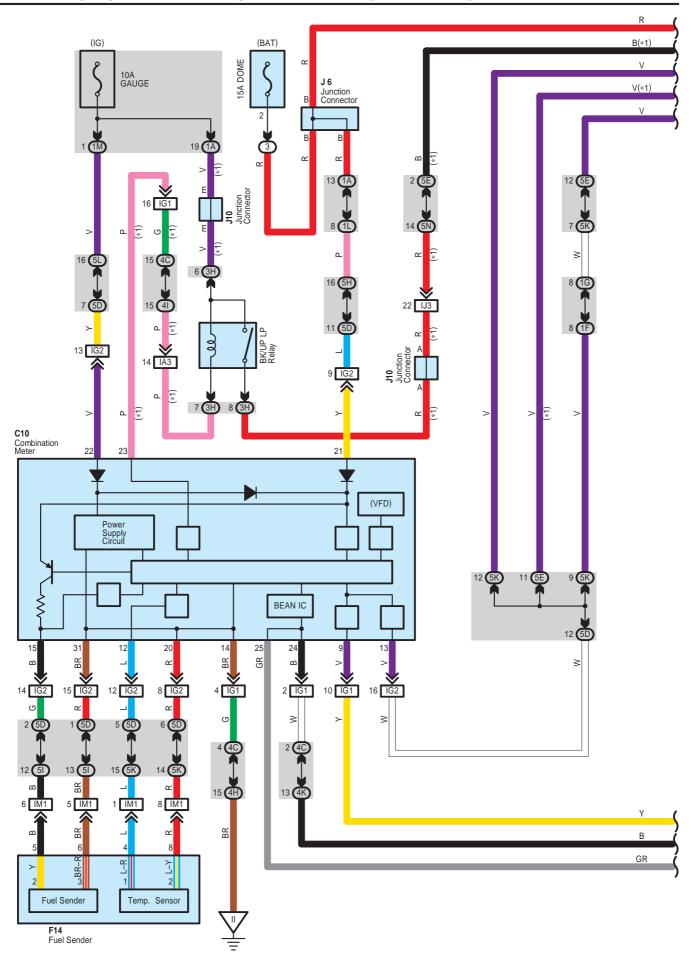
: Junction Block and Wire Harness Connector

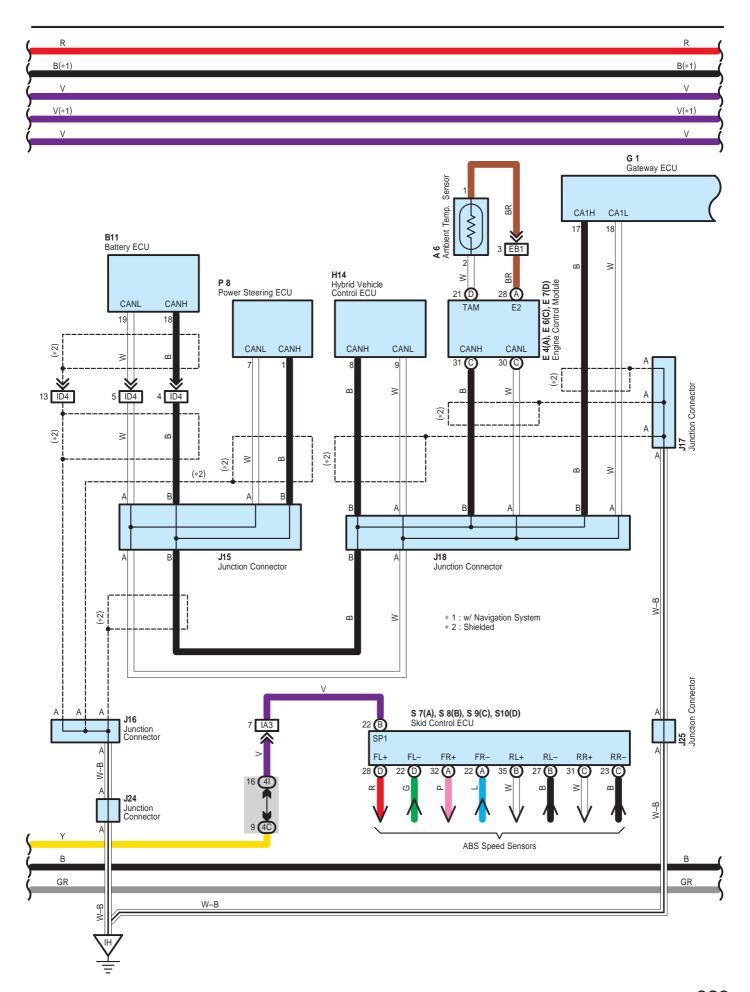
Code	See Page	Junction Block and Wire Harness (Connector Location)	
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)	
1L	31	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)	
5H			
51	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)	
5L			

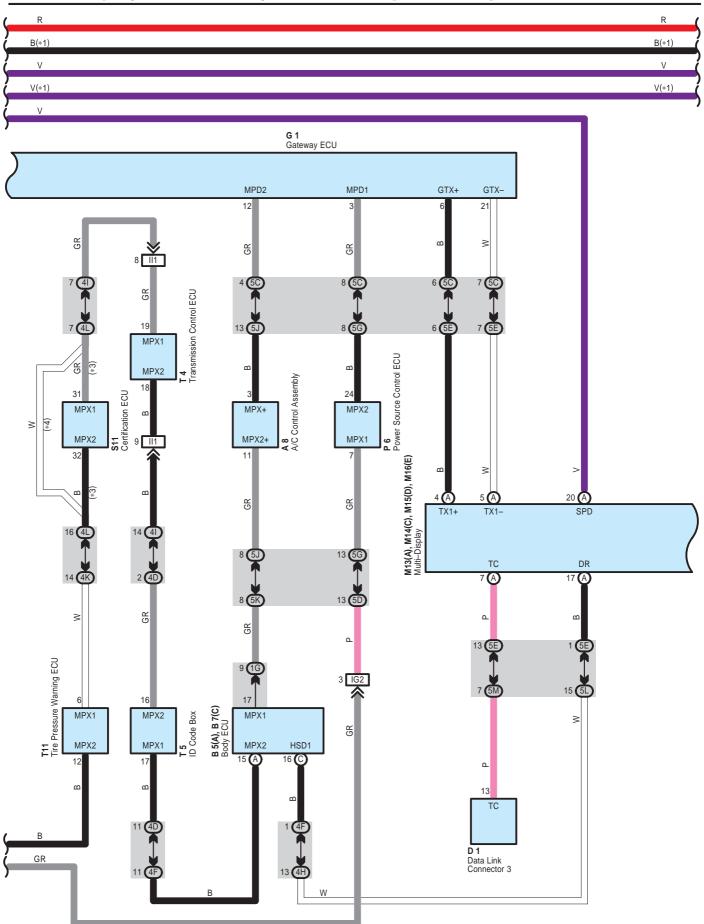
: Connector Joining Wire Harness and Wire Harness

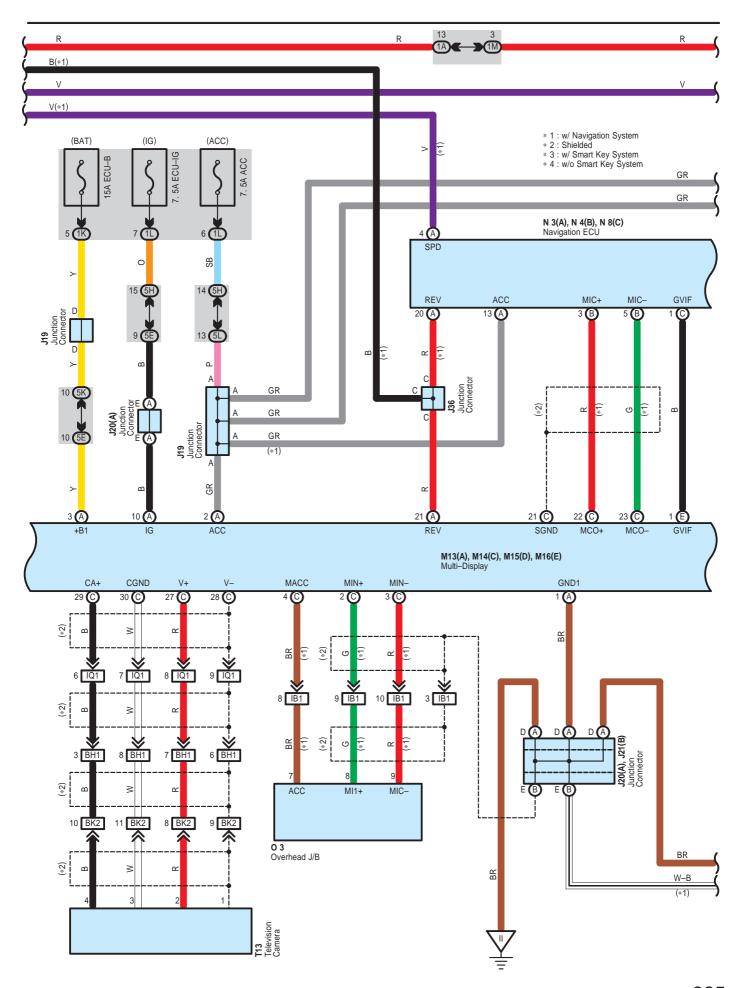
	Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
Γ	IB1	58	Roof Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)	

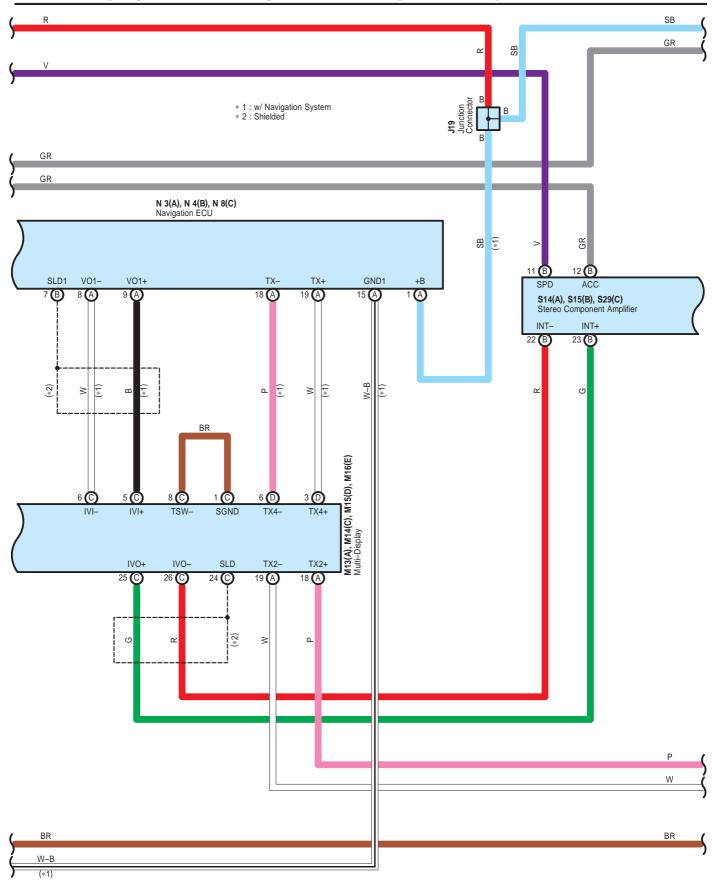
Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH

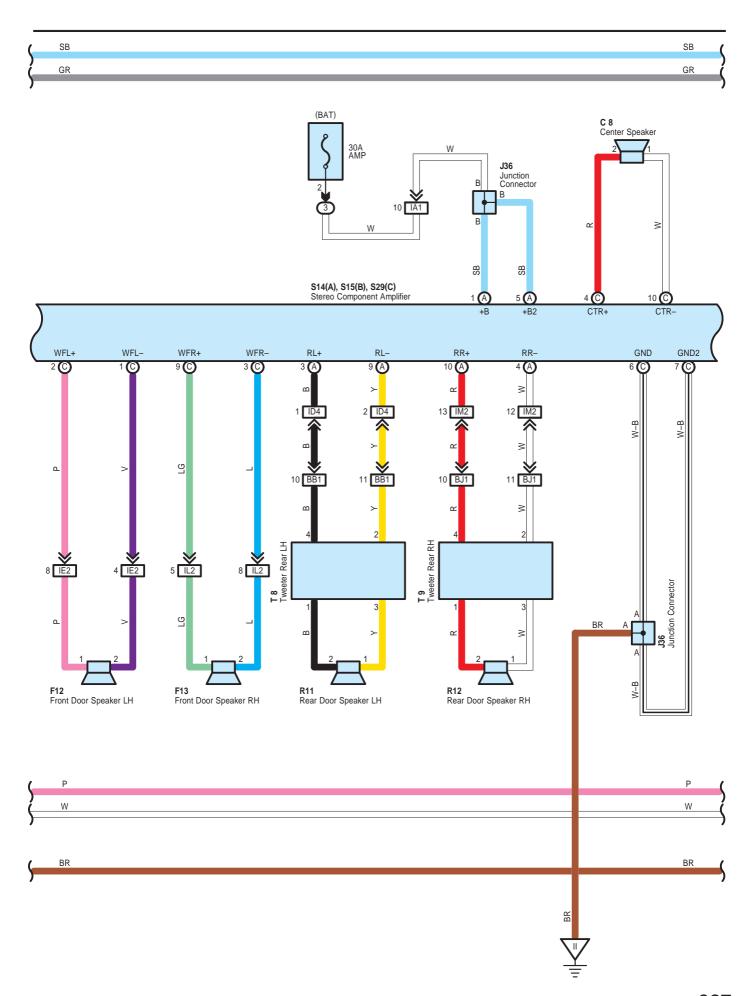


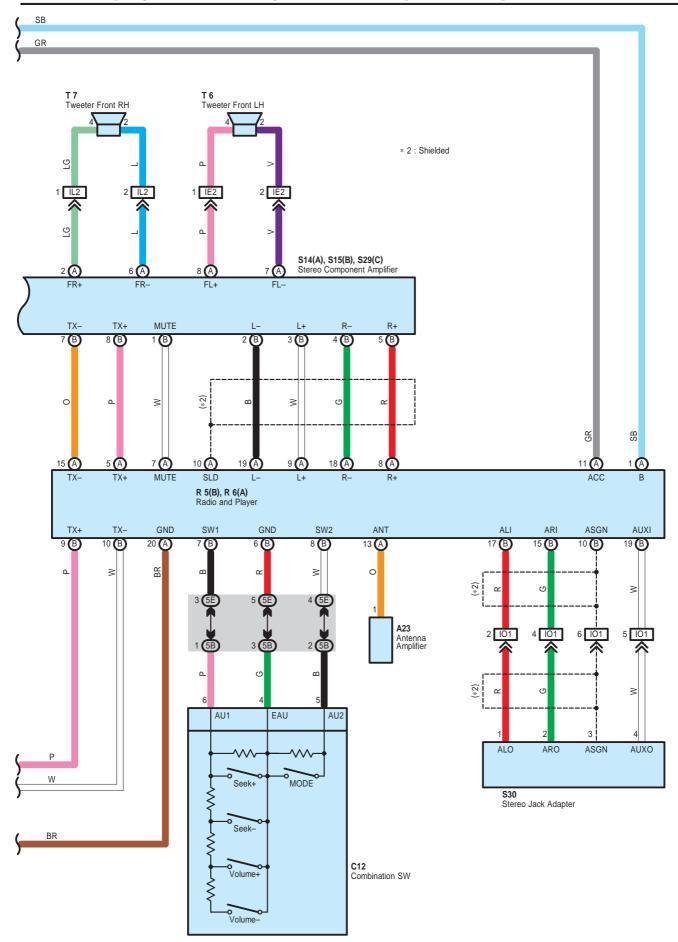












: Parts Location

Co	de	See Page	Co	de	See Page	Co	de	See Page
А	.6	46	J1	16	50	R11		54
А	.8	48	J ¹	17	50	R′	12	54
A2	23	48	J18		50	S7	Α	51
B5	Α	48	J1	19	50	S8	В	51
B7	С	48	J20	Α	50	S9	С	51
B ⁻	11	52	J21	В	50	S10	D	51
С	8	49	J2	24	50	S ²	11	51
C.	10	49	J2	25	50	S14	Α	51
C.	12	49	J3	36	50	S15	В	51
D	1	49	M13	Α	50	S29	С	51
E4	Α	49	M14	С	50	S3	30	51
E6	С	49	M15	D	50	Т	4	51
E7	D	49	M16	Е	50	Т	5	51
F′	12	53	N3	Α	50	Т	6	55
F′	13	53	N4	В	50	Т	7	55
F′	14	53	N8	С	50	Т	8	55
G	1	49	0	3	54	T9		55
H [*]	14	49	Р	6	51	T1	11	51
J	6	50	Р	8	51	T1	13	55
J	10	50	R5	В	51			
J1	15	50	R6	Α	51			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

0

: Junction Block and Wire Harness Connector

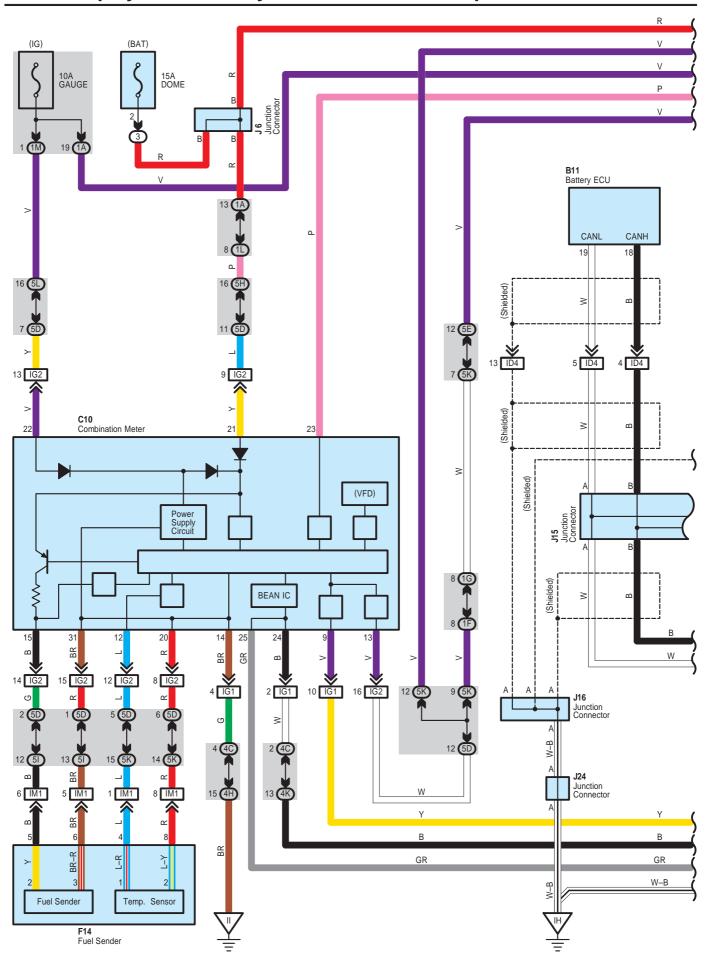
Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)				
1F	30					
1G	30					
1K		Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)				
1L	31					
1M						
3H	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)				
4C						
4D						
4F						
4H	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)				
41						
4K						
4L						
5B						
5C						
5D						
5E	42					
5G						
5H		Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)				
51		,				
5J						
5K						
5L						
5M						
5N						

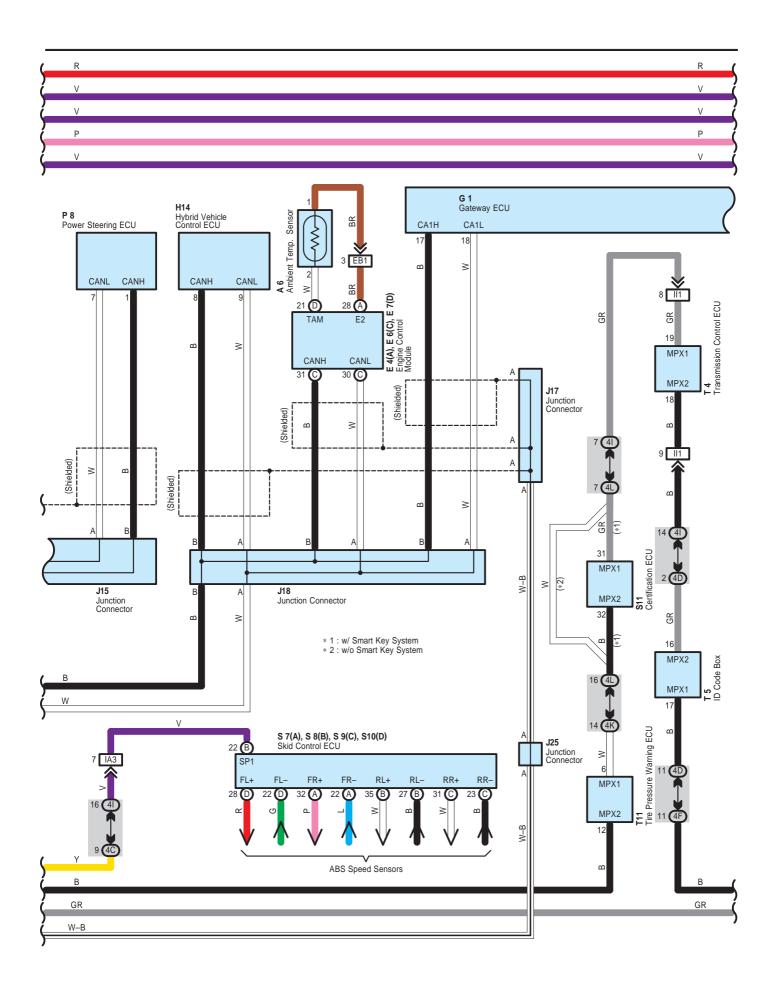
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)					
EB1	56	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)					
IA1	- 58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)					
IA3		Engine Room wain vine and institutient Pariet vine (Opper Paris of Profit body Pillar LFI)					
IB1	58	Roof Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)					
ID4	58	Instrument Panel Wire and Floor Wire (Left Kick Panel)					
IE2	58	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)					
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)					
IG2		instrument i anervire and instrument i anervo.2 vire (berlind the Combination vieter)					
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)					
IJ3	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)					
IL2	59	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)					
IM1	59	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)					
IM2		instrument i anei wire and i looi No.2 wire (Night No.1 anei)					
IO1	59	Instrument Panel Wire and Instrument Panel No.4 Wire (Front Console Box LH)					
IQ1	59	Floor					
BB1	60	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)					
BH1	61	Back Door No.1 Wire and Floor Wire (Rear Side of Roof Panel)					
BJ1	61	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)					
BK2	61	Back Door No.1 Wire and Back Door No.2 Wire (Rear Side of Roof Panel)					

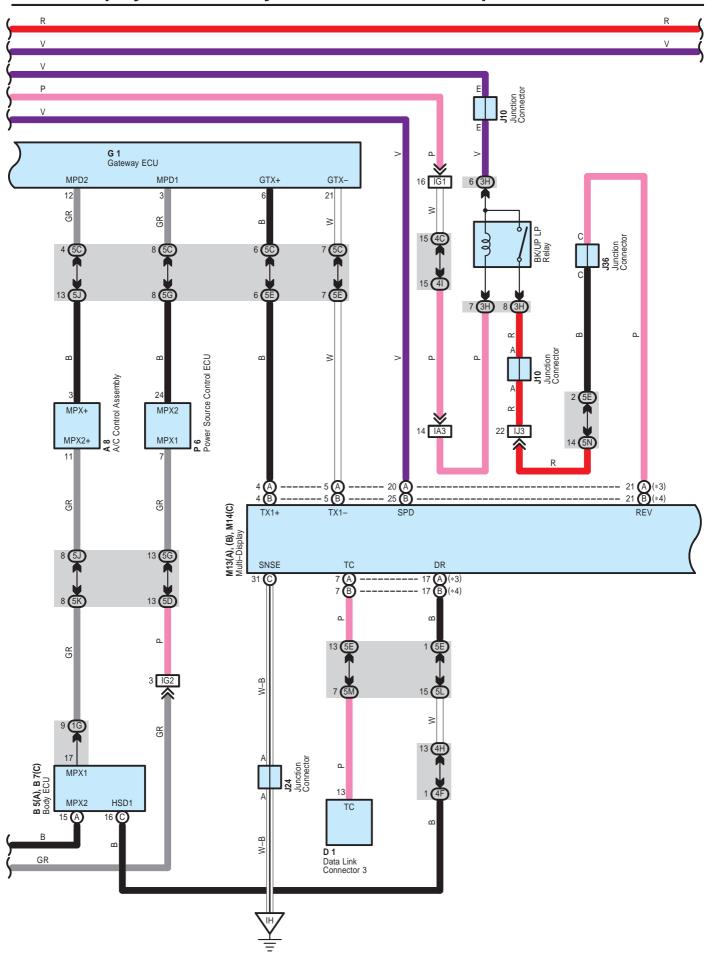


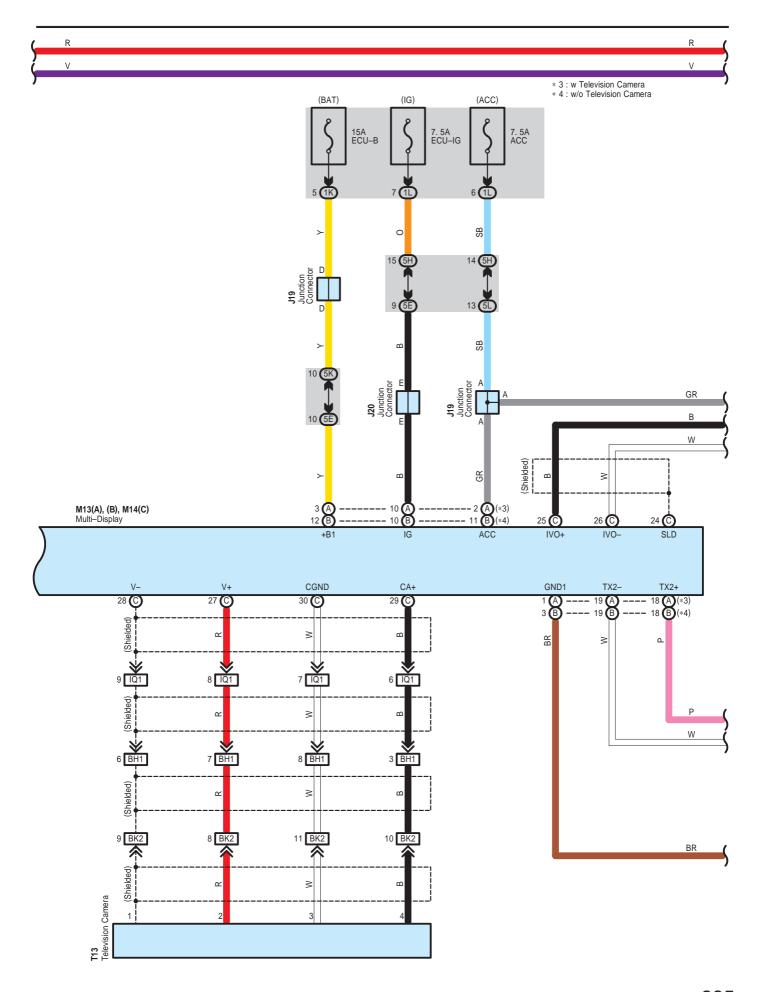
Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH
II	58	Instrument Panel Brace LH

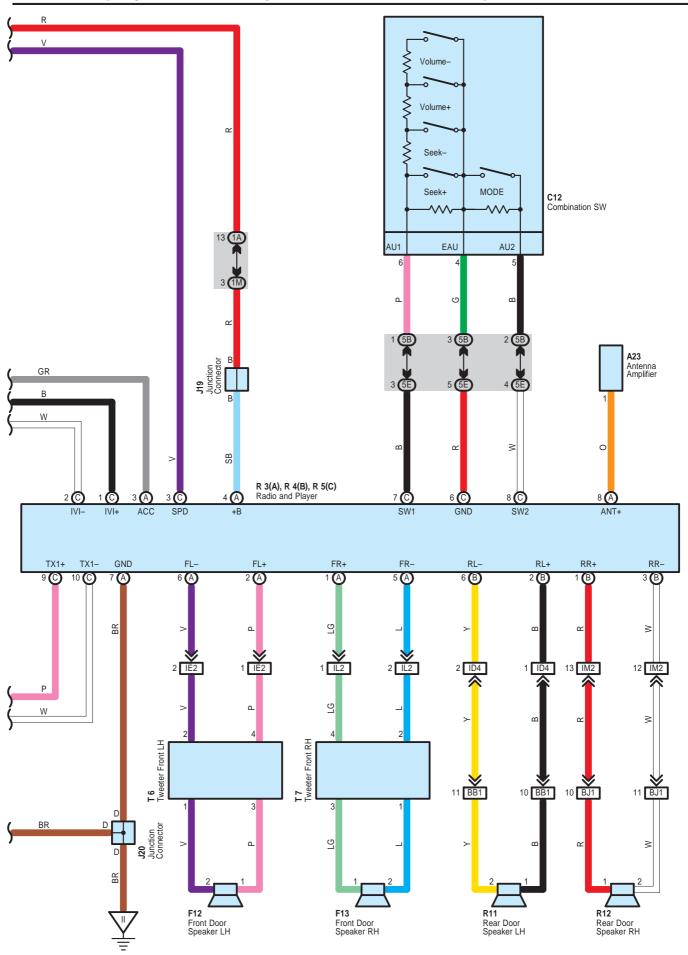




Multi-Display and Audio System with Built-in Amplifier







: Parts Location

Co	de	See Page Code		See Page	Code		See Page	
Α	A6 46 J6 50		50	R4	В	51		
Α	.8	48	J1	10	50	R5	С	51
A	23	48	J1	15	50	R	11	54
B5	Α	48	J1	16	50	R ²	12	54
B7	С	48	J1	17	50	S7	Α	51
В	11	52	J1	8	50	S8	В	51
С	10	49	J1	19	50	S9	С	51
С	12	49	J20		50	S10	D	51
	1	49	J24		50	S ²	11	51
E4	А	49	J2	25	50	Т	4	51
E6	С	49	J3	36	50	Т	5	51
E7	D	49	M13	Α	50	Т	6	55
F	12	53	IVITO	В	50	Т	7	55
F	13	53	M14 C		50	T11		51
F	14	53	P6		51	T13		55
G	61	49	Р	8	51			
Н	14	49	R3	Α	51			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

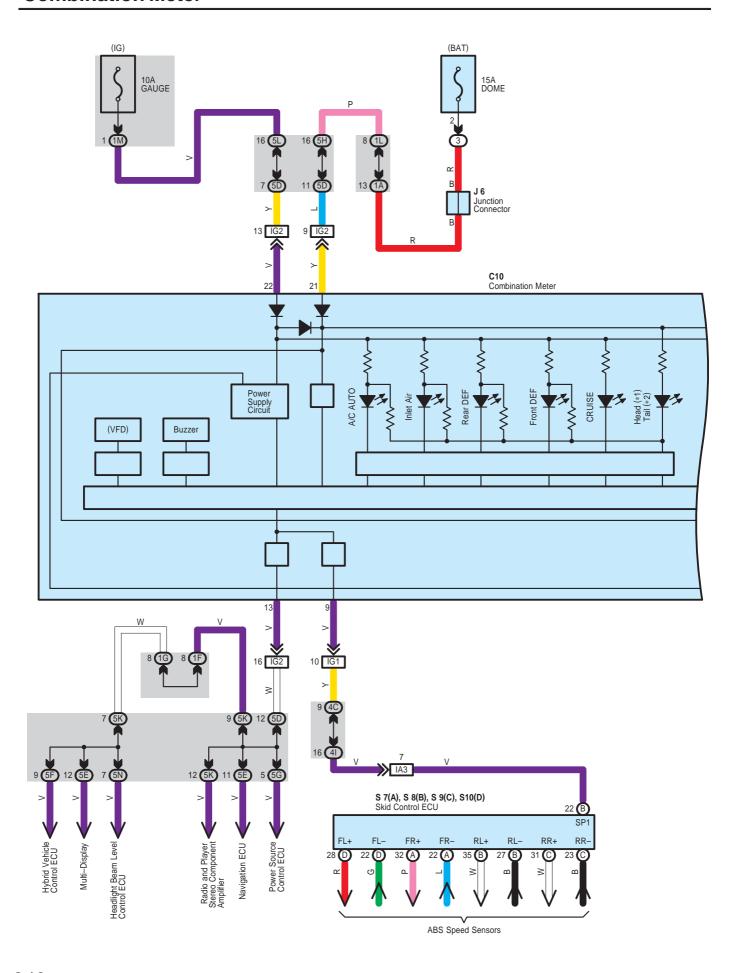
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)			
1F	30				
1G	30				
1K		Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)			
1L	31				
1M					
3H	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
4C					
4D					
4F]	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)			
4H	38				
41					
4K					
4L					
5B					
5C					
5D					
5E	42				
5G					
5H 5I		Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)			
5J					
55 5K					
5L					
5M	-				
5N	-				
JIN		1			

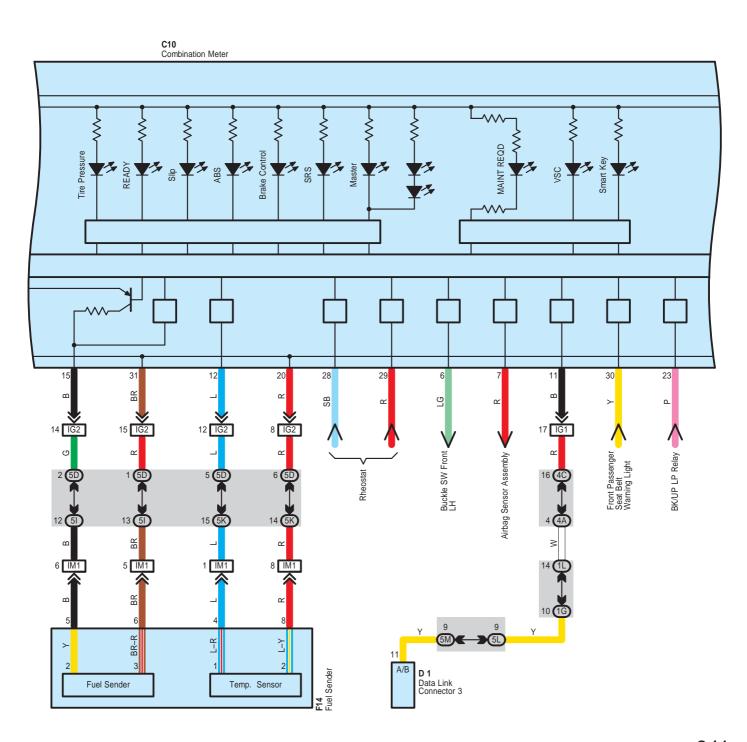
Multi-Display and Audio System with Built-in Amplifier

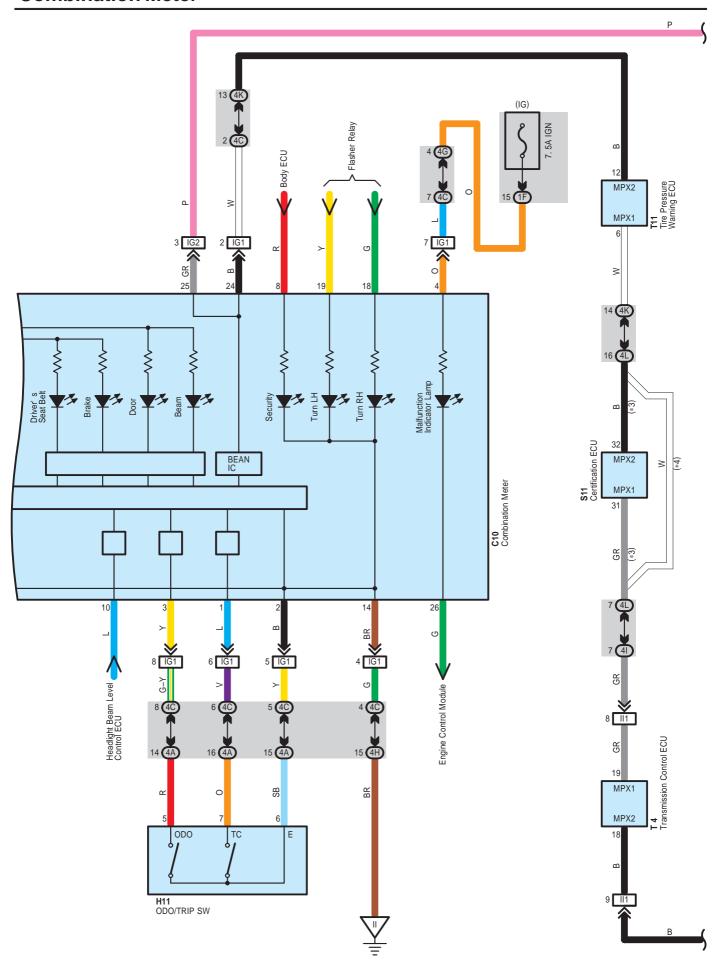
: Connector Joining Wire Harness and Wire Harness

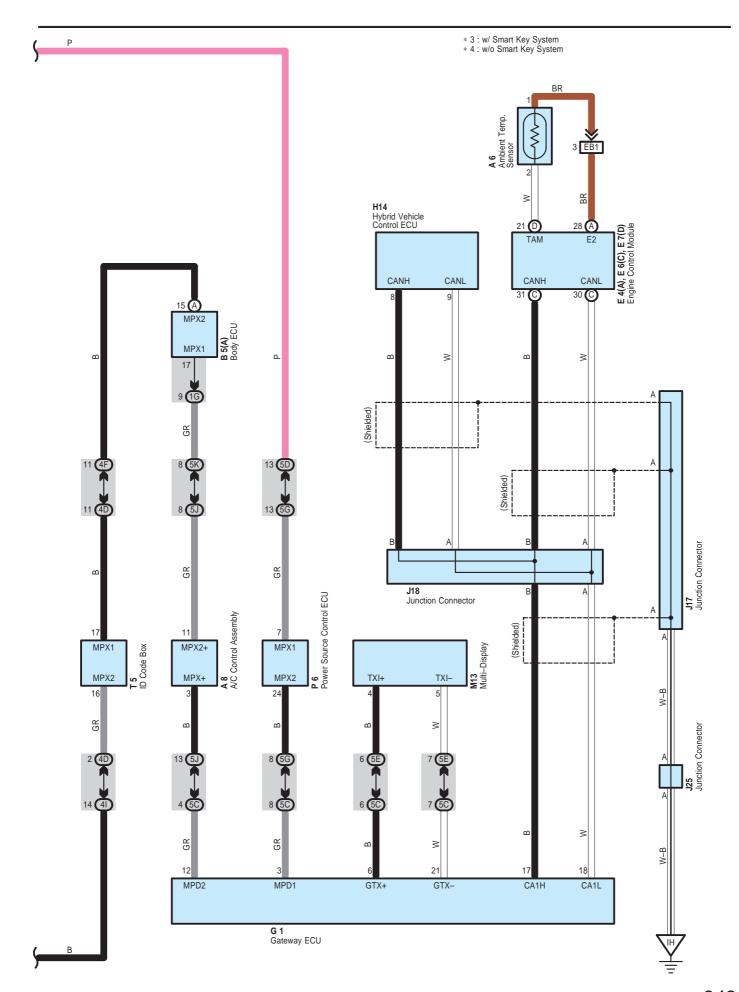
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	56	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)
IA3	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)
ID4	58	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IE2	58	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)
IG2] 39	instrument and wife and instrument and inot.2 wife (Defind the Combination Weter)
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IJ3	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)
IL2	59	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM1	59	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
IM2] 39	instrument and vine and ribbi No.2 vine (hight Nok raner)
IQ1	59	Floor
BB1	60	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
BH1	61	Back Door No.1 Wire and Floor Wire (Rear Side of Roof Panel)
BJ1	61	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)
BK2	61	Back Door No.1 Wire and Back Door No.2 Wire (Rear Side of Roof Panel)

Code	See Page	Ground Points Location
IH	58	Cowl Side Panel LH
II	58	Instrument Panel Brace LH









Combination Meter

O : Parts Location

Co	de	See Page	Code	See Page	Co	de	See Page
Α	.6	46	G1	49	S7	Α	51
Α	.8	48	H11	49	S8	В	51
B5	Α	48	H14	49	S9	С	51
С	10	49	J6	50	S10	D	51
)1	49	J17	50	S [,]	11	51
E4	Α	49	J18	50	Т	4	51
E6	С	49	J25	50	Т	5	51
E7	D	49	M13	50	T.	11	51
F.	14	53	P6	51			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
3	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

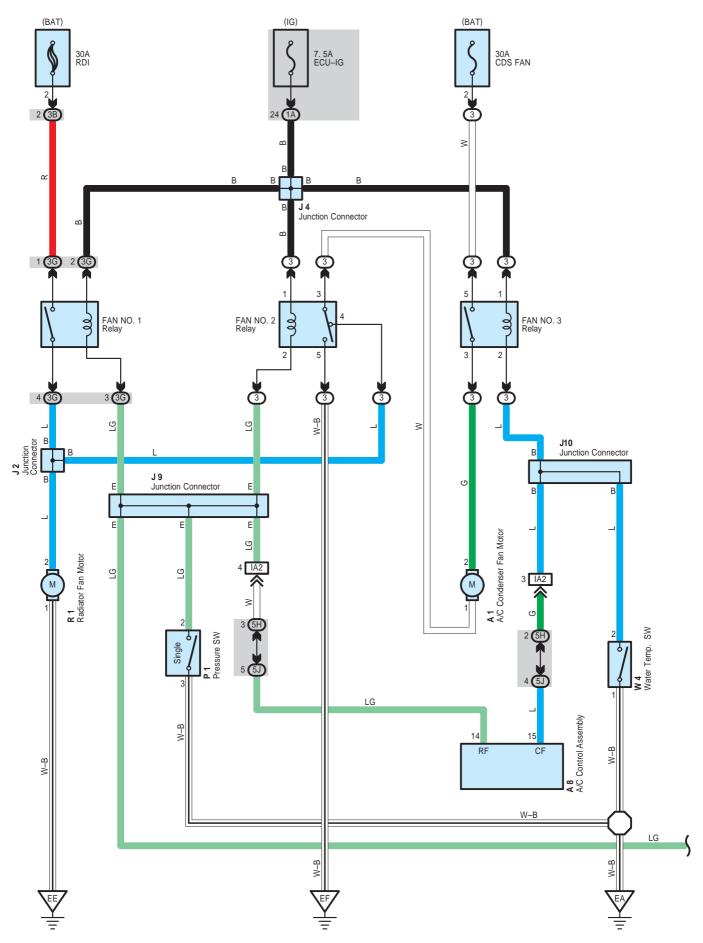
Code	See Page	Junction Block and Wire Harness (Connector Location)					
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)					
1F	30						
1G	130	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)					
1L	31	Thistitument and wife and briver side 3/b (Lower Finish Faller)					
1M							
4A							
4C							
4D							
4F]						
4G	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)					
4H	_						
41							
4K							
4L							
5C	_						
5D	_						
5E	_						
5F	_						
5G	-						
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)					
51	-						
5J							
5K							
5L	-						
5M	-						
5N							

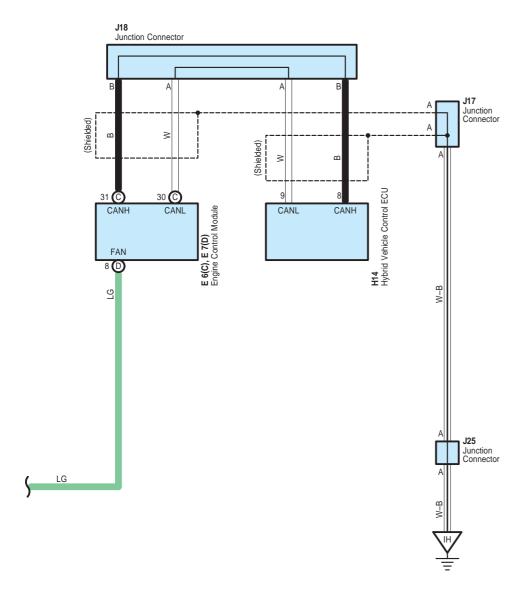
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	56	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)
IA3	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)
IG1	- 59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)
IG2		mistrament and whe and mistrament and receive. 2 while (behind the combination weter)
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IM1	59	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)



Code	See Page	ound Points Location			
IH	58	Cowl Side Panel LH			
II	58	Instrument Panel Brace LH			





Radiator Fan and Condenser Fan

System Outline

The radiator fan motor and A/C condenser fan motor operate according to the water temp. SW (Inverter), A/C single pressure SW, engine coolant temp. and the A/C system condition. The FAN NO.1 relay, FAN NO.2 relay, FAN NO.3 relay are turned on/off, to operate the fan motors at low speed (In series), or high speed (In parallel).

1. Low Speed operation

When the water temp. SW (Inverter) is on and/or A/C control assembly is in operation, the radiator fan motor and A/C condenser fan motor operate at low speed.

2. High Speed Operation

When the pressure SW (Single) is on, engine control module and/or A/C control assembly, the radiator fan motor operate and A/C condenser fan motor operates at high speed.

: Parts Location

Co	de	See Page	Code	See Page	Code	See Page
A1		46	J2	47	J18	50
A8		48	J4	47	J25	50
E6	С	49	J9	50	P1	47
E7	D	49	J10	50	R1	47
H	14	49	J17	50	W4	47

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)	
3	22	Engine Room R/B (Engine Compartment Left)	

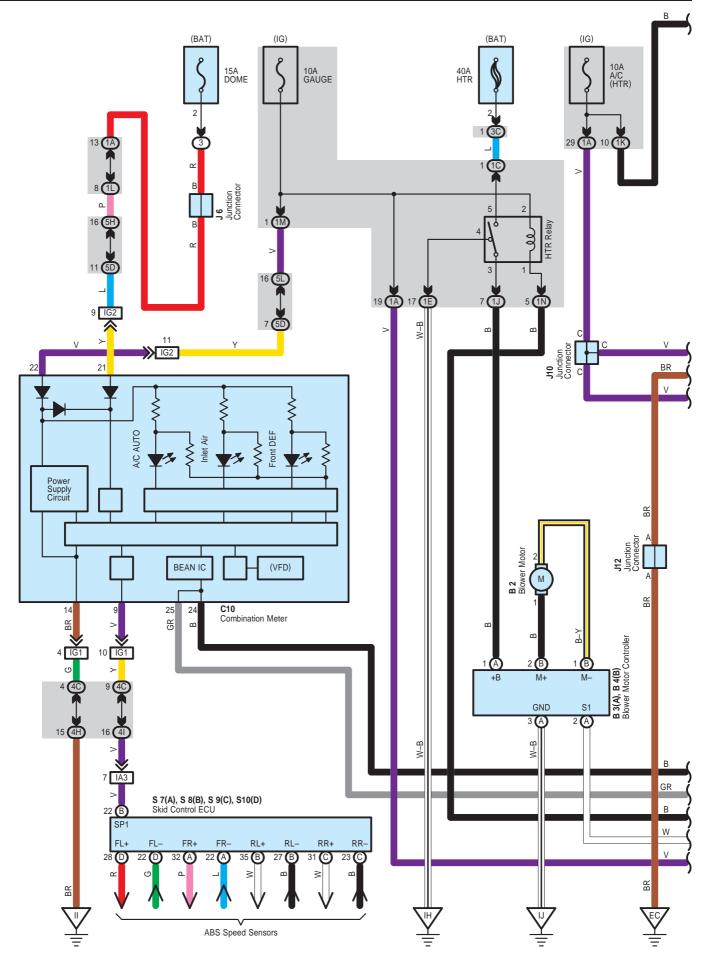
: Junction Block and Wire Harness Connector

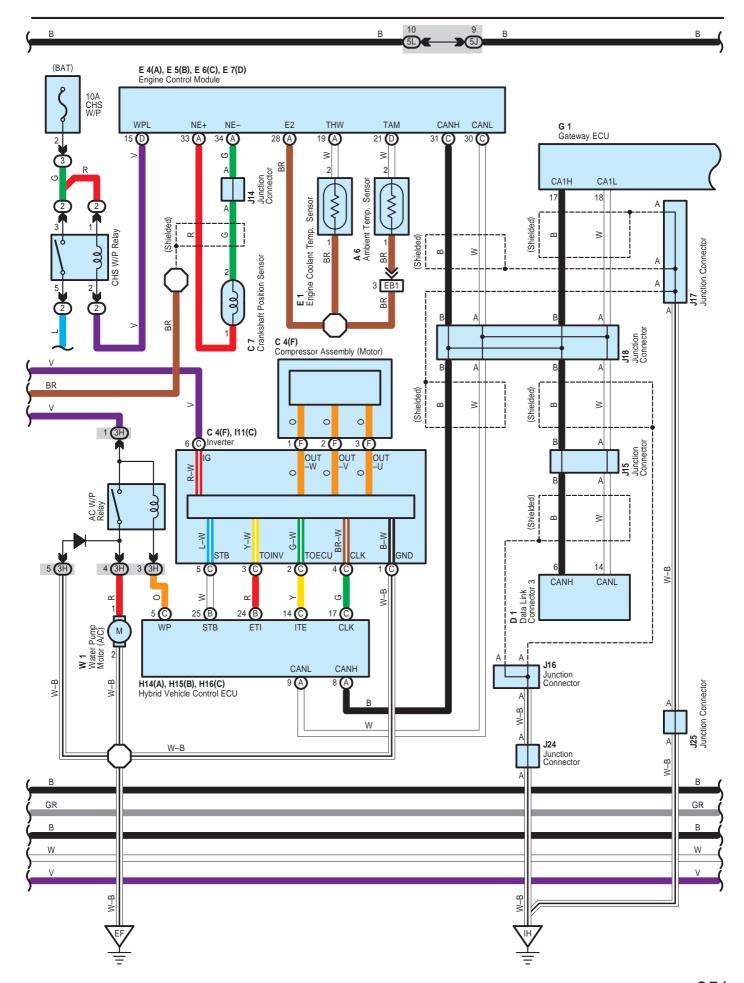
Code	See Page	unction Block and Wire Harness (Connector Location)				
1A	30	gine Room Main Wire and Driver Side J/B (Lower Finish Panel)				
3B	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)				
3G	24	Linging Room Main Wire and Engine Room 3/5 (Engine Compartment Left)				
5H	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)				
5J	142	Instrument Paner Wire and Center Connector No.2 (Instrument Paner Brace Kn)				

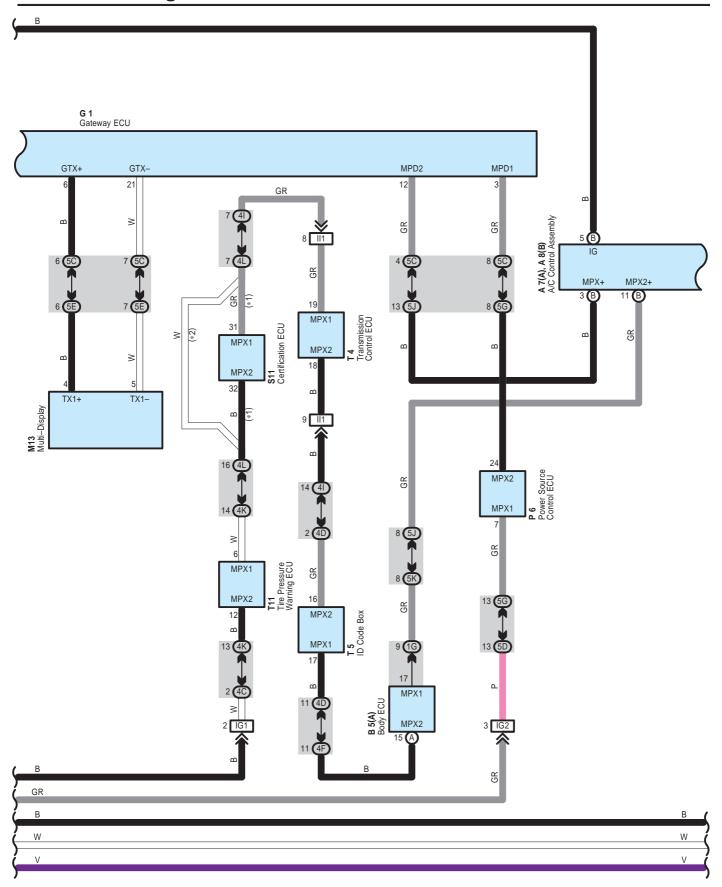
: Connector Joining Wire Harness and Wire Harness

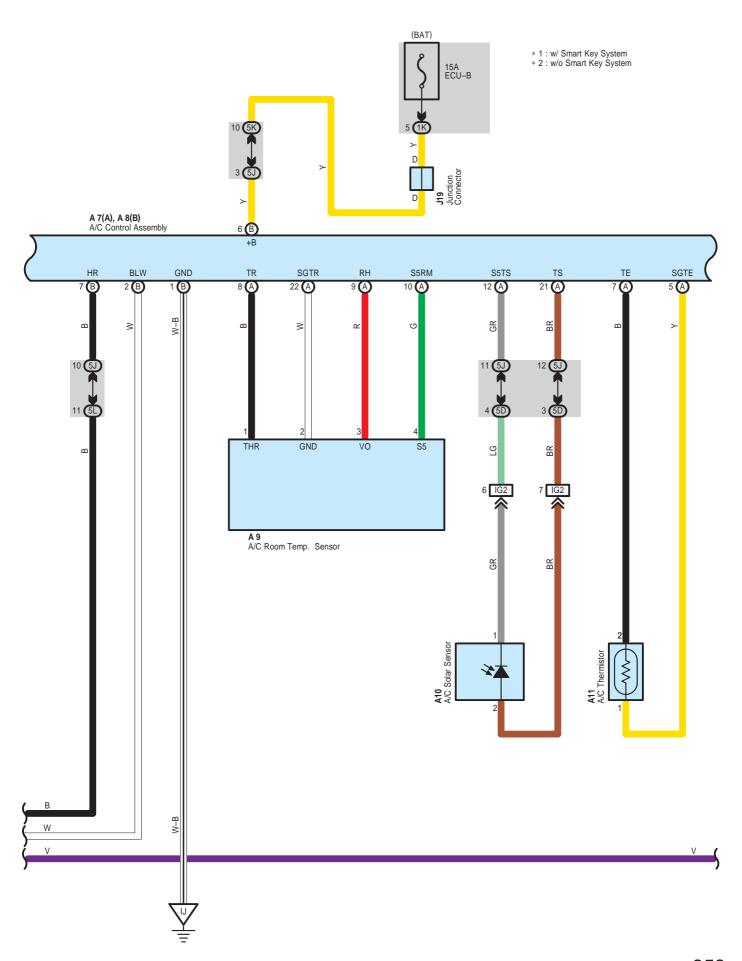
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IA2	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)	

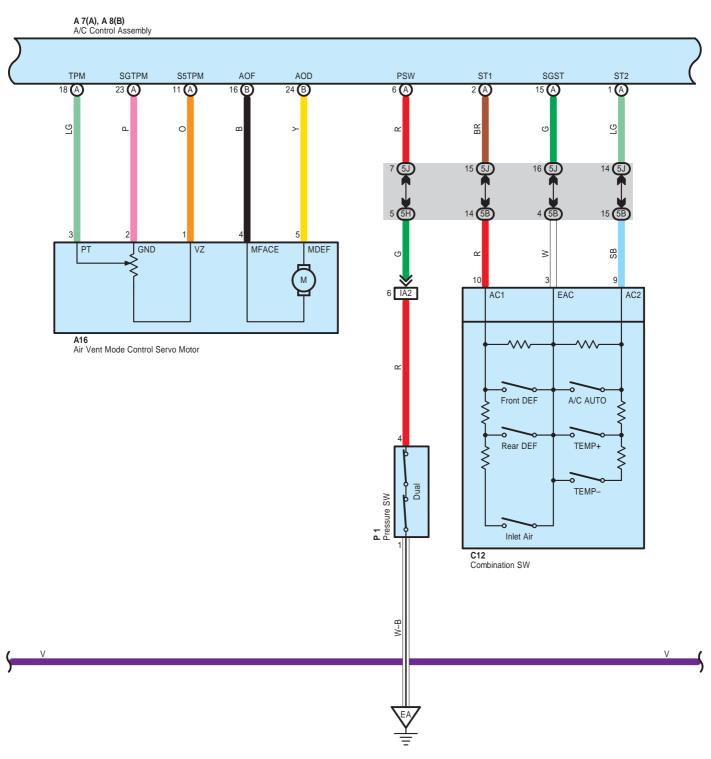
Code	See Page	Ground Points Location	
EA	56	t Side of the Fender Apron	
EE	56	Left Side of the Suspension Tower	
EF] 30	Left Side of the Suspension Tower	
IH	58	Cowl Side Panel LH	

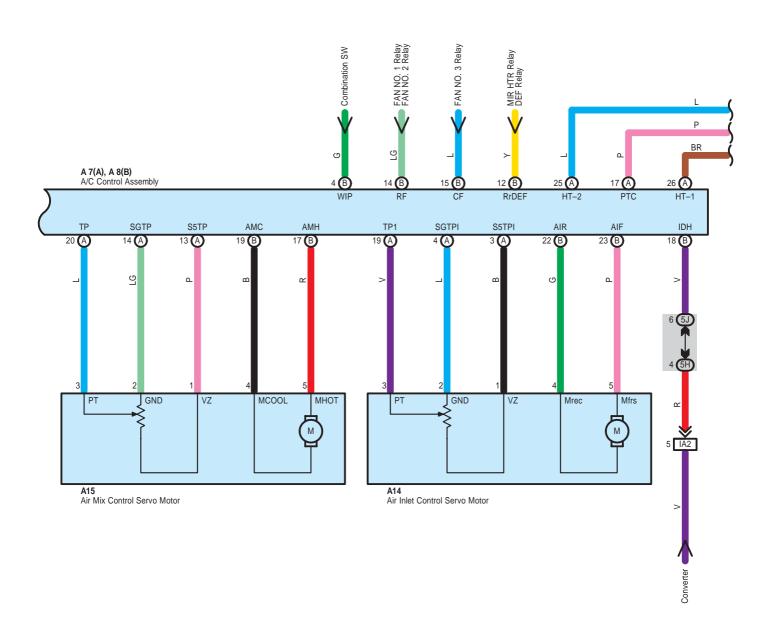




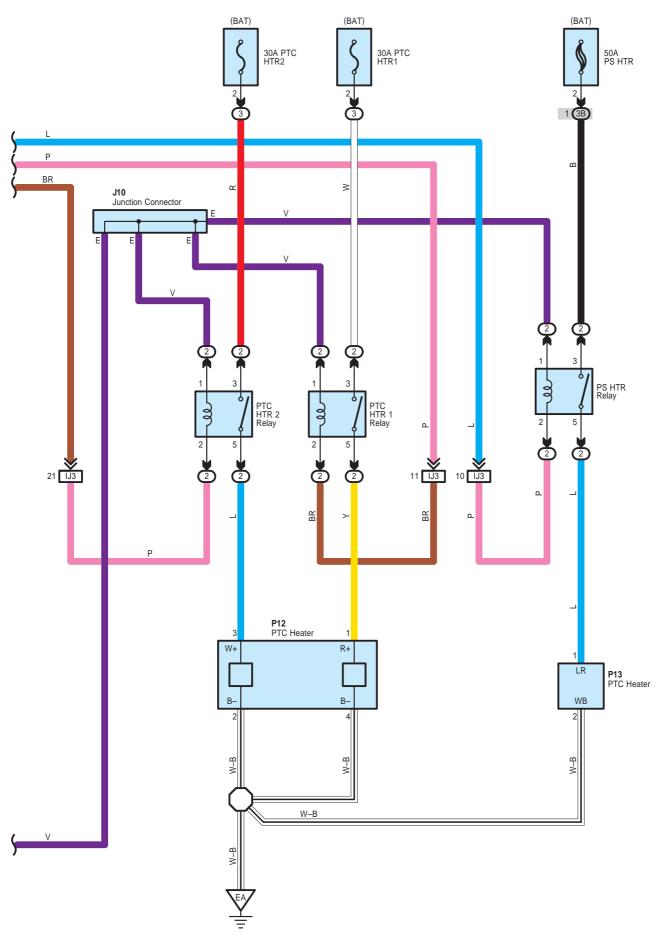








y v



System Outline

Air conditioning system operates when SW of multi-display or that of steering wheel is turned on. Turning on the SW sends signal to A/C control assembly, running the air conditioning system.

1. Heater Blower Operation

Manual operation

When the blower speed is set to a certain level using the blower control SW, the A/C control assembly sends the signals to the blower control to control the blower motor speed.

Auto operation

When the auto SW is pushed, the A/C control assembly calculates necessary blower speed from setting of SWs and input of the sensors and sends the signals to the blower control to automatically control the blower motor speed.

2. Air Inlet Control Servo Motor Control

When the FRESH/RECIRC select SW is set to RECIRC, the air inlet control servo motor starts rotating to move the damper toward the RECIRC side. The damper position is detected by the TERMINAL TPI of the A/C control assembly. The motor continuously rotates until the damper reaches its stop position. When the FRESH/RECIRC select SW is set to FRESH, the air inlet control servo motor starts rotating to move the damper toward the FRESH side. The damper position is detected by the TERMINAL TPI of the A/C control assembly. The motor continuously rotates until the damper reaches its stop position. In auto mode, A/C control assembly controls the damper to move to the best position for the conditions without operating the mode select SW.

3. Air Vent Mode Control Servo Motor Control

When the mode select SW is pushed, the ECU in the A/C control assembly activates the air vent mode control servo motor. The servo motor rotates to the position (FACE, BI-LEVEL, FOOT, FOOT/DEF, DEF) selected by using the mode select SW, and moves the damper.

In auto mode, A/C control assembly controls the damper to move to the best position for the conditions without operating the mode select SW.

4. Air Mix Control Servo Motor Control

Based on the set temperature by the temperature control SW, the ECU in the A/C control assembly sends a signal to the air mix control servo motor. This signal drives the motor to reach the temperature set by the temperature control SW, and moves the film damper.

5. Humidity Sensor Control

A/C control assembly detects humidity in passenger room when A/C is turned on, with humidity detecting function of A/C room temp. sensor and controls to dehumidify for comfortable condition

6. Air Conditioning Operation

A/C control assembly calculates target cooled temperature from information such as that of operating SWs, room temperature, humidity, ambient temperature and insolation to have target running speed of compressor assembly (Motor). The calculated control signal is sent to inverter to drive compressor assembly (Motor) (Electric motor) with control of inverter, resulting in operating A/C.

Air Conditioning

O : Parts Location

Co	de	See Page	Code		See Page	Code		See Page
Α	.6	46	E1		46	J19		50
A7	А	48	E4 A 49		J24		50	
A8	A8 B 48		E5	В	49	J2	25	50
Α	.9	48	E6	С	49	M	13	50
А	10	48	E7	D	49	Р	1	47
А	11	48	G	1	49	Р	6	51
А	14	48	H14	Α	49	P′	12	51
А	15	48	H15	В	49	P13		51
А	16	48	H16	С	49	S7	Α	51
Е	2	48	I11	С	47	S8	В	51
В3	А	48	J	6	50	S9	С	51
B4	В	48	J1	0	50	S10	D	51
B5	А	48	J12		50	S	11	51
C4	F	46	J14		50	Т	4	51
С	7	46	J15		50	T5		51
С	10	49	J16		50	T11		51
С	12	49	J1	7	50	W1		47
)1	49	J1	8	50			

: Relay Blocks

Code	See Page	elay Blocks (Relay Block Location)	
2	28	gine Room R/B No.2 (Right Side of Reserve Tank)	
3	22	Engine Room R/B (Engine Compartment Left)	

: Junction Block and Wire Harness Connector

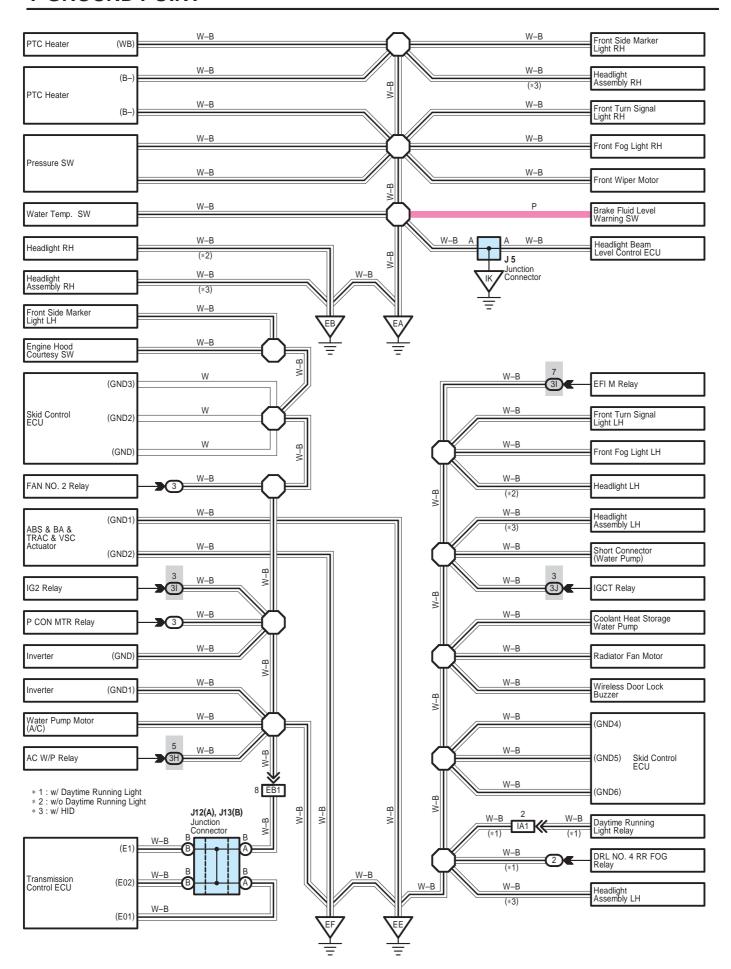
Code	See Page	Junction Block and Wire Harness (Connector Location)					
1A	30	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)					
1C	30	English toom main this and privated and by (Lower Fillion Falloy)					
1E							
1G	30						
1J							
1K		Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)					
1L	31						
1M							
1N							
3B	23						
3C		Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)					
3H	24						
4C							
4D							
4F							
4H	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)					
41							
4K							
4L							
5B							
5C							
5D							
5E							
5G	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)					
5H							
5J							
5K							
5L							

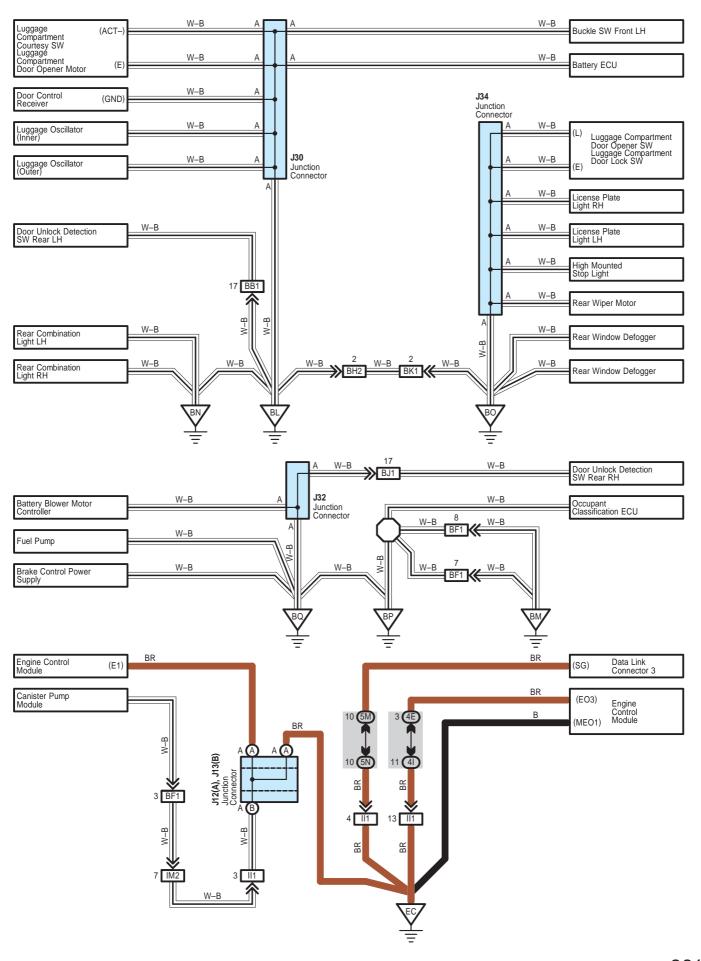
: Connector Joining Wire Harness and Wire Harness

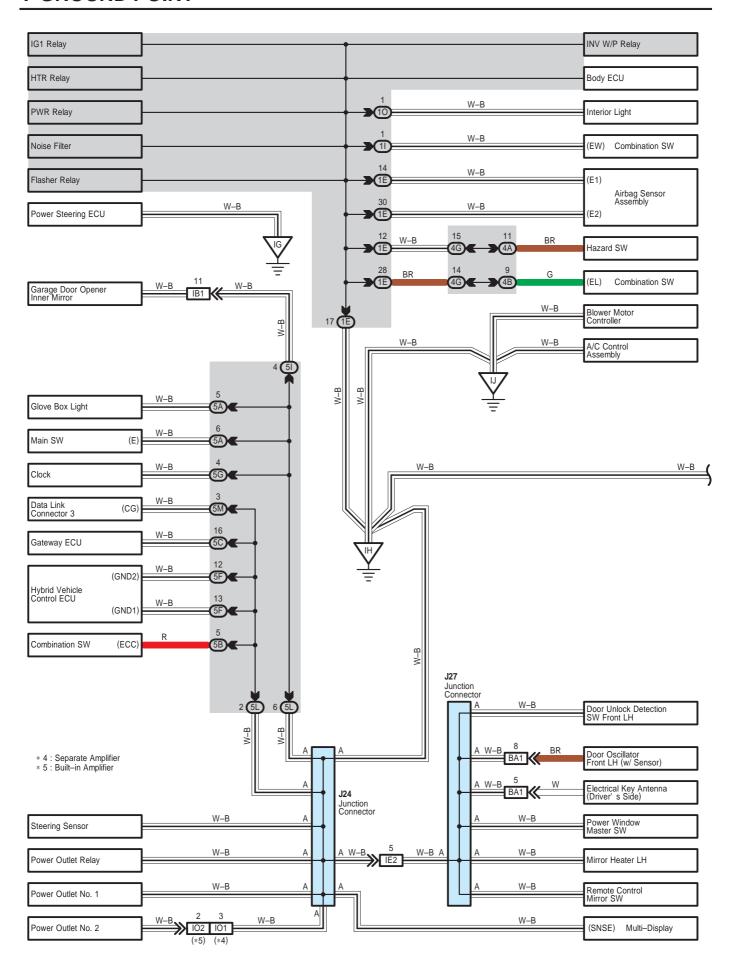
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
EB1	56	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)	
IA2	- 58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)	
IA3] 30	Linguis Noon Main wire and instrument Fane wire (opper Fans or Florit Body Final Lin)	
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)	
IG2	1 39	Institution ratio wife and institution ratio No.2 wife (Behind the Combination Weter)	
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)	
IJ3	59	Engine Room Main Wire and Instrument Panel Wire (Behind the Glove Box)	

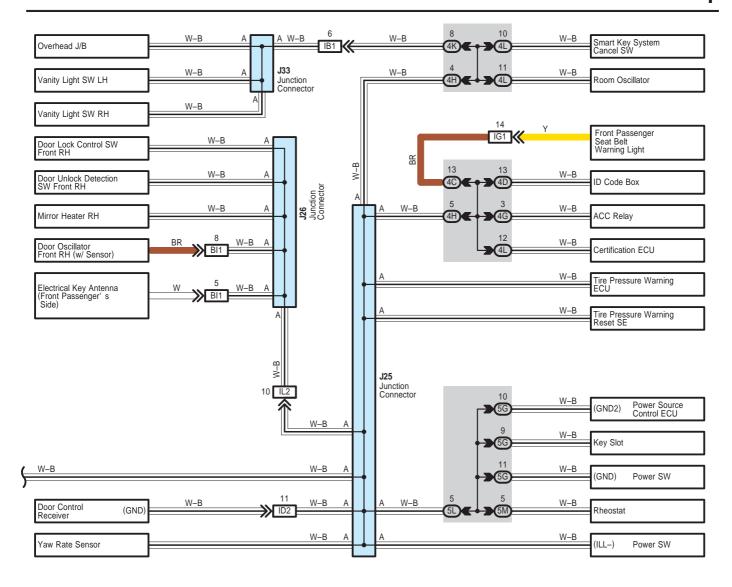
Code	See Page	Ground Points Location
EA	56	Right Side of the Fender Apron
EC	56	Engine Block
EF	56	Left Side of the Suspension Tower
IH	58	Cowl Side Panel LH
II	58	Instrument Panel Brace LH
IJ	58	Instrument Panel Brace RH

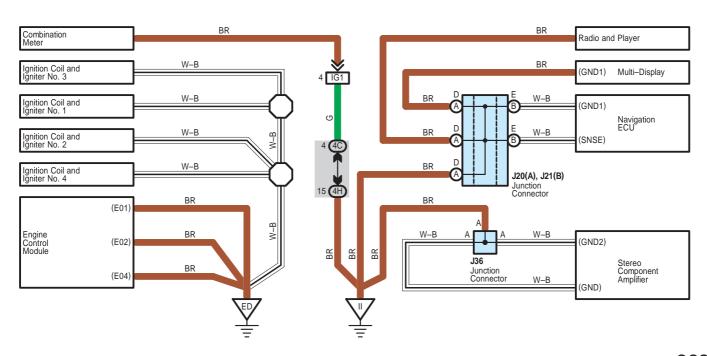
I GROUND POINT











I GROUND POINT

O : Parts Location

Code		See Page	Code	See Page	Code	See Page
J5		50	J24	50	J32	53
J12	Α	50	J25	50	J33	53
J13	В	50	J26	53	J34	53
J20	Α	50	J27	53	J36	50
J21	В	50	J30	53		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	28	Engine Room R/B No.2 (Right Side of Reserve Tank)
3	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	30	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
11	30	Instrument Famel wire and Driver Side 3/B (Lower Finish Famel)
10	30	Roof Wire and Driver Side J/B (Lower Finish Panel)
3H		
31	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
3J		
4A		
4B]	
4C		
4D]	
4E	38	Instrument Panel Wire and Center Connector No.1 (Behind the Combination Meter)
4G		The tall of the and contained in the first the contained in the contained
4H]	
41]	
4K		
4L		
5A		
5B		
5C		
5F		
5G	42	Instrument Panel Wire and Center Connector No.2 (Instrument Panel Brace RH)
51		
5L		
5M		
5N		

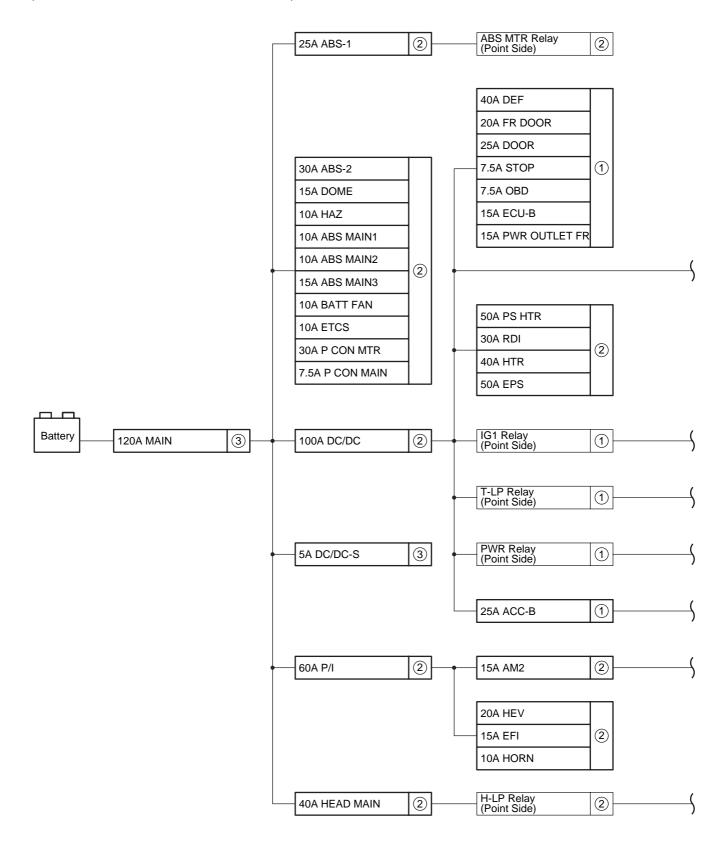
: Connector Joining Wire Harness and Wire Harness

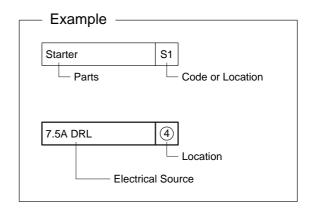
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	56	Engine Wire and Engine Room Main Wire (Inside of the Engine Room R/B)
IA1	58	Engine Room Main Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)
IB1	58	Roof Wire and Instrument Panel Wire (Upper Parts of Front Body Pillar LH)
ID2	58	Instrument Panel Wire and Floor Wire (Left Kick Panel)
IE2	58	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IG1	59	Instrument Panel Wire and Instrument Panel No.2 Wire (Behind the Combination Meter)
II1	59	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IL2	59	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IM2	59	Instrument Panel Wire and Floor No.2 Wire (Right Kick Panel)
IO1	- 59	Instrument Panel Wire and Instrument Panel No.4 Wire (Front Console Box LH)
102		Institutient Faller whe and institutient Faller No. 4 whe (Front Console Dox Err)
BA1	60	Front Door LH Wire and Electrical Key LH Wire (Near the Front Door Outside Handle LH)
BB1	60	Rear Door No.2 Wire and Floor Wire (Left Center Pillar)
BF1	60	Floor No.2 Wire and Fuel Tank Wire (Near the Fuel Tank)
BH2	61	Back Door No.1 Wire and Floor Wire (Rear Side of Roof Panel)
BI1	61	Front Door RH Wire and Electrical Key RH Wire (Near the Front Door Outside Handle RH)
BJ1	61	Rear Door No.1 Wire and Floor No.2 Wire (Right Center Pillar)
BK1	61	Back Door No.1 Wire and Back Door No.2 Wire (Rear Side of Roof Panel)

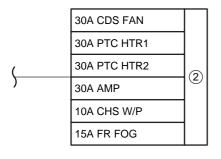
: Ground Points

Code	See Page	Ground Points Location
EA	- 56	Right Side of the Fender Apron
EB	1 30	Night Side of the Fehder Aprofi
EC	56	Engine Block
ED] 30	Lingine block
EE	- 56	Left Side of the Suspension Tower
EF	30	Left Side of the Suspension Tower
IG	- 58	Cowl Side Panel LH
IH] 30	Cow Side Faller Lift
II	58	Instrument Panel Brace LH
IJ	58	Instrument Panel Brace RH
IK	58	Cowl Side Panel RH
BL	60	Rear Side of Left Quarter Panel
BM	60	Near the Fuel Tank
BN	60	Lower Back Panel Center
ВО	60	Center of the Back Door Panel
BP	60	Front Side of Right Quarter Panel
BQ	60	Rear Side of Right Quarter Panel

The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other Parts.

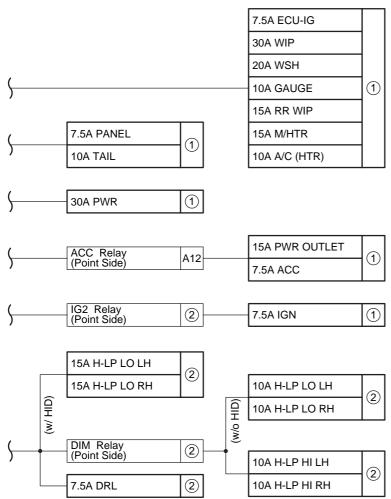






[LOCATION]

- ① : Driver Side J/B (See Page 30)
- 2 : Engine Room R/B, Engine Room J/B (See Page 22)
- ③: Fusible Link Block (See Page 28)



J POWER SOURCE (Current Flow Chart)

Engine Room R/B, Engine Room J/B (See Page 22)

	Fuse	System	Page
7.5A	DRL	Headlight	144
		Push Button Start System and Hybrid Vehicle Immobiliser System	80
751		Shift Control System	246
7.54	T CON WAIN	Smart Key System and	
		Wireless Door Lock Control (w/ Smart Key System)	206
10A	ABS MAIN1	ABS, TRAC and VSC	280
7.5A DRL Headlight Push Button State Shift Control Sy Smart Key Systate Wireless Door Learn ToyOTA Hybrid ABS, TRAC and Air Conditioning	TOYOTA Hybrid System	92	
10A	ABS MAIN2	ABS, TRAC and VSC	280
		TOYOTA Hybrid System	92
10A	BATT FAN	TOYOTA Hybrid System	92
10A	CHS W/P		350
			128
			260
10A	ETCS		128
	<u> </u>	TOYOTA Hybrid System	92
		Turn Signal and Hazard Warning Light	162
			144
			144
10A	` '		144
10A	H-LP LO RH (w/o HID)	Headlight	144
		Horn	306
	LIODA	Smart Key System and	206
10A	HORN	Wireless Door Lock Control (w/ Smart Key System)	206 236
		Wireless Door Lock Control (w/o Smart Key System)	230
15.0	ADC MAINIS	, , , , ,	280
15A	ADS WAINS	,	
		~	128 124
		Push Button Start System and Hybrid Vehicle Immobiliser System	80
15A	AM2		246
		Taillight and Illumination	174
		TOYOTA Hybrid System	92
		ABS, TRAC and VSC	280
			350
		Automatic Glare–Resistant EC Mirror	318
		Automatic Light Control	156
l		Back-Up Light	182
15A	DOME	Clock	308
		Combination Meter	340
		Cruise Control	260
		Door Lock Control	200
		Engine Control	128

^{*} These are the page numbers of the first page on which the related system is shown.

	Fuse	System	Page
		EPS	274
		Garage Door Opener	320
		Headlight	144
		Headlight Beam Level Control	152
		Interior Light	166
		Key Reminder	186
		Light Auto Turn Off System	160
		Luggage Compartment Door Opener	232
		Multi-Display and Audio System (Built-in Amplifier)	332
		Multi-Display and Audio System (Separate Amplifier)	322
		Power Window	196
15A	DOME	Push Button Start System and Hybrid Vehicle Immobiliser System	
		Rear Window Defogger and Mirror Heater	314
		Seat Belt Warning	190
		Shift Control System	246
		Smart Key System and	
		Wireless Door Lock Control (w/ Smart Key System)	206
		SRS	299
		Taillight and Illumination	174
		Theft Deterrent	236
		Tire Pressure Warning System	294
		TOYOTA Hybrid System	92
		Wireless Door Lock Control (w/o Smart Key System)	224
		Cruise Control	260
15A	EFI	Engine Control	128
		TOYOTA Hybrid System	92
15A	FR FOG	Front Fog Light	158
15A	H-LP LO LH (w/ HID)	Headlight	144
15A	H-LP LO RH (w/ HID)	Headlight	144
		Cruise Control	260
20A	HEV	Push Button Start System and Hybrid Vehicle Immobiliser System	80
20A	I I I C V	Shift Control System	246
		TOYOTA Hybrid System	92
05.4	ADC 4	ABS, TRAC and VSC	280
25A	ABS-1	TOYOTA Hybrid System	92
004	ADO O	ABS, TRAC and VSC	280
30A	ABS–2	TOYOTA Hybrid System	92
30A	AMP	Multi–Display and Audio System (Separate Amplifier)	322
30A	CDS FAN	Radiator Fan and Condenser Fan	346
00.4	D CONTACTO	Push Button Start System and Hybrid Vehicle Immobiliser System	80
30A	P CON MTR	Shift Control System	246
30A	PTC HTR1	Air Conditioning	350
30A	PTC HTR2	Air Conditioning	350
		1 3	

^{*} These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

	Fuse	System	Page
		Engine Control	128
30A	RDI	Radiator Fan and Condenser Fan	346
		TOYOTA Hybrid System	92
		Automatic Light Control	156
		Headlight	144
		Headlight Beam Level Control	152
40A	HEAD MAIN	Light Auto Turn Off System	160
1071	TIE/ (B W// (IIV	Smart Key System and Wireless Door Lock Control (w/ Smart Key System)	206
		Theft Deterrent	236
		Wireless Door Lock Control (w/o Smart Key System)	224
40A	HTR	Air Conditioning	350
40A	IIIK	TOYOTA Hybrid System	92
50A	EPS	EPS	274
50A	PS HTR	Air Conditioning	350
60A	P/I	Engine Control	128
IOUA	P/I	Ignition	124
		Automatic Light Control	156
		Clock	308
		Front Fog Light	158
		Light Auto Turn Off System	160
		Power Window	196
100A	DC/DC	Push Button Start System and Hybrid Vehicle Immobiliser System	80
100/1		Smart Key System and Wireless Door Lock Control (w/ Smart Key System)	206
		Taillight and Illumination	174
		Theft Deterrent	236
		TOYOTA Hybrid System	92
		Wireless Door Lock Control (w/o Smart Key System)	224

Fusible Link Block (See Page 28)

Fuse		System	Page
5A	DC/DC-S	TOYOTA Hybrid System	92
		Engine Control	128
120A	MAIN	Ignition	124
		TOYOTA Hybrid System	92

Driver Side J/B (See Page 30)

Fuse		System	Page
		Clock	308
		Interior Light	166
7.5A	ACC	Key Reminder	186
1.5A	ACC	Light Auto Turn Off System	160
		Multi–Display and Audio System (Built–in Amplifier)	332
		Multi-Display and Audio System (Separate Amplifier)	322

^{*} These are the page numbers of the first page on which the related system is shown.

	Fuse	System	Page
		Multiplex Communication System (AVC–LAN Bus)	76
	Multiplex Communication System (Power Window	Multiplex Communication System (BEAN Bus)	68
		Multiplex Communication System (CAN Bus)	72
		Power Window	196
7.5A		Push Button Start System and Hybrid Vehicle Immobiliser System	80
7.57	1,00	Remote Control Mirror	312
		Shift Control System	246
		Smart Key System and	
		Wireless Door Lock Control (w/ Smart Key System)	206
		Theft Deterrent	236
		ABS, TRAC and VSC	280
		Automatic Glare–Resistant EC Mirror	318
		Automatic Light Control	156
		Door Lock Control	200
		Engine Control	128
		EPS	274
		Garage Door Opener	320
		Headlight	144
		Interior Light	166
		Key Reminder	186
		Light Auto Turn Off System	160
		Luggage Compartment Door Opener	232
		Multi-Display and Audio System (Built-in Amplifier)	332
	ECU-IG	Multi-Display and Audio System (Separate Amplifier)	322
7.5A		Multiplex Communication System (AVC–LAN Bus)	76
		Multiplex Communication System (BEAN Bus)	68
		Multiplex Communication System (CAN Bus)	72
		Power Window	196
		Push Button Start System and Hybrid Vehicle Immobiliser System	80
		Radiator Fan and Condenser Fan	346
		Shift Control System	246
		Smart Key System and	
		Wireless Door Lock Control (w/ Smart Key System)	206
		SRS	299
		Taillight and Illumination	174
		Theft Deterrent	236
		Tire Pressure Warning System	294
		TOYOTA Hybrid System	92
		Wireless Door Lock Control (w/o Smart Key System)	224
		ABS, TRAC and VSC	280
		Combination Meter	340
7.5A	IGN	Cruise Control	260
		Engine Control	128
		EPS	274
		Push Button Start System and Hybrid Vehicle Immobiliser System	80

^{*} These are the page numbers of the first page on which the related system is shown.

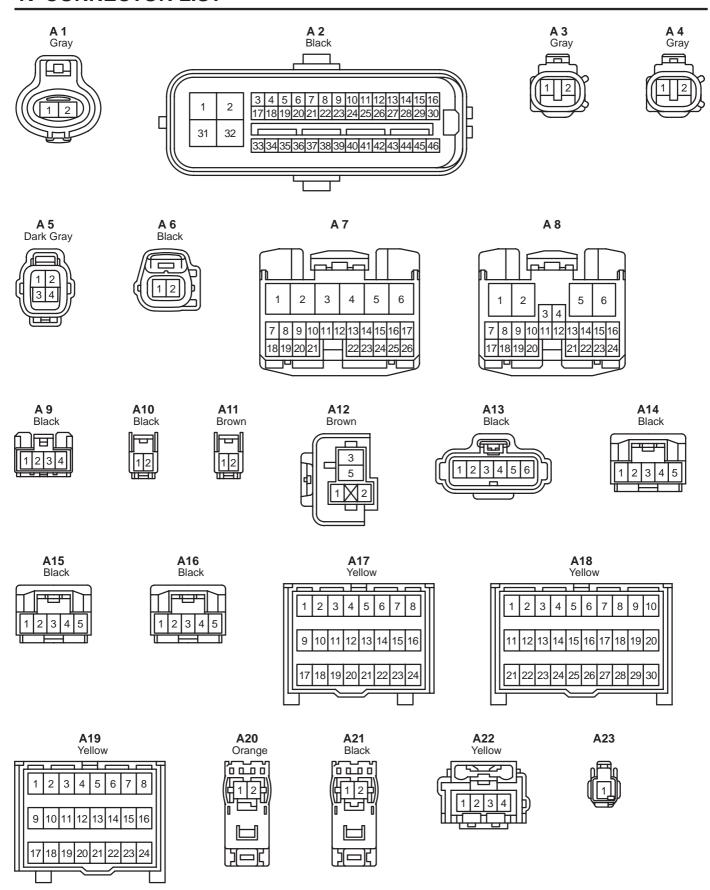
J POWER SOURCE (Current Flow Chart)

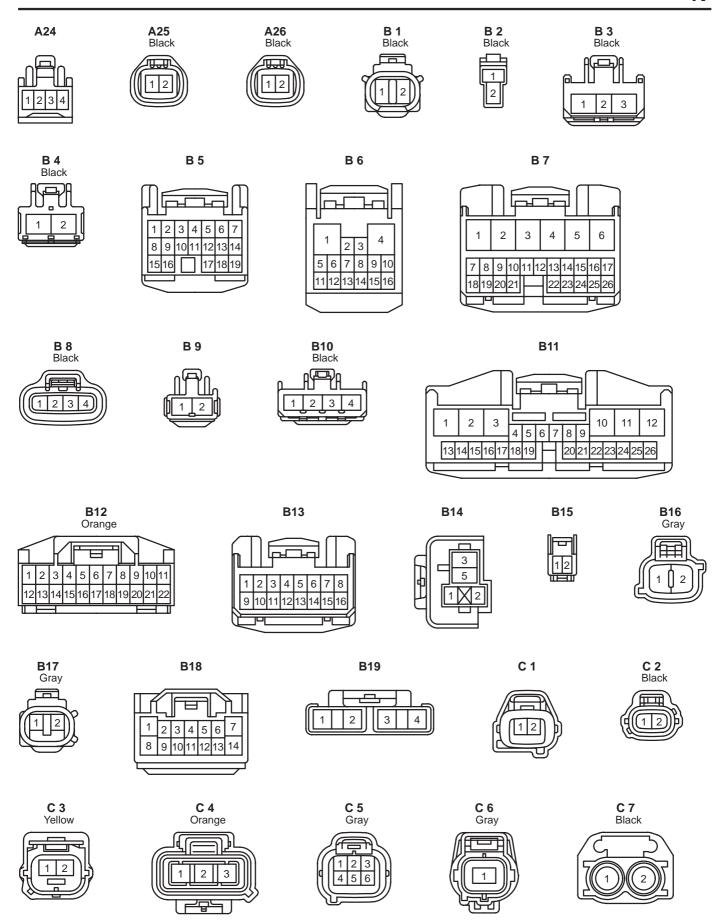
	Fuse	System	Page
		Shift Control System	246
7.5A	IGN	SRS	299
		TOYOTA Hybrid System	92
7.5A	OBD	Engine Control	128
7.57	OBB	TOYOTA Hybrid System	92
7.5A	PANEL	Clock	308
7.07	174422	Taillight and Illumination	174
		ABS, TRAC and VSC	280
		Cruise Control	260
		EPS	274
		Push Button Start System and Hybrid Vehicle Immobiliser System	80
7.5A	STOP	Shift Control System	246
		Smart Key System and	000
		Wireless Door Lock Control (w/ Smart Key System)	206
		Stop Light	180
		TOYOTA Hybrid System	92
10A	A/C(HTR)	Air Conditioning	350
	` ′	Rear Window Defogger and Mirror Heater	314
		ABS, TRAC and VSC	280
		Air Conditioning	350
		Back-Up Light	182
		Combination Meter	340
		Cruise Control	260
		Engine Control	128
		EPS	274
		Headlight	144
		Headlight Beam Level Control	152
		Key Reminder	186
		Luggage Compartment Door Opener	232
		Multi-Display and Audio System (Built-in Amplifier)	332
10A	GAUGE	Multi-Display and Audio System (Separate Amplifier)	322
		Power Window	196
		Push Button Start System and Hybrid Vehicle Immobiliser System	80
		Rear Window Defogger and Mirror Heater	314
		Seat Belt Warning	190
		Shift Control System	246
		Smart Key System and Wireless Door Lock Control (w/ Smart Key System)	206
		SRS	299
		Taillight and Illumination	174
		Tire Pressure Warning System	294
		TOYOTA Hybrid System	92
		Turn Signal and Hazard Warning Light	162
		Front Fog Light	158
10A	TAIL	Taillight and Illumination	174
		g	1

^{*} These are the page numbers of the first page on which the related system is shown.

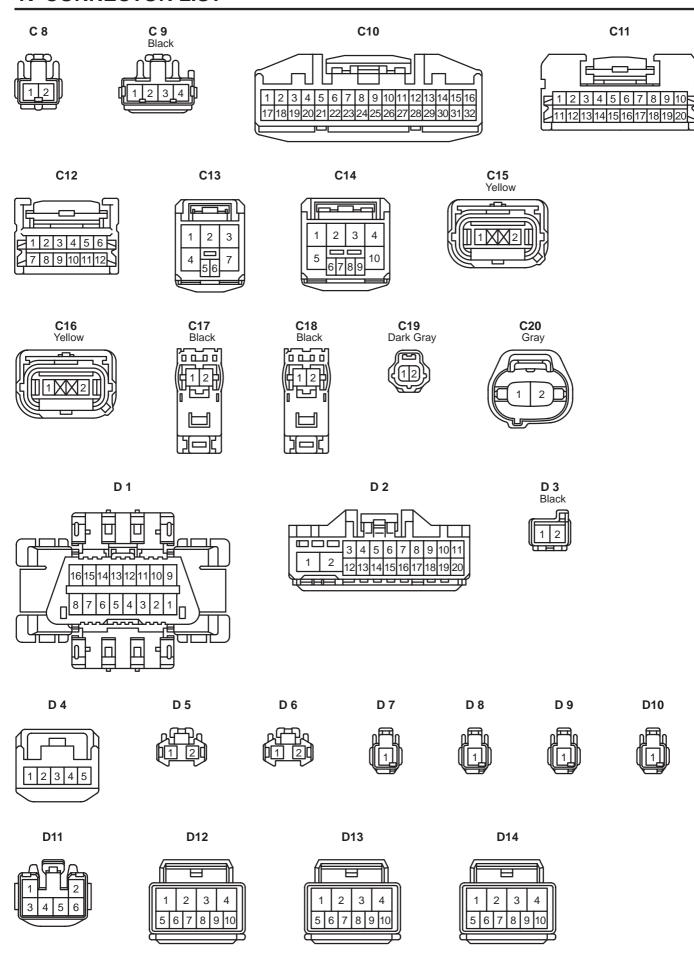
Fuse		System	Page	
15A	ECU-B	Air Conditioning	350	
		Headlight	144	
		Multi-Display and Audio System (Built-in Amplifier)	332	
		Multi-Display and Audio System (Separate Amplifier)	322	
		Multiplex Communication System (AVC–LAN Bus)	76	
ISA	ECO-B	Multiplex Communication System (BEAN Bus)	68	
		Multiplex Communication System (CAN Bus)	72	
		Rear Window Defogger and Mirror Heater	314	
		SRS	299	
		Theft Deterrent	236	
15A	M/HTR	Rear Window Defogger and Mirror Heater	314	
15A	PWR OUTLET	Power Outlet	310	
15A	PWR OUTLET FR	Power Outlet	310	
15A	RR WIP	Rear Wiper and Washer	194	
20A	FR DOOR	Power Window	196	
20A	WSH	Front Wiper and Washer	192	
20/		Rear Wiper and Washer	194	
25A	ACC-B	Push Button Start System and Hybrid Vehicle Immobiliser System	80	
	DOOR	Door Lock Control	200	
		Luggage Compartment Door Opener	232	
25A		Smart Key System and Wireless Door Lock Control (w/ Smart Key System)	206	
		Theft Deterrent	236	
		Wireless Door Lock Control (w/o Smart Key System)	224	
30A	PWR	Power Window	196	
30A	WIP	Front Wiper and Washer	192	
40A	DEF	Rear Window Defogger and Mirror Heater	314	

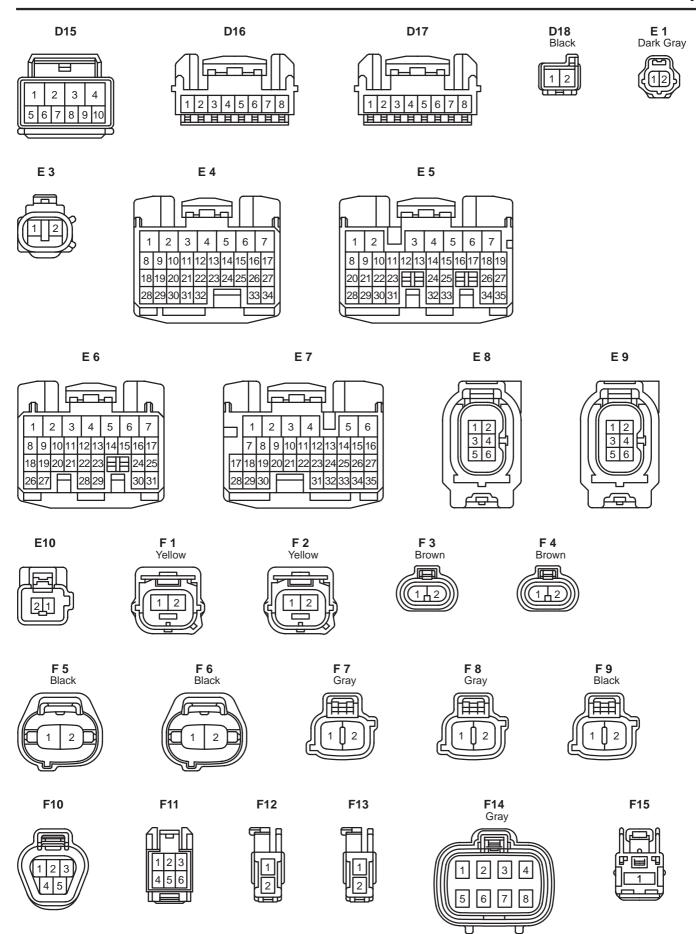
^{*} These are the page numbers of the first page on which the related system is shown.



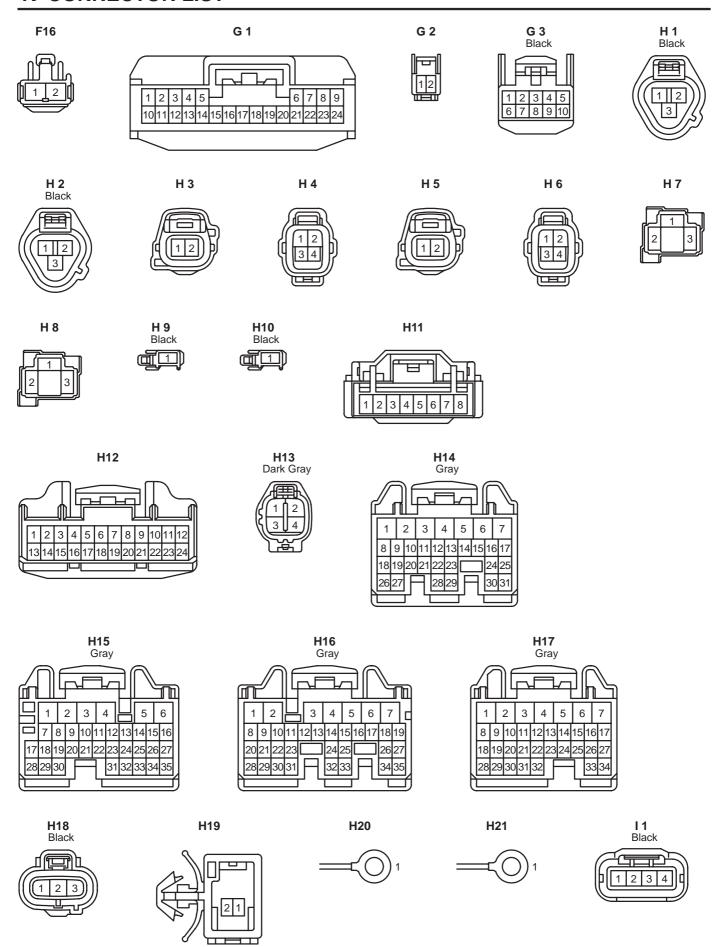


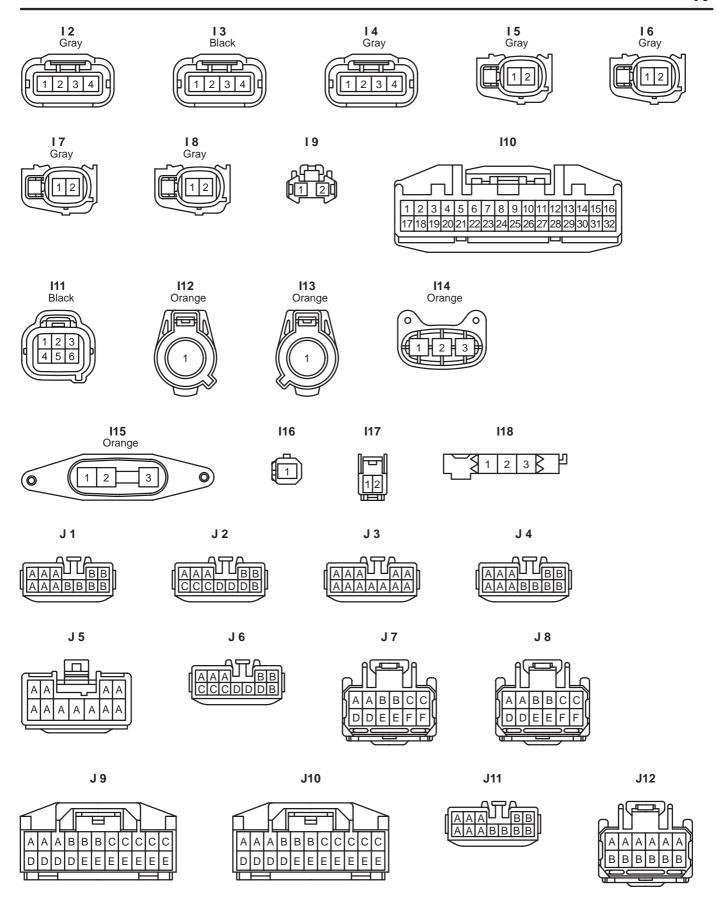
K CONNECTOR LIST

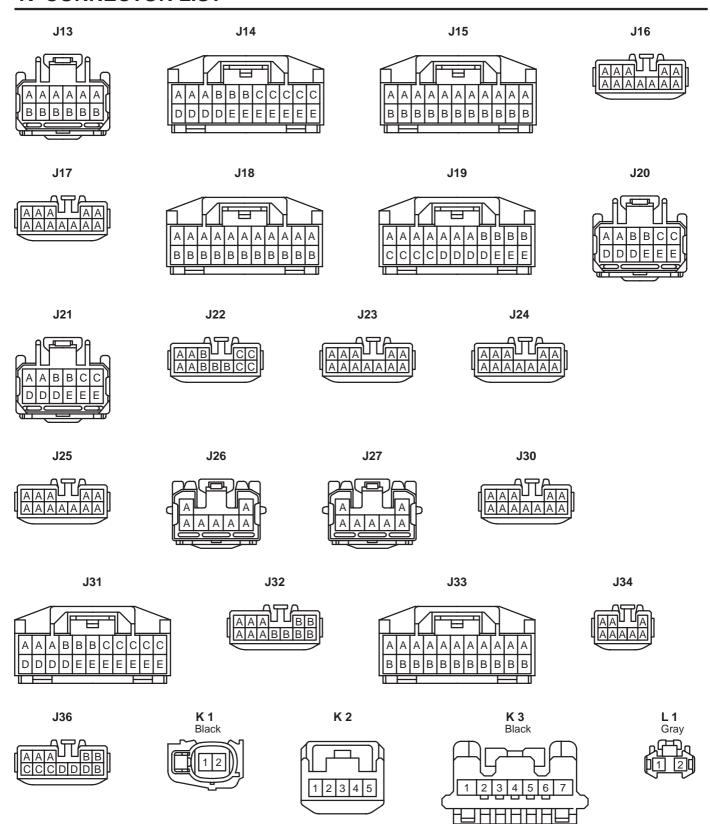


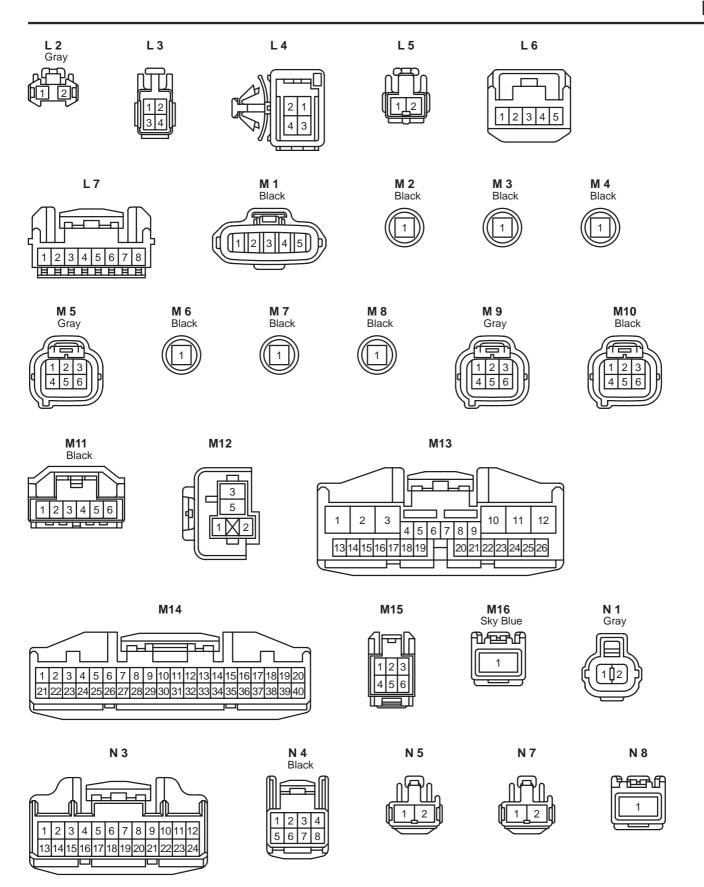


K CONNECTOR LIST

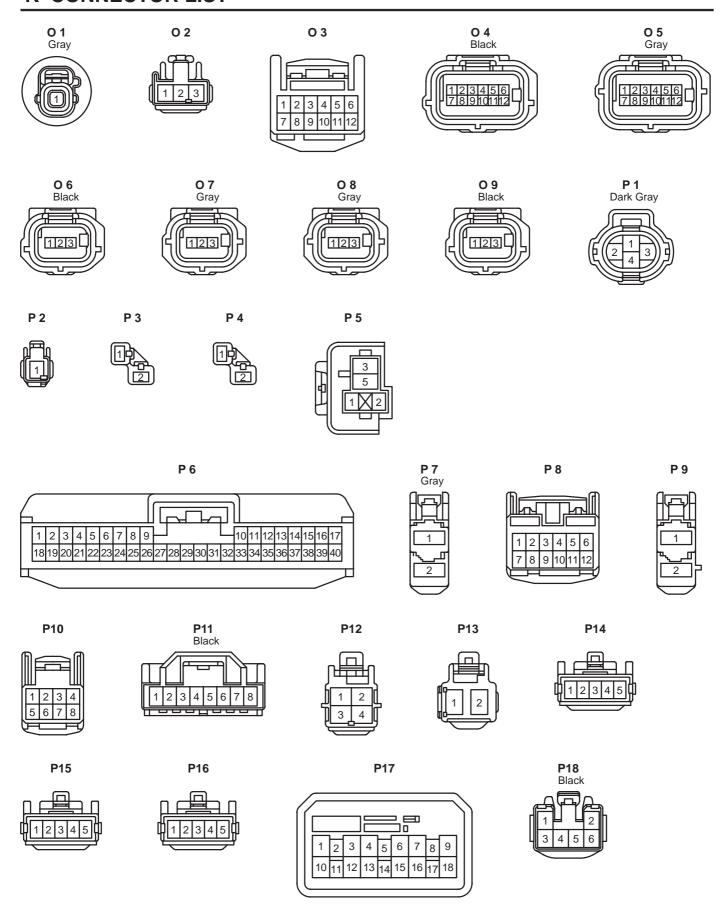


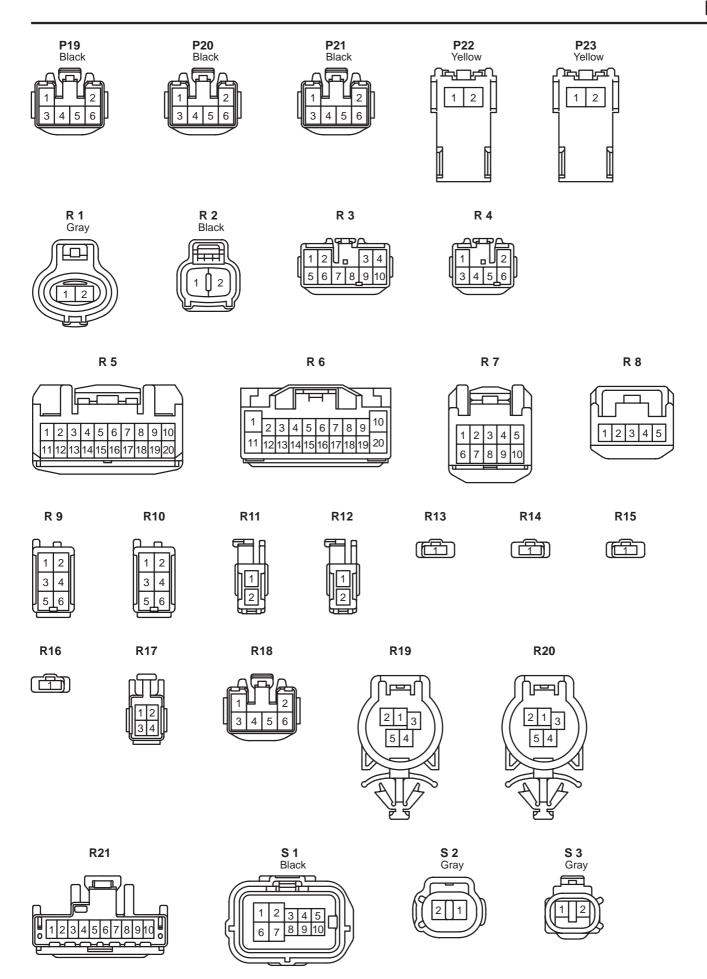


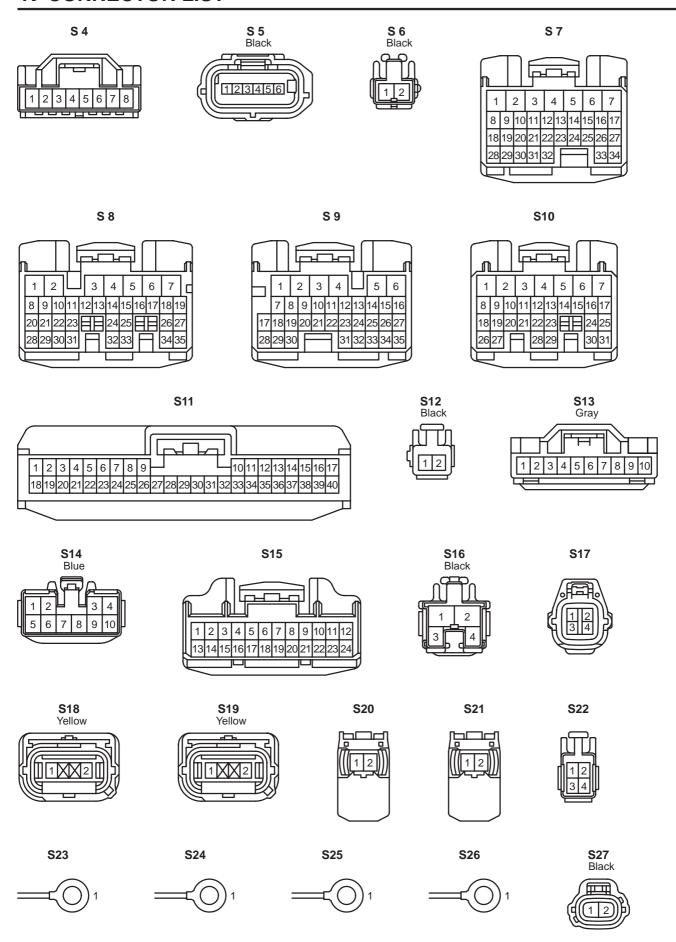


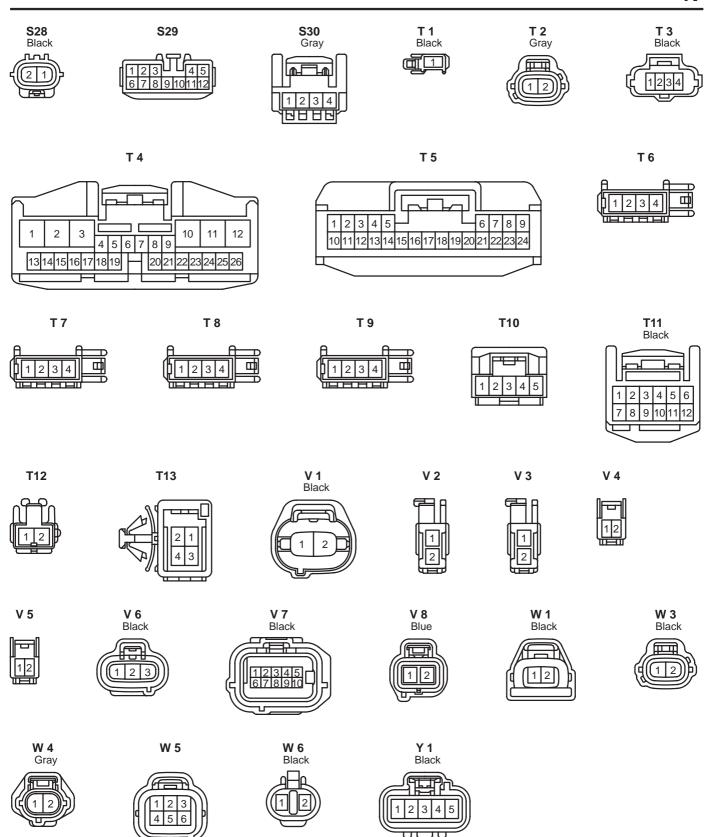


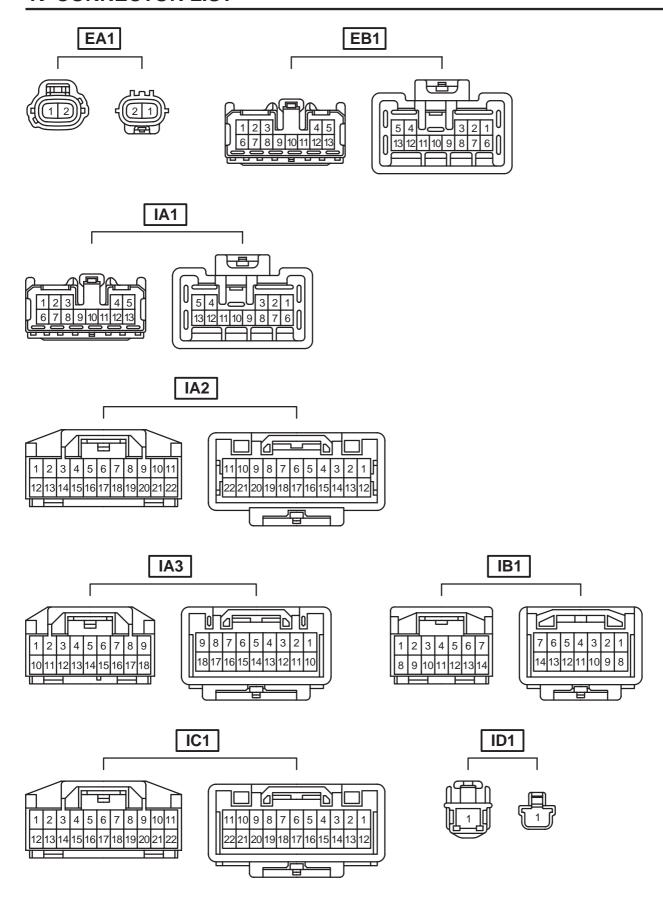
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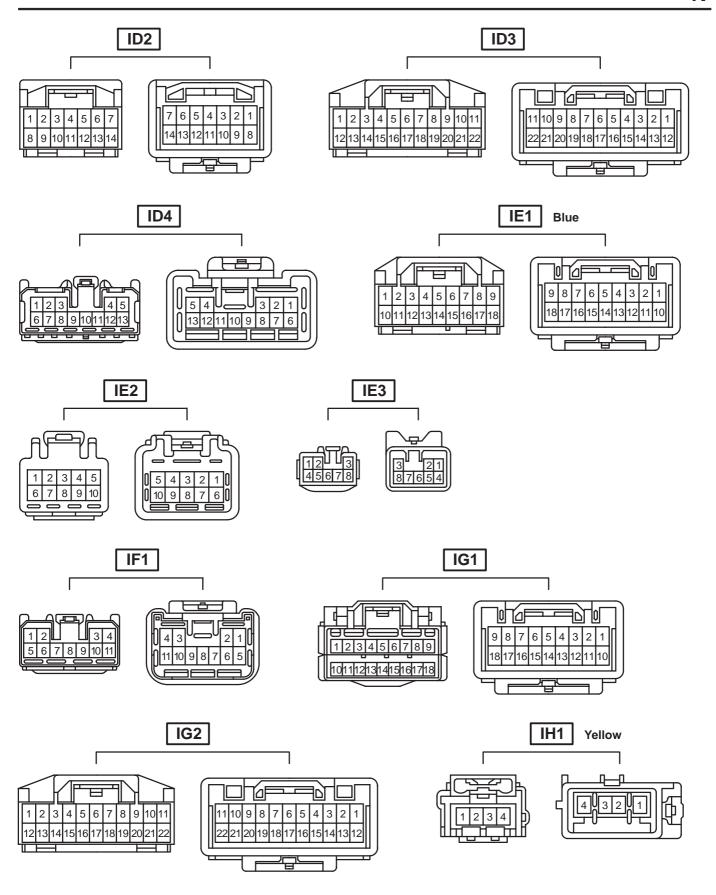


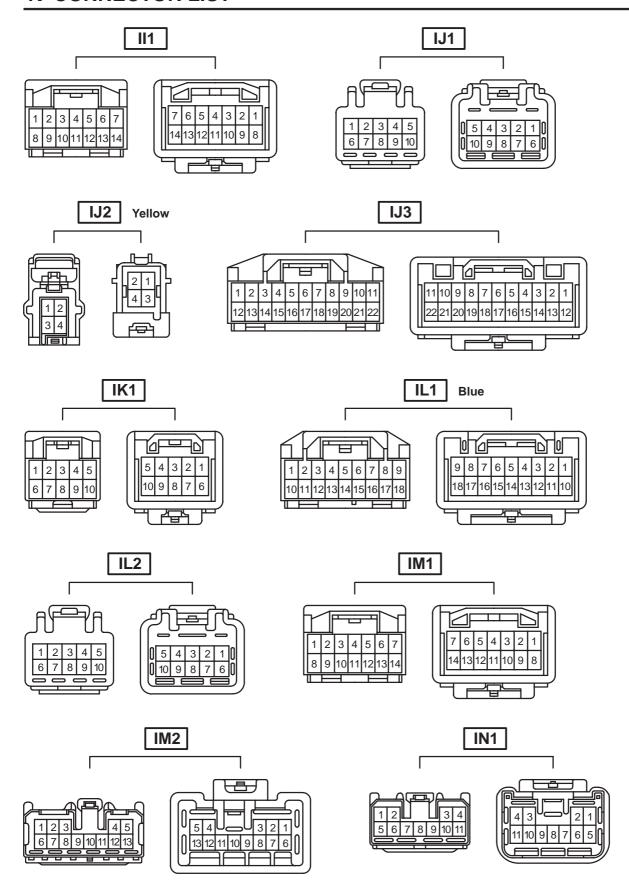


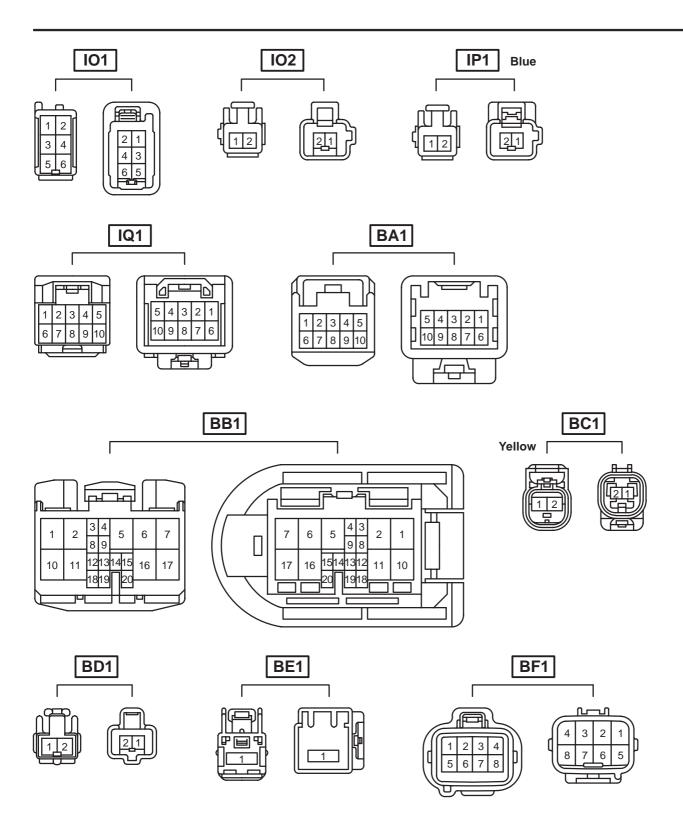


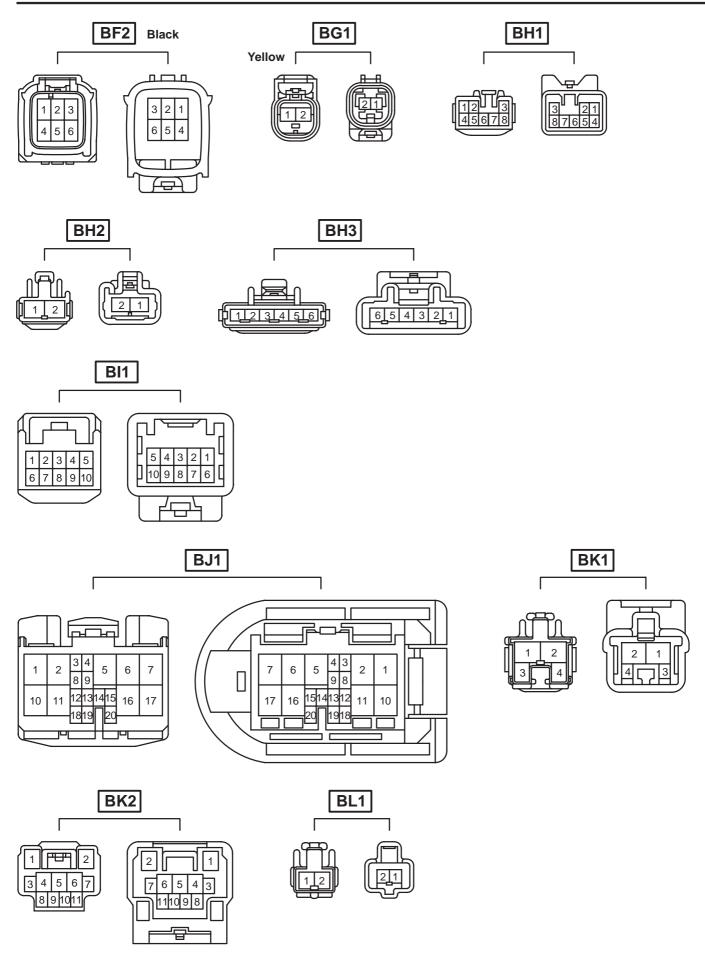


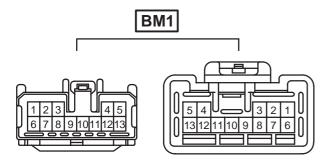












L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
A 1	A/C Condenser Fan Motor	90980-10928	B17	Brake Master Stroke Simulator Cylinder Assembly	90980–11003
A 2	ABS & BA & TRAC & VSC Actuator	90980–12297	B18	Brake Control Power Supply	82824–50190
A 3	ABS Speed Sensor Front LH	90980–11003	B19	Brake Actuator Resistor	82610-20080
A 4	ABS Speed Sensor Front RH		C 1	Camshaft Position Sensor	90980-10947
A 5	Air Fuel Ratio Sensor (Bank 1 Sensor 1)	90980–10869	C 2	Camshaft Timing Oil Control Valve	90980-11162
A 6	Ambient Temp. Sensor	90980–11070	C 3	Circuit Breaker Sensor	90980–11898
A 7	A/C Control Assembly	90980–12150	-	Compressor Assembly (Motor)	10000
A 8	A/C Control Assembly	90980–12149	C 4	Inverter	
A 9	A/C Room Temp. Sensor	90980–11950	C 5	Converter	90980–11034
A10	A/C Solar Sensor	90980–11918	C 6	Converter	90980–11963
A11	A/C Thermistor		C 7	Crankshaft Position Sensor	90980–12028
A12	ACC Relay	82660–20340	C 8	Center Speaker	90980–10860
A13	Accel Position Sensor	90980–11858	C 9	Clock	90980-11013
A14	Air Inlet Control Servo Motor	00000 41000	C10	Combination Meter	90980–12153
A15	Air Mix Control Servo Motor	90980–11909	C11	Combination SW	90980–12266
A16	Air Vent Mode Control Servo Motor	00000 40000	C12	Combination SW	90980–12265
A17	Airbag Sensor Assembly	90980-12392	C13	Combination SW	90980–12358
A18	Airbag Sensor Assembly	90980–12391	C14	Combination SW	90980–12359
A19	Airbag Sensor Assembly 90980–12390		C15	Curtain Shield Airbag Sensor LH	+
A20	Airbag Squib (Front Passenger Airbag Assembly)	90980–12224	C16	Curtain Shield Airbag Sensor RH	90980–12241
A21	Airbag Squib (Front Passenger Airbag	00000 40040	C17	Curtain Shield Airbag Squib LH	90980–12219
AZI	Assembly)	90980–12219	C18	Curtain Shield Airbag Squib RH	
A22	Airbag Squib (Steering Wheel Pad)	90980–12160	C19	Coolant Heat Storage Tank Outlet Temp.	90980–11061
A23	Antenna Amplifier	90980–10871	019	Sensor	90980-11001
A24	Automatic Light Control Sensor	90980–11107	C20	Coolant Heat Storage Water Pump	90980–11156
A25	ABS Speed Sensor Rear LH	90980–11900	D 1	Data Link Connector 3	90980–11665
A26	ABS Speed Sensor Rear RH		D 2	Daytime Running Light Relay	90980–12034
B 1	Brake Fluid Level Warning SW	90980–11207	D 3	Diode (Daytime Running Light)	90980–10962
B 2	Blower Motor	90980–10214	D 4	Door Control Receiver	90980–12366
В3	Blower Motor Controller	90980–11667	D 5	Door Courtesy Light Front LH	90980-11148
B 4	Blower Motor Controller	90980–11579	D 6	Door Courtesy Light Front RH	
B 5	Body ECU	90980–12458	D 7	Door Courtesy SW Front LH	
B 6	Body ECU	90980–12329	D 8	Door Courtesy SW Front RH	90980–10871
В7	Body ECU	90980–12150	D 9	Door Courtesy SW Rear LH	
B 8	Brake Pedal Stroke Sensor	90980–11150	D10	Door Courtesy SW Rear RH	
В9	Battery Blower Motor	90980–10916	D11	Door Lock Control SW Front RH	90980–10797
B10	Battery Blower Motor Controller	90980–11676	D12	Door Lock Motor Front LH	_
B11	Battery ECU	90980–12203	- · <u>-</u>	Door Unlock Detection SW Front LH	90980-12226
B12	Battery ECU	90980–11915	D13	Door Lock Motor Front RH	
	Hybrid Vehicle Battery			Door Unlock Detection SW Front RH	
B13	Battery ECU	90980–12155	D14	Door Lock Motor Rear LH	
	Hybrid Vehicle Battery			Door Unlock Detection SW Rear LH	_
B14	Battery Fan Relay	82660–20340	D15	Door Lock Motor Rear RH	_
B15	Buckle SW Front LH	90980–11918	<u> </u>	Door Unlock Detection SW Rear RH	
B16	Buckle SW Front RH	90980–11019			

Note: Not all of the above part numbers of the connector are established for the supply.

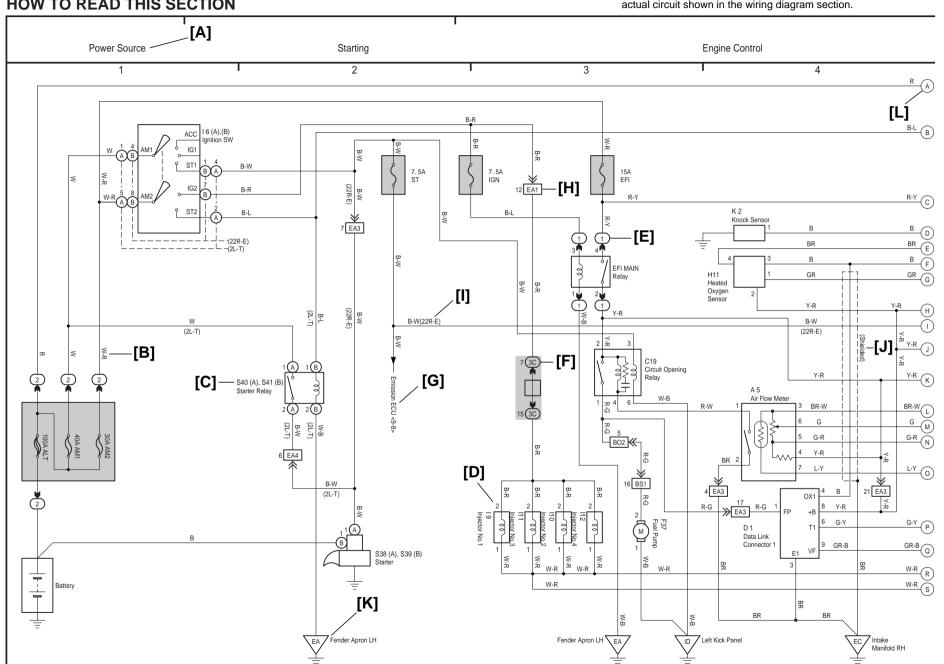
Code	Part Name	Part Number	Code	Part Name	Part Number	
D16	Door Oscillator Front LH (w/ Sensor)		H12	Headlight Beam Level Control ECU	90980-12200	
D17	Door Oscillator Front RH (w/ Sensor)	90980–12217	H13	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980–11028	
D18	Diode (Rear Wiper)	90980–10962	H14	Hybrid Vehicle Control ECU	90980-12431	
E 1	Engine Coolant Temp. Sensor	90980–10735	H15	Hybrid Vehicle Control ECU	90980-12429	
E 3	Engine Hood Courtesy SW	90980–11003	H16	Hybrid Vehicle Control ECU	90980-12428	
E 4	Engine Control Module	90980–12144	H17	Hybrid Vehicle Control ECU	90980-12430	
E 5	Engine Control Module	90980–12145	H18	Height Control Sensor	90980–11860	
E 6	Engine Control Module	90980–12142	H19	High Mounted Stop Light	90980–11967	
E 7	Engine Control Module	90980–12146	H20	Hybrid Vehicle Battery	82675-47060	
E 8	Electrical Key Antenna (Driver's Side)		H21	Hybrid Vehicle Battery	82675–47070	
E 9	Electrical Key Antenna (Front Passenger's Side)	90980–12382	I 1	Ignition Coil and Igniter No.1		
-	Electrical Key Antenna (Luggage	 	12	Ignition Coil and Igniter No.2	90980–11885	
E10	Compartment Door)	90980–10824	13	Ignition Coil and Igniter No.3		
F 1	Front Airbag Sensor LH	90980–11856	14	Ignition Coil and Igniter No.4		
F 2	Front Airbag Sensor RH	90960-11656	15	Injector No.1		
F 3	Front Fog Light LH	90980–11096	16	Injector No.2	90980–11875	
F 4	Front Fog Light RH	90960-11096	17	Injector No.3]	
F 5	Front Side Marker Light LH	00000 44456	18	Injector No.4		
F 6	Front Side Marker Light RH	90980–11156	19	Inverter	90980–11148	
F 7	Front Turn Signal Light LH		I10	Inverter	90980–12153	
F8	Front Turn Signal Light RH	90980–11019	l111	Inverter	90980–10988	
F 9	Front Washer Motor		l12	Inverter	90980–12465	
F10	Front Wiper Motor	90980–11599	l13	Inverter	90980–12464	
F11	Front Passenger Seat Belt Warning Light	90980–12012	l14	Inverter	90980–12434	
F12	Front Door Speaker LH	00000 40005	I15	Inverter	90980–12433	
F13	Front Door Speaker RH	90980–10935	l16	Inverter	90980–11147	
E4.4	Fuel Pump	00004 47400	l17	Inter Lock SW	90980–11918	
F14	Fuel Sender	82824–47160	l18	Interior Light	-	
F15	Fusible Link Block	90980–11775	J 1	Junction Connector	1	
F16	Fusible Link Block	90980–10916	J 2	Junction Connector	90980-10803	
G 1	Gateway ECU	90980-12404	J 3	Junction Connector	1	
G 2	Glove Box Light	90980–11918	J 4	Junction Connector		
G 3	Garage Door Opener	82824–47180	J 5	Junction Connector	90980-10830	
63	Inner Mirror	62624-47160	J 6	Junction Connector	90980–10803	
H 1	Headlight Beam Level Control Actuator LH	00000 44046	J 7	Junction Connector	90980–11661	
H 2	Headlight Beam Level Control Actuator RH	90980–11016	J 8	Junction Connector	1001	
H 3	Headlight Assembly LH	90980–11255	J 9	Junction Connector	90980–11915	
H 4	Headlight Assembly LH	90980–10869	J10	Junction Connector		
H 5	Headlight Assembly RH	90980–11255	J11	Junction Connector	90980–10803	
H 6	Headlight Assembly RH	90980–10869	J12	Junction Connector	90980–11661	
H 7	Headlight LH	00000 44044	J13	Junction Connector		
H 8	Headlight RH	90980–11314	J14	Junction Connector	90980–11915	
H 9	Horn (High)	00000 40040	J15	Junction Connector		
H10	Horn (Low)	90980–10619	J16	Junction Connector	90980–10803	
1144	Hazard SW	00000 40004	J17	Junction Connector		
H11	ODO/TRIP SW	90980–12091				

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
J18	Junction Connector		N 3	Navigation ECU	90980–12200
J19	Junction Connector	90980–11915	N 4	Navigation ECU	90980–12221
J20	Junction Connector		N 5	Noise Filter (High Mounted Stop Light)	
J21	Junction Connector	90980–11661	N 7	Noise Filter (Rear Window Defogger)	90980–10916
J22	Junction Connector		N 8	Navigation ECU	90980–12596
J23	Junction Connector	00000 40000	01	Oil Pressure SW	90980–11363
J24	Junction Connector	90980–10803	02	Option Connector (Glass Breakage Sensor)	90980–10908
J25	Junction Connector		03	Overhead J/B	90980–12183
J26	Junction Connector	00000 44500	0 4	Occupant Classification ECU	90980–12356
J27	Junction Connector	90980–11529	O 5	Occupant Classification ECU	90980–12357
J30	Junction Connector	90980–10803	06	Occupant Classification Sensor Front LH	90980–12353
J31	Junction Connector	90980–11915	07	Occupant Classification Sensor Front RH	00000 40054
J32	Junction Connector	90980–10803	08	Occupant Classification Sensor Rear LH	90980–12354
J33	Junction Connector	90980–11915	09	Occupant Classification Sensor Rear RH	90980–12353
J34	Junction Connector	90980–10799	P 1	Pressure SW	90980–10943
J36	Junction Connector	90980–10803	P 2	Parking Brake SW	90980–10871
K 1	Knock Sensor (Bank 1)	90980–11875	Р3	Power Outlet No.1	00090 10760
K 2	Key Slot	90980–12366	P 4	Power Outlet No.2	90980–10760
K 3	Key Slot	90980–12092	P 5	Power Outlet Relay	82660–20340
L 1	License Plate Light LH	00000 11149	P 6	Power Source Control ECU	90980–12388
L2	License Plate Light RH	90980–11148	P 7	Power Steering ECU	90980–12300
L 3	Luggage Compartment Courtesy SW	90980–10795	P 8	Power Steering ECU	90980–12290 90980–12299
L 3	Luggage Compartment Door Opener Motor		P 9	Power Steering ECU	
L4	Luggage Compartment Door Lock SW	90980–12212		Power Steering Motor	90980-12299
L 4	Luggage Compartment Door Opener SW	90900-12212	P10	Power Steering ECU	
L 5	Luggage Compartment Light	90980–10860	1 10	Power Steering Torque Sensor	90900-12221
L 6	Luggage Oscillator (Inner)	90980–12366	P11	Power SW	90980–11989
L 7	Luggage Oscillator (Outer)	90980–12217	P12	PTC Heater	90980–11136
M 1	Mass Air Flow Meter	90980–11317	P13	PTC Heater	90980–10903
M 2	Motor Generator No.1		P14	Power Window Control SW Front RH	
М3	Motor Generator No.1	90980–12432	P15	Power Window Control SW Rear LH	90980–10789
M 4	Motor Generator No.1		P16	Power Window Control SW Rear RH	
M 5	Motor Generator No.1	90980–11034	P17	Power Window Master SW	90980–12122
M 6	Motor Generator No.2		P18	Power Window Motor Front LH	
M 7	Motor Generator No.2	90980–12432	P19	Power Window Motor Front RH	90980–10797
M 8	Motor Generator No.2		P20	Power Window Motor Rear LH	00000 10707
M 9	Motor Generator No.2	90980–11034	P21	Power Window Motor Rear RH	
M10	Motor Generator No.2		P22	Pretensioner LH	90980–12253
M11	Main SW	90980–11986	P23	Pretensioner RH	
M12	Mirror Heater Relay	82660–20340	R 1	Radiator Fan Motor	90980–10928
M13	Multi-Display	90980–12203	R 2	Rear Washer Motor	90980–11051
M14	Multi-Display	90980–12169	R 3	Radio and Player	90980–10997
M15	Multi-Display	90980–12012	R 4	Radio and Player	90980–10996
M16	Multi-Display	90980–12593	R 5	Radio and Player	90980–12259
N 1	Noise Filter (Ignition)	90980–10843			

Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number	Code	Part Name	Part Number
R 6	Radio and Player	90980-12038	S22	System Main Relay	90980-10795
R 7	Rheostat	90980-12361	S23	System Main Relay	
R 8	Room Oscillator	90980-12366	S24	System Main Relay	90980-09938
R 9	Rear Combination Light LH		S25	System Main Relay	
R10	Rear Combination Light RH	90980-11011	S26	System Main Relay	82675–28380
R11	Rear Door Speaker LH		S27	Short Connector (Water Pump)	90980–11162
R12	Rear Door Speaker RH	90980–10935	S28	Short Connector (Water Pump)	90980–11168
R13	Rear Window Defogger	90980-10914	S29	Stereo Component Amplifier	90980-10803
R14	Rear Window Defogger	90980-10913	S30	Stereo Jack Adapter	82824–21030
R15	Rear Window Defogger	90980-10914	T 1	Theft Deterrent Horn	90980-10619
R16	Rear Window Defogger	90980-10913	T 2	Throttle Control Motor	90980–11162
R17	Rear Wiper Motor	90980–10795	Т3	Throttle Position Sensor	90980–10711
R18	Rear Wiper Relay	90980–10797	T 4	Transmission Control ECU	90980-12203
D40	Mirror Heater LH		T 5	ID Code Box	90980-12404
R19	Remote Control Mirror LH	00000 40400	T 6	Tweeter Front LH	
Doo	Mirror Heater RH	90980–12189	T 7	Tweeter Front RH	00000 40004
R20	Remote Control Mirror RH		T 8	Tweeter Rear LH	90980–12304
R21	Remote Control Mirror SW	90980–11657	T 9	Tweeter Rear RH	\neg
S 1	Shift Control Actuator	90980-12446	T10	Tire Pressure Warning Antenna and	90980–11909
S 2	Short Connector	90980-11002		Receiver	
S 3	Short Connector	90980-11003	T11	Tire Pressure Warning ECU	90980–12183
S 4	Shift Lever Position Sensor	90980–11989	T12	Tire Pressure Warning Reset SW	90980–10906
S 5	Shift Lever Position Sensor	90980-12303	T13	Television Camera	90980–12212
S 6	Skid Control Buzzer	90980-10906	V 1	VSV (Purge)	90980–11156
S 7	Skid Control ECU	90980-12144	V 2	Vanity Light LH	90980-10935
S 8	Skid Control ECU	90980–12145	V 3	Vanity Light RH	
S 9	Skid Control ECU	90980-12146	V 4	Vanity Light SW LH	90980–11918
S10	Skid Control ECU	90980-12142	V 5	Vanity Light SW RH	
S11	Certification ECU	90980-12388	V 6	Vapor Pressure Sensor	90980–11143
S12	Smart Key System Cancel SW	90980-10825	V 7	Canister Pump Module	90980–12380
S13	Steering Sensor	90980-12162	V 8	VSV (Fuel Vapor–Containment Valve)	90980–11859
S14	Stereo Component Amplifier	90980-10801	W 1	Water Pump Motor (A/C)	90980–10887
S15	Stereo Component Amplifier	90980-12200	W 3	Water Pump Motor (Inverter)	90980–11162
S16	Stop Light SW	90980–11118	W 4	Water Temp. SW	90980–11235
S17	Seat Position Airbag Sensor	90980-10942	W 5	Water Valve	90980–10988
S18	S18 Side Airbag Sensor LH	00000 1001:	W 6	Wireless Door Lock Buzzer	90980–11142
S19	Side Airbag Sensor RH	90980–12241	Y 1	Yaw Rate Sensor	90980–11904
S20	Side Airbag Squib LH	90980–12452			



- [A] : System Title
- [B] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B = Black W = White BR = Brown

L = Blue V = Violet SB = Sky Blue

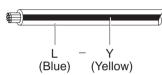
R = Red G = Green LG = Light Green

P = Pink Y = Yellow GR = Gray

O = Orange

The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: L - Y



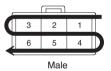
- [C] : The position of the parts is the same as shown in the wiring diagram and wire routing.
- [D] : Indicates the pin number of the connector.

 The numbering system is different for female and male connectors.

Example : Numbered in order from upper left to lower right

Numbered in order from upper right to lower left



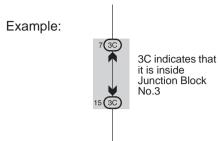


The numbering system for the overall wiring diagram is the same as above

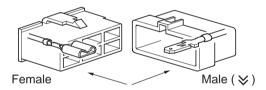
[E] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B.

Example: 1 Indicates Relay Block No.1

[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.



- [G] : Indicates related system.
- [H] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (⋈). Outside numerals are pin numbers.



- [I] : () is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.
- [J] : Indicates a shielded cable.



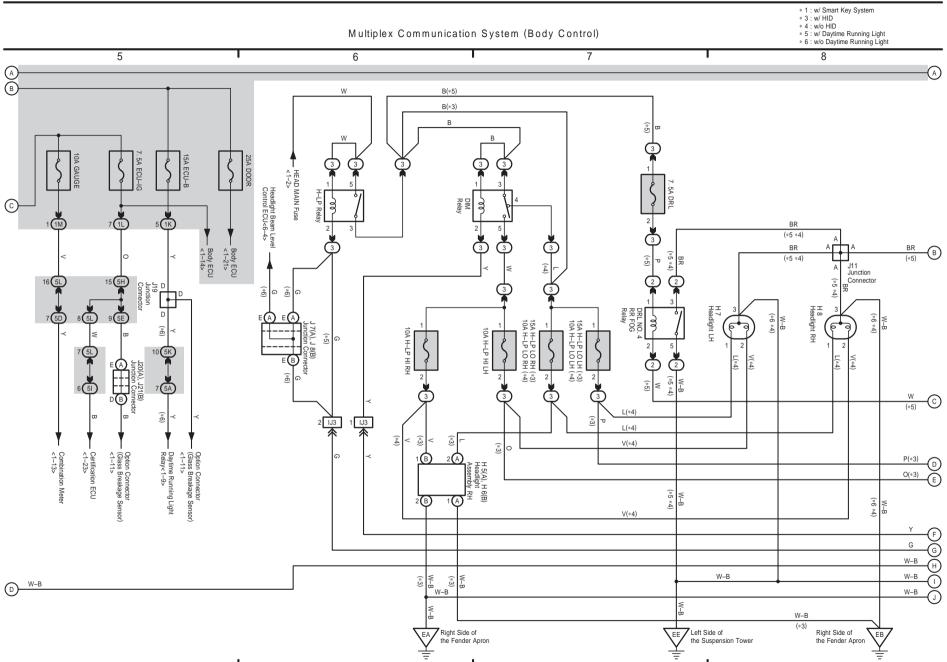
- [K]: Indicates and located on ground point.
- [L] : The same code occuring on the next page indicates that the wire harness is continuous.

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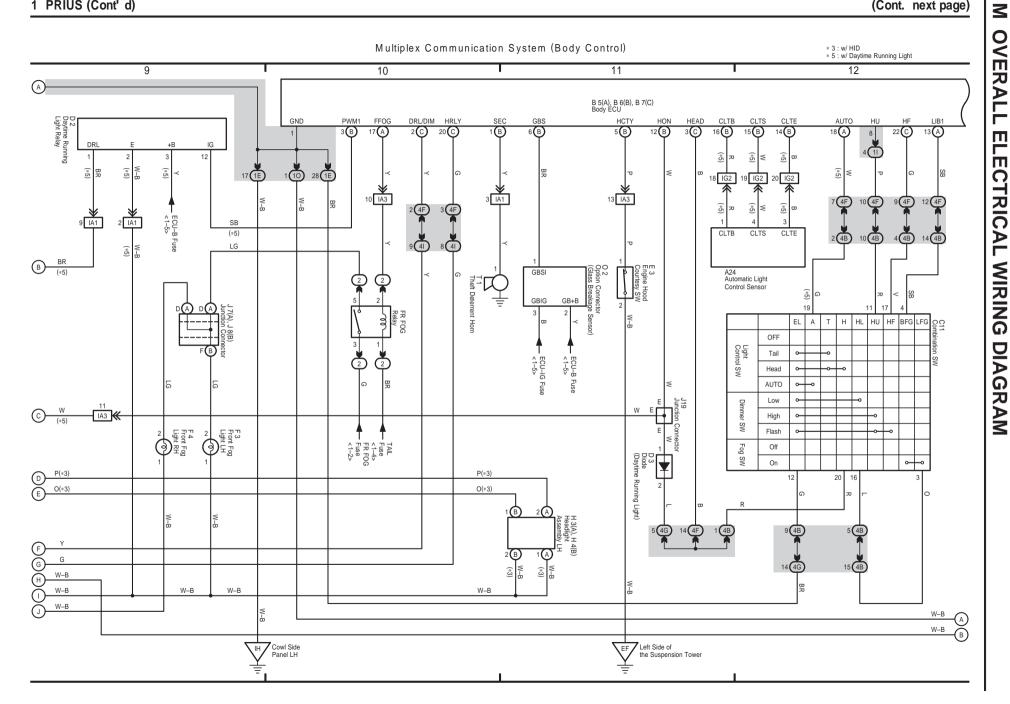
SYSTEMS	LOCATION	SYSTEMS	LOCATION
ABS	23–2	* Interior Light * Key Reminder * Light Auto Turn Off System	
Audio System (Built–in Amplifier)		* Luggage Compartment Door Opener * Smart Key System * Theft Deterrent * Wireless Door Lock Control Multiplex Communication System (CAN Buttiplex Communication System (Power * Cruise Control * Hybrid Vehicle Immobiliser System	•
Engine Control	5–3	* Push Button Start System* Shift Control System* TOYOTA Hybrid System	
Front Wiper and Washer		Power Outlet	
Headlight Beam Level Control	6–3	Power Window Radiator Fan and Condenser Fan	22–2
Ignition		Rear Window Defogger	13–4
Mirror Heater		Remote Control Mirror	11–9
Multi-Display (Separate Amplifier) Multiplex Communication System (AVC-LAN E		SRSStop Light	7–3
Multiplex Communication System (BEAN Bus) Multiplex Communication System (Body Control * Automatic Light Control		Taillight Tire Pressure Warning System TRAC	24–3
Door Lock ControlFront Fog LightHeadlight		Turn Signal and Hazard Warning Light	

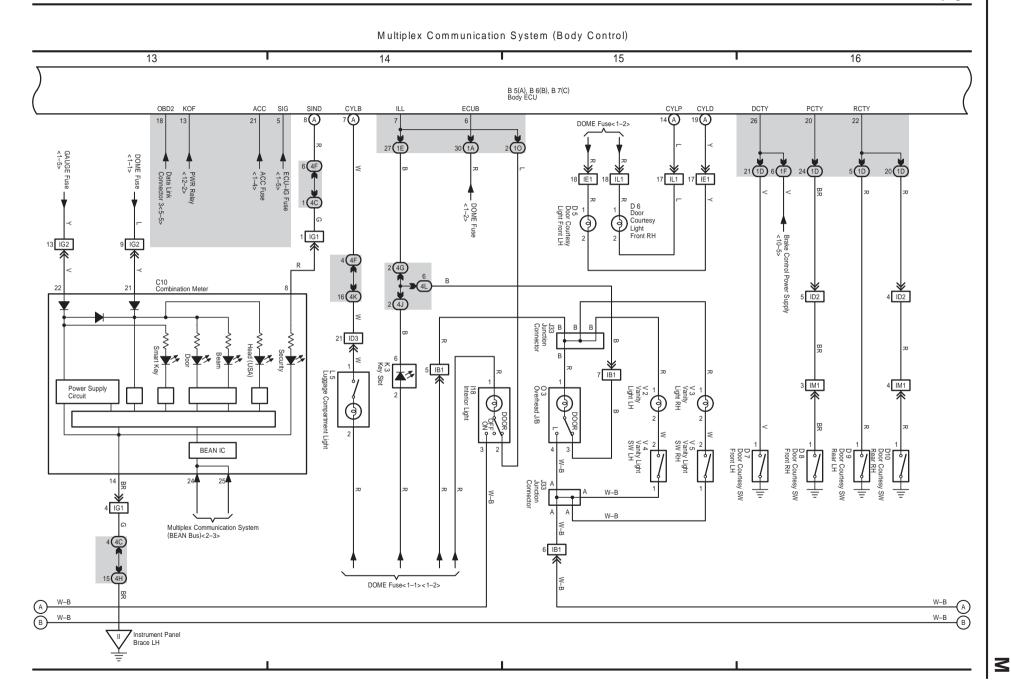
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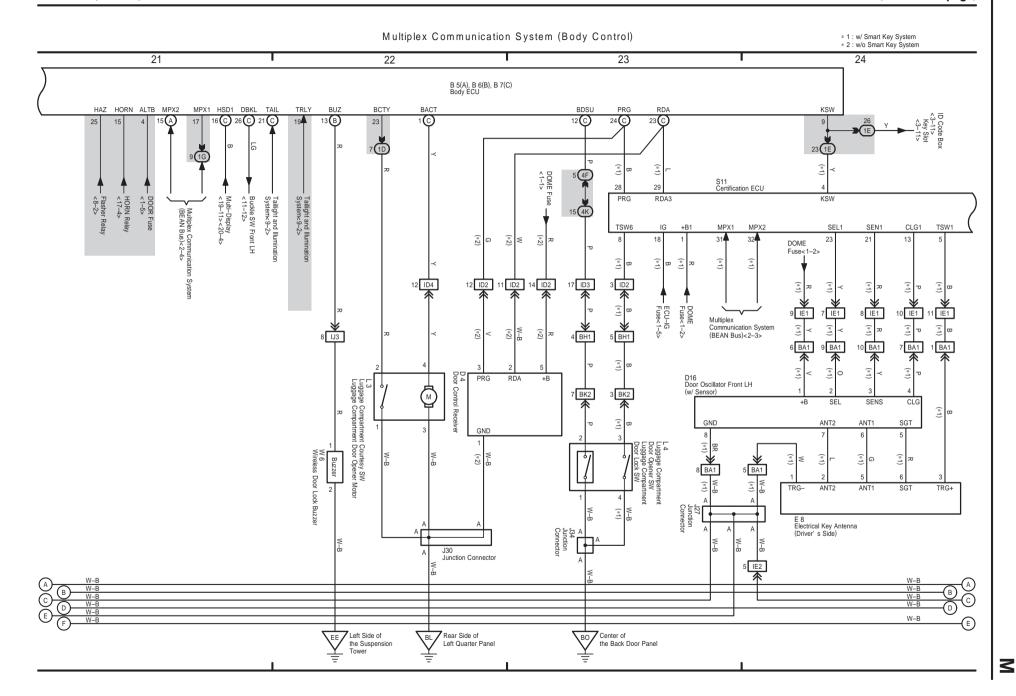


PRIUS (EM01R0U)





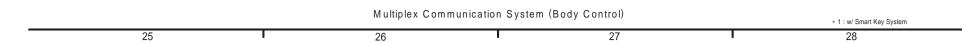
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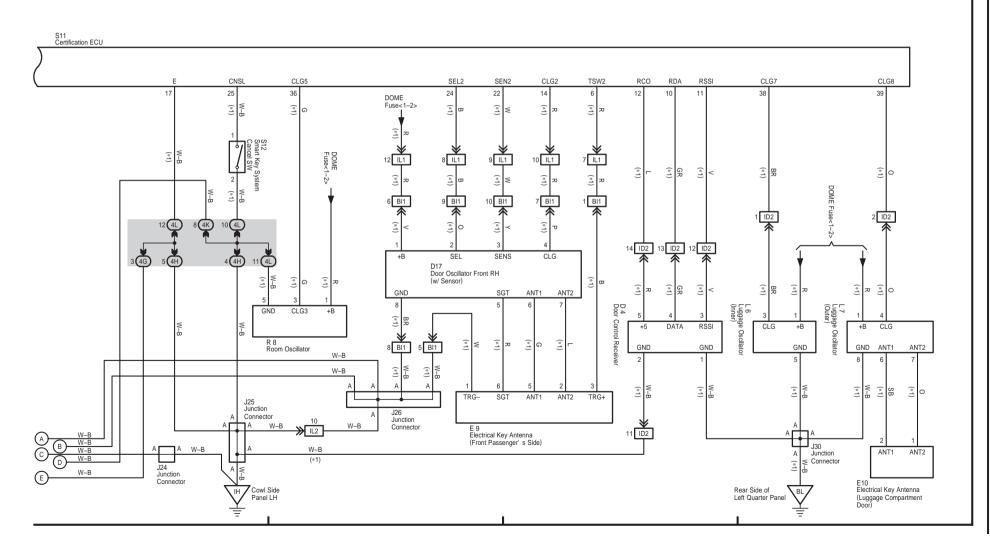


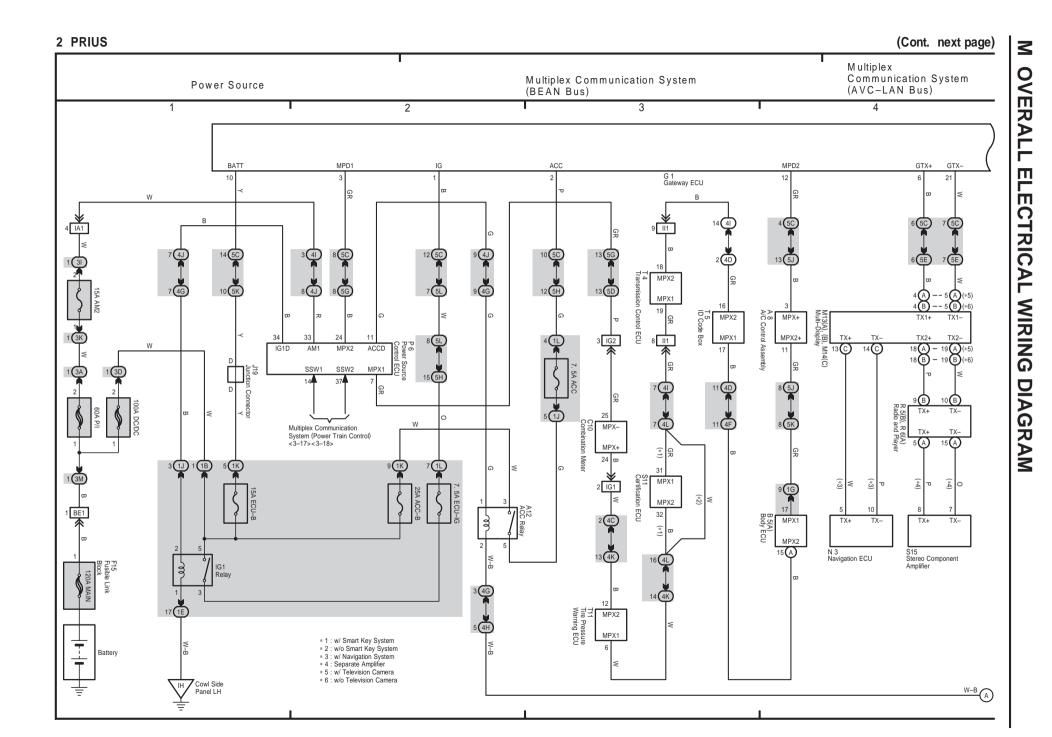
PRIUS (EM01R0U)

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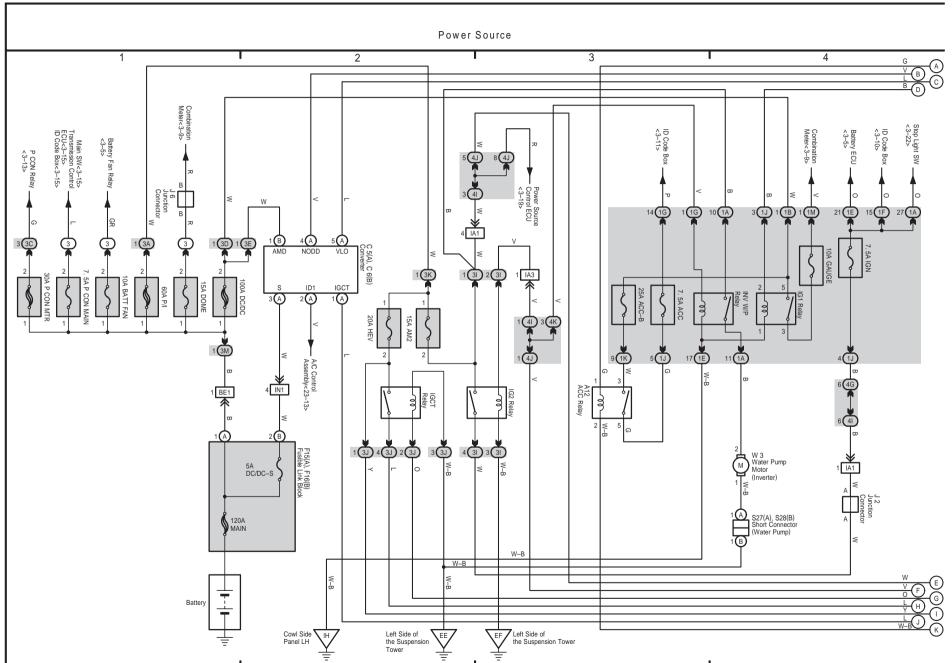


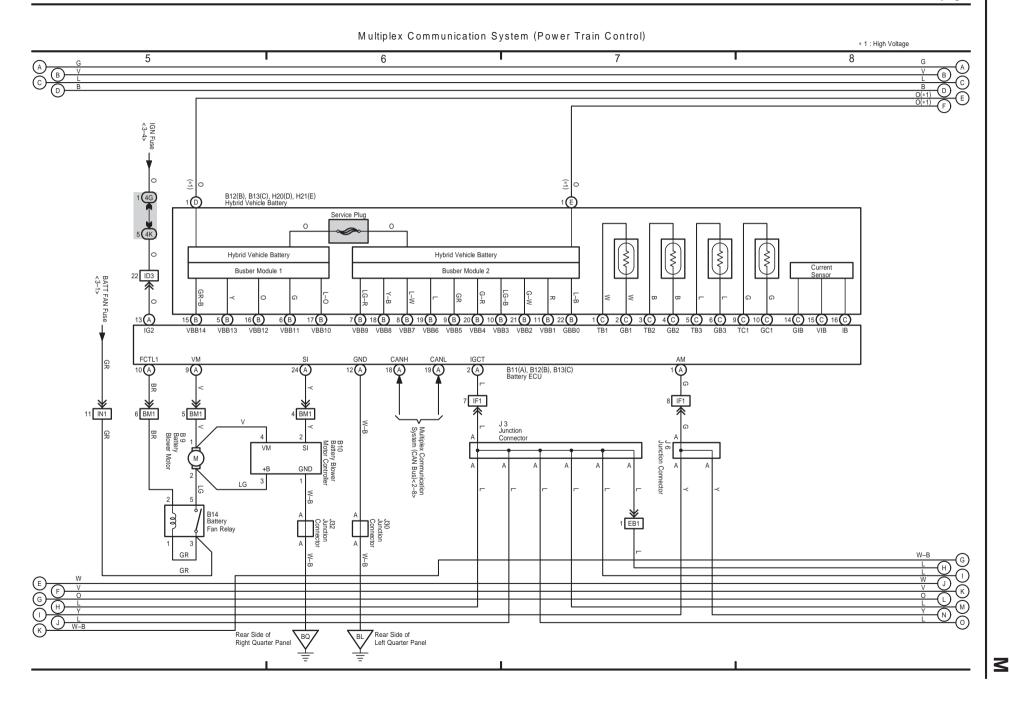


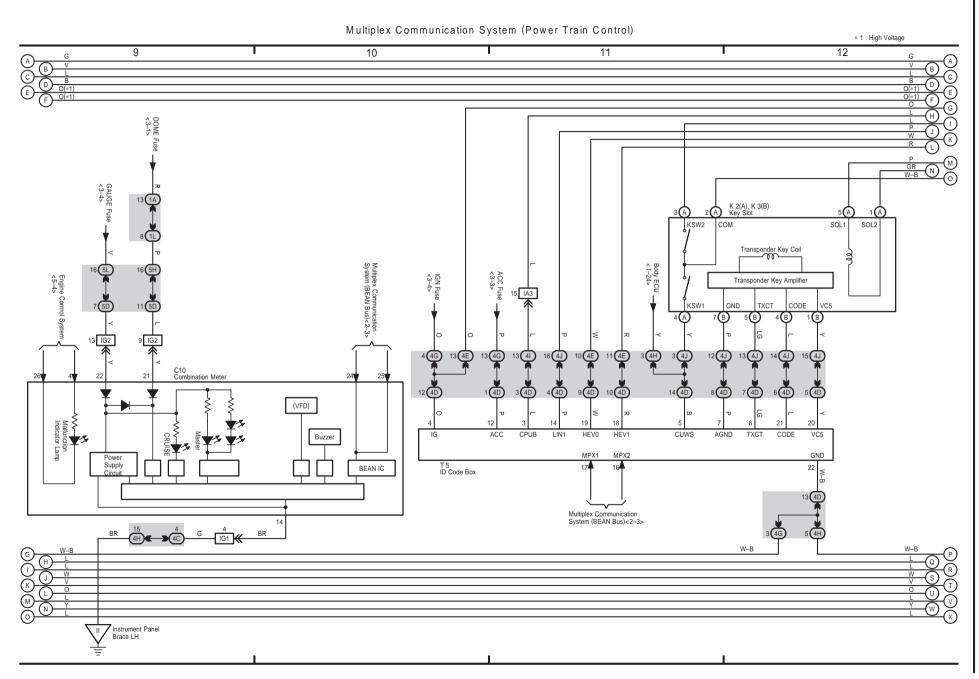


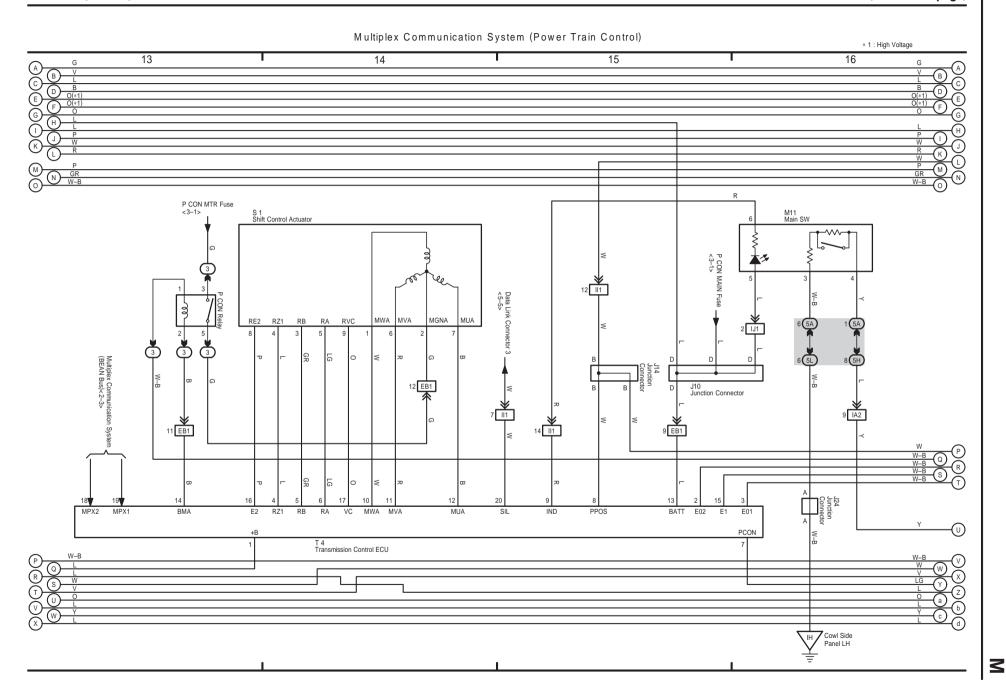
3 PRIUS

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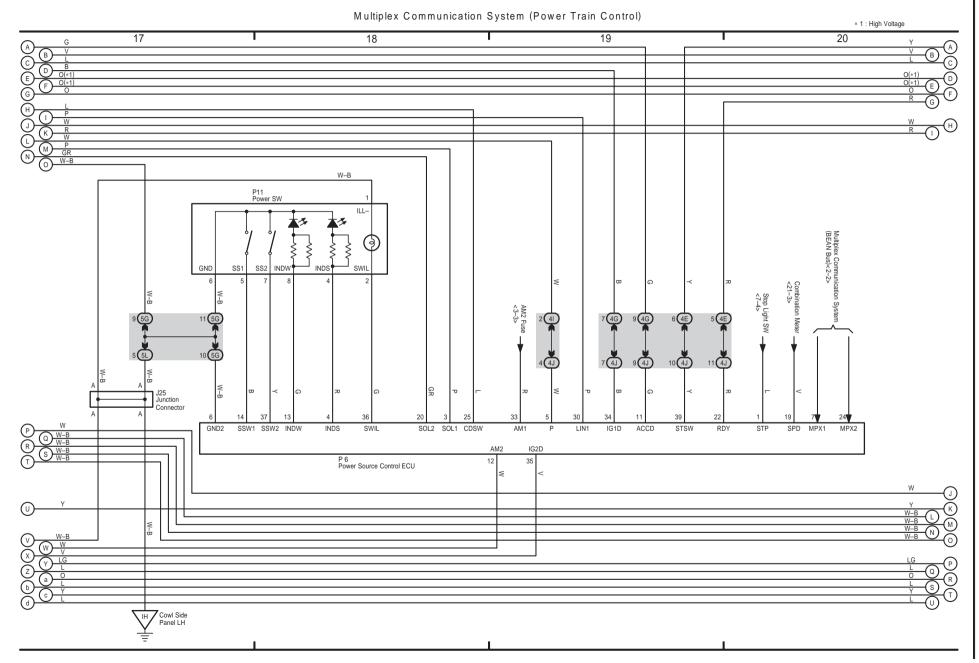


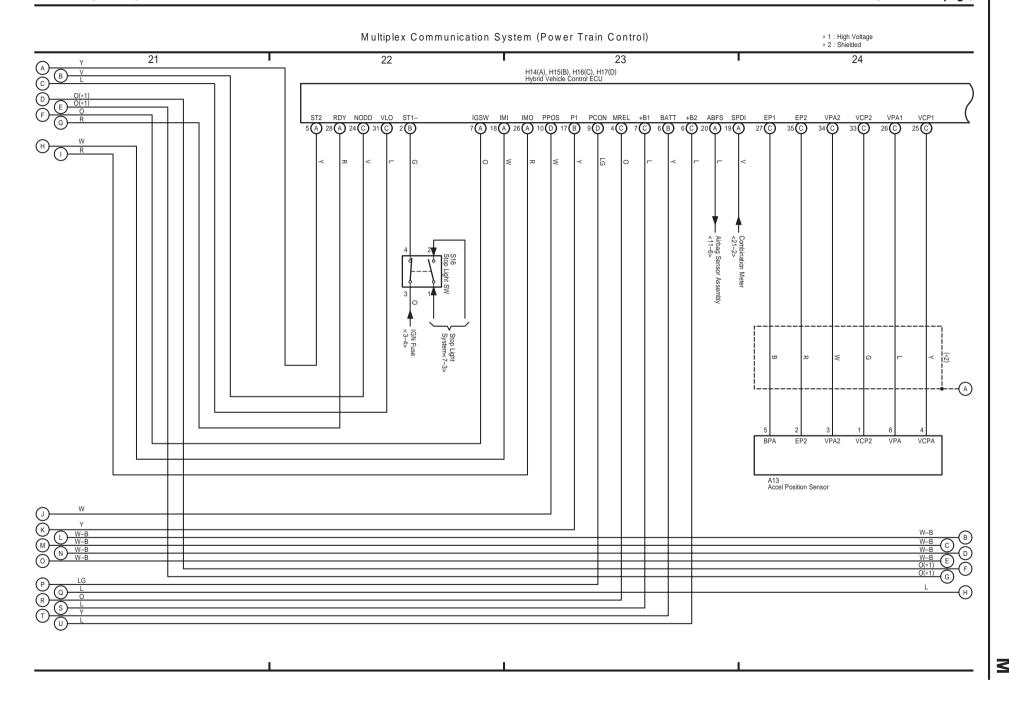


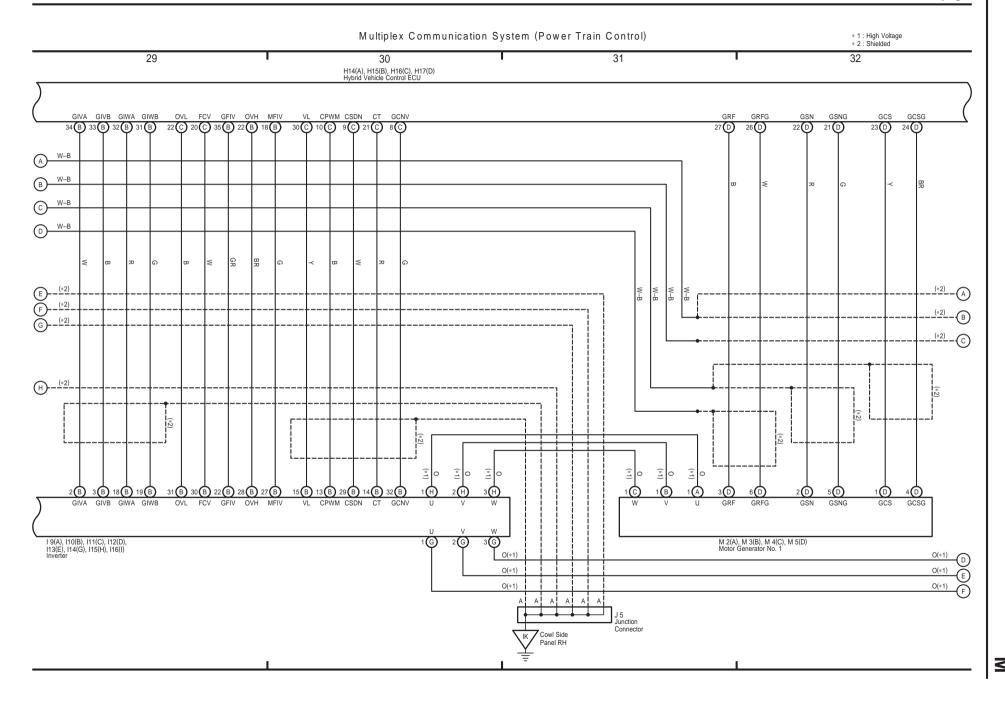


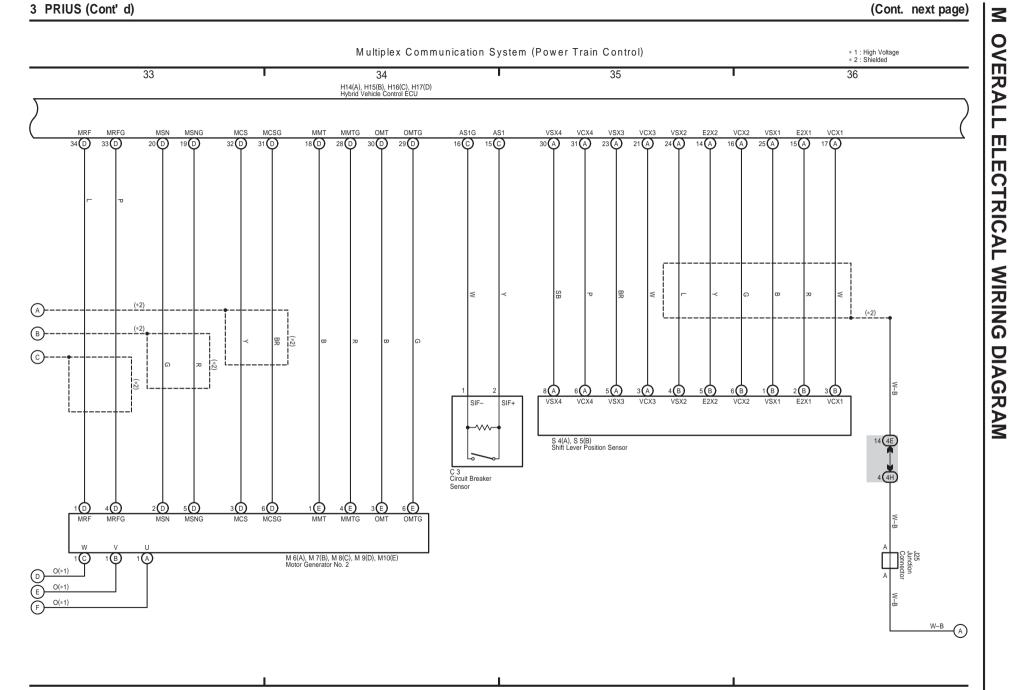


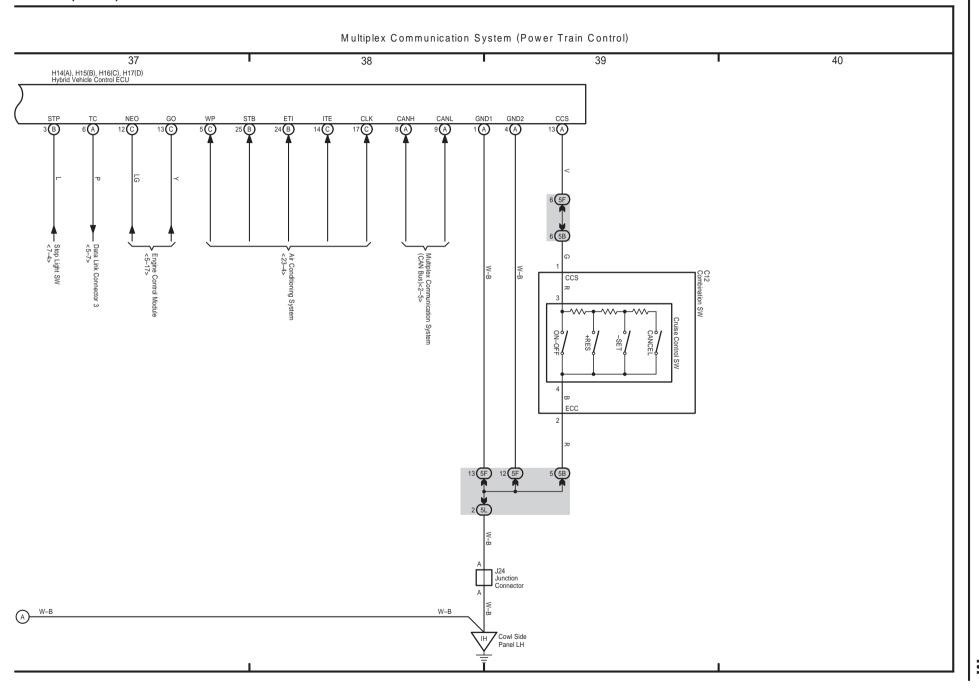
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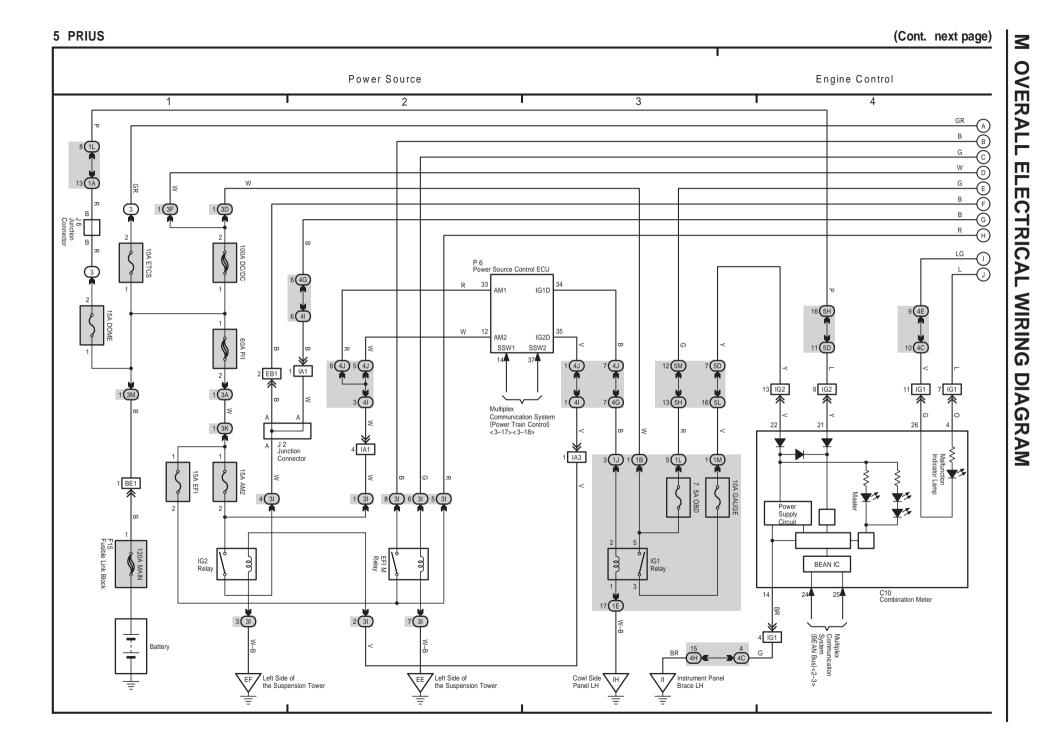


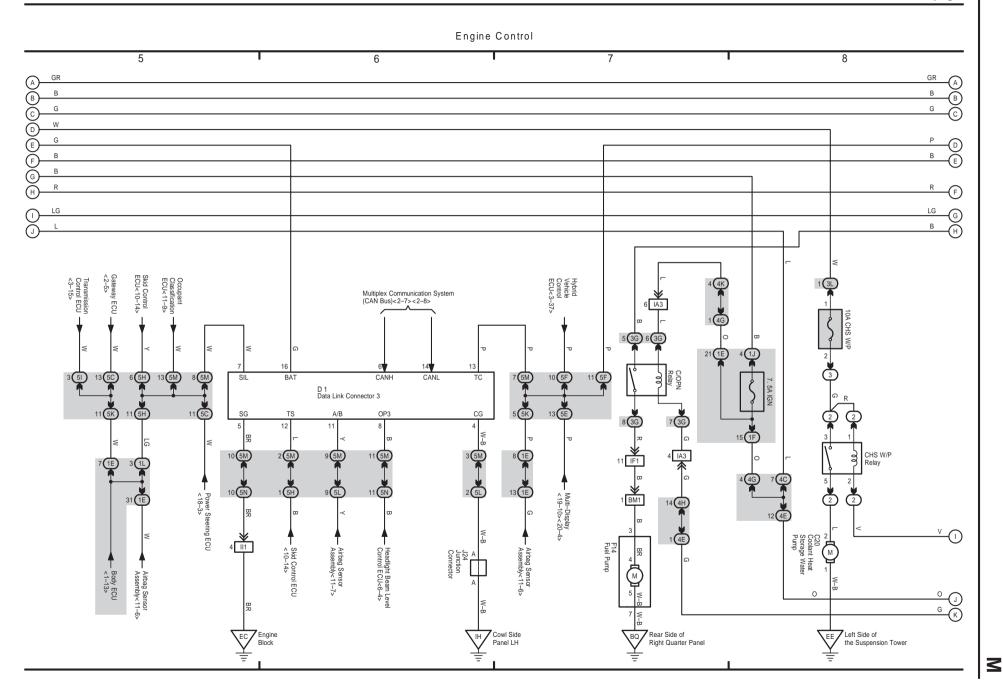
4 PRIUS Ignition Power Source 2 P 6 Power Source Control ECU AM2 IG2D SSW2 Multiplex Communication System (Power Train Control) <3–17><3–18> 1 IA3 W-B W-B Ignition Coil and Igniter No. 1 I 2 Ignition Coil and Igniter No. 2 I 3 Ignition Coil and Igniter No. 3 Ignition Coil and Igniter No. 4 GND GND GND GND N 1 Noise Filter (Ignition) IGt IGt lGt 1 BE1 IG2 Relay 3**3**1 Engine Control Module <5–15> Battery 7 Left Side of the Suspension Tower Engine ED Block EF/

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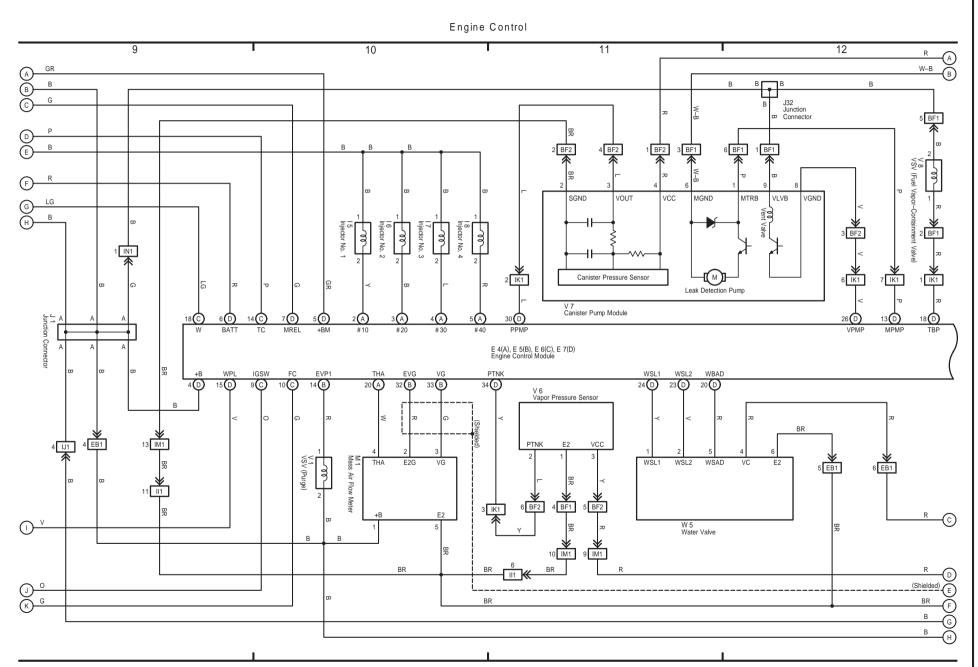
OVERALL

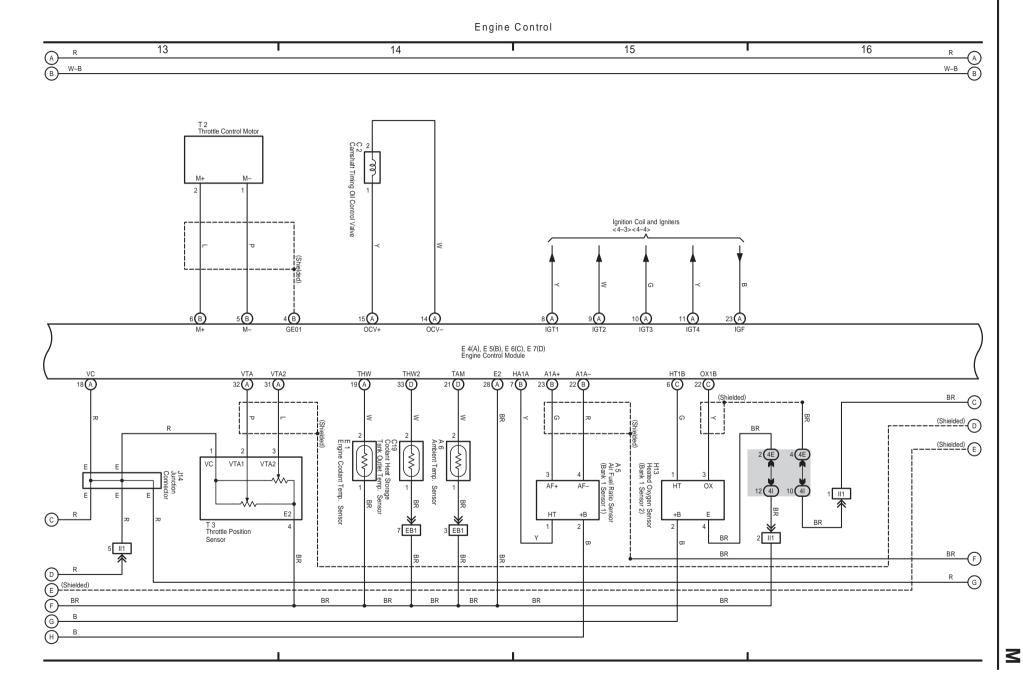
ELECTRICAL WIRING DIAGRAM

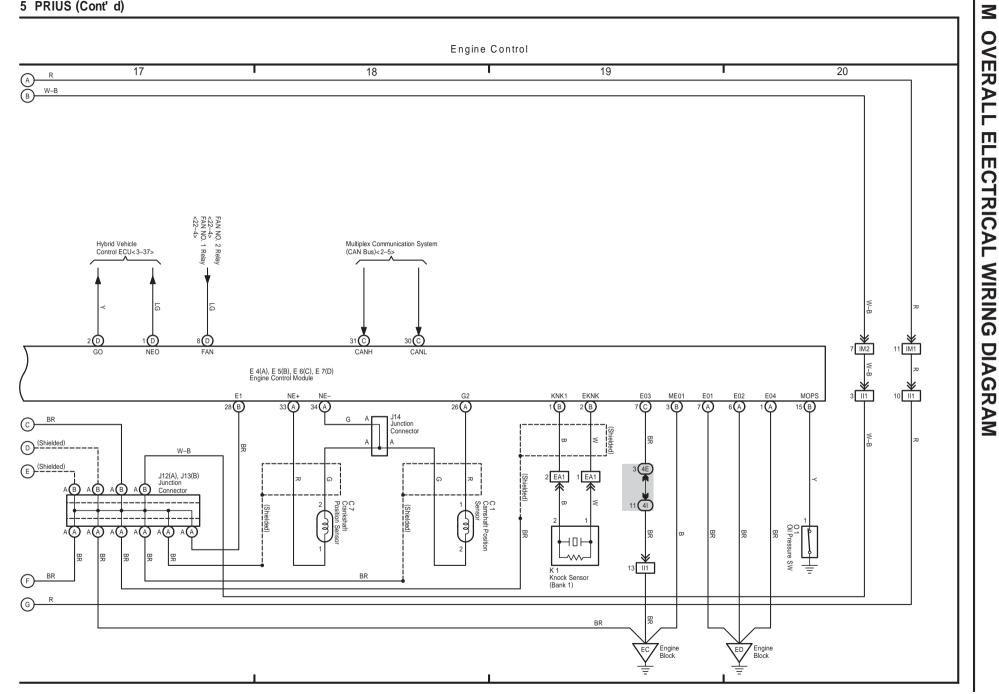


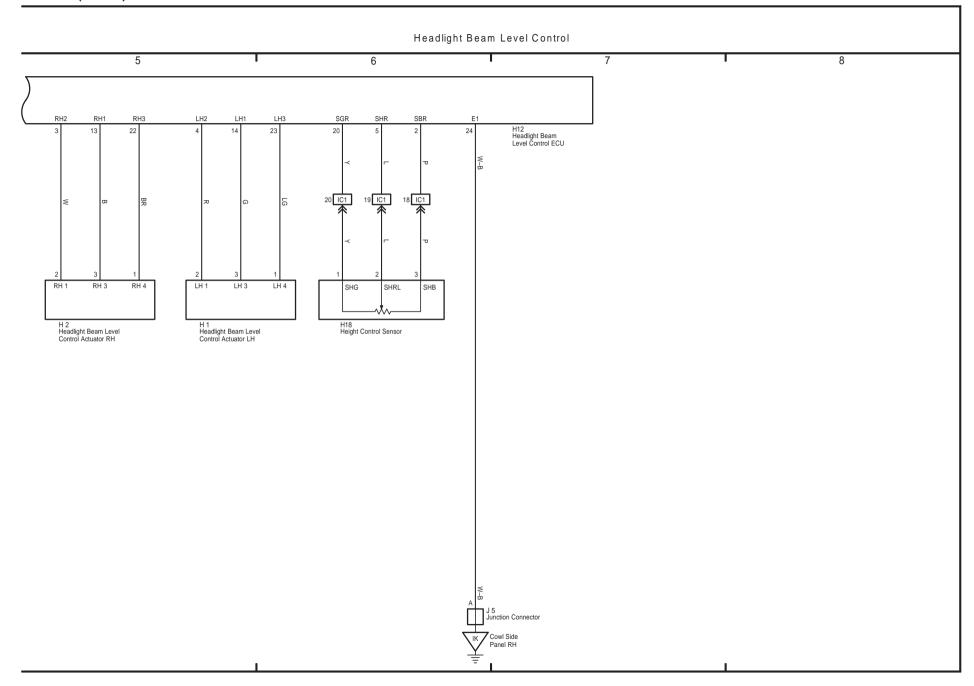


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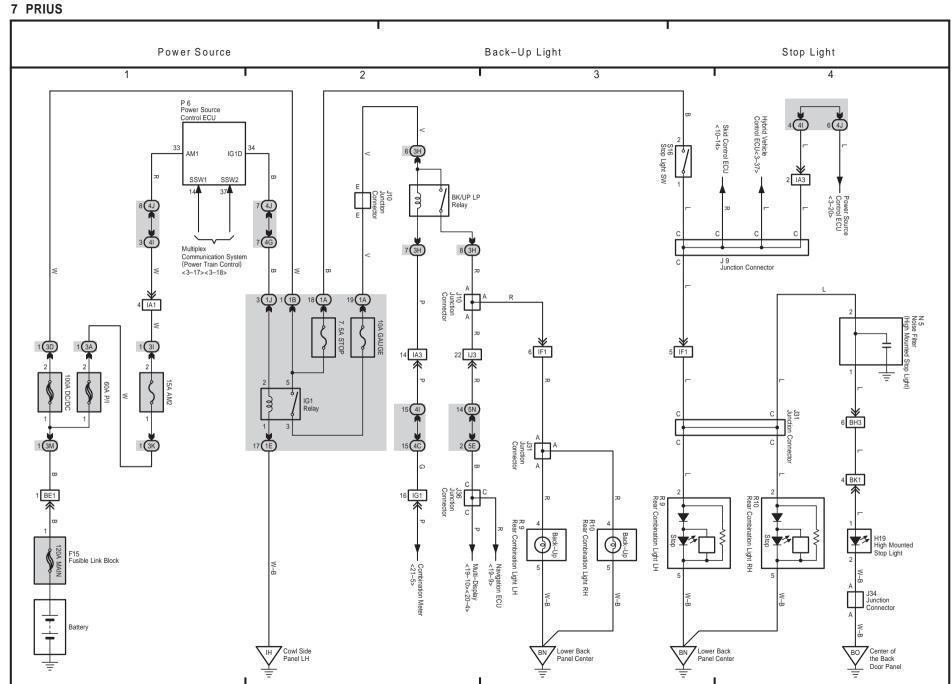


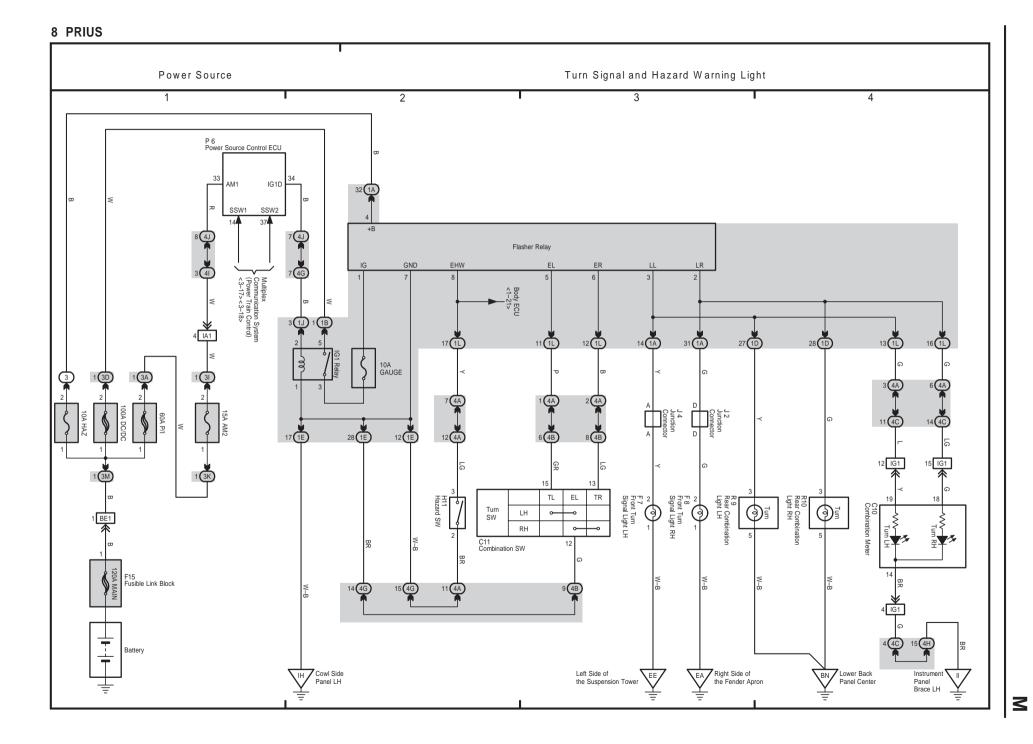


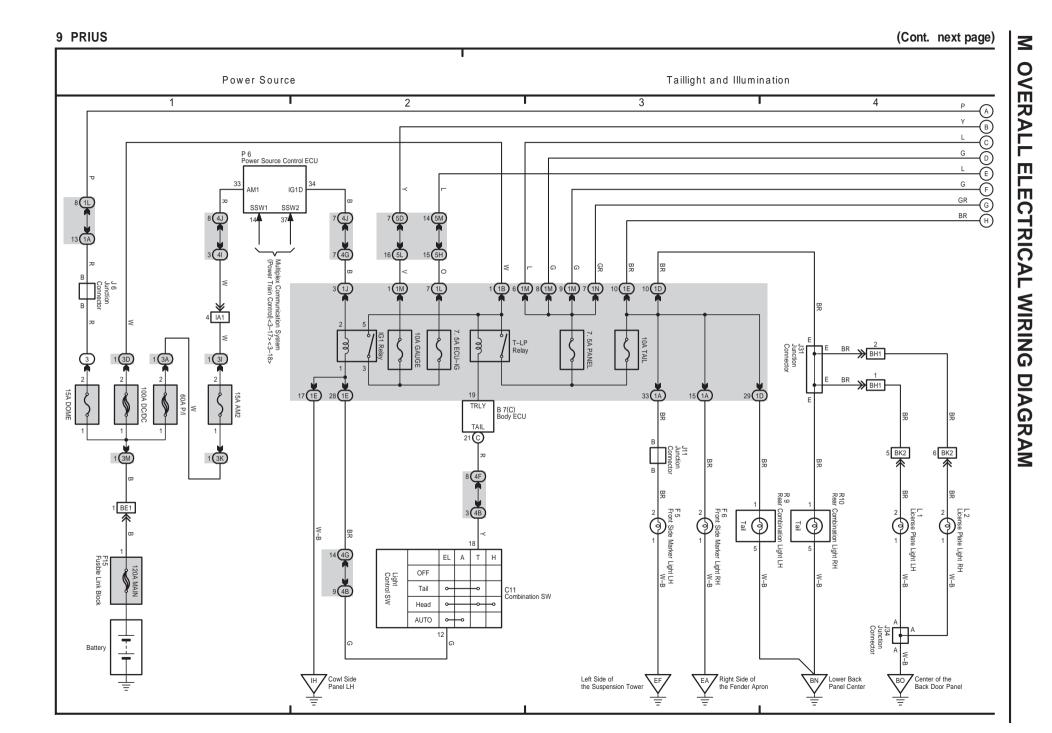


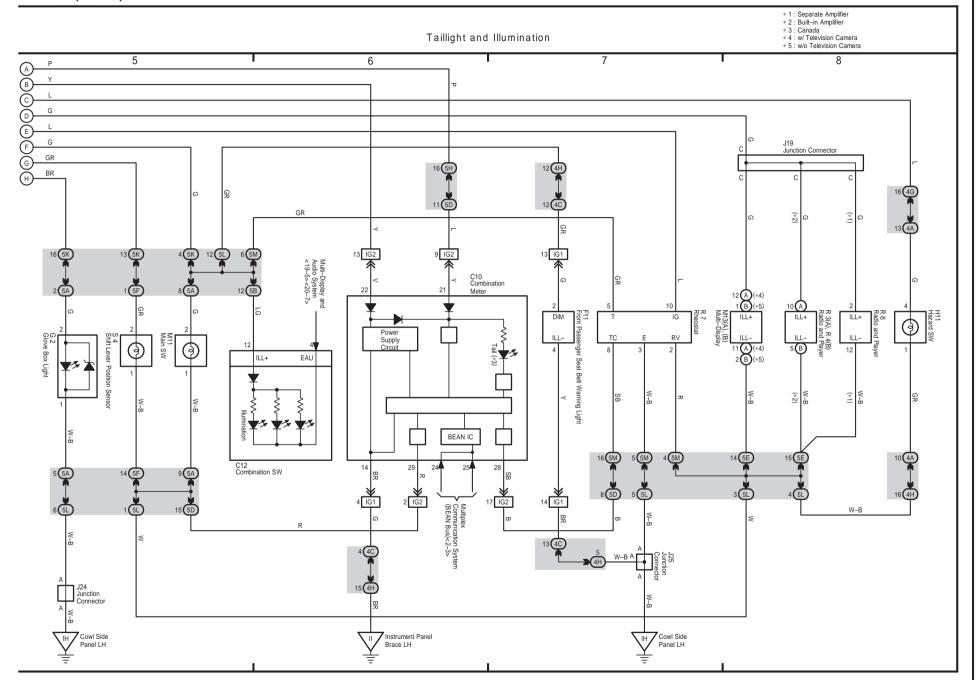


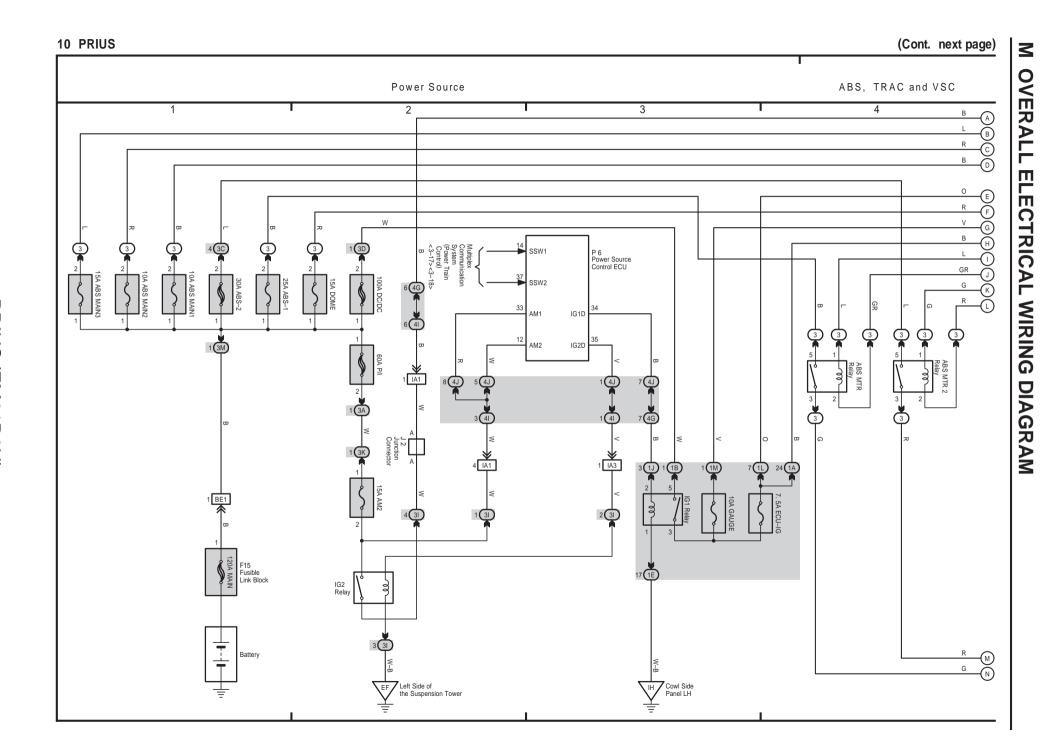
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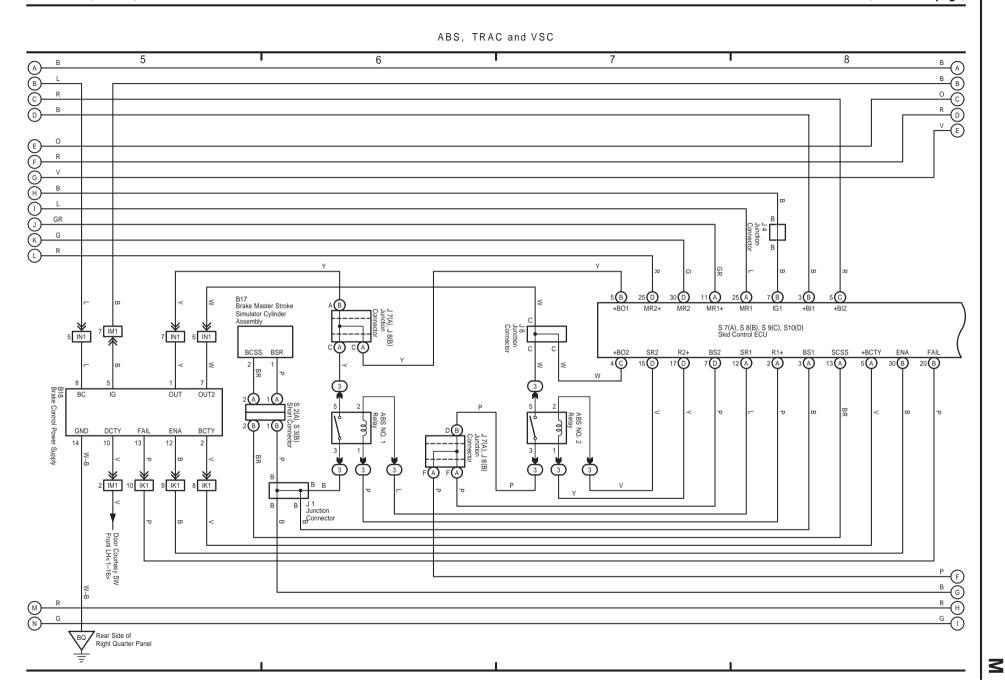




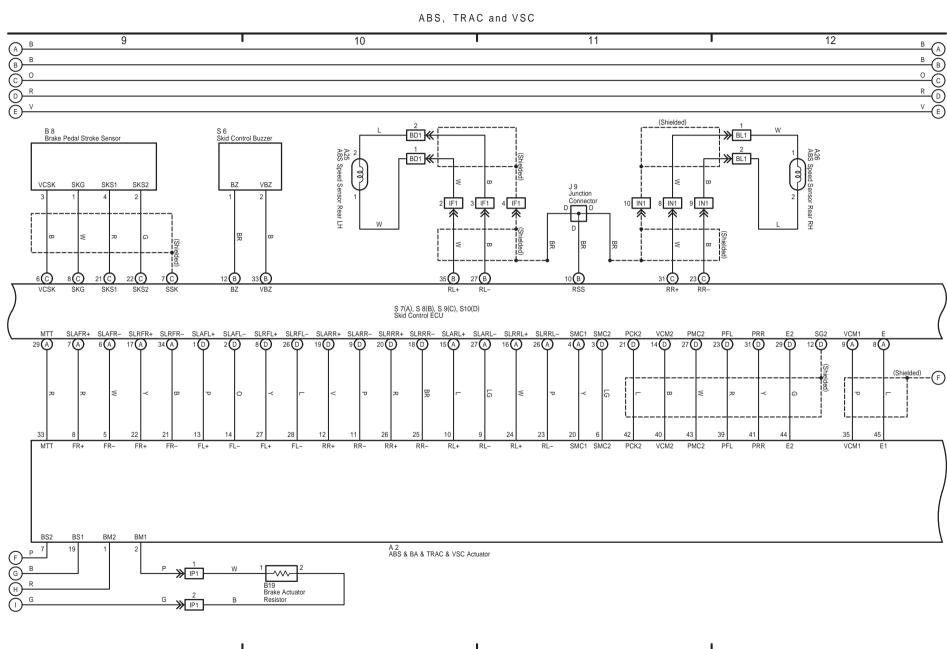


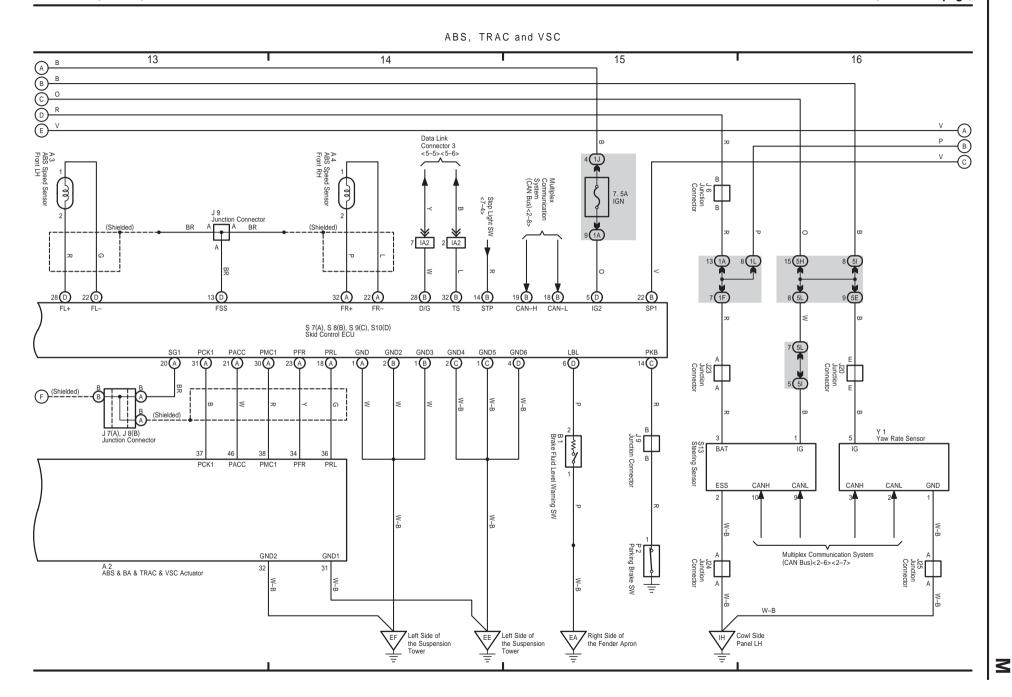


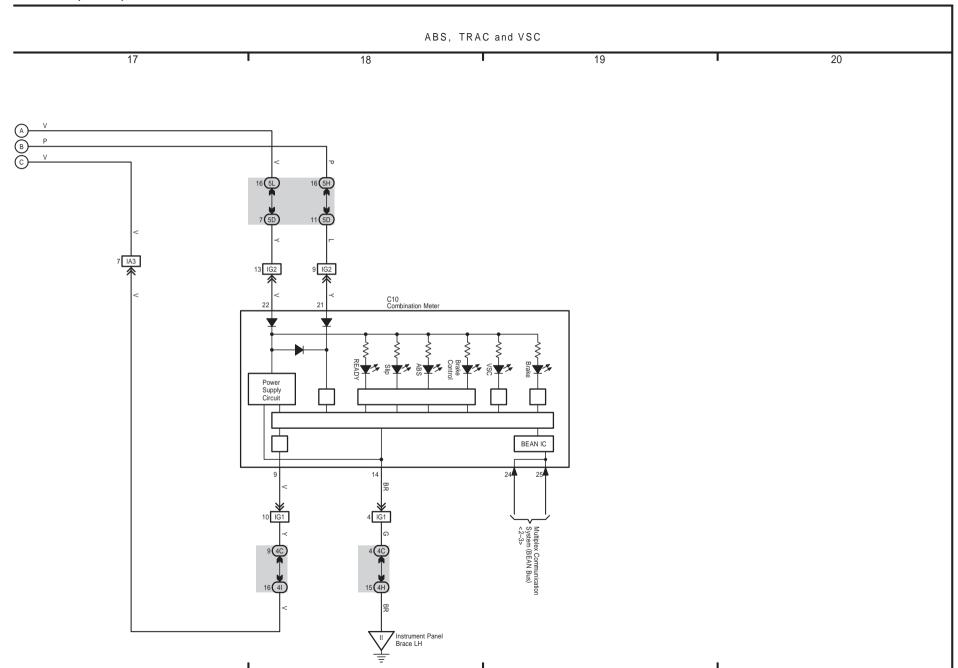


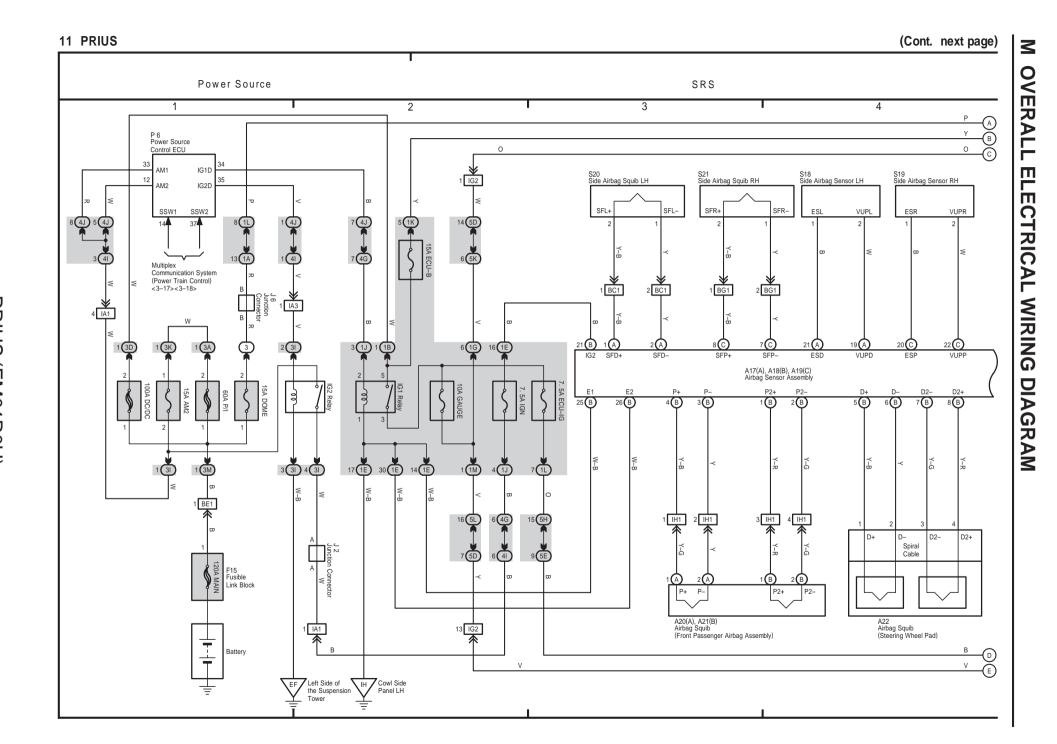


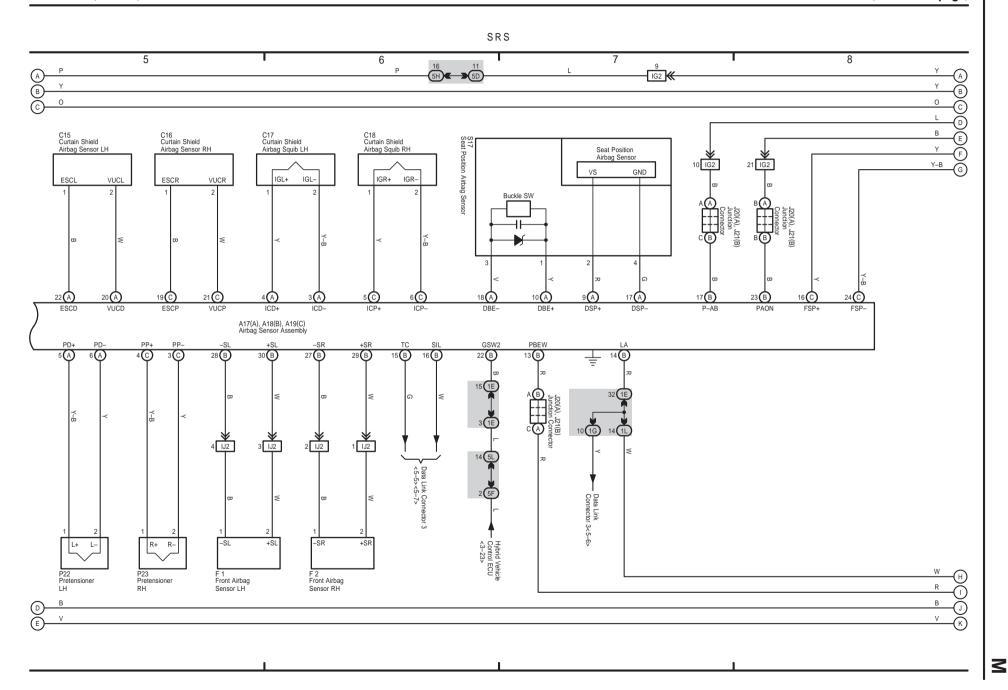
10 PRIUS (Cont' d) (Cont. next page)

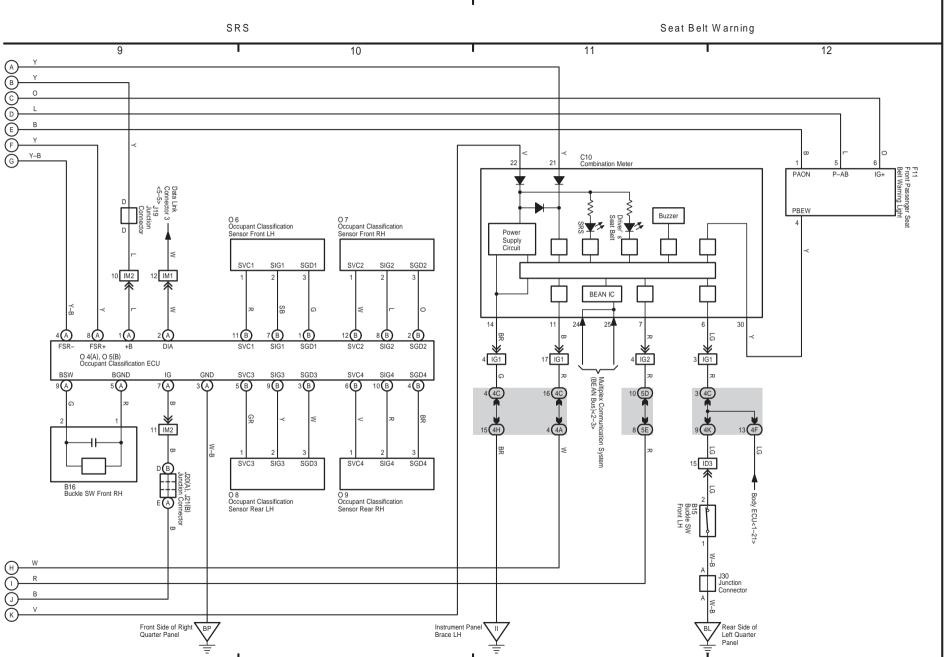






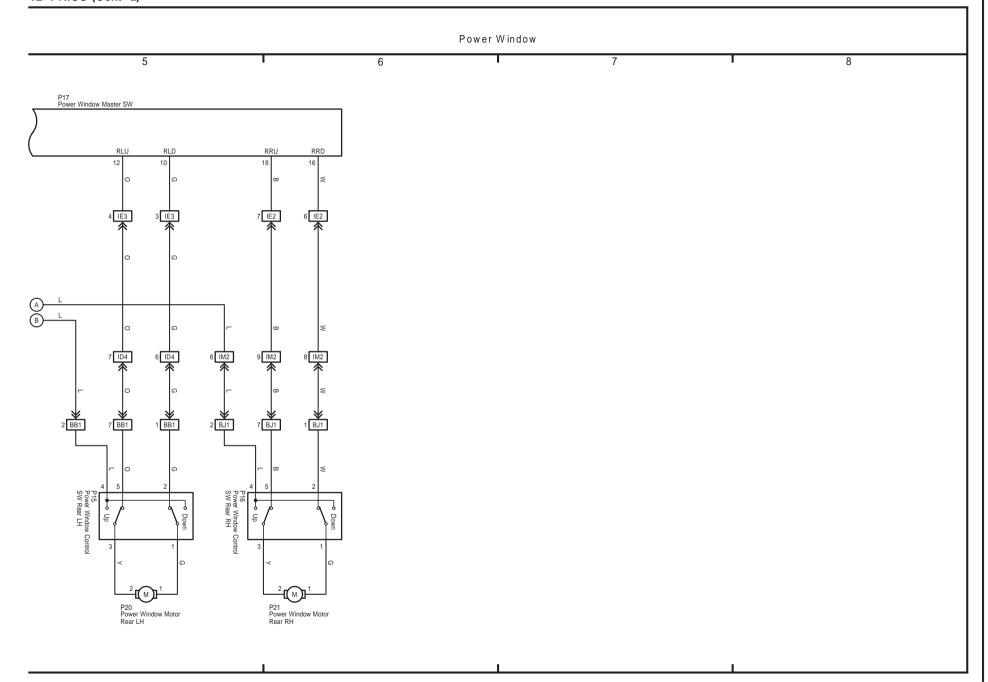


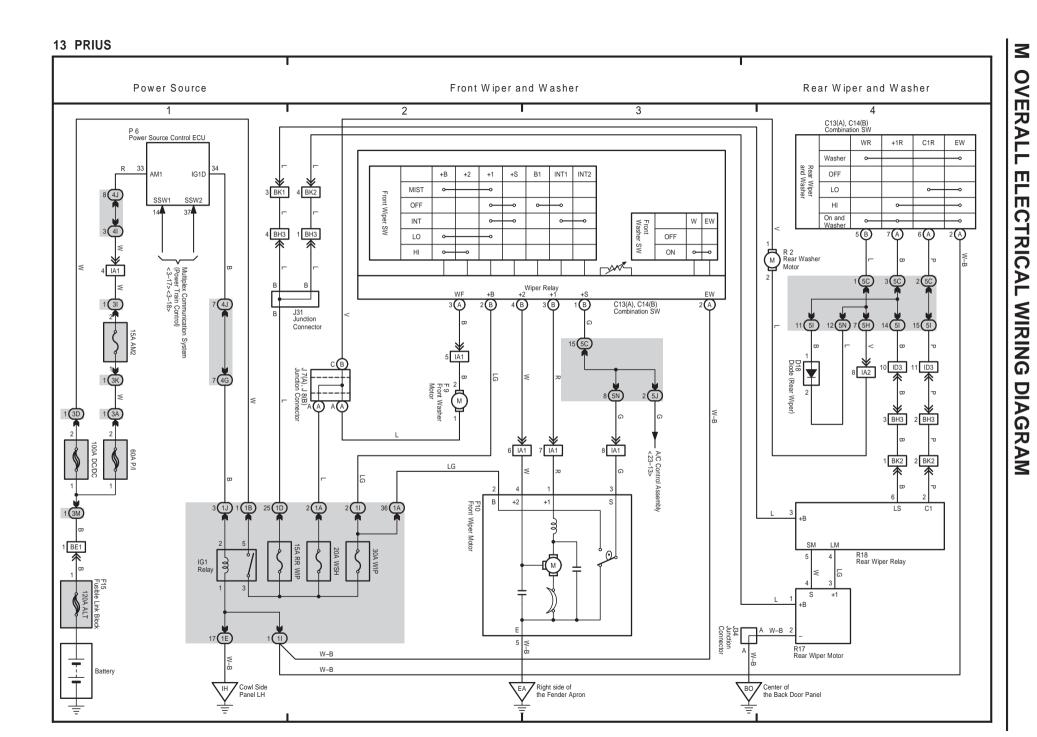




OVERALL

ELECTRICAL WIRING DIAGRAM

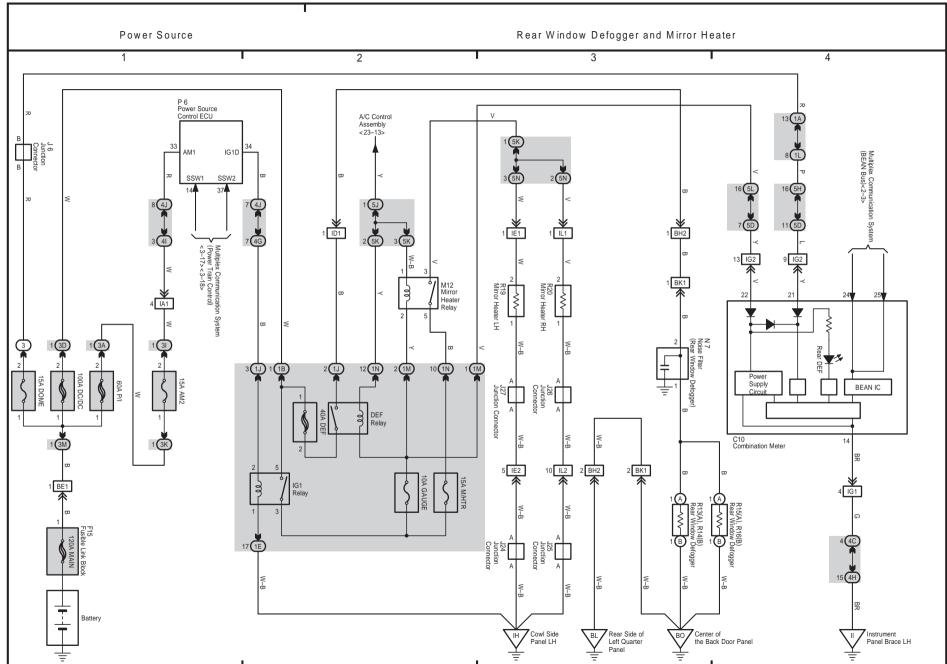




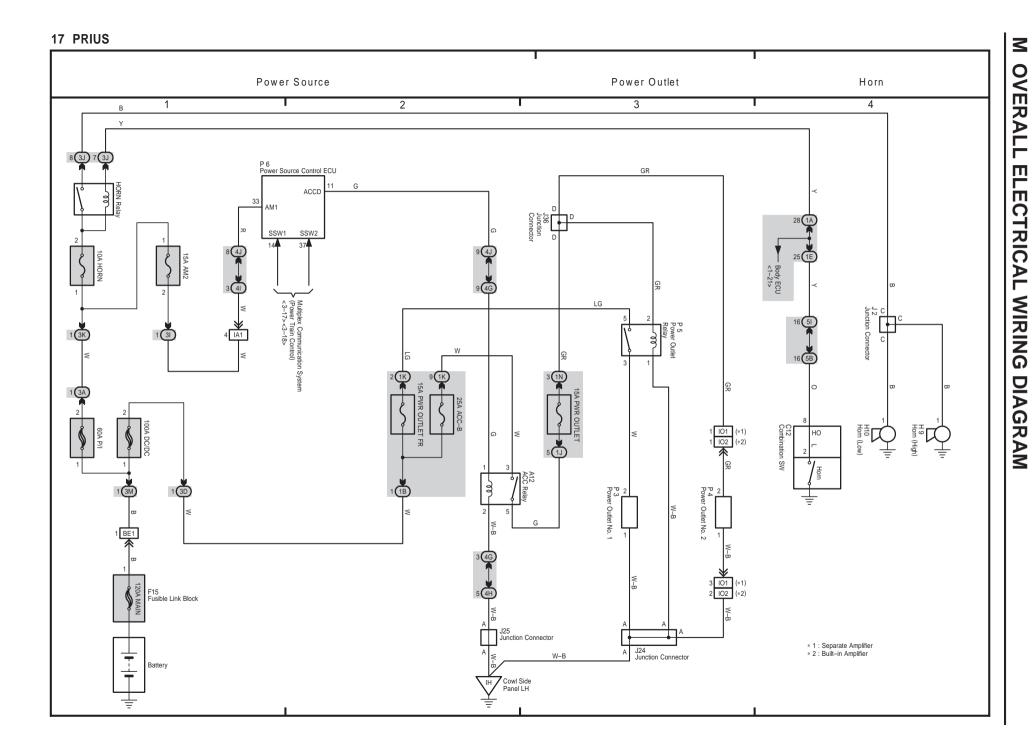
14 PRIUS

15 PRIUS Power Source Rear Window Defogger and Mirror Heater 2

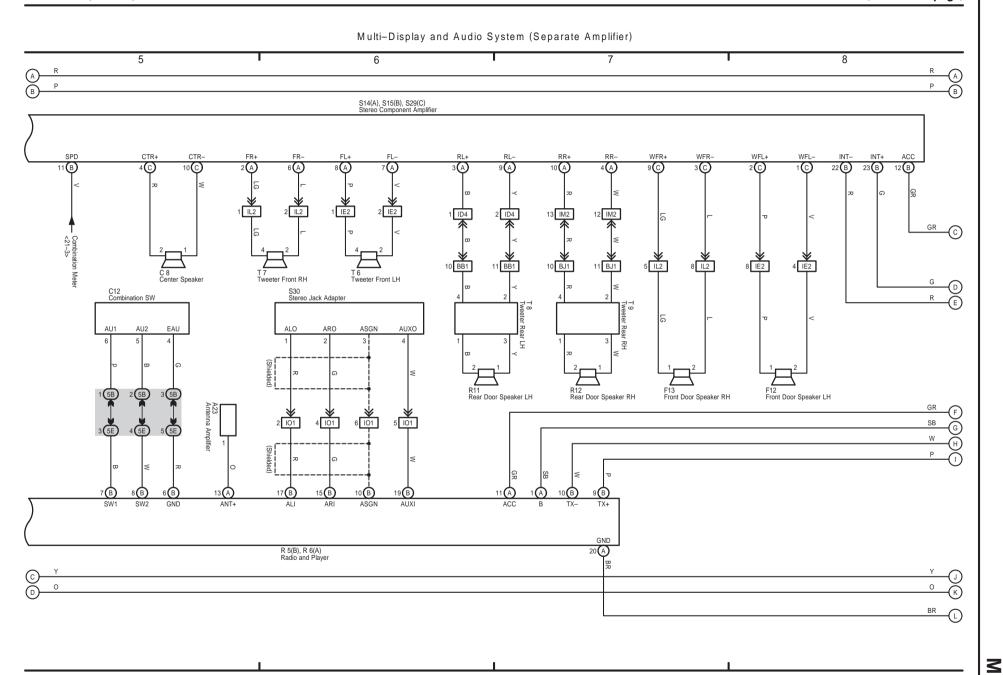
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16 PRIUS



18 PRIUS



PRIUS (EM01R0U)

