2006 xB
ELECTRICAL WIRING DIAGRAM

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A INTRODUCTION

This manual consists of the following 13 sections:

No.	Section	Description
A	INDEX	Index of the contents of this manual.
	INTRODUCTION	Brief explanation of each section.
B	HOW TO USE THIS MANUAL	Instructions on how to use this manual.
C	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.
H	INDEX	Index of the system circuits.
	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.
I	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.
M	OVERALL ELECTRICAL WIRING DIAGRAM	Provides circuit diagrams showing the circuit connections.

FOREWORD

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

This manual applies to the models listed below. It covers all information in the previously issued Pub. No. EM0090U, and includes all production changes effective Dec. 2005 or later.

Applicable models: NCP31 Series

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

Manual Name	Pub. No.
● 2006 SCION xB Repair Manual	RM0091U
● 2006 SCION New Car Features	NM0060U

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.

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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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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.)

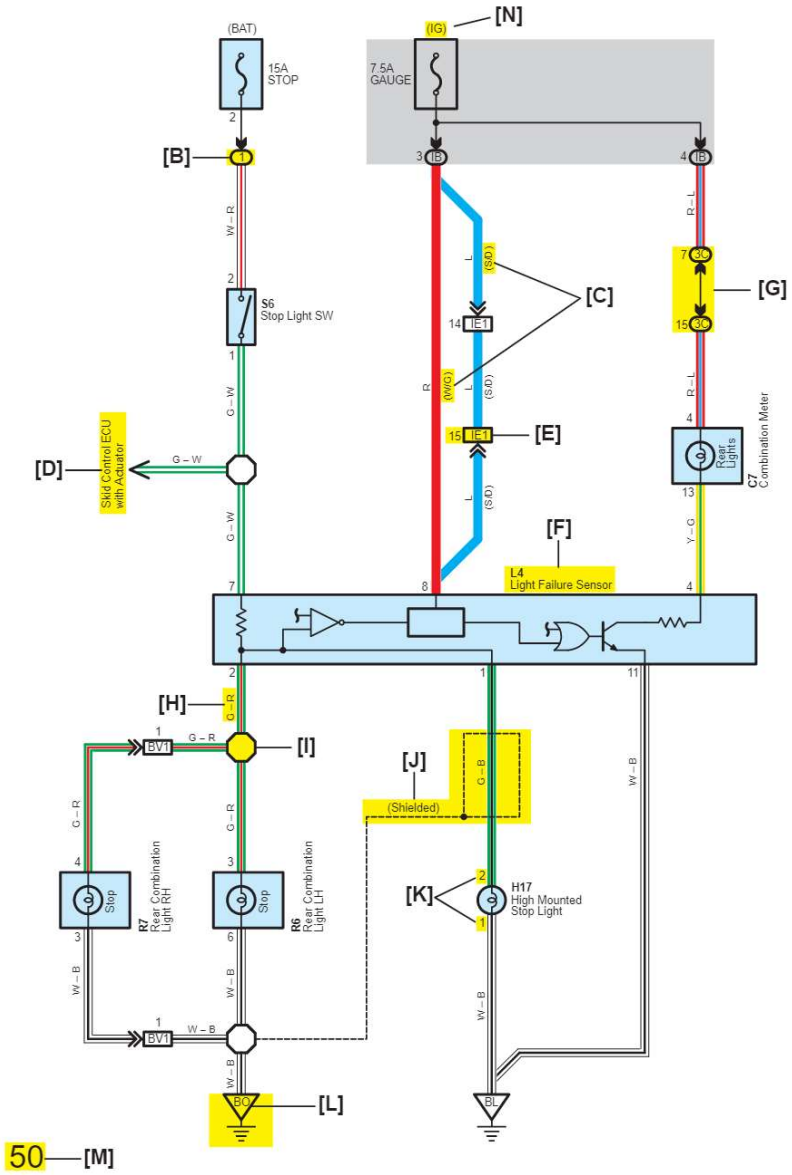
When troubleshooting any problem, first understand the operation of the circuit where the problem was detected (see System Circuit section), the power source supplying power to that circuit (see Power Source section), and the ground points (see Ground Point section). See the System Outline to understand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

Stop Light



[A] : System Title

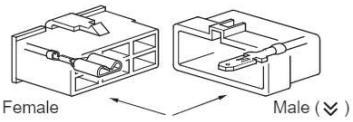
[B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

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.



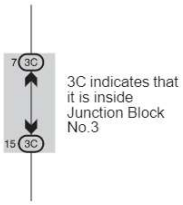
The first letter of the code for each wiring harness and wiring harness connector(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

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.

Example:



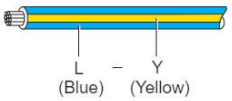
[H] : Indicates the wiring color.

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.

Example: L – Y



[I] : Indicates a wiring Splice Point

Example:

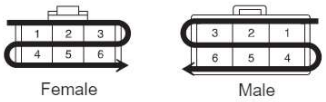


[J] : Indicates a shielded cable.



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

Example:



[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).

[O] **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)

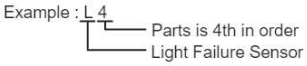
[T] ▽ : Ground Points

Code	See Page	Ground Points Location
BL	50	Under the Left Center Pillar
BO	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.



[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.

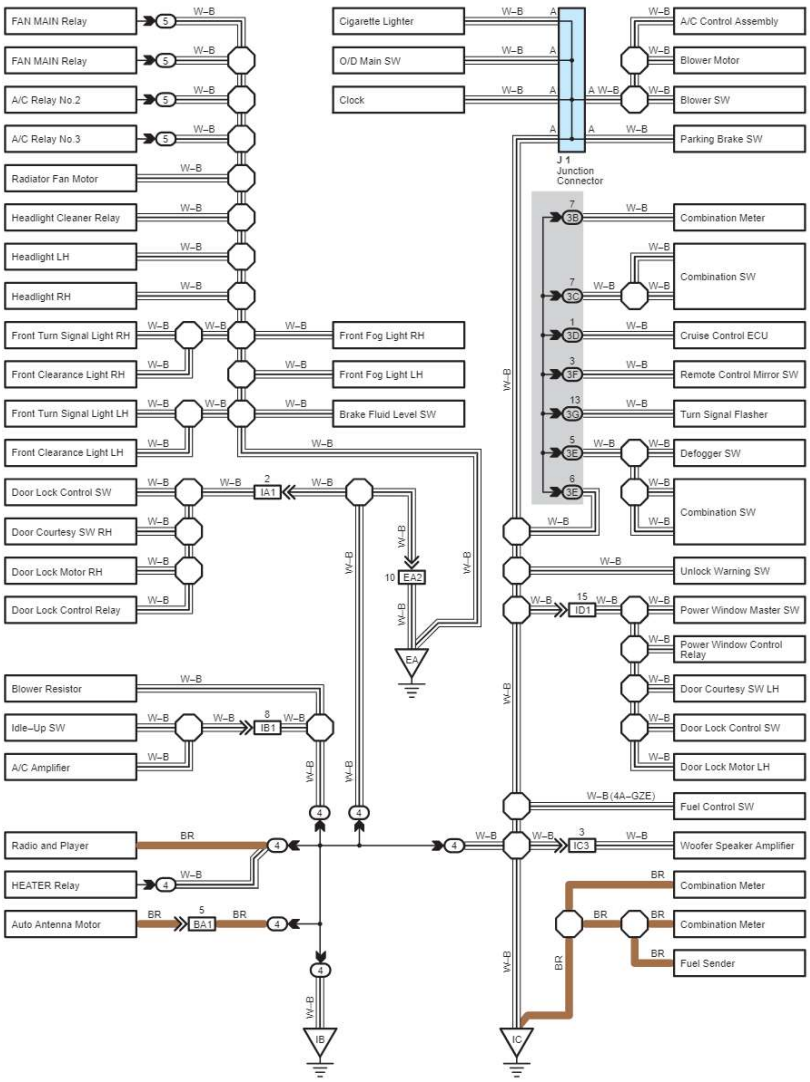
[T] : Indicates the reference page showing the position of the ground points on the vehicle.

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 (EA, IB and IC shown below) can also be checked this way.

I GROUND POINT

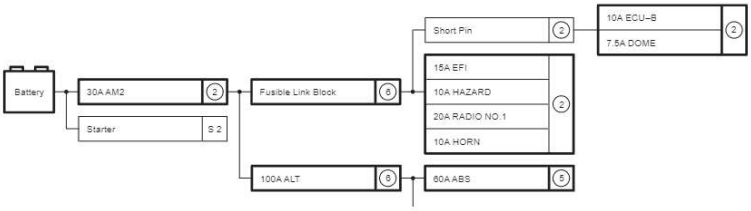


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

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)

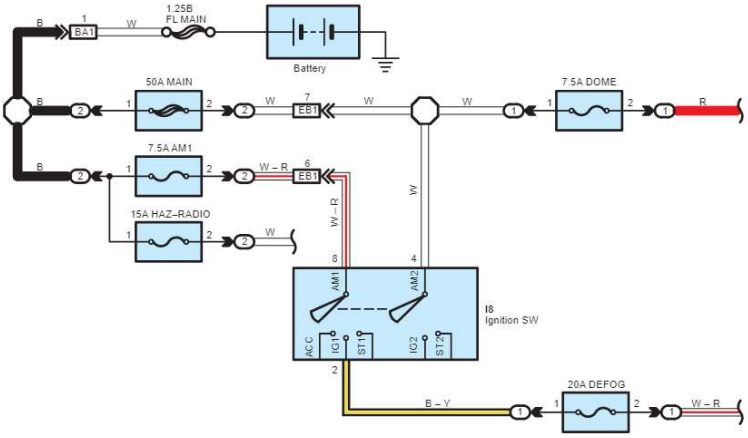
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fues, etc.) and other parts



Engine Room R/B (See Page 20)

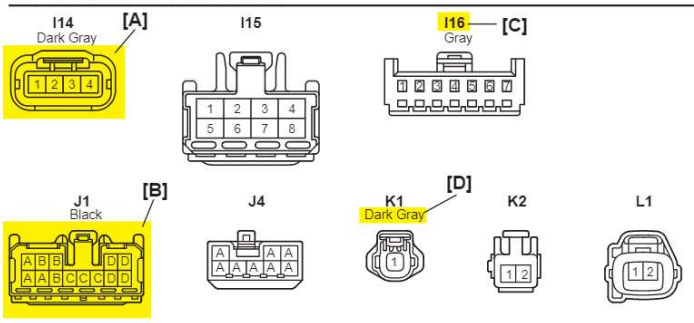
Fuse		System	Page
20A	STOP	ABS ABS and Traction Control Cruise Control Electronically Controlled Transmission Multiplex Communication System	194 187 180 166 210
10A	DOME	Cigarette Lighter Combination Meter Headlight Interior Light Key Reminder and Seat Belt Warning Light Auto Turn Off System	214 230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

Power Source

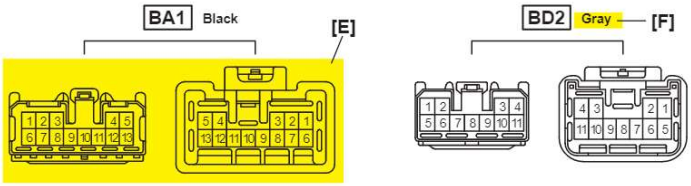


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

K CONNECTOR LIST

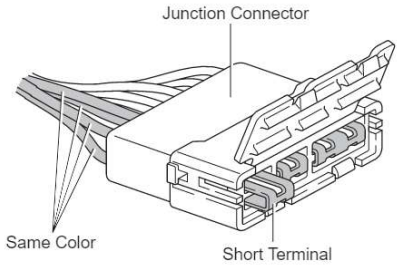


K CONNECTOR LIST



[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
A 1	A/C Ambient Temp. Sensor	90980–11070
A 2	A/C Condenser Fan Motor	90980–11237
A 3	A/C Condenser Fan Relay	90980–10940
A 4	A/C Condenser Fan Resistor	90980–10928
A 5	A/C Magnetic Clutch	90980–11271
A 6	A/T Oil Temp. Sensor	90980–11413
A 7	ABS Actuator	90980–11151
A 8	ABS Actuator	90980–11009
A 9	ABS Speed Sensor Front LH	90980–10941
A10	ABS Speed Sensor Front RH	90980–11002
A11	Airbag Sensor Front LH	90980–11856
A12	Airbag Sensor Front RH	
A13		90980–11194
		90980–11[illegible]

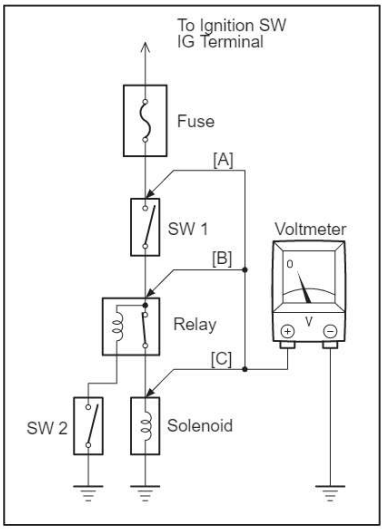
Code	Part Name	Part Number
D 4	Diode (Courtesy)	90980–11608
D 5	Diode (Interior Light)	90980–10962
D 6	Diode (Moon Roof)	90980–11608
D 7	Door Lock Control Relay	90980–10848
D 8	Door Lock Control SW LH	90980–11148
D 9	Door Lock Control SW RH	
D10	Door Courtesy SW LH	90980–11097
D11	Door Courtesy SW RH	
D12	Door Courtesy SW Front LH	90980–11156
D13	Door Courtesy SW Front RH	
D14	Door Courtesy SW Rear LH	
D15	Door Courtesy SW Rear RH	
D16	[illegible] and Unlock SW LH	90980–11170
	[illegible] RH	

[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.

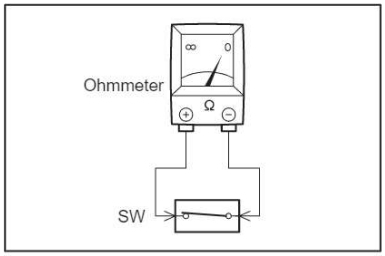


VOLTAGE CHECK

(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)

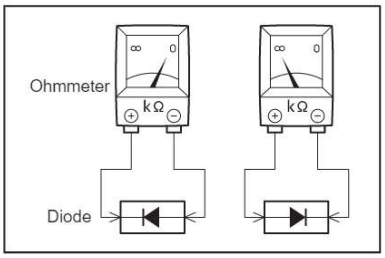
(b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal.
This check can be done with a test light instead of a voltmeter.



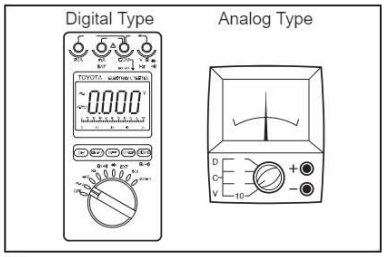
CONTINUITY AND RESISTANCE CHECK

(a) Disconnect the battery terminal or wire so there is no voltage between the check points.

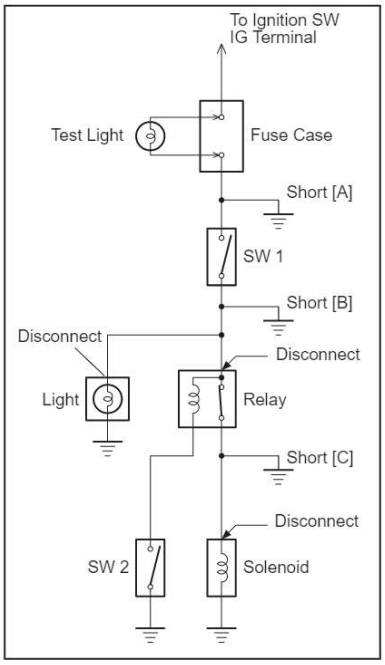
(b) Contact the two leads of an ohmmeter to each of the check points.



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 kΩ/V minimum) for troubleshooting of the electrical circuit.



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:

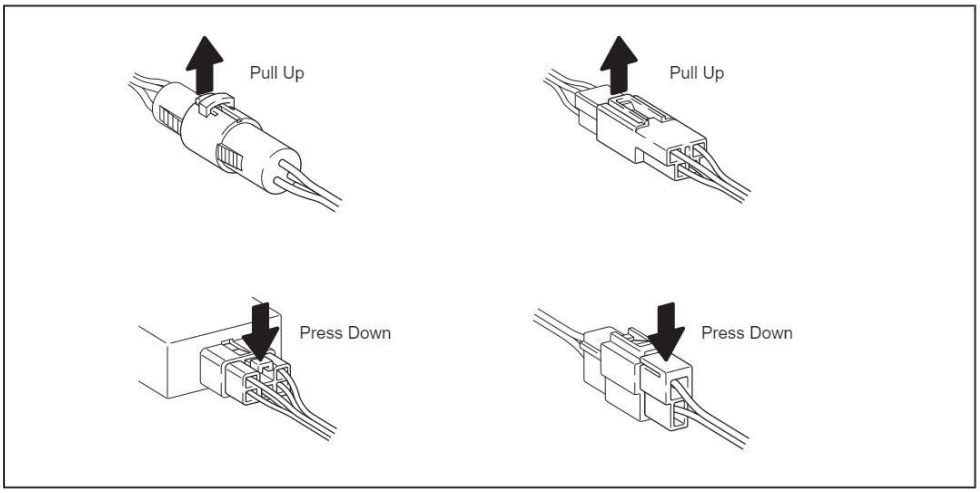
(a) Do not open the cover or the case of the ECU unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)

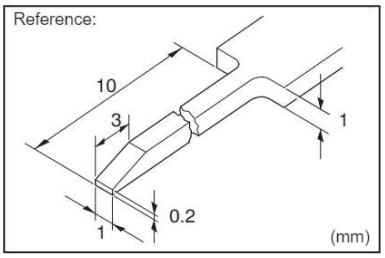
(b) When replacing the internal mechanism (ECU part) of the digital meter, be careful that no part of your body or clothing comes in contact with the terminals of leads from the IC, etc. of the replacement part (spare part).

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.



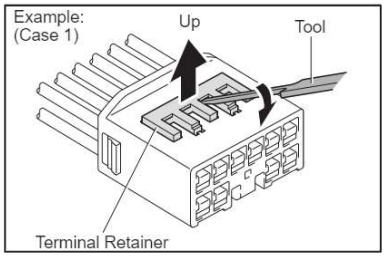


HOW TO REPLACE TERMINAL (with terminal retainer or secondary locking device)

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

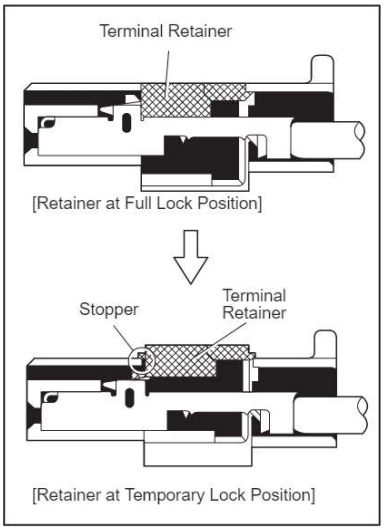


3. DISENGAGE THE SECONDARY LOCKING DEVICE OR TERMINAL RETAINER.

   (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.

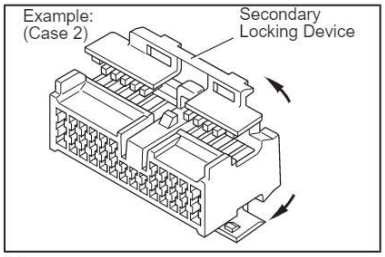


[A] For Non–Waterproof Type Connector

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

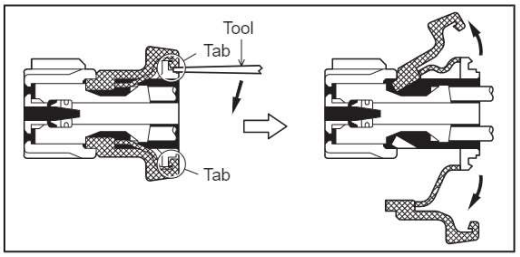
"Case 1"

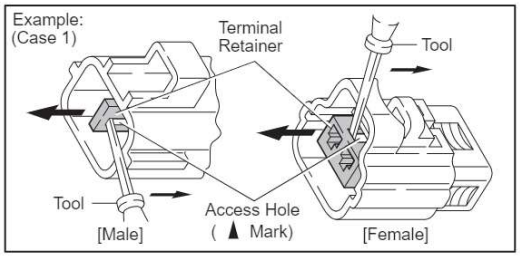
Raise the terminal retainer up to the temporary lock position.



"Case 2"

Open the secondary locking device.



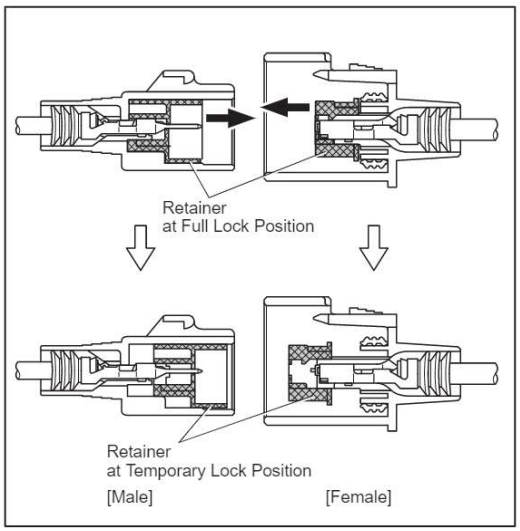


[B] For Waterproof Type Connector

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

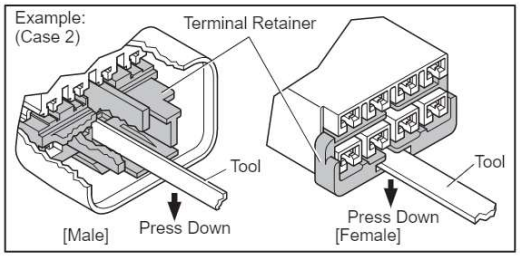


"Case 1"

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

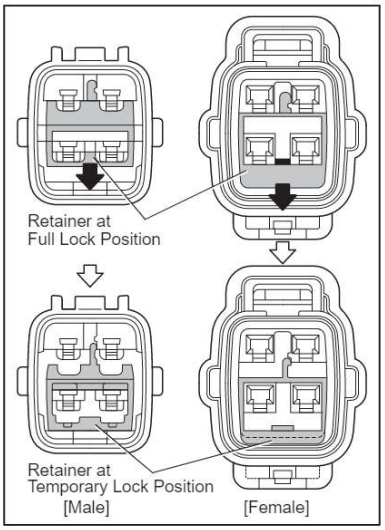
Insert the special tool into the terminal retainer access hole (▲Mark) and pull the terminal retainer up to the temporary lock position.

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

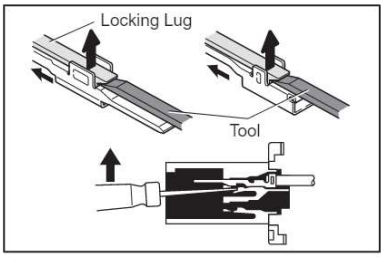


"Case 2"

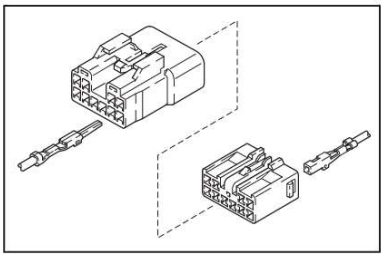
Type which cannot be pulled as far as Power Lock insert the tool straight into the access hole of terminal retainer as shown.



Push the terminal retainer down to the temporary lock position.



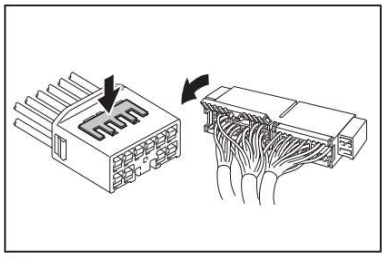
(c) Release the locking lug from terminal and pull the terminal out from rear.



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

ABBREVIATIONS

The following abbreviations are used in this manual.

A/C	=	Air Conditioning
A/T	=	Automatic Transaxle
ABS	=	Anti–Lock Brake System
CAN	=	Controller Area Network
CPU	=	Central Processing Unit
ECU	=	Electronic Control Unit
ESA	=	Electronic Spark Advance
IAC	=	Idle Air Control
IC	=	Integrated Circuit
INT	=	Intermittent
J/B	=	Junction Block
LCD	=	Liquid Crystal Display
LH	=	Left–Hand
O/D	=	Overdrive
PTC	=	Positive Temperature Coefficient
R/B	=	Relay Block
RH	=	Right–Hand
SFI	=	Sequential Multiport Fuel Injection
SRS	=	Supplemental Restraint System
SW	=	Switch
TEMP.	=	Temperature
TRAC	=	Traction Control
TVIP	=	TOYOTA Vehicle Intrusion Protection
VSC	=	Vehicle Stability Control
VSV	=	Vacuum Switching Valve

* 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

BATTERY
Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.

CAPACITOR (Condenser)
A small holding unit for temporary storage of electrical voltage.

CIGARETTE LIGHTER
An electric resistance heating element.

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.

DIODE
A semiconductor which allows current flow in only one direction.

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.

PHOTODIODE
The photodiode is a semiconductor which controls the current flow according to the amount of light.

DISTRIBUTOR, IIA
Channels high–voltage current from the ignition coil to the individual spark plugs.

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.

(for Medium Current Fuse)

FUSIBLE LINK
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.

(for High Current Fuse or Fusible Link)

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.

HEADLIGHTS
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

1. SINGLE FILAMENT
2. DOUBLE FILAMENT

HORN
An electric device which sounds a loud audible signal.

IGNITION COIL
Converts low–voltage DC current into high–voltage ignition current for firing the spark plugs.

LIGHT
Current flow through a filament causes the filament to heat up and emit light.

LED (LIGHT EMITTING DIODE)
Upon current flow, these diodes emit light without producing the heat of a comparable light.

METER, ANALOG
Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.

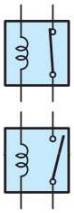
METER, DIGITAL
Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.

FUEL

MOTOR
A power unit which converts electrical energy into mechanical energy, especially rotary motion.

M

RELAY

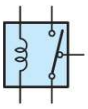


1. NORMALLY CLOSED

2. NORMALLY OPEN

Basically, an electrically operated switch which may be normally closed (1) or open (2).
Current flow through a small coil creates a magnetic field which either opens or closes an attached switch.

RELAY, DOUBLE THROW



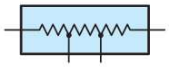
A relay which passes current through one set of contacts or the other.

RESISTOR



An electrical component with a fixed resistance, placed in a circuit to reduce voltage to a specific value.

RESISTOR, TAPPED



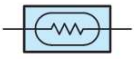
A resistor which supplies two or more different non adjustable resistance values.

RESISTOR, VARIABLE or RHEOSTAT



A controllable resistor with a variable rate of resistance.
Also called a potentiometer or rheostat.

SENSOR (Thermistor)



A resistor which varies its resistance with temperature.

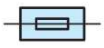
SENSOR, SPEED



(Reed Switch Type)

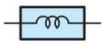
Uses magnetic impulses to open and close a switch to create a signal for activation of other components.

SHORT PIN



Used to provide an unbroken connection within a junction block.

SOLENOID



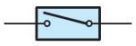
An electromagnetic coil which forms a magnetic field when current flows, to move a plunger, etc.

SPEAKER

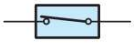


An electromechanical device which creates sound waves from current flow.

SWITCH, MANUAL



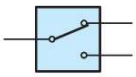
1. NORMALLY OPEN



2. NORMALLY CLOSED

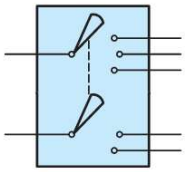
Opens and closes circuits, thereby stopping (1) or allowing (2) current flow.

SWITCH, DOUBLE THROW



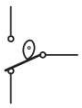
A switch which continuously passes current through one set of contacts or the other.

SWITCH, IGNITION



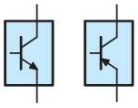
A key operated switch with several positions which allows various circuits, particularly the primary ignition circuit, to become operational.

SWITCH, WIPER PARK



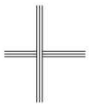
Automatically returns wipers to the stop position when the wiper switch is turned off.

TRANSISTOR

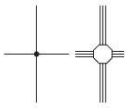


A solidstate device typically used as an electronic relay; stops or passes current depending on the voltage applied at "base".

WIRES



(1) NOT CONNECTED

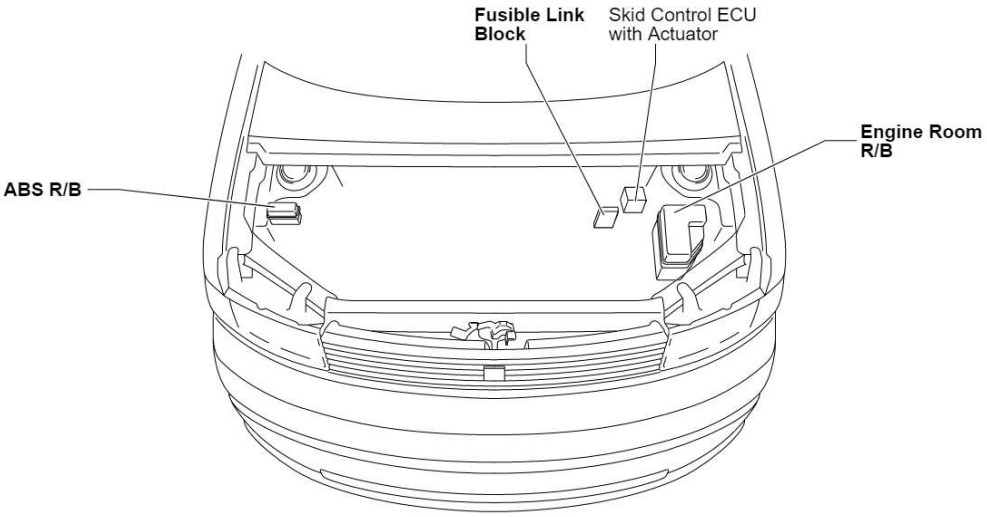


(2) SPLICED

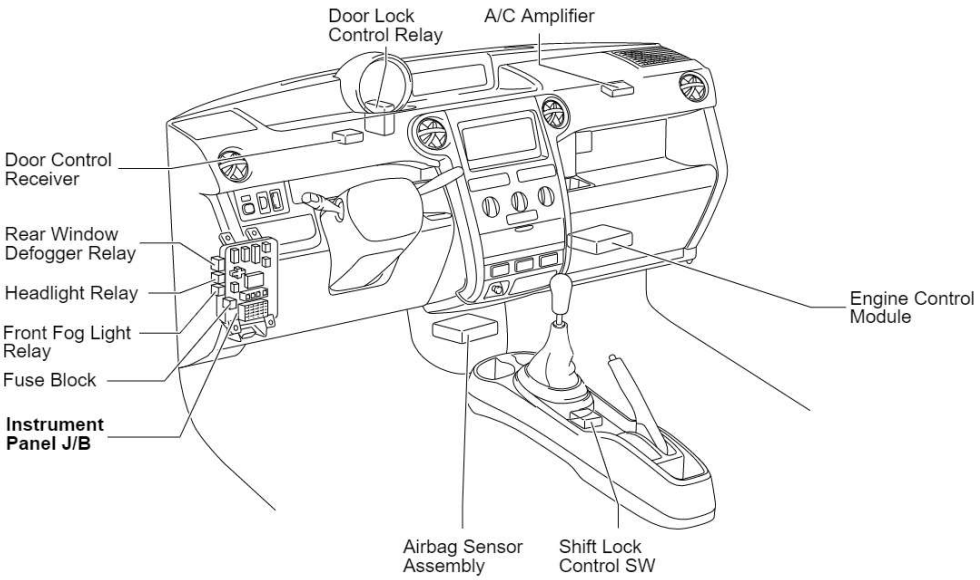
Wires are always drawn as straight lines on wiring diagrams.
Crossed wires (1) without a black dot at the junction are not joined;
crossed wires (2) with a black dot or octagonal (◯) mark at the junction are spliced (joined) connections.

F RELAY LOCATIONS

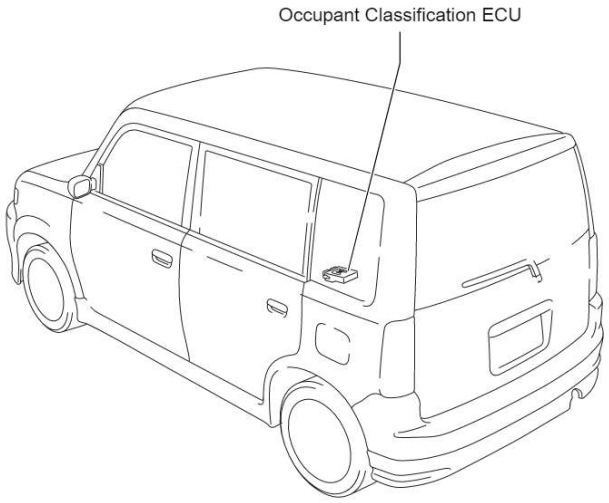
[Engine Compartment]



[Instrument Panel]

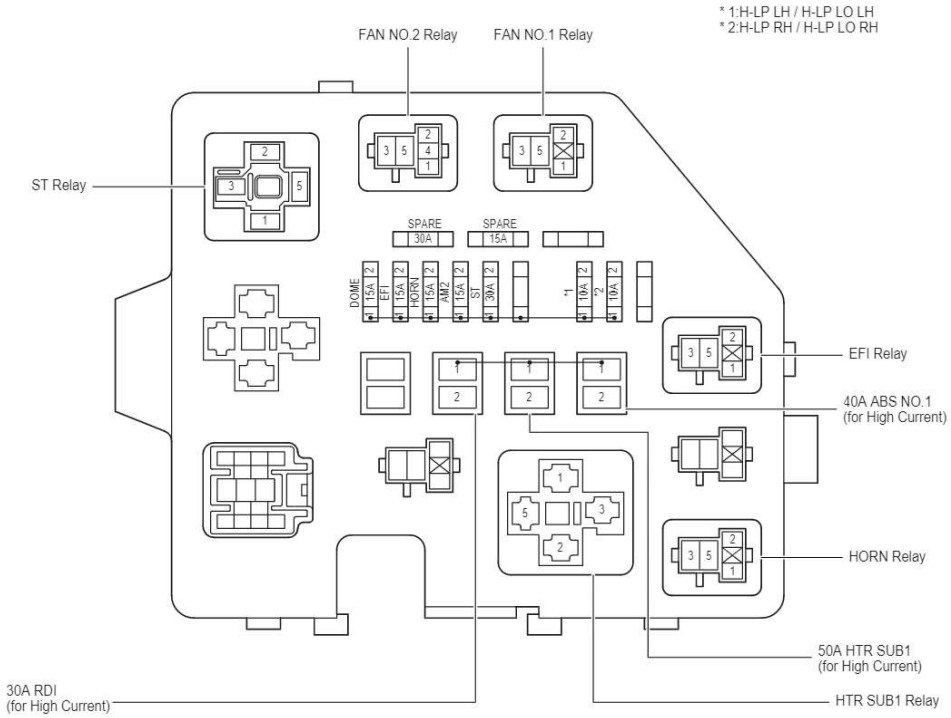


[Body]

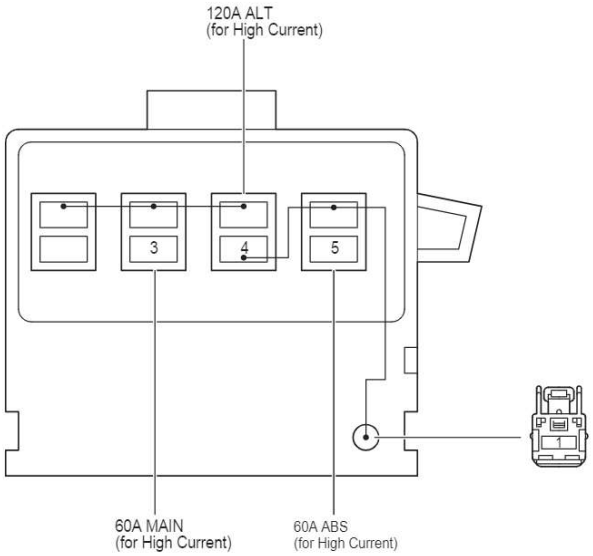


F RELAY LOCATIONS

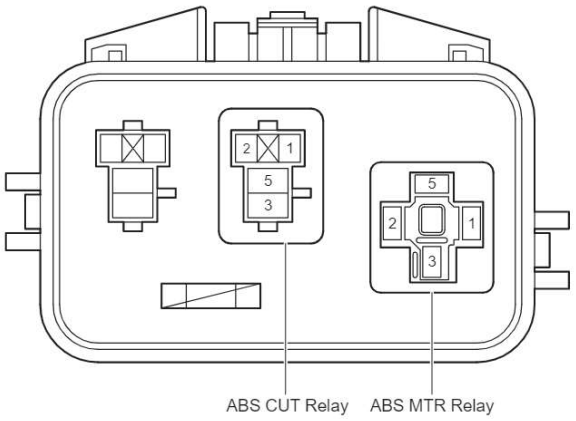
① : Engine Room R/B	Engine Compartment Left (See Page 20)



Fusible Link Block	Engine Compartment Left (See Page 20)

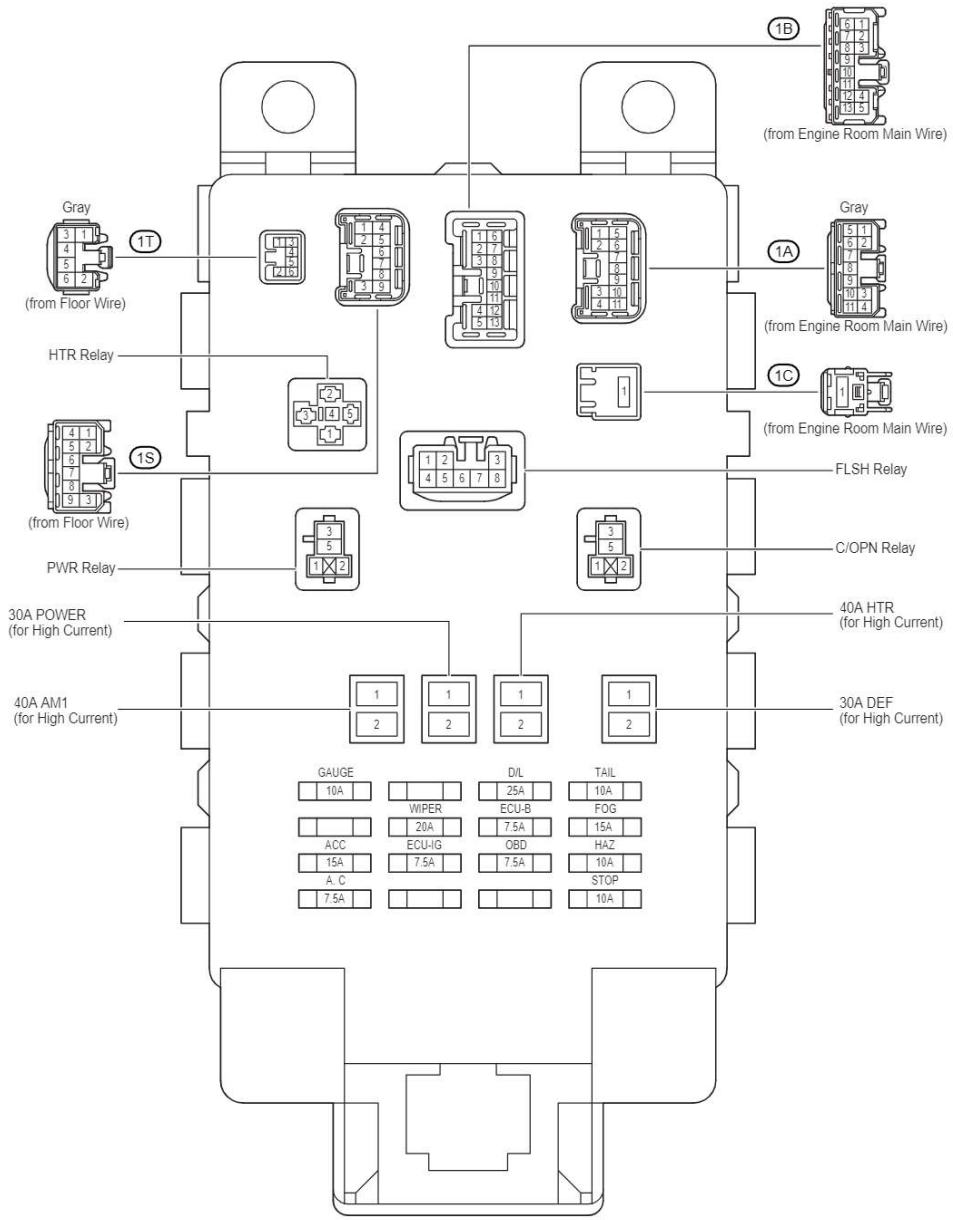


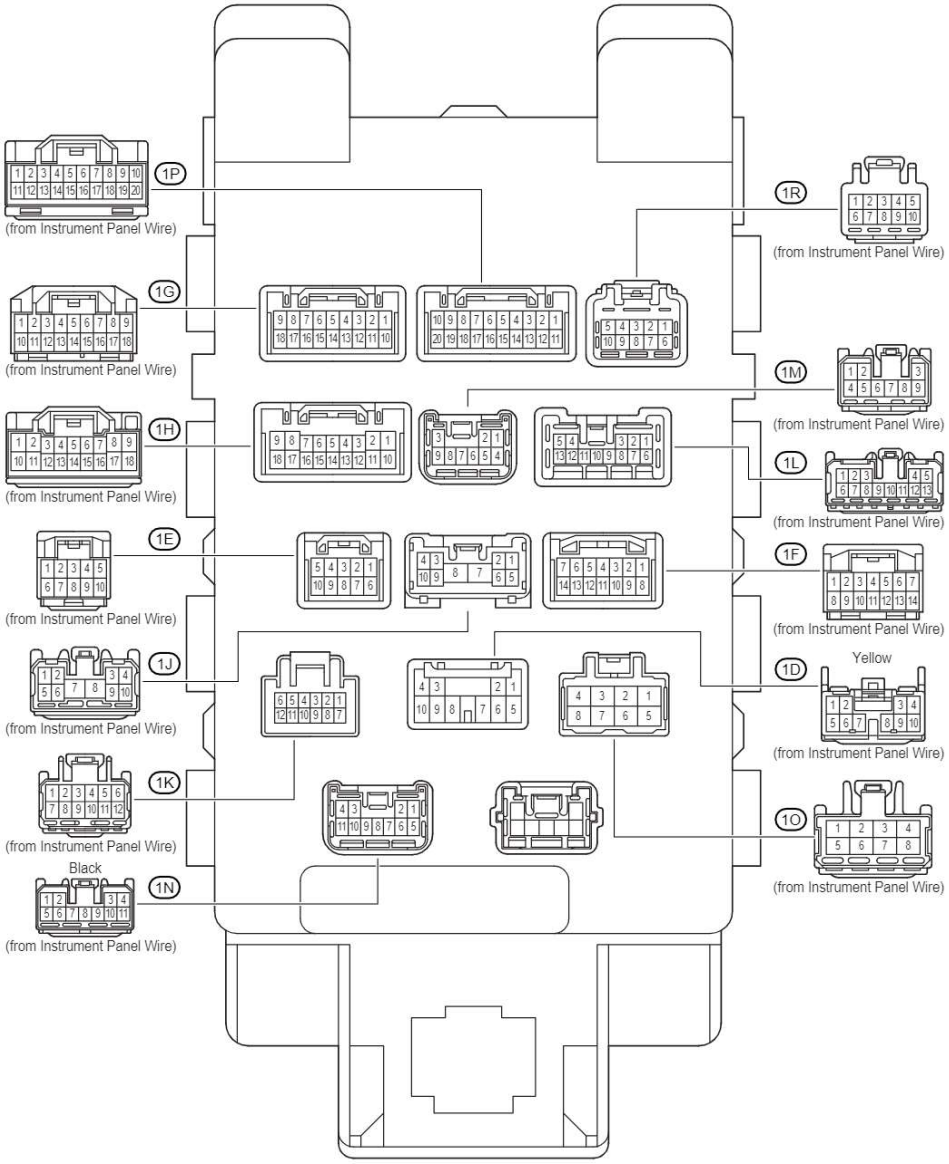
② : ABS R/B	Engine Compartment Right (See Page 20)



F RELAY LOCATIONS

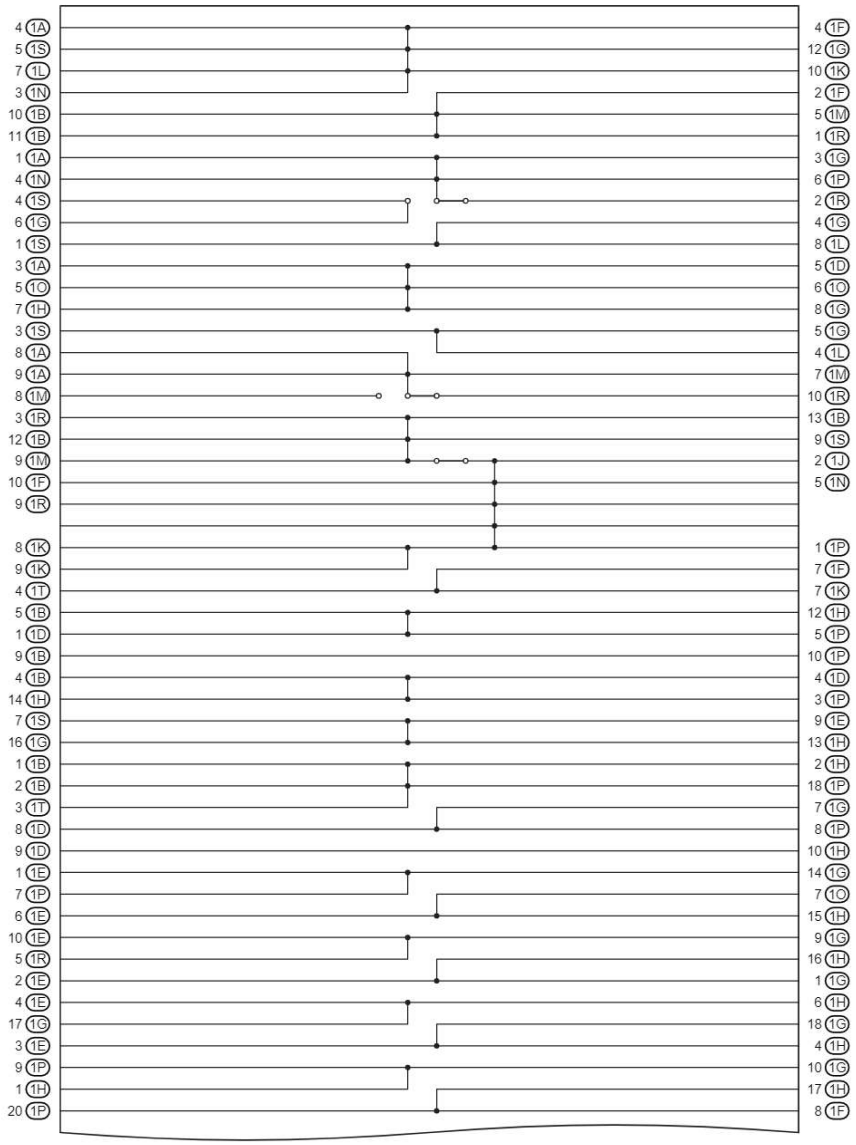
: Instrument Panel J/B	Lower Finish Panel (See Page 21)



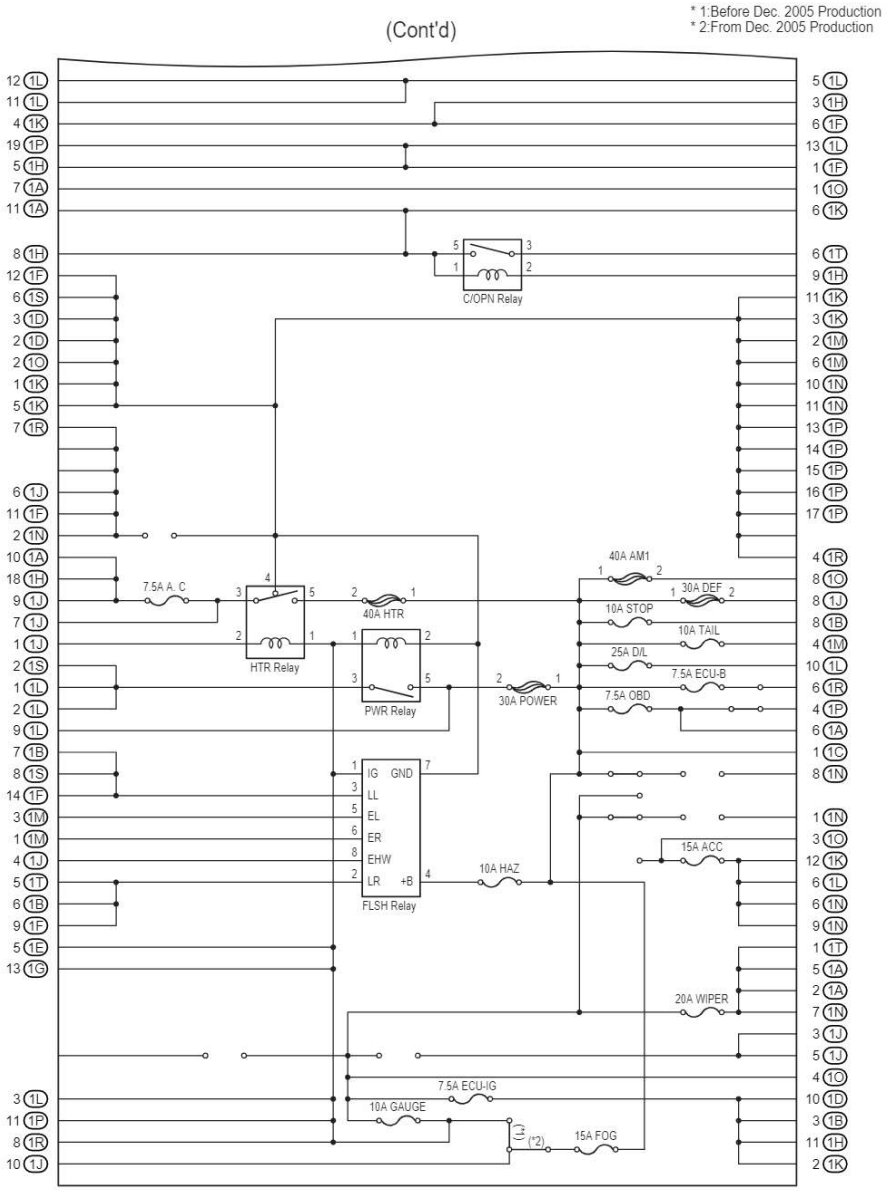

1P
(from Instrument Panel Wire)
1G
(from Instrument Panel Wire)
1H
(from Instrument Panel Wire)
1E
(from Instrument Panel Wire)
1J
(from Instrument Panel Wire)
1K
(from Instrument Panel Wire)
Black
1N
(from Instrument Panel Wire)
1R
(from Instrument Panel Wire)
1M
(from Instrument Panel Wire)
1L
(from Instrument Panel Wire)
1F
(from Instrument Panel Wire)
Yellow
1D
(from Instrument Panel Wire)
1O
(from Instrument Panel Wire)

F RELAY LOCATIONS

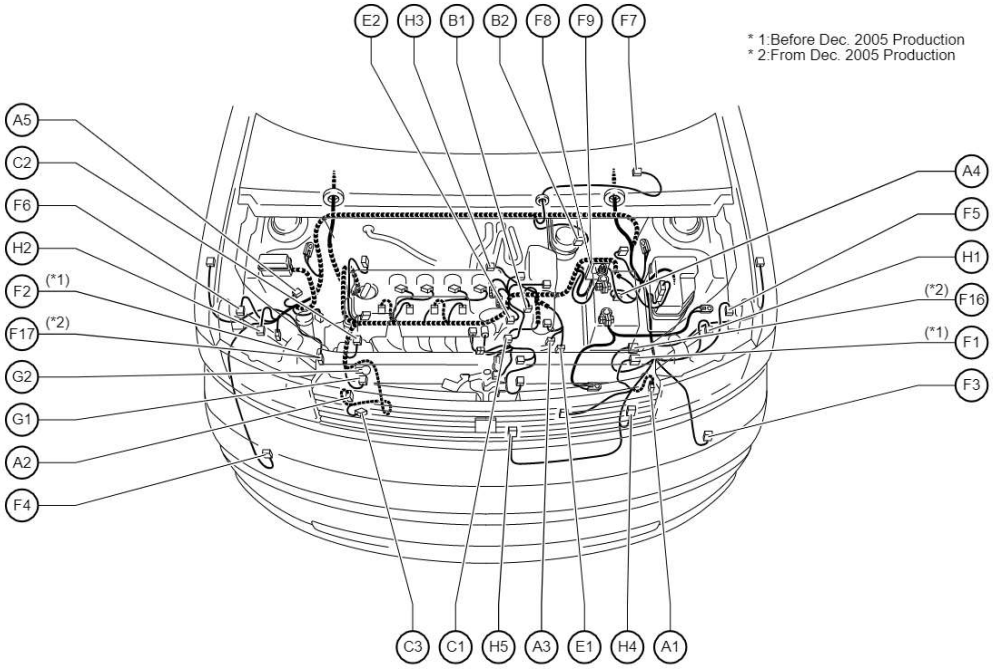
[Instrument Panel J/B Inner Circuit]



(Cont. next page)


* 1:Before Dec. 2005 Production
* 2:From Dec. 2005 Production
(Cont'd)
C/OPN Relay
HTR Relay
PWR Relay
FLSH Relay
7.5A A. C
40A HTR
30A POWER
40A AM1
30A DEF
10A STOP
10A TAIL
25A D/L
7.5A ECU-B
7.5A OBD
IG
GND
LL
EL
ER
EHW
LR
+B
10A HAZ
15A ACC
20A WIPER
7.5A ECU-IG
10A GAUGE
(*2)
15A FOG

Position of Parts in Engine Compartment



A 1 A/C Condenser Fan Resistor
A 2 A/C Magnetic Valve
A 3 A/T Indicator Light SW
Back–Up Light SW
Park/Neutral Position SW
A 4 ABS Speed Sensor Front LH
A 5 ABS Speed Sensor Front RH

B 1 Back–Up Light SW
B 2 Brake Fluid Level Warning SW

C 1 Camshaft Position Sensor
C 2 Camshaft Timing Oil Control Valve
C 3 Crankshaft Position Sensor

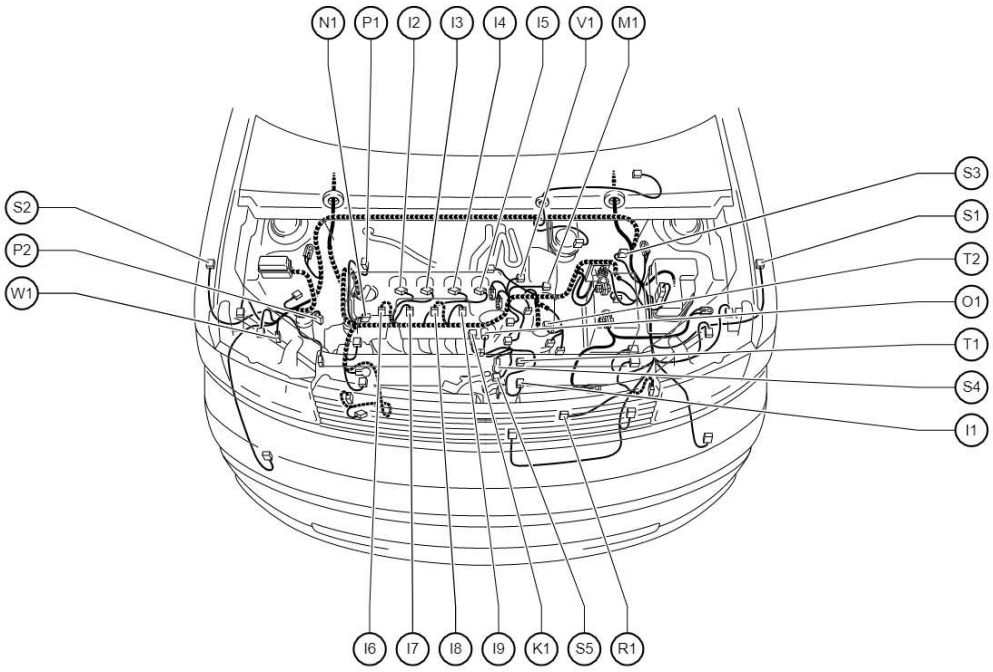
E 1 Electronically Controlled Transmission Solenoid
E 2 Engine Coolant Temp. Sensor

F 1 Front Airbag Sensor LH
F 2 Front Airbag Sensor RH
F 3 Front Fog Light LH
F 4 Front Fog Light RH
F 5 Front Parking Light LH
Front Turn Signal Light LH
F 6 Front Parking Light RH
Front Turn Signal Light RH
F 7 Front Wiper Motor
F 8 Fusible Link Block
F 9 Fusible Link Block
F 16 Front Airbag Sensor LH
F 17 Front Airbag Sensor RH

G 1 Generator
G 2 Generator

H 1 Headlight LH
H 2 Headlight RH
H 3 Heated Oxygen Sensor (Bank 1 Sensor 1)
H 4 Horn (High)
H 5 Horn (Low)

Position of Parts in Engine Compartment



I 1 Idle Air Control Valve
I 2 Ignition Coil and Igniter No.1
I 3 Ignition Coil and Igniter No.2
I 4 Ignition Coil and Igniter No.3
I 5 Ignition Coil and Igniter No.4
I 6 Injector No.1
I 7 Injector No.2
I 8 Injector No.3
I 9 Injector No.4

K 1 Knock Sensor (Bank 1)

M 1 Mass Air Flow Meter

N 1 Noise Filter (Ignition)

O 1 Oil Pressure SW

P 1 Power Steering Oil Pressure Sensor
P 2 Pressure Sensor

R 1 Radiator Fan Motor

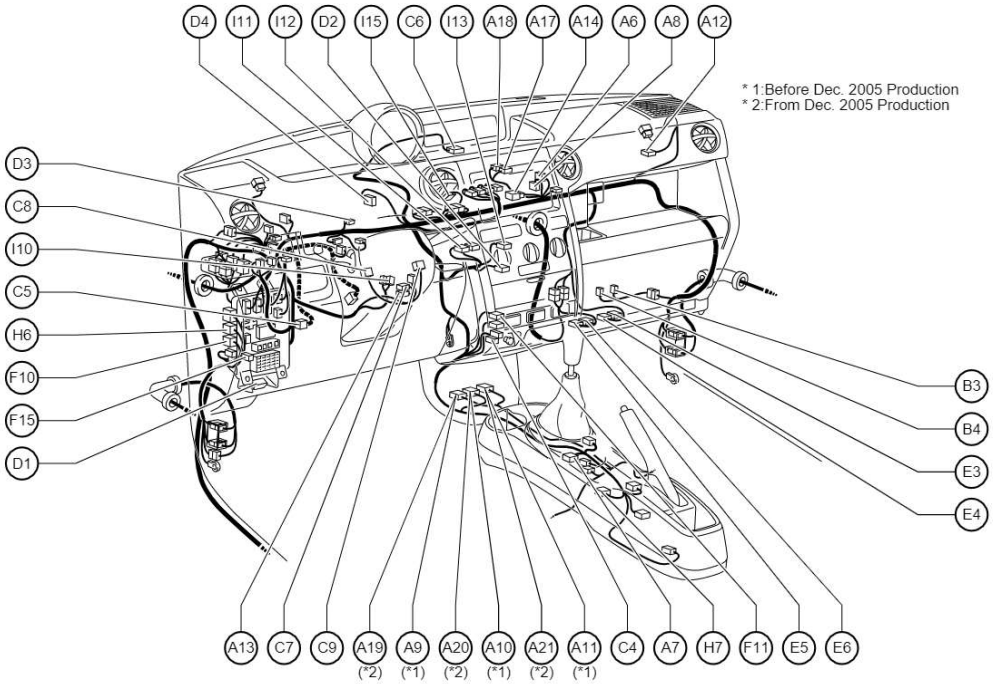
S 1 Side Turn Signal Light LH
S 2 Side Turn Signal Light RH
S 3 Skid Control ECU with Actuator
S 4 Starter
S 5 Starter

T 1 Throttle Position Sensor
T 2 Turbine Speed Sensor

V 1 VSV (Purge)

W 1 Washer Motor

Position of Parts in Instrument Panel



A 6 A/C Thermistor
A 7 A/T Shift Lever Illumination
O/D Main SW
A 8 Air Inlet Servo Motor
A 9 Airbag Sensor Assembly
A 10 Airbag Sensor Assembly
A 11 Airbag Sensor Assembly
A 12 Airbag Squib (Front Passenger's Airbag Assembly)
A 13 Airbag Squib (Steering Wheel Pad)
A 14 Antenna Amplifier
A 17 A/C Amplifier
A 18 A/C Amplifier
A 19 Airbag Sensor Assembly
A 20 Airbag Sensor Assembly
A 21 Airbag Sensor Assembly

B 3 Blower Motor
B 4 Blower Resistor

C 4 Cigarette Lighter
C 5 Clutch Start SW
C 6 Combination Meter
C 7 Combination SW
C 8 Combination SW
C 9 Combination SW

D 1 Data Link Connector 3
D 2 Defroster Mode Detection SW
Inlet Air Position Detection SW
D 3 Door Control Receiver
D 4 Door Lock Control Relay

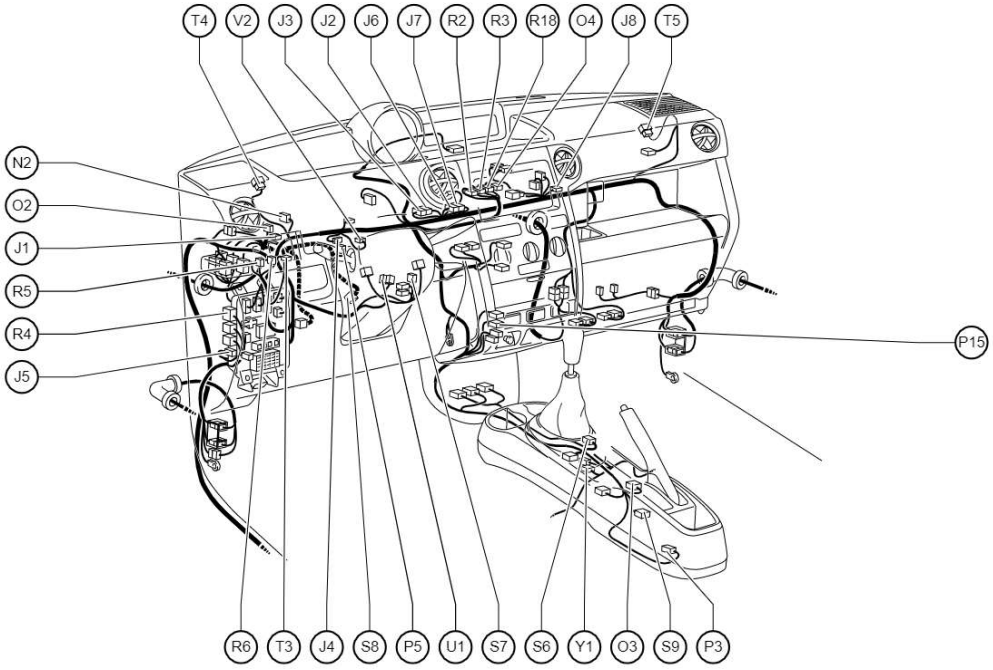
E 3 Engine Control Module
E 4 Engine Control Module
E 5 Engine Control Module
E 6 Engine Control Module

F 10 Front Fog Light Relay
F 11 Front Fog Light SW
F 15 Fuse Block

H 6 Headlight Relay
H 7 Heated Oxygen Sensor (Bank 1 Sensor 2)

I 10 Ignition SW
I 11 Integration Control and Panel
I 12 Integration Control and Panel
I 13 Integration Control and Panel
I 15 Integration Control and Panel

Position of Parts in Instrument Panel



J 1 Junction Connector
J 2 Junction Connector
J 3 Junction Connector
J 4 Junction Connector
J 5 Junction Connector
J 6 Junction Connector
J 7 Junction Connector
J 8 Junction Connector

N 2 Noise Filter (Rear Window Defogger No.1)

O 2 Option Connector (TVIP)
O 3 Option Connector (IPOD Unit)
O 4 Option Connector (Radio and Player)

P 3 Parking Brake SW
P 5 PTC Heater
P15 Passenger Seat Belt Warning Lamp

R 2 Radio and Player
R 3 Radio and Player
R 4 Rear Window Defogger Relay
R 5 Remote Control Mirror SW
R 6 Rheostat
R18 Radio and Player

S 6 Shift Lock Control SW
S 7 Steering Sensor
S 8 Stop Light SW
S 9 Stereo Jack Adapter

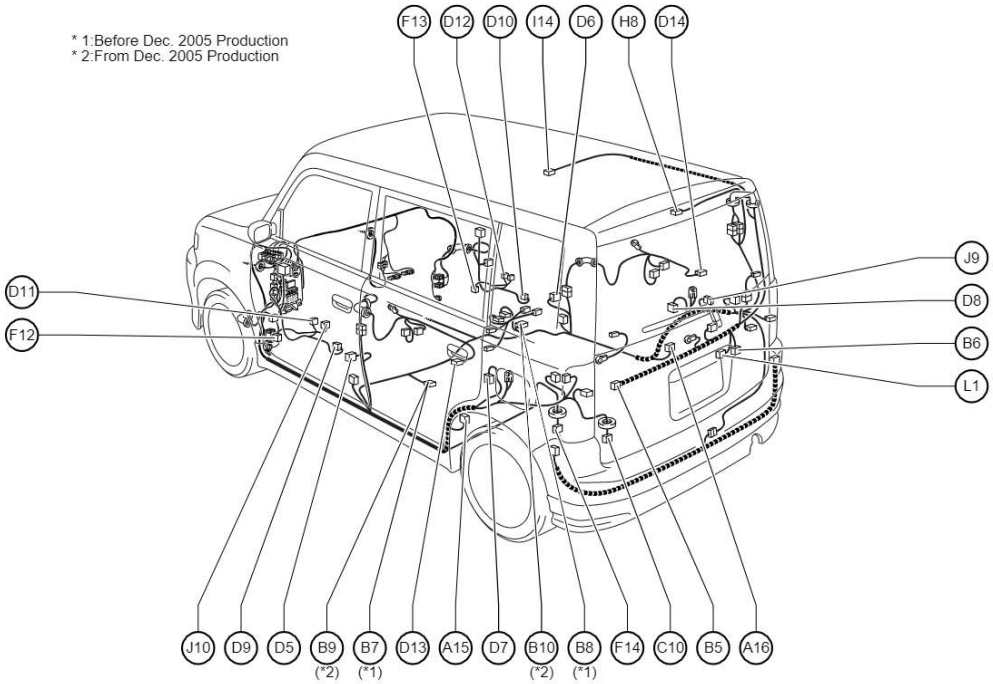
T 3 TRAC OFF SW
T 4 Tweeter LH
T 5 Tweeter RH

U 1 Unlock Warning SW

V 2 VSC Buzzer

Y 1 Yaw Rate Sensor

Position of Parts in Body



A15 ABS Speed Sensor Rear LH
A16 ABS Speed Sensor Rear RH

B 5 Back Door Courtesy SW
Back Door Lock Motor
B 6 Back Door Opener SW
B 7 Buckle SW LH
Seat Position Sensor
B 8 Buckle SW RH
Occupant Detection Sensor
B 9 Buckle SW LH
Seat Position Sensor
B10 Buckle SW RH

C10 Canister Pump Module

D 5 Door Courtesy SW Front LH
D 6 Door Courtesy SW Front RH
D 7 Door Courtesy SW Rear LH
D 8 Door Courtesy SW Rear RH
D 9 Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D10 Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
D11 Door Lock Control SW Front LH
Power Window Master SW
D12 Door Lock Control SW Front RH
D13 Door Lock Motor Rear LH
D14 Door Lock Motor Rear RH

F 12 Front Door Speaker LH
F 13 Front Door Speaker RH
F 14 Fuel Pump
Fuel Sender

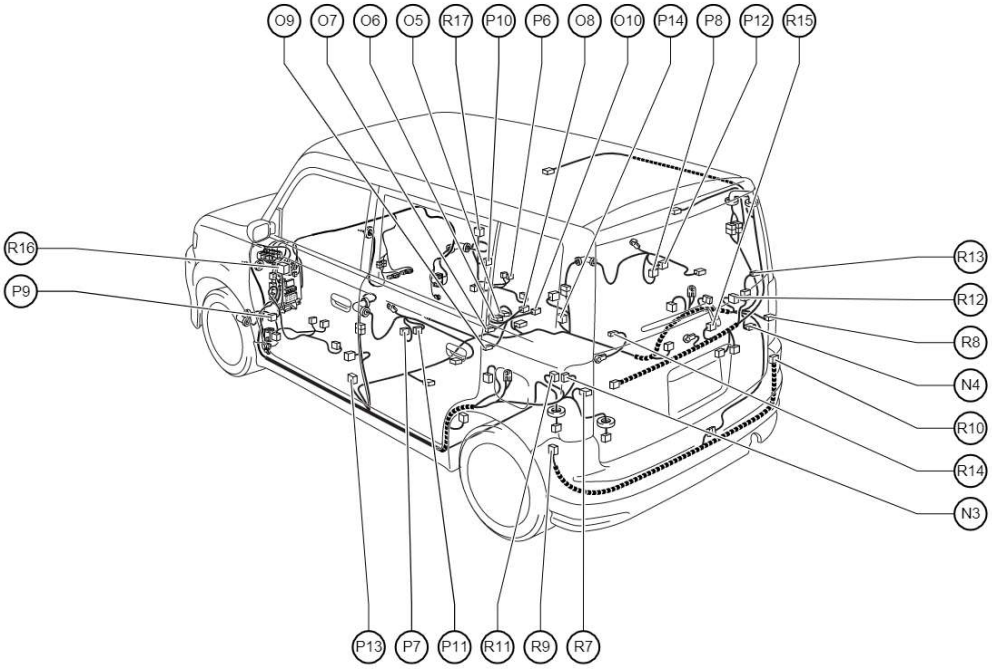
H 8 High Mounted Stop Light

I 14 Interior Light

J 9 Junction Connector
J 10 Junction Connector

L 1 License Plate Light

Position of Parts in Body



N 3 Noise Filter (Fuel Pump)
N 4 Noise Filter
(Stop Light and Rear Window Defogger No.2)

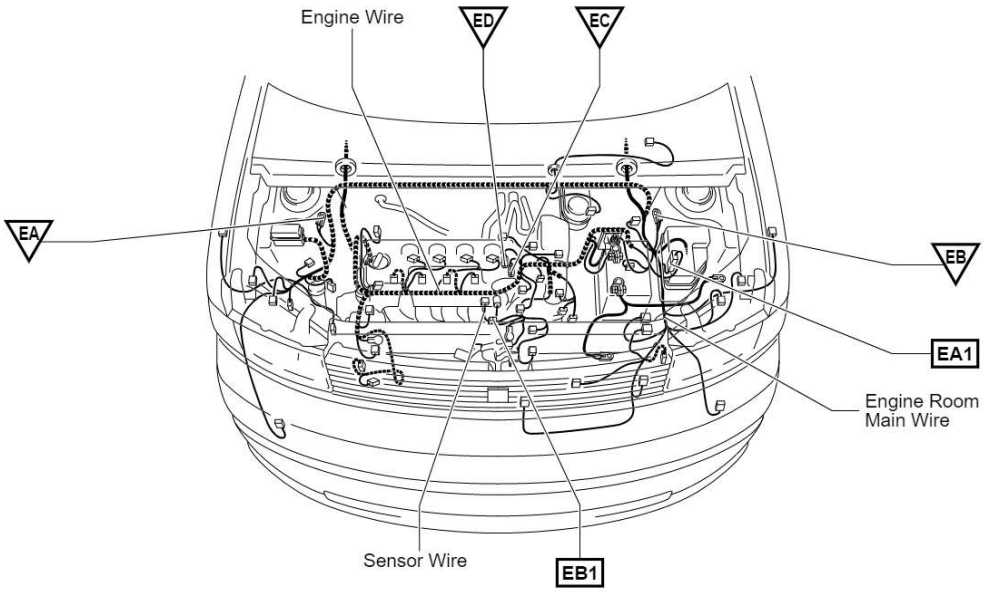
O 5 Occupant Classification ECU
O 6 Occupant Classification ECU
O 7 Occupant Classification Sensor Front LH
O 8 Occupant Classification Sensor Front RH
O 9 Occupant Classification Sensor Rear LH
O10 Occupant Classification Sensor Rear RH

P 6 Power Window Control SW Front RH
P 7 Power Window Control SW Rear LH
P 8 Power Window Control SW Rear RH
P 9 Power Window Motor Front LH
P10 Power Window Motor Front RH
P11 Power Window Motor Rear LH
P12 Power Window Motor Rear RH
P13 Pretensioner LH
P14 Pretensioner RH

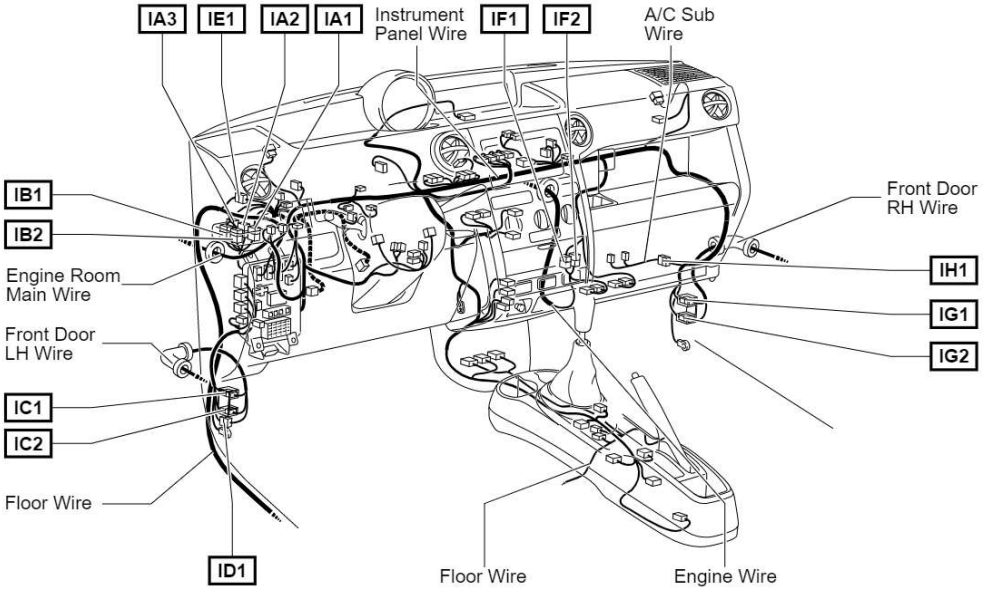
R 7 Rear Combination Light LH
R 8 Rear Combination Light RH
R 9 Rear Side Marker Light LH
R10 Rear Side Marker Light RH
R11 Rear Speaker LH
R12 Rear Speaker RH
R13 Rear Window Defogger
R14 Rear Window Defogger
R15 Rear Wiper Motor
R16 Remote Control Mirror LH
R17 Remote Control Mirror RH

G ELECTRICAL WIRING ROUTING

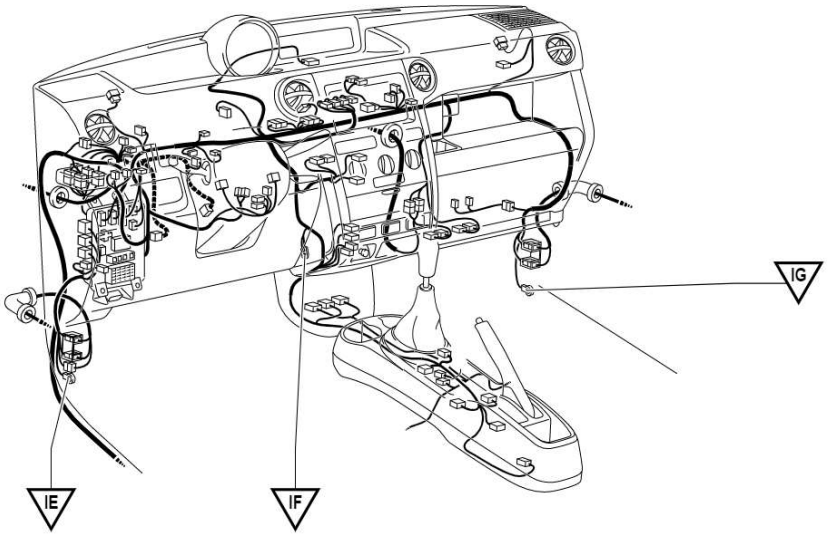
▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points



▭ : Location of Connector Joining Wire Harness and Wire Harness

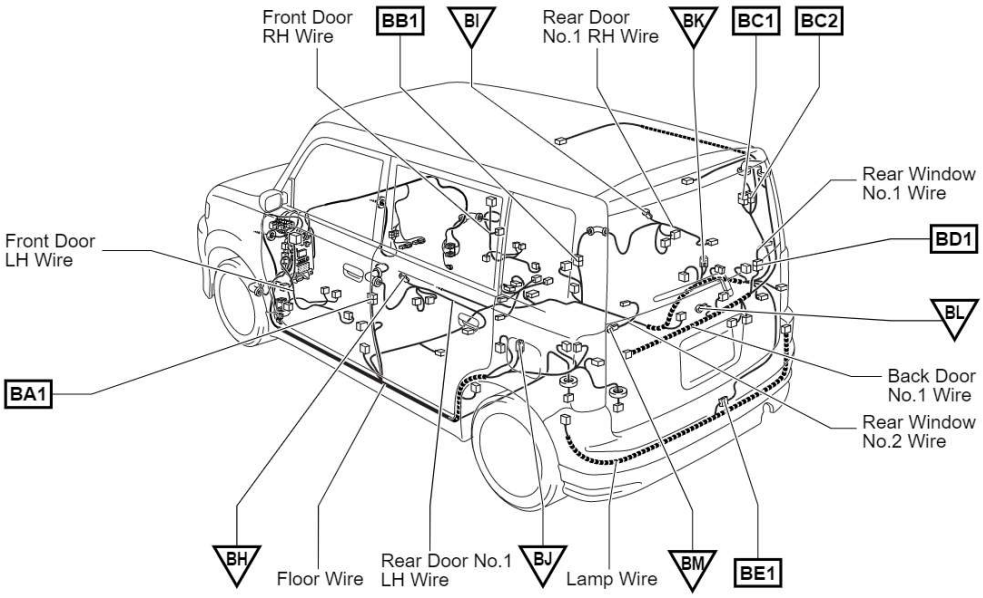


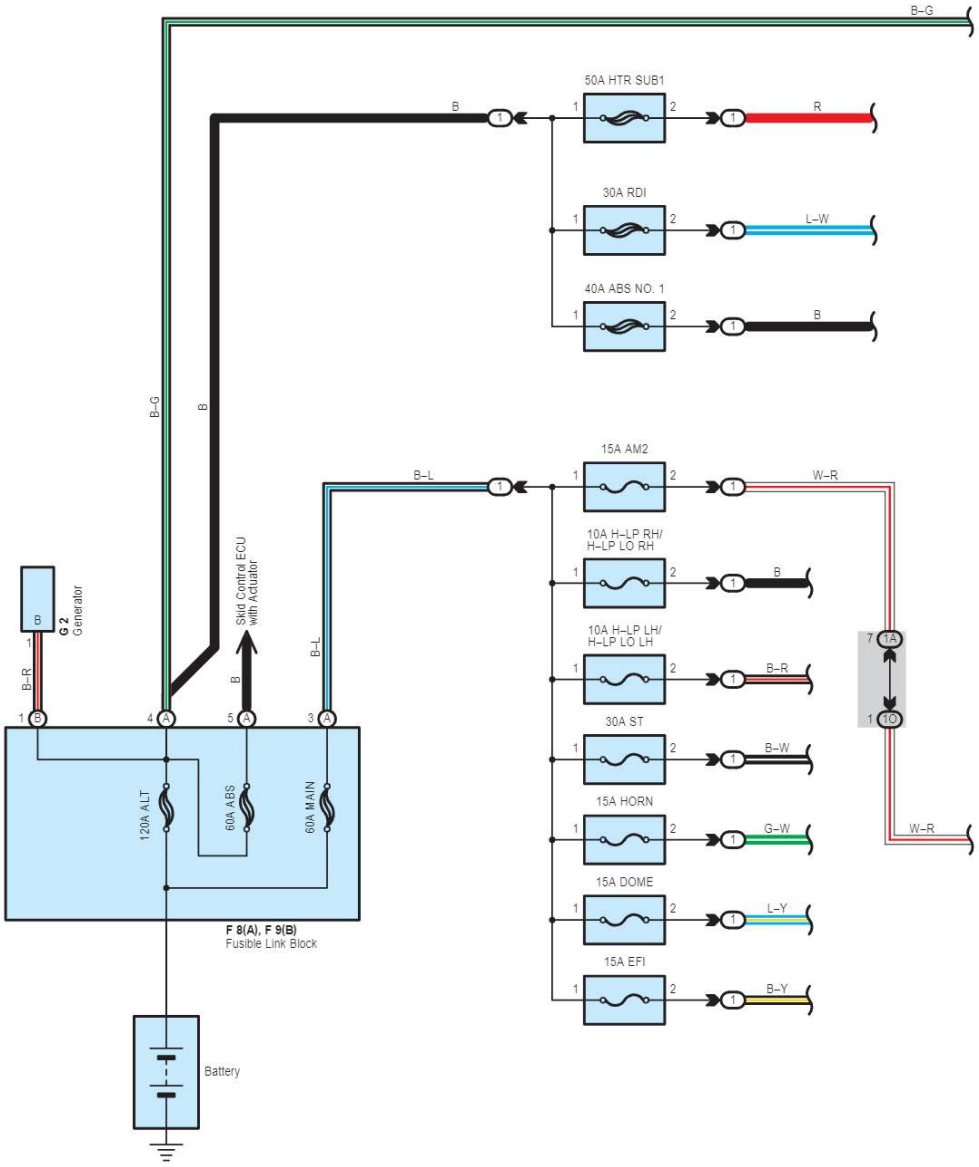
▽ : Location of Ground Points

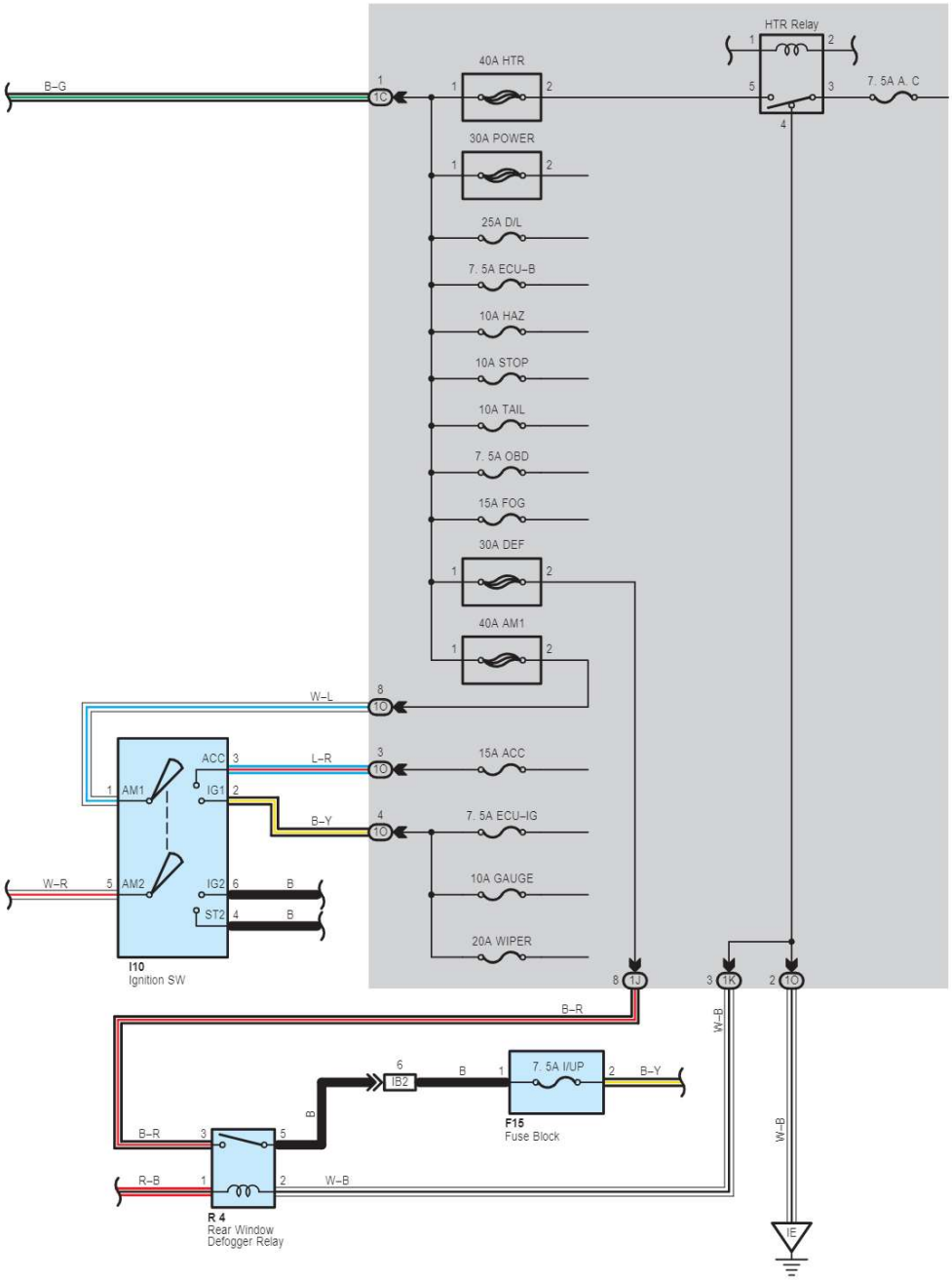


G ELECTRICAL WIRING ROUTING

▭ : Location of Connector Joining Wire Harness and Wire Harness
▽ : Location of Ground Points




B–G
50A HTR SUB1
B
R
30A RDI
L–W
40A ABS NO. 1
B
B–G
B
15A AM2
B–L
W–R
10A H–LP RH/
H–LP LO RH
B
10A H–LP LH/
H–LP LO LH
B–R
30A ST
B–W
15A HORN
G–W
15A DOME
L–Y
15A EFI
B–Y
Skid Control ECU
with Actuator
B
G 2
Generator
B–R
B–L
120A ALT
60A ABS
60A MAIN
F 8(A), F 9(B)
Fusible Link Block
Battery


HTR Relay
40A HTR
B–G
1C
7. 5A A_C
30A POWER
25A D/L
7. 5A ECU–B
10A HAZ
10A STOP
10A TAIL
7. 5A OBD
15A FOG
30A DEF
40A AM1
W–L
15A ACC
L–R
B–Y
7. 5A ECU–IG
10A GAUGE
20A WIPER
ACC
IG1
AM1
AM2
IG2
ST2
W–R
I10
Ignition SW
1J
1K
1O
B–R
W–B
IB2
7. 5A I/UP
F15
Fuse Block
R–B
R 4
Rear Window
Defogger Relay
IE

Power Source

○ : **Parts Location**

Code		See Page	Code	See Page	Code	See Page
F8	A	28	F15	30	I10	30
F9	B	28	G2	28	R4	31

▭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

▭ : **Junction Block and Wire Harness Connector**

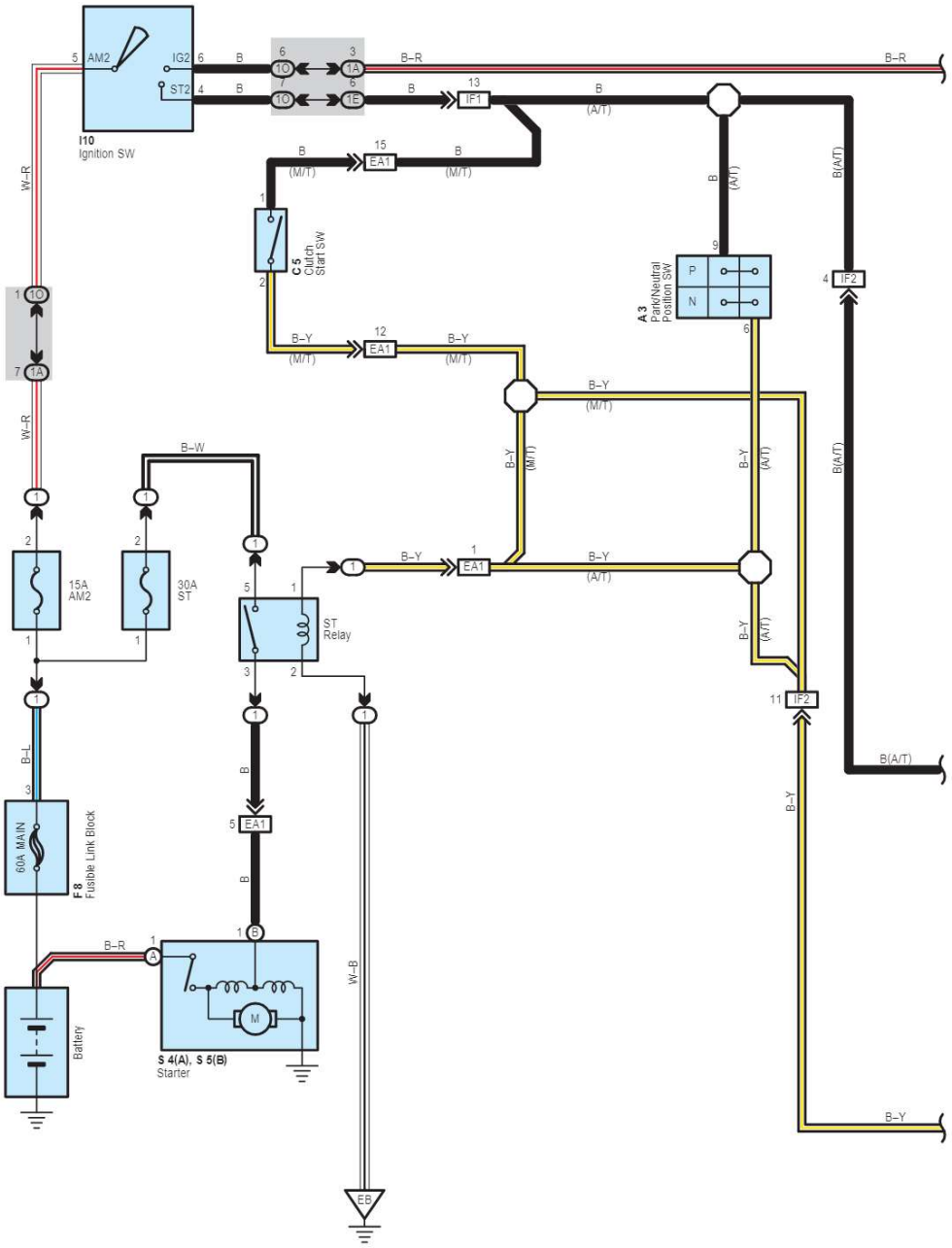
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1C		
1J	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
1O		

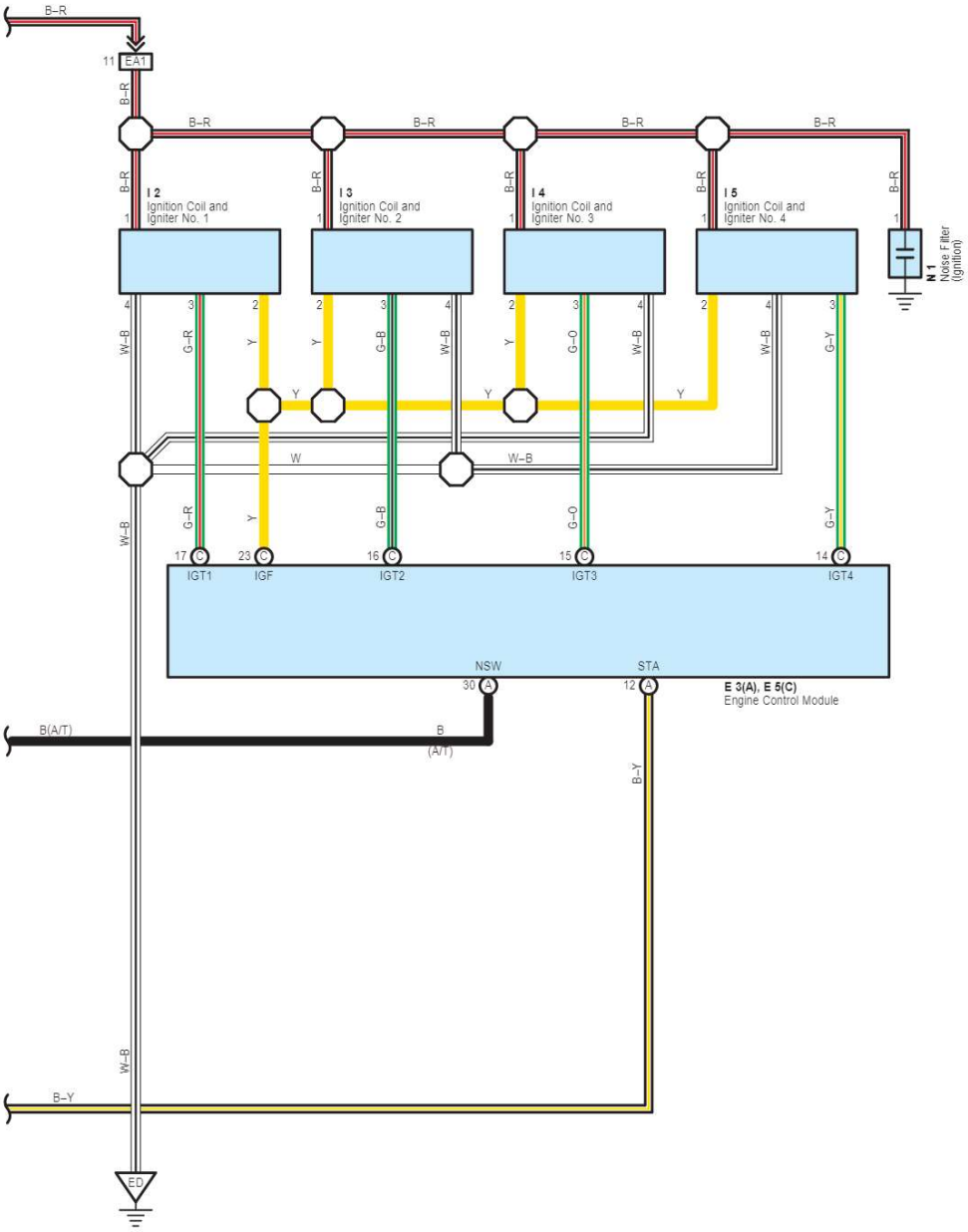
▭ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)

▽ : **Ground Points**

Code	See Page	Ground Points Location
IE	35	Left Kick Panel


I10
Ignition SW
AM2
IG2
ST2
W–R
W–R
1O
7A
15A
AM2
30A
ST
B–W
ST
Relay
B–L
60A MAIN
F8
Fusible Link Block
Battery
B–R
S 4(A), S 5(B)
Starter
M
W–B
EB
C5
Clutch
Start SW
A3
Park/Neutral
Position SW
P
N
1A
1E
IF1
IF2
EA1
B
B–R
B–Y
B(A/T)
(M/T)
(A/T)


B–R
11 EA1
I 2
Ignition Coil and Igniter No. 1
I 3
Ignition Coil and Igniter No. 2
I 4
Ignition Coil and Igniter No. 3
I 5
Ignition Coil and Igniter No. 4
N 1
Noise Filter (Ignition)
W–B
G–R
Y
G–B
G–O
G–Y
W
17 IGT1
23 IGF
16 IGT2
15 IGT3
14 IGT4
NSW
30
STA
12
E 3(A), E 5(C)
Engine Control Module
B(A/T)
B
(A/T)
B–Y
ED

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A3	28	I2	29	N1	29
C5	30	I3	29	S4 A	29
E3 A	30	I4	29	S5 B	29
E5 C	30	I5	29		
F8	28	I10	30		

▭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

▭ : **Junction Block and Wire Harness Connector**

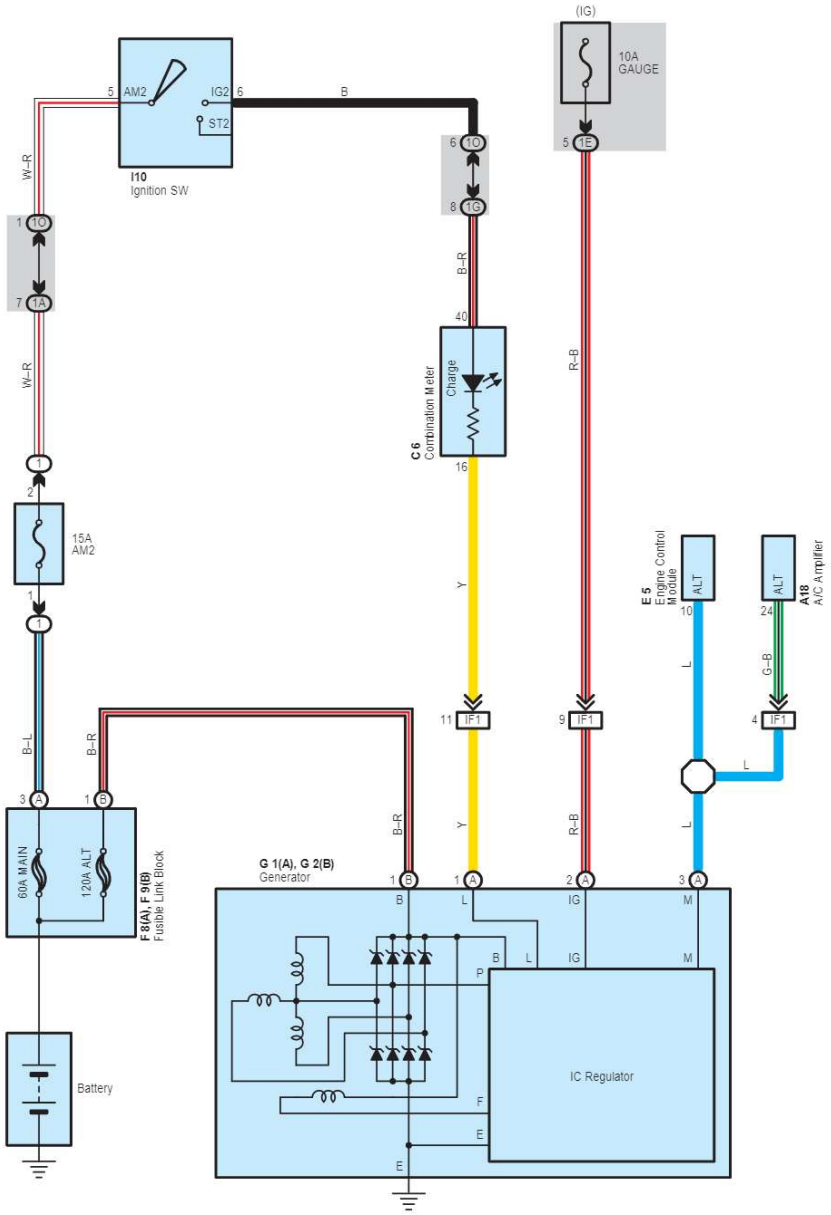
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1E	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1O		

▭ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	34	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B)
IF1	35	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IF2		

▽ : **Ground Points**

Code	See Page	Ground Points Location
EB	34	Front Left Fender Apron
ED	34	Engine Block


(IG)
10A
GAUGE
5 1E
5 AM2
IG2 6
ST2
B
I10
Ignition SW
6 1O
8 1G
W–R
1 1O
7 1A
W–R
1
2
15A
AM2
1
1
B–L
B–R
3 A
1 B
60A MAIN
120A ALT
F 8(A), F 9(B)
Fusible Link Block
B–R
B–R
40
C 6
Combination Meter
Charge
16
Y
11 1F1
Y
9 1F1
R–B
R–B
E 5
Engine Control
Module
ALT
10
L
L
L
ALT
24
G–B
4 1F1
A18
A/C Amplifier
G 1(A), G 2(B)
Generator
1 B
1 A
2 A
3 A
B
L
IG
M
B
L
IG
M
P
F
E
E
IC Regulator
Battery

○ : **Parts Location**

Code	See Page	Code		See Page	Code		See Page
A18	30	F8	A	28	G2	B	28
C6	30	F9	B	28	I10		30
E5	30	G1	A	28			

⬭ : **Relay Blocks**

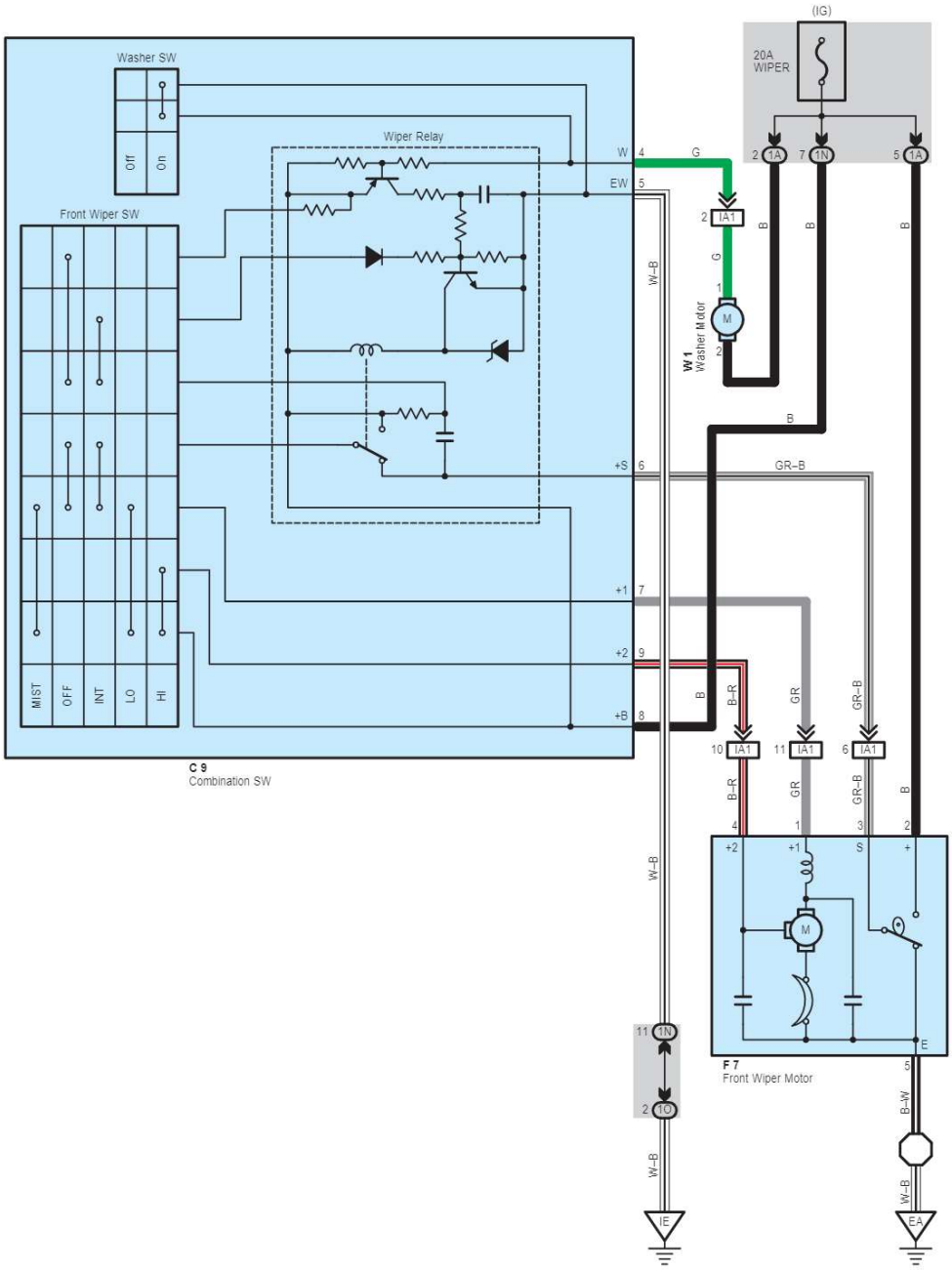
Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

⬭ : **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1E	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1O		

▭ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	35	Engine Wire and Instrument Panel Wire (Behind the Glove Box)


(IG)
20A
WIPER
Washer SW
Off
On
Wiper Relay
Front Wiper SW
MIST
OFF
INT
LO
HI
W
EW
+S
+1
+2
+B
W–B
G
B
GR–B
B–R
GR
W1
Washer Motor
C 9
Combination SW
F 7
Front Wiper Motor
B–W
E
E4

System Outline

With the ignition SW turned on, the current flows to TERMINAL 8 of the front wiper and washer SW, TERMINAL 2 of the washer motor and TERMINAL 2 of the front wiper motor through the WIPER fuse.

1. Low Speed Position

With the front wiper SW turned to LO position, the current flows from TERMINAL 8 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND and causes the front wiper motor to run at low speed.

2. High Speed Position

With the front wiper SW turned to HI position, the current flows from TERMINAL 8 of the front wiper and washer SW to TERMINAL 9 to TERMINAL 4 of the front wiper motor to TERMINAL 5 to GROUND and causes the front wiper motor to run at high speed.

3. INT Position

With the front wiper SW turned to INT position, the wiper relay operates and current flows from TERMINAL 8 of the front wiper and washer SW to TERMINAL 5 to GROUND. This activates the intermittent circuit and the current flows from TERMINAL 8 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND and the wiper operates. Intermittent operation is controlled by a condenser charge and discharge function in the relay.

4. Mist Position

With the front wiper SW turned to MIST position, the current flows from TERMINAL 8 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND and causes the front wiper motor to run at low speed.

5. Washer Interlocking Operation

With the washer SW pulled to ON position, the current flows from the WIPER fuse to TERMINAL 2 of the washer motor to TERMINAL 1 to TERMINAL 4 of the front wiper and washer SW to TERMINAL 5 to GROUND and causes the washer motor to run and the window washer to spray. Simultaneously, current flows from the WIPER fuse to TERMINAL 8 of the front wiper and washer SW to TERMINAL 7 to TERMINAL 1 of the front wiper motor to TERMINAL 5 to GROUND, causing the wiper to function.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
C9	30	F7	28	W1	29

⬭ : Junction Block and Wire Harness Connector

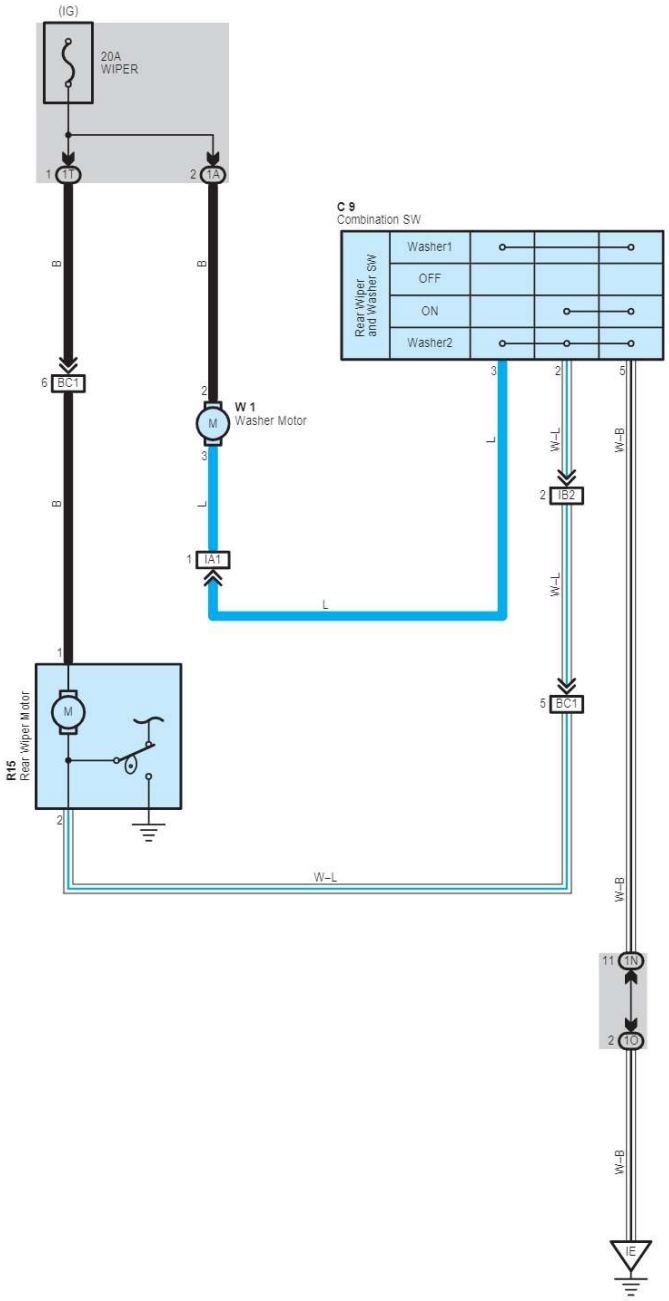
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1N	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1O		

▭ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)

▽ : Ground Points

Code	See Page	Ground Points Location
EA	34	Front Right Fender Apron
IE	35	Left Kick Panel


(IG)
20A
WIPER
1
1T
2
1A
B
B
6
BC1
2
W 1
Washer Motor
M
3
L
1
IA1
L
C 9
Combination SW
Rear Wiper and Washer SW
Washer1
OFF
ON
Washer2
3
2
5
L
W–L
W–B
2
IB2
W–L
5
BC1
R15
Rear Wiper Motor
M
1
2
W–L
W–B
11
1N
2
1O
W–B
1E

System Outline

When the ignition SW is turned on, current flows to TERMINAL 2 of the washer motor, TERMINAL 1 of the rear wiper motor through the WIPER fuse.

1. Rear Wiper Normal Operation

With the ignition SW turned on and rear wiper and washer SW turned to ON position, current flows to TERMINAL 1 of the rear wiper motor to TERMINAL 2 of the rear wiper and washer SW to TERMINAL 5 to GROUND. Causing the rear wiper motor operated.

2. Washer Operation

With the ignition SW turned on and the rear wiper and washer SW turned to ON position, when the wiper SW is turned further (ON+ washer position), current flows to TERMINAL 2 of the washer motor to TERMINAL 3 to TERMINAL 3 of the rear wiper and washer SW to TERMINAL 5 to GROUND so that the washer motor rotates and the window washer emits a water, only while the switch is fully turned.
When the wiper SW is off and then turned to washer position (Wiper off side), only the washer operates.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C9	30	R15	33	W1	29

: Junction Block and Wire Harness Connector

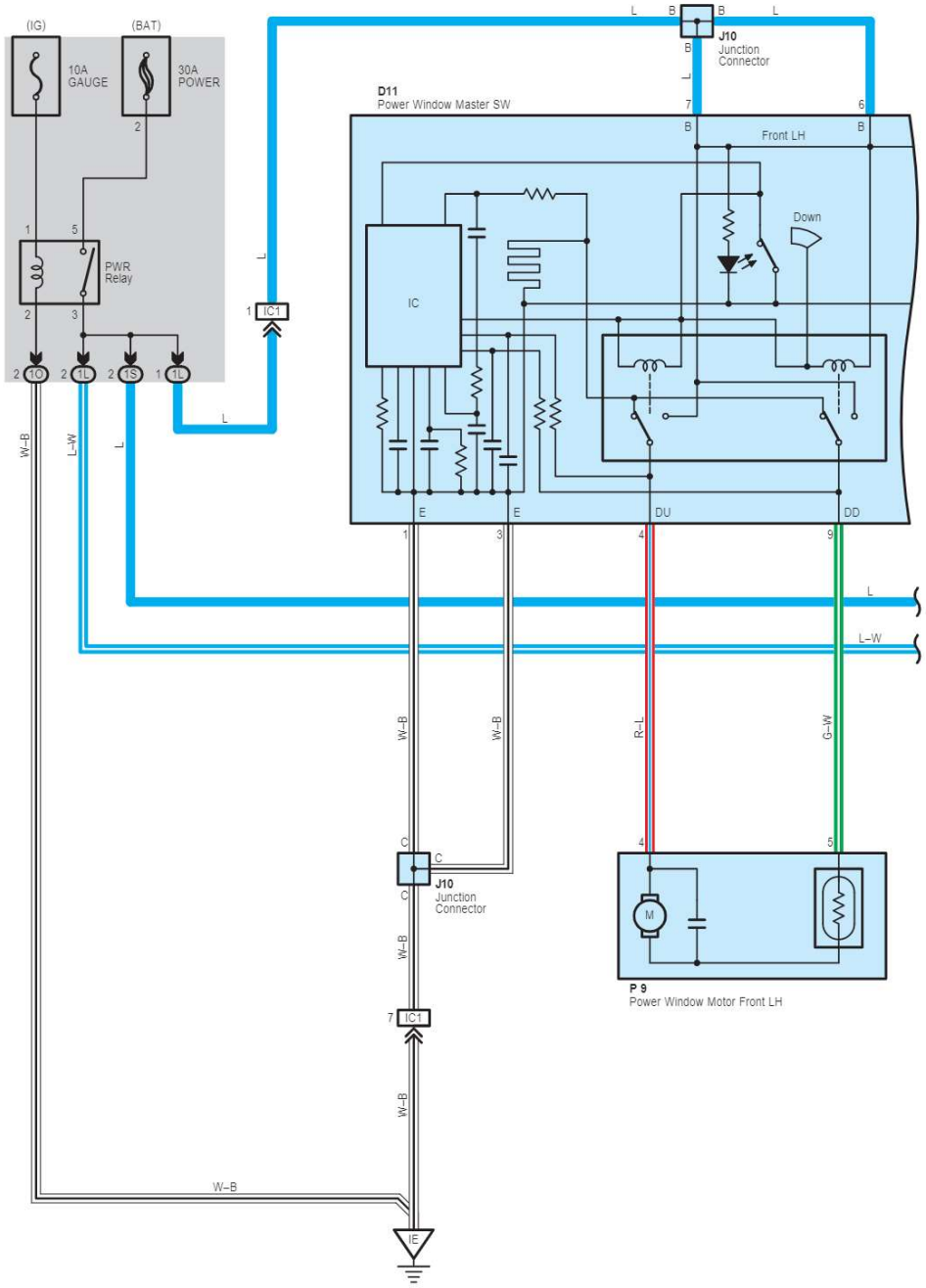
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1N	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1O		
1T	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

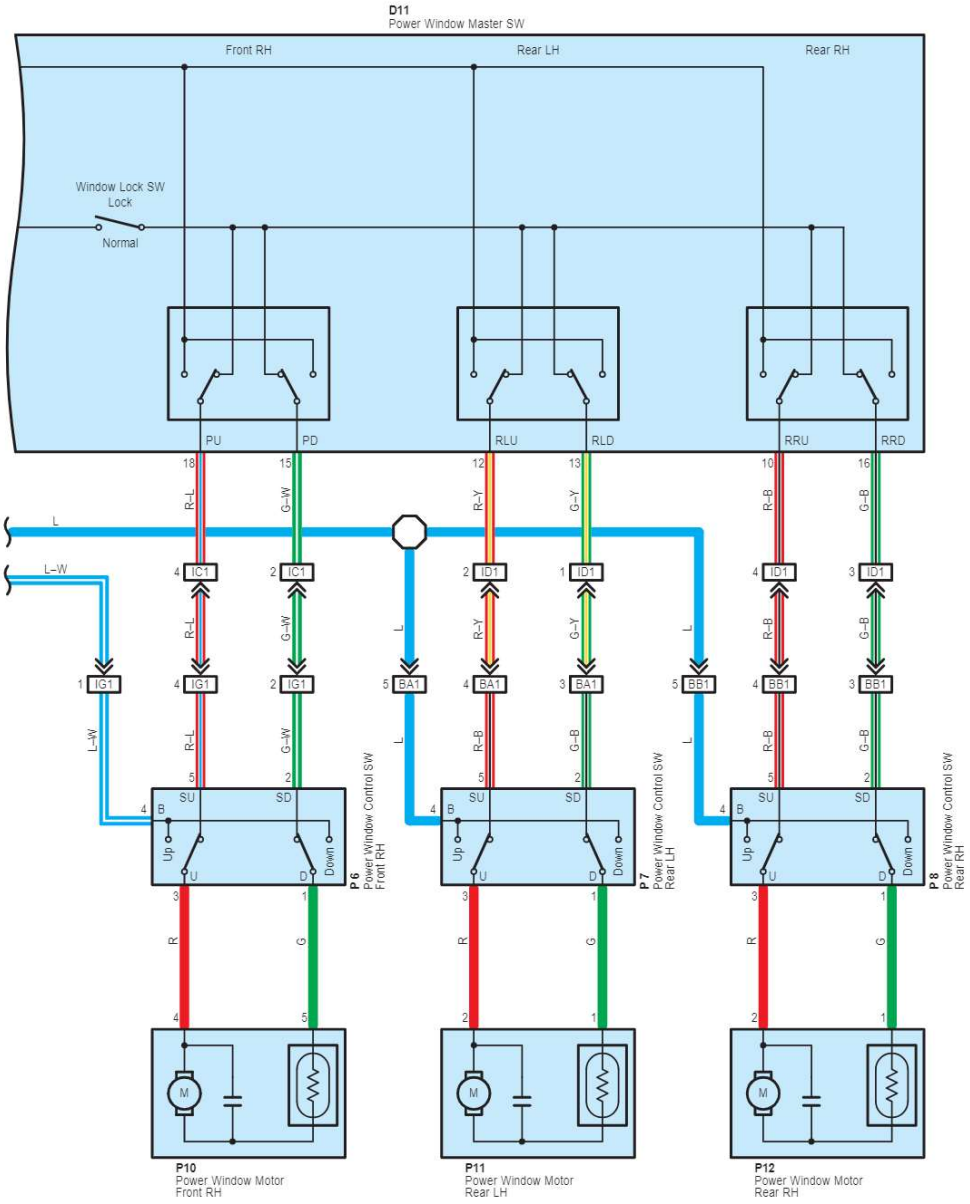
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IB2	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)
BC1	36	Back Door No.1 Wire and Floor Wire (Right Rear Side Quarter Pillar)

: Ground Points

Code	See Page	Ground Points Location
IE	35	Left Kick Panel


(IG)
(BAT)
10A
GAUGE
30A
POWER
PWR
Relay
IC1
J10
Junction
Connector
D11
Power Window Master SW
Front LH
Down
IC
E
E
DU
DD
J10
Junction
Connector
P 9
Power Window Motor Front LH
M
IE
L
W–B
L–W
R–L
G–W


D11
Power Window Master SW
Front RH
Rear LH
Rear RH
Window Lock SW
Lock
Normal
PU
PD
RLU
RLD
RRU
RRD
L
L–W
R–L
G–W
R–Y
G–Y
R–B
G–B
IC1
ID1
IG1
BA1
BB1
SU
SD
B
Up
U
D
Down
P6
Power Window Control SW
Front RH
P7
Power Window Control SW
Rear LH
P8
Power Window Control SW
Rear RH
R
G
M
P10
Power Window Motor
Front RH
P11
Power Window Motor
Rear LH
P12
Power Window Motor
Rear RH

System Outline

When the ignition SW is turned on, the current flows from the GAUGE fuse through the PWR relay to GROUND, thus the PWR relay is turned on and the current flows through the POWER fuse to TERMINAL 5 of the PWR relay to TERMINAL 3 to TERMINAL B of the power window master SW and TERMINAL B of the power window control SW front RH, Rear LH and RH.

1. Manual Operation (Power Window Master SW)

When the power window master SW (Driver's) is pushed down one step, the current flows from TERMINAL B of the power window master SW to TERMINAL DD to TERMINAL 5 of the power window motor front LH to TERMINAL 4 to TERMINAL DU of the power window master SW to TERMINAL E to GROUND, and the motor rotates to open the window. When the power window master SW is pulled up one step, the current flows from TERMINAL B of the power window master SW to TERMINAL DU to TERMINAL 4 of the power window motor front LH to TERMINAL 5 to TERMINAL DD of the power window master SW to TERMINAL E to GROUND, and the motor rotates in the opposite direction from open and closes the window. All the other windows are opened/closed by operating the respective power window master SW. When the window lock SW is pushed to the lock side, the ground circuit to the passenger's window becomes open. As a result, even if Open/Close operation of the passenger's window is attempted, the current from TERMINAL E of the power window master SW is not grounded and the motor does not rotate, so the passenger's window can not be operated and window lock occurs.

2. Auto Down Operation (Driver's Window)

When the power window master SW (Driver's) is pushed down two steps, the power window master SW determines that it is AUTO operation and the current flows from TERMINAL B of the power window master SW to TERMINAL DD to TERMINAL 5 of the power window motor front LH to TERMINAL 4 to TERMINAL DU of the power window master SW to TERMINAL E to GROUND. Because the hold circuit inside the power window master SW keeps the relay on the down side activated, the power window motor continues operating even if the power window master SW is released. When the driver's window is fully opened, the hold circuit turns off and the relay on the down side turns off, and auto down operation is completed.

3. Stopping of Auto Down Operation (Driver's Window)

When the power window master SW (Driver's) is pulled to the up side during auto down operation, a ground circuit opens in the power window master SW and current does not flow from TERMINAL DU of the power window master SW to TERMINAL E, so the motor stops, causing auto down operation to stop. If the power window master SW is pulled continuously, the motor rotates in the up direction in manual up operation.

4. Manual Operation (Power Window Control SW Front RH, Rear LH and RH)

With the power window control SW (Front RH, rear LH or RH) pulled to the up side, current flows from TERMINAL B of the power window control SW to TERMINAL U to power window motor to TERMINAL D of the power window control SW to TERMINAL SD to TERMINAL PD, RLD or RRD of the power window master SW to TERMINAL E to GROUND and rotates the power window motor (Front RH, rear LH or RH) in the up direction. Up operation continues only while the power window control SW is pulled to the up side. When the window descends, the current flowing to the motor flows in the opposite direction, and the motor rotates in reverse. When the window lock SW is pushed to the lock side, the ground circuit to the passenger's window becomes open. As a result, even if Open/Close operation of the passenger's window is attempted, the current from TERMINAL E of the power window master SW is not grounded and the motor does not rotate, so the passenger's window can not be operated and window lock occurs.

O : Parts Location

Code	See Page	Code	See Page	Code	See Page
D11	32	P7	33	P10	33
J10	32	P8	33	P11	33
P6	33	P9	33	P12	33

: Junction Block and Wire Harness Connector

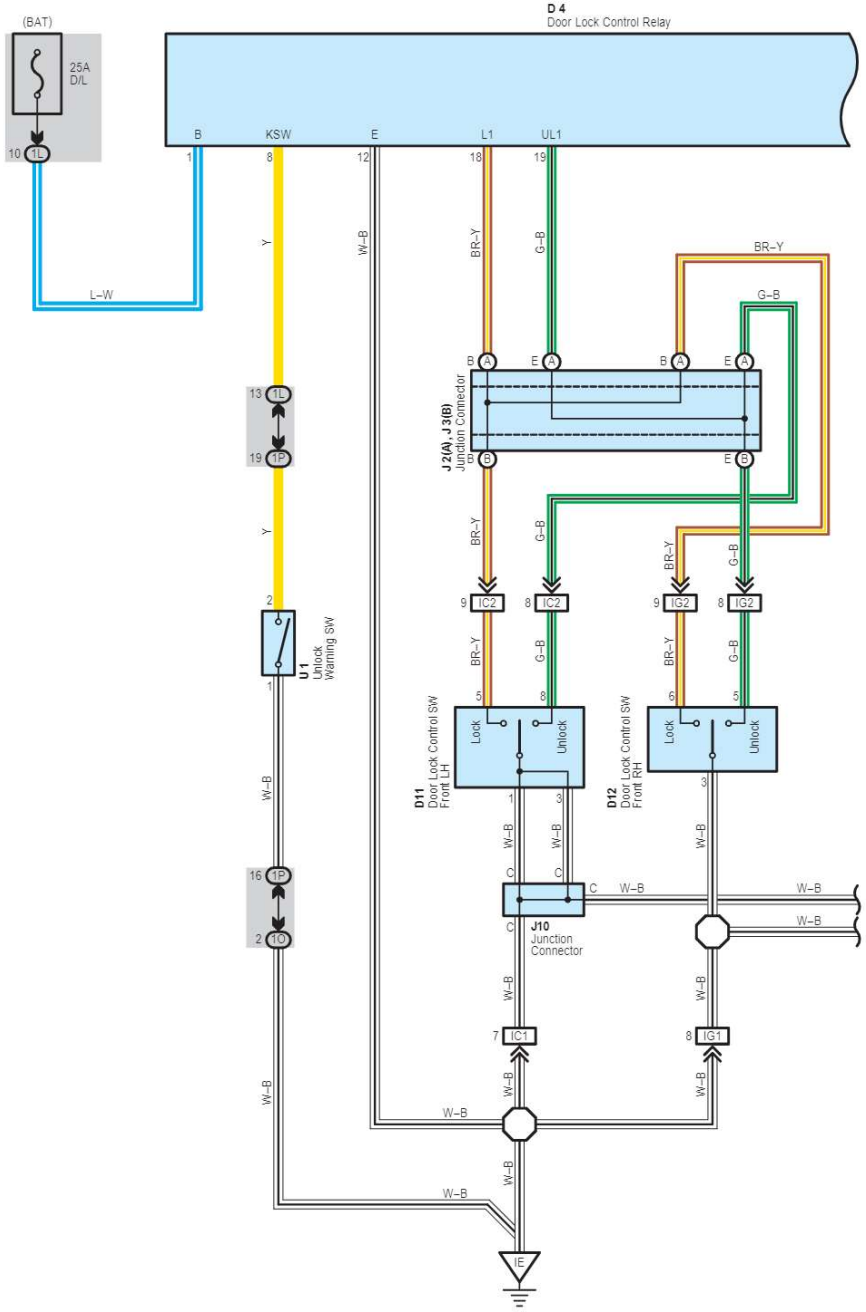
Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1O		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

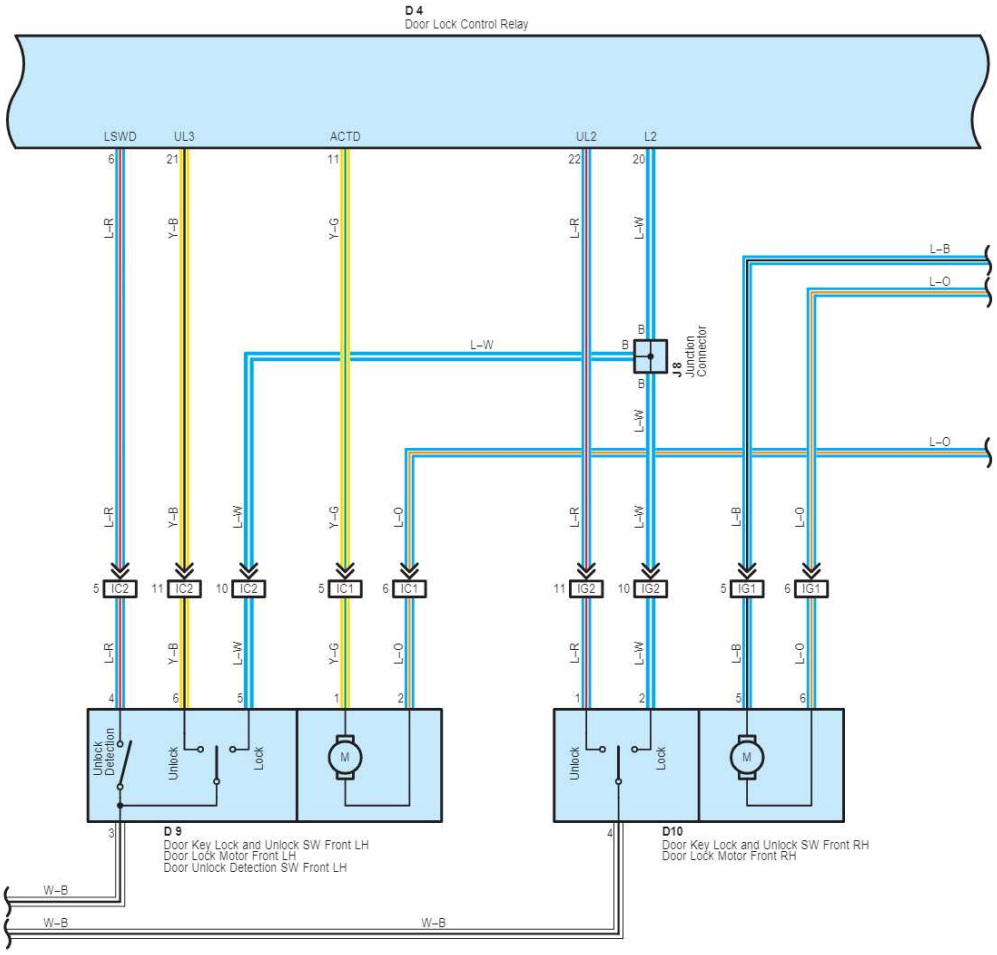
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	35	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
ID1	35	Front Door LH Wire and Floor Wire (Left Kick Panel)
IG1	35	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
BA1	36	Rear Door No.1 LH Wire and Floor Wire (Center Pillar LH)
BB1	36	Rear Door No.1 RH Wire and Floor Wire (Center Pillar RH)

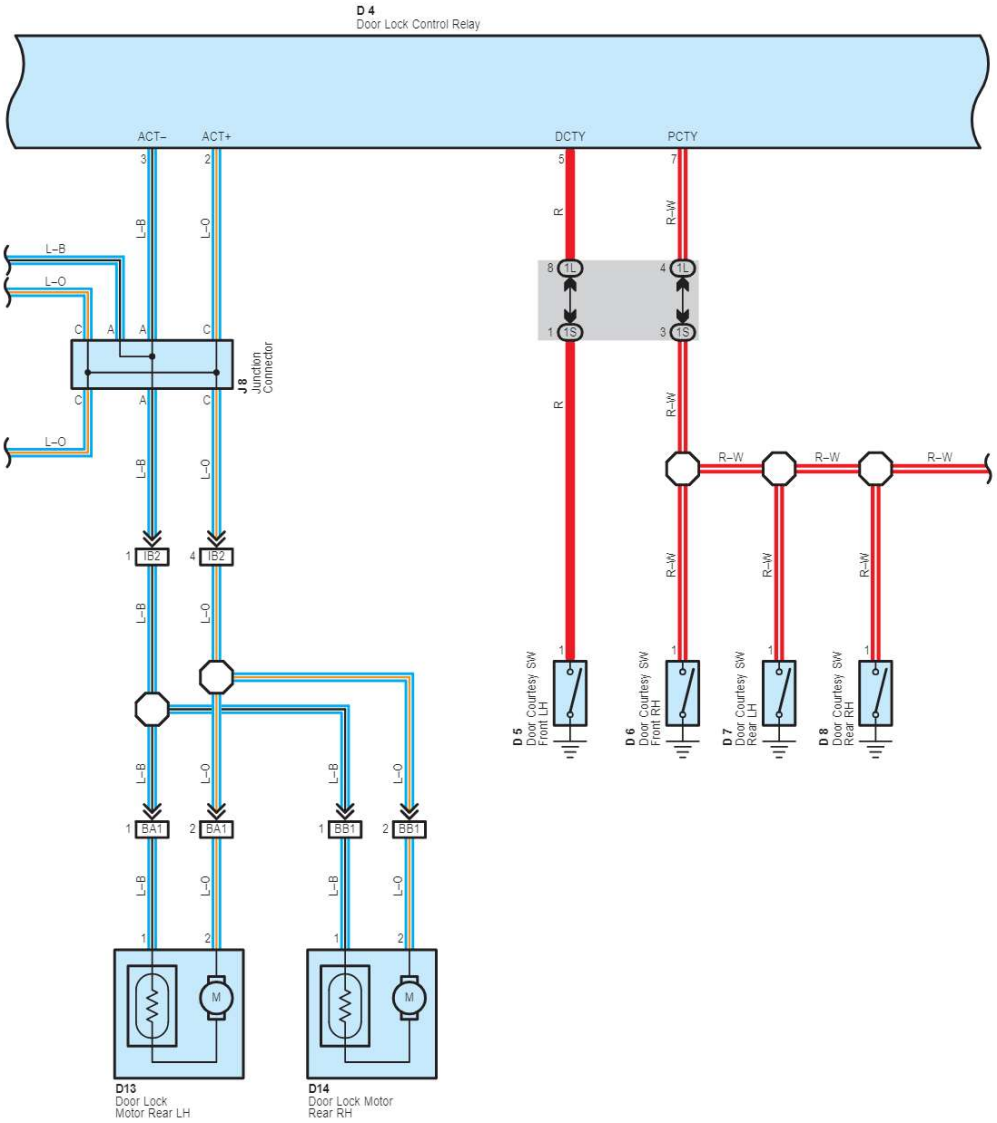
: **Ground Points**

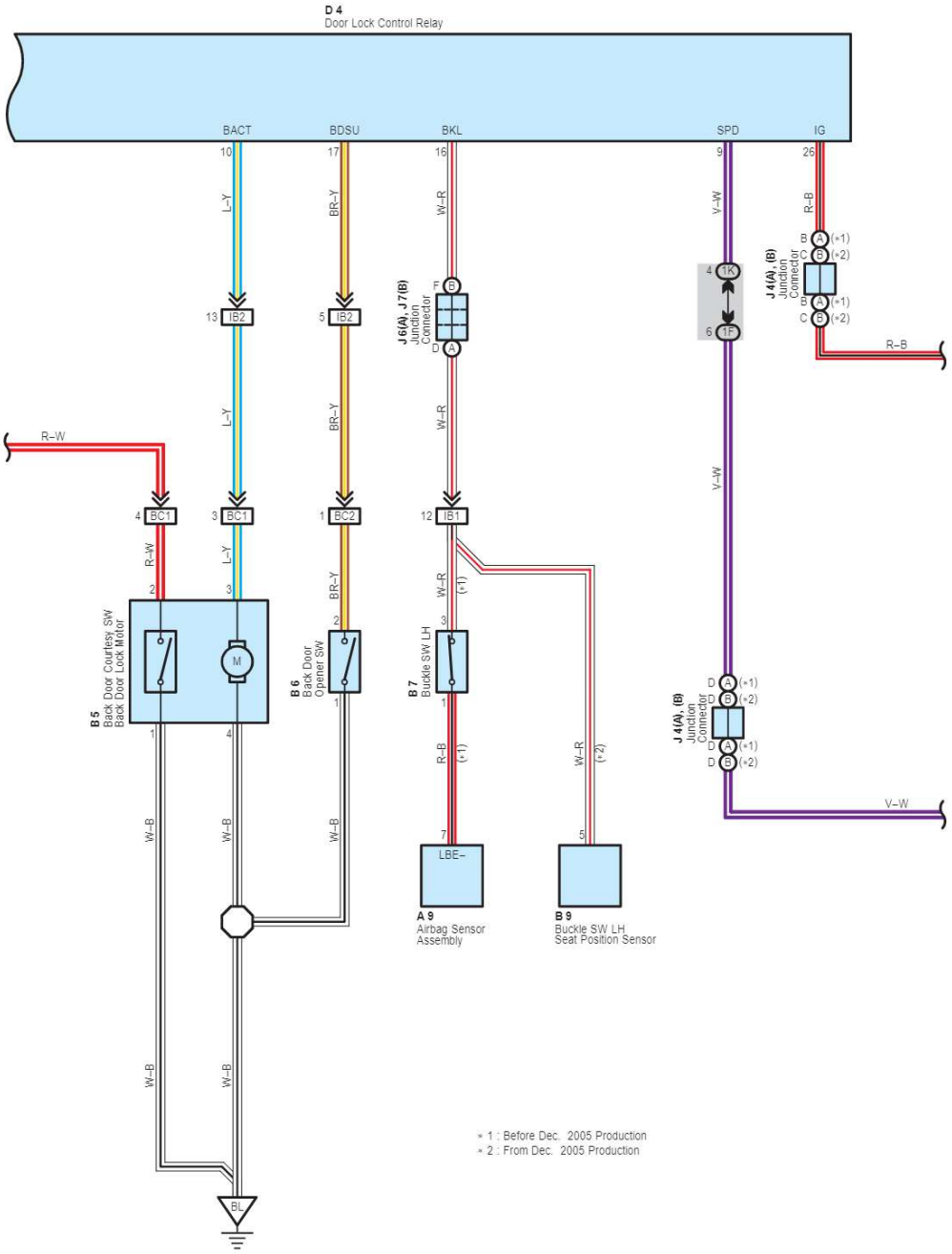
Code	See Page	Ground Points Location
IE	35	Left Kick Panel

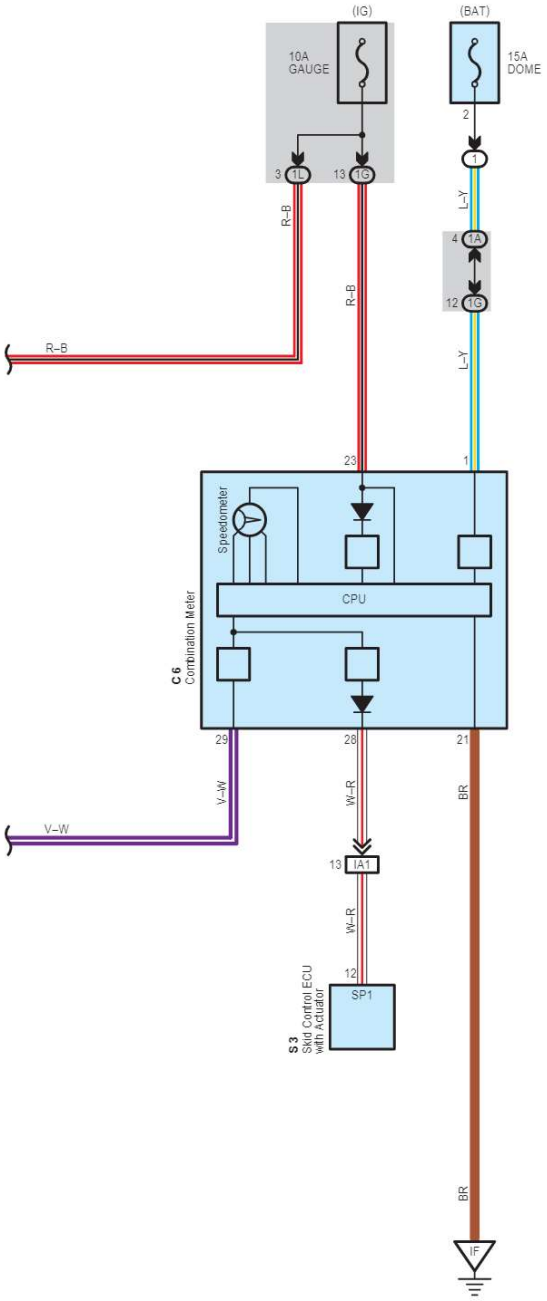

(BAT)
25A
D/L
10 1L
L–W
D 4
Door Lock Control Relay
B
KSW
E
L1
UL1
1
8
12
18
19
Y
W–B
BR–Y
G–B
13 1L
19 1P
2
U1
Unlock
Warning SW
1
16 1P
2 1O
J2(A), J3(B)
Junction Connector
9 IC2
8 IC2
9 IG2
8 IG2
D11
Door Lock Control SW
Front LH
D12
Door Lock Control SW
Front RH
Lock
Unlock
J10
Junction
Connector
7 IC1
8 IG1
IE


D 4
Door Lock Control Relay
LSWD
UL3
ACTD
UL2
L2
L–R
Y–B
Y–G
L–W
L–B
L–O
J8
Junction Connector
IC2
IC1
IG2
IG1
Unlock Detection
Unlock
Lock
M
D 9
Door Key Lock and Unlock SW Front LH
Door Lock Motor Front LH
Door Unlock Detection SW Front LH
D10
Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
W–B

Door Lock Control




D 4
Door Lock Control Relay
BACT
BDSU
BKL
SPD
IG
10
17
16
9
26
L–Y
BR–Y
W–R
V–W
R–B
13 IB2
5 IB2
F B
D A
J6(A), J7(B) Junction Connector
4 1K
6 1F
B A (+1)
C B (+2)
J4(A), (B) Junction Connector
R–W
4 BC1
3 BC1
1 BC2
12 IB1
R–W
L–Y
BR–Y
W–R
2
3
2
3
B5 Back Door Courtesy SW Back Door Lock Motor
M
B6 Back Door Opener SW
B7 Buckle SW LH
1
4
1
1
W–B
W–B
W–B
R–B (*1)
W–R (*2)
7
5
LBE–
A 9 Airbag Sensor Assembly
B 9 Buckle SW LH Seat Position Sensor
BL
* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production


(IG)
(BAT)
10A
GAUGE
15A
DOME
2
3 1L
13 1G
1
L–Y
4 1A
12 1G
R–B
R–B
R–B
L–Y
23
1
Speedometer
CPU
C 6
Combination Meter
29
28
21
V–W
W–R
BR
V–W
13 IA1
W–R
12
SP1
S 3
Skid Control ECU
with Actuator
BR
IF

System Outline

The current always flows to TERMINAL 1 of the door lock control relay through the D/L fuse.

1. Manual Lock Operation

When the door lock control SW or door key lock and unlock SW are operated to LOCK position, a lock signal is input to TERMINAL 18 or 20 of the door lock control relay and causes the door lock control relay to function. The current flows from TERMINAL 1 of the door lock control relay to TERMINAL 2 to the door lock motors to TERMINALS 3 and 11 of the door lock control relay to TERMINAL 12 to GROUND and the door lock motors locks the door.

2. Manual Unlock Operation

When the door lock control SW or door key lock and unlock SW are operated to UNLOCK position, an unlock signal is input to TERMINAL 19, 21 or 22 of the door lock control relay and causes the door lock control relay to function. The current flows from TERMINAL 1 of the door lock control relay to TERMINALS 3 and 11 to the door lock motors to TERMINAL 2 of the door lock control relay to TERMINAL 12 to GROUND and the door lock motors unlocks the door.

3. Double Operation Unlock Operation

When the door key lock and unlock SW front LH is turned to the unlock side, only the driver's door is unlocked. By turning the door key lock and unlock SW front LH to the unlock side, a signal is input to TERMINAL 21 of the door lock control relay, and if the signal is input again within 3 seconds by turning the SW to the unlock side again, current flows from TERMINAL 11 of the door lock control relay to the door lock motors to TERMINAL 2 of the door lock control relay to TERMINAL 12 to GROUND, causing all the other doors are unlocked.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	30	D7	32	J3 B	31
B5	32	D8	32	J4 A	31
B6	32	D9	32	J4 B	31
B7	32	D10	32	J6 A	31
B9	32	D11	32	J7 B	31
C6	30	D12	32	J8	31
D4	30	D13	32	J10	32
D5	32	D14	32	S3	29
D6	32	J2 A	31	U1	31

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	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	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1F	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1K		
1L		
1O		
1P		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

Door Lock Control

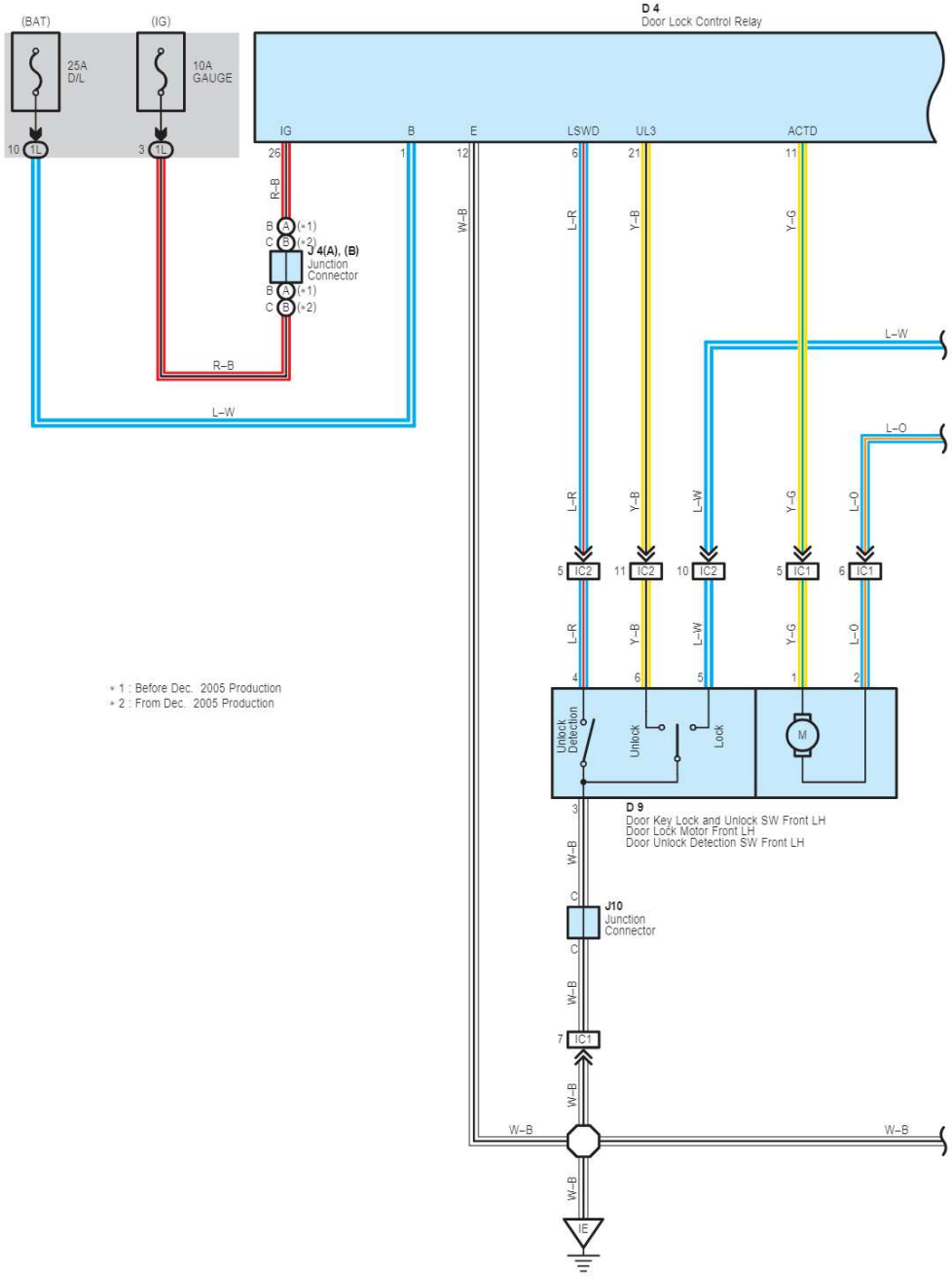
: **Connector Joining Wire Harness and Wire Harness**

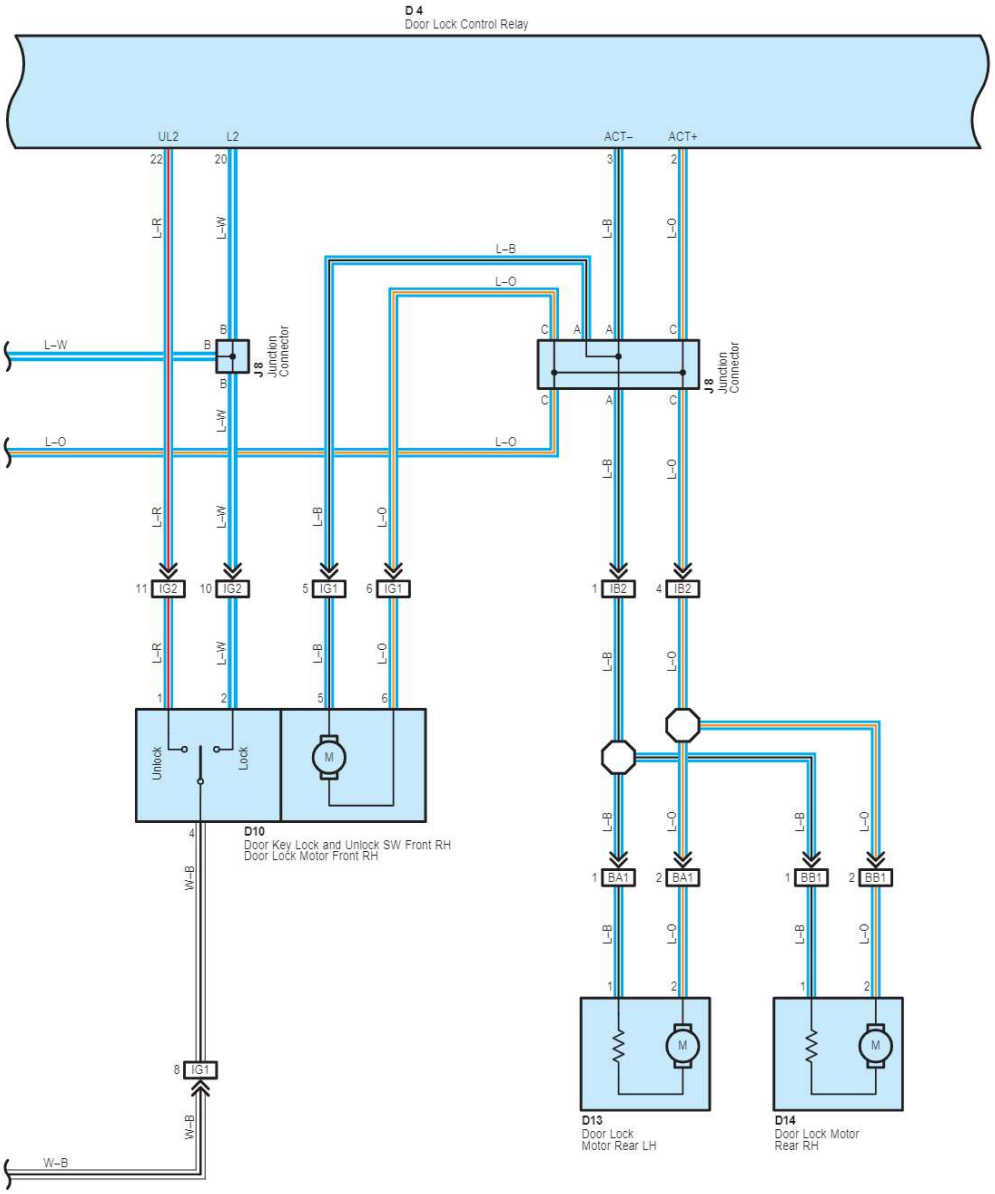
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IB1	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IB2		
IC1	35	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IC2		
IG1	35	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IG2		
BA1	36	Rear Door No.1 LH Wire and Floor Wire (Center Pillar LH)
BB1	36	Rear Door No.1 RH Wire and Floor Wire (Center Pillar RH)
BC1	36	Back Door No.1 Wire and Floor Wire (Right Rear Side Quarter Pillar)
BC2		

: **Ground Points**

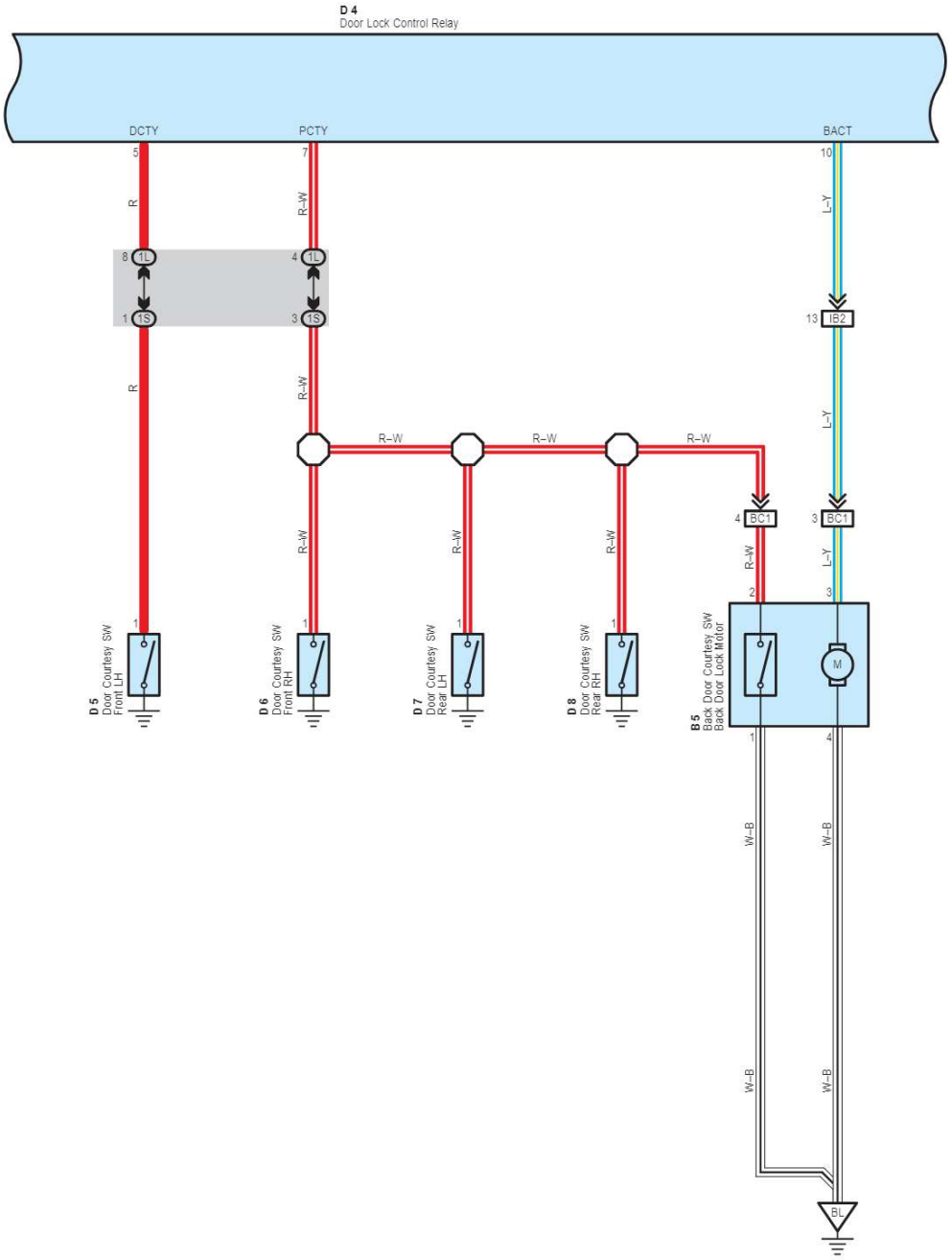
Code	See Page	Ground Points Location
IE	35	Left Kick Panel
IF	35	Instrument Panel Brace LH
BL	36	Back Door Center

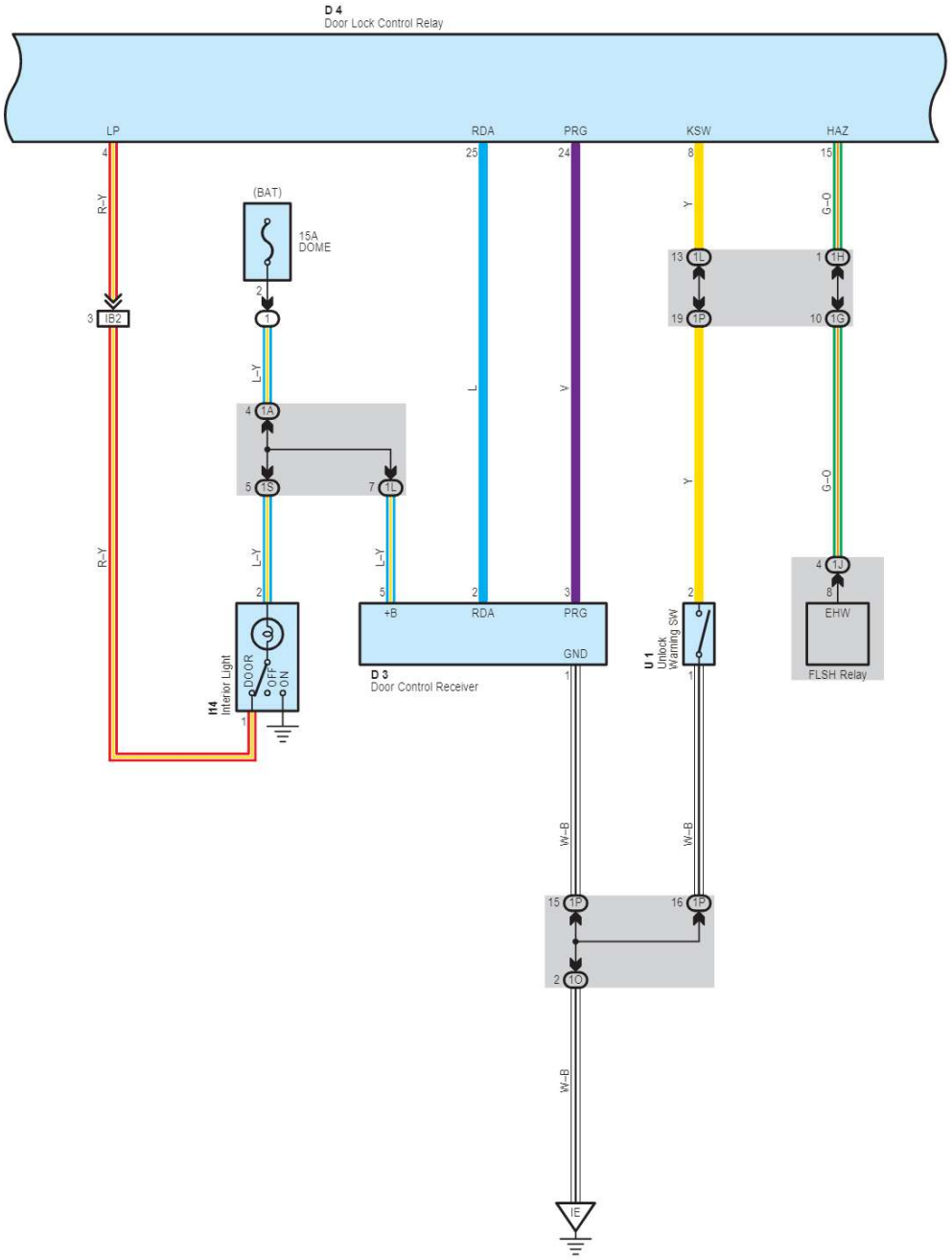
Wireless Door Lock Control



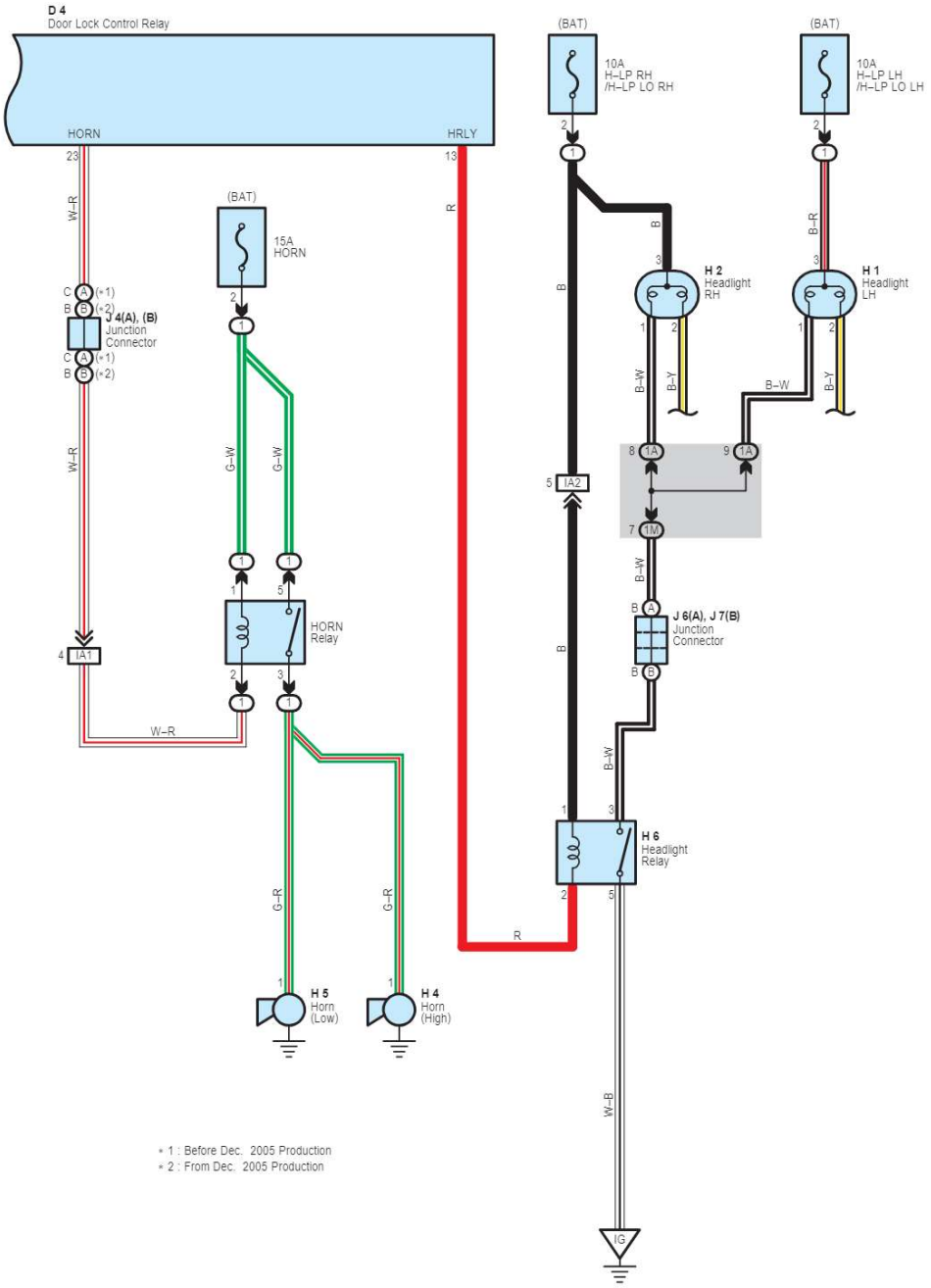

D4
Door Lock Control Relay
UL2
L2
ACT–
ACT+
22
20
3
2
L–R
L–W
L–B
L–O
J8
Junction
Connector
11 IG2
10 IG2
5 IG1
6 IG1
1 IB2
4 IB2
1
2
5
6
Unlock
Lock
M
D10
Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
4
W–B
6 IG1
1 BA1
2 BA1
1 BB1
2 BB1
D13
Door Lock
Motor Rear LH
D14
Door Lock Motor
Rear RH

Wireless Door Lock Control




D 4
Door Lock Control Relay
LP
RDA
PRG
KSW
HAZ
(BAT)
15A
DOME
R-Y
L-Y
L
V
Y
G-O
1B2
1A
1S
1L
1P
1H
1G
1J
EHW
FLSH Relay
+B
RDA
PRG
GND
D 3
Door Control Receiver
I14
Interior Light
DOOR
OFF
ON
U 1
Unlock
Warning SW
W-B
1O
IE

Wireless Door Lock Control



System Outline

Door lock control (Lock and unlock) and panic control (Theft alarm and flash) is performed by remote control, without the ignition SW at OFF, using low–power electrical waves emitted by a transmitter.

1. Wireless Door Lock or Unlock Normal Operation

With the ignition SW at OFF (Unlock warning SW off) and all the doors completely closed, when the lock or unlock button (Transmitter) is pushed, the wireless door lock control receiver receives the electrical waves from the transmitter, and sends a signal to the door lock control relay causing it to operate.
As a result, the door lock control relay judges whether the door is locked or unlocked based on the signal from the door lock motor and door unlock detection SW, and sends a signal to switch the condition from lock to unlock or vice versa, causing the door lock motor to operate.

2. Visual Confirmation of Lock or Unlock

If all doors indicate that they are locked after the lock command, parking lights and hazard lights will flash once. If any door indicates that it is open after the unlock command, parking lights and hazard lights will flash twice.

3. Wireless Door Unlock Operation

Pushing the unlock button (Transmitter) once, driver's door is unlocked. Furthermore, pushing the button again within 3 seconds, the other doors are unlocked.

4. Automatic Lock Operation

With the ignition key not inserted into the ignition key cylinder (Unlock warning SW off) and all the doors completely closed, after pushing the button (Transmitter) to unlock all the doors, if a door is not opened within 30 seconds, all the doors will be automatically relocked.

5. Wireless Control Stop Function

If a door is open (Door courtesy SW on), a signal is input from the door courtesy SW to the door lock control relay stopping wireless door lock or unlock.
If the ignition key is in the ignition key cylinder (Unlock warning SW on), the unlock warning SW inputs a signal to the door lock control relay stopping wireless door lock or unlock.

6. Repeat Function

In case an appropriate lock detection signal is not received after outputting a lock signal when pushing the lock button (Transmitter), 2 seconds later, the door lock control relay output the lock signal again.

7. Remote Panic Operation

Panic will function when doors are locked or unlocked, open or closed. When the panic button (Transmitter) is pushed once, theft alarm sounds and headlights and hazard lights flash. Then, the panic or the unlock button (Transmitter) is pushed once more, sounding and flashing will stop. Panic will not function when ignition SW at ON.

○ : Parts Location

Code	See Page	Code	See Page	Code		See Page
B5	32	D10	32	I14		32
D3	30	D13	32	J4	A	31
D4	30	D14	32		B	31
D5	32	H1	28	J6	A	31
D6	32	H2	28	J7	B	31
D7	32	H4	28	J8		31
D8	32	H5	28	J10		32
D9	32	H6	30	U1		31

⬭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	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	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1H		
1J		
1L		
1M		
1O		
1P		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

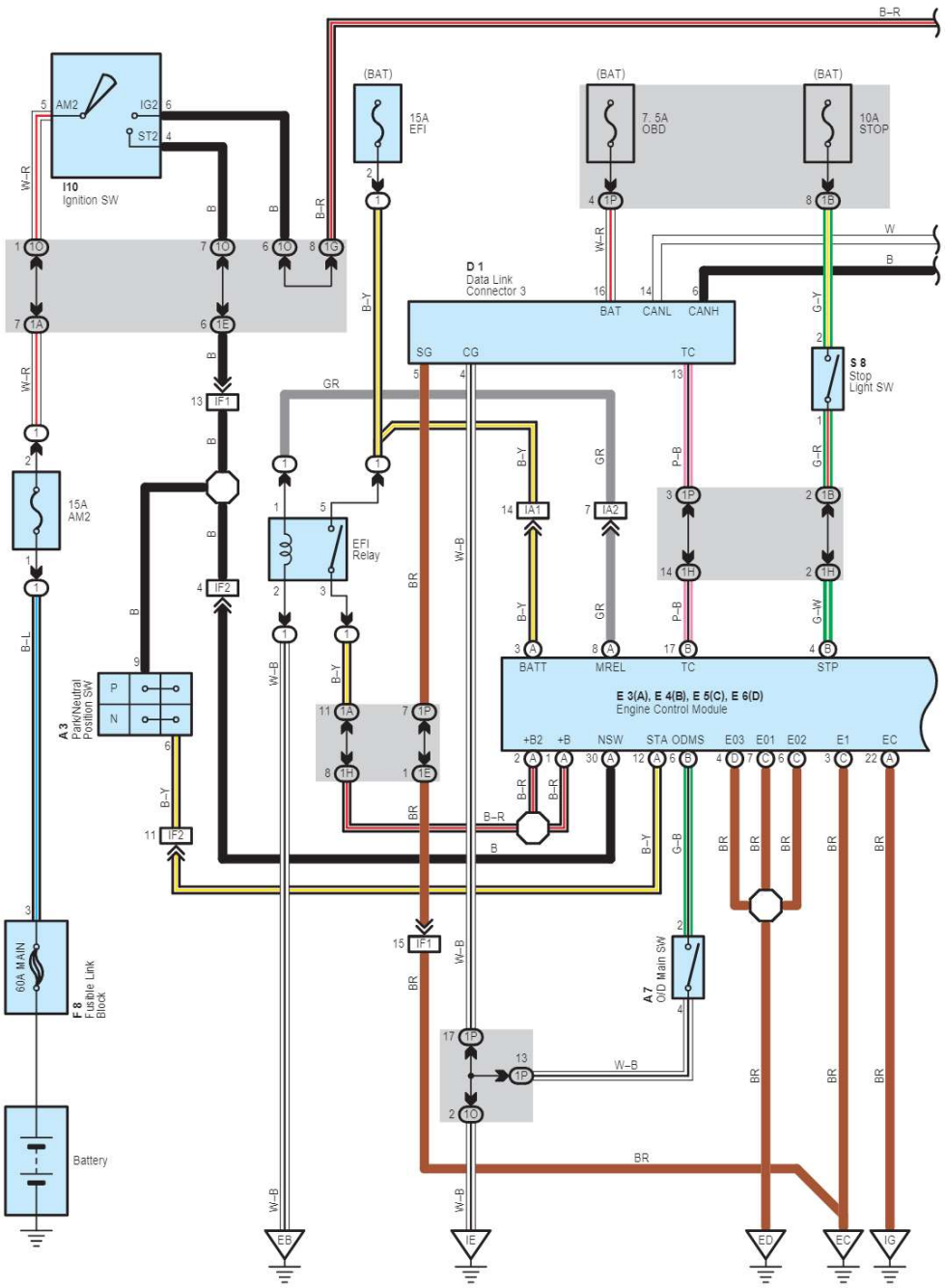
: **Connector Joining Wire Harness and Wire Harness**

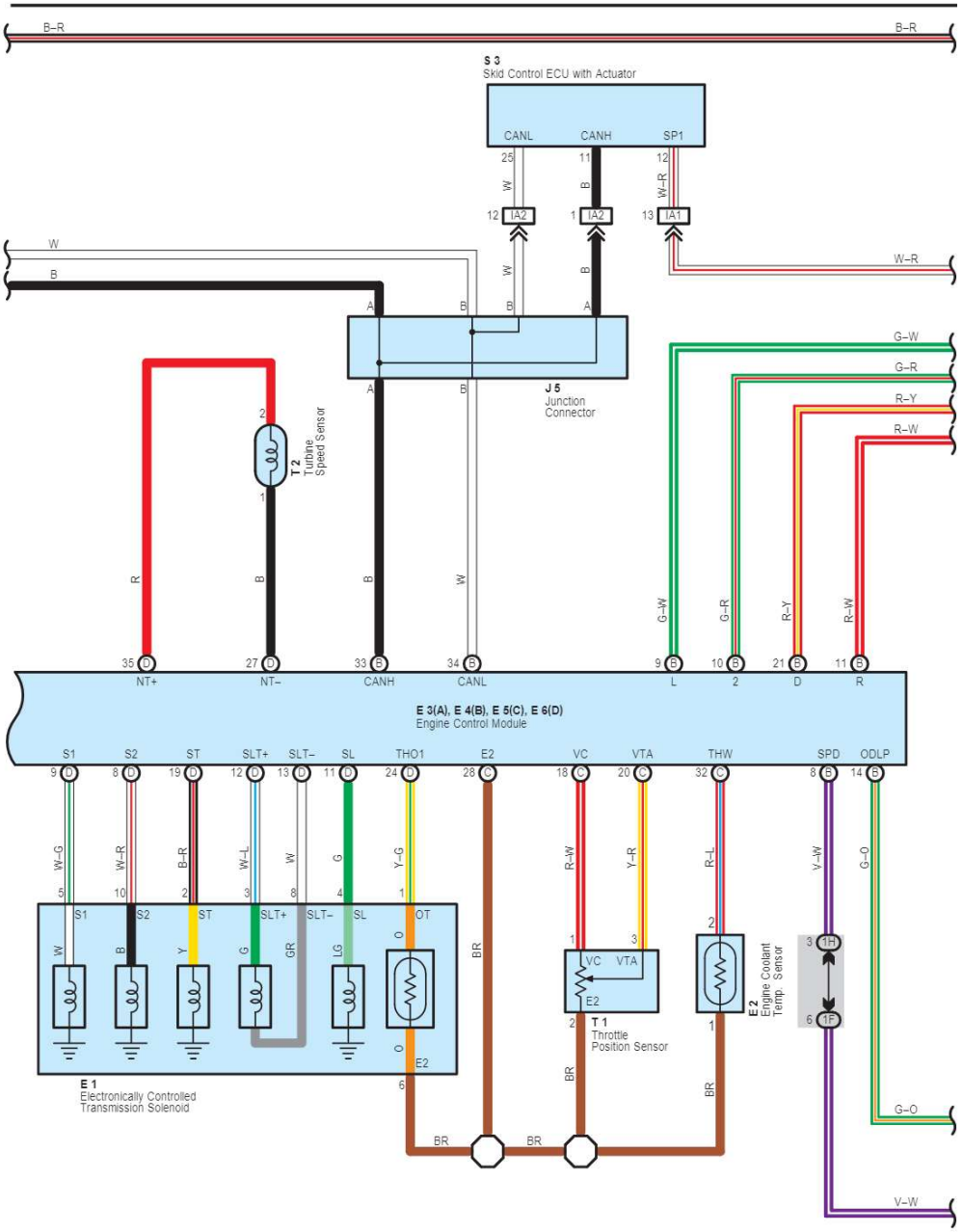
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IA2		
IB2	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IC1	35	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IC2		
IG1	35	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IG2		
BA1	36	Rear Door No.1 LH Wire and Floor Wire (Center Pillar LH)
BB1	36	Rear Door No.1 RH Wire and Floor Wire (Center Pillar RH)
BC1	36	Back Door No.1 Wire and Floor Wire (Right Rear Side Quarter Pillar)

: **Ground Points**

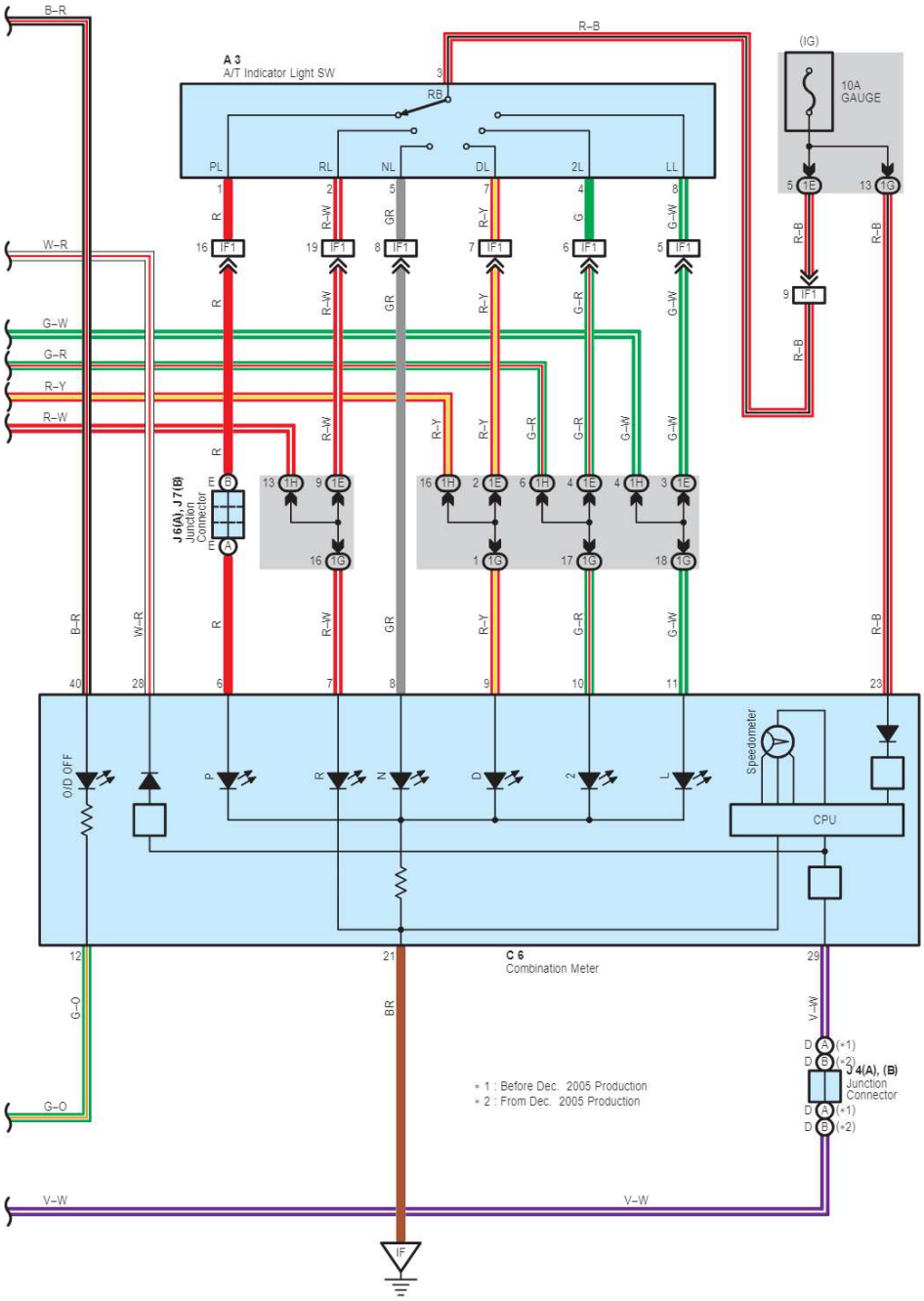
Code	See Page	Ground Points Location
IE	35	Left Kick Panel
IG	35	Right Kick Panel
BL	36	Back Door Center

ECT and A/T Indicator




B–R
B–R
S 3
Skid Control ECU with Actuator
CANL
CANH
SP1
25
11
12
W
B
W–R
12 IA2
1 IA2
13 IA1
W–R
W
B
J 5
Junction
Connector
G–W
G–R
R–Y
R–W
T 2
Turbine
Speed Sensor
2
1
R
B
B
W
G–W
G–R
R–Y
R–W
35 D
27 D
33 B
34 B
9 B
10 B
21 B
11 B
NT+
NT–
CANH
CANL
L
2
D
R
E 3(A), E 4(B), E 5(C), E 6(D)
Engine Control Module
S1
S2
ST
SLT+
SLT–
SL
THO1
E2
VC
VTA
THW
SPD
ODLP
9 D
8 D
19 D
12 D
13 D
11 D
24 D
28 C
18 C
20 C
32 C
8 B
14 B
W–G
W–R
B–R
W–L
W
G
Y–G
R–W
Y–R
R–L
V–W
G–O
5
10
2
3
8
4
1
S1
S2
ST
SLT+
SLT–
SL
OT
W
B
Y
G
GR
LG
O
BR
VC
VTA
E2
1
3
2
T 1
Throttle
Position Sensor
E 2
Engine Coolant
Temp. Sensor
3 TH
6 TF
E 1
Electronically Controlled
Transmission Solenoid
O
E2
6
BR
BR
BR
BR
G–O
V–W

ECT and A/T Indicator



System Outline

Previous automatic transaxle have selected each gear shift using the mechanically controlled throttle hydraulic pressure, governor hydraulic pressure and lock–up hydraulic pressure. The electronically controlled transmission, however, electrically controls the line pressure and lock–up pressure etc., through the solenoid valve. Engine control module controls each solenoid valve based on the input signals from each sensor, which makes smooth driving possible by shift selection for each gear that is most appropriate to the driving conditions at that time.

1. Gear Shift Operation

During driving, the engine control module selects the shift for each gear which is most appropriate to the driving conditions, based on input signals from the engine coolant temp. sensor to TERMINAL THW of the engine control module, and also the input signals to TERMINAL NT+ of the engine control module from the turbine speed sensor devoted to the direct clutch. Current is then output to the electronically controlled transmission solenoid. When shifting to 1st gear, current flows from TERMINAL S1 of the engine control module to TERMINAL 5 of the electronically controlled transmission solenoid to GROUND, and from TERMINAL S2 of the engine control module to TERMINAL 10 of the electronically controlled transmission solenoid to GROUND, and continuity to solenoids No.1 and No.2 causes the shift.
For the 2nd gear, current flows from TERMINAL S1 of the engine control module to TERMINAL 5 of the electronically controlled transmission solenoid to GROUND, and continuity to the solenoid No.1 causes the shift.
For the 3rd gear, there is no continuity to either No.1 or No.2 solenoid.
Shifting into 4th gear (Overdrive) takes place when current flows from TERMINAL S2 of the engine control module to TERMINAL 10 of the electronically controlled transmission solenoid to GROUND, and continuity to the solenoid No.2 causes the shift.

2. Lock–Up Operation

When the engine control module judges from each signal that lock–up operation conditions have been met, current flows from TERMINAL SL of the engine control module to TERMINAL 4 of the electronically controlled transmission solenoid to GROUND, causing continuity to the lock–up solenoid and causing lock–up operation.

3. Clutch Pressure Control

The electronically controlled transmission solenoid is controlled by the current from TERMINAL SL of the engine control module, and controls the accumulator hydraulic pressure.
As a result, the clutch to hydraulic pressure is adjusted precisely, and allows stable shift change.

4. Line Pressure Control

The electronically controlled transmission solenoid is controlled by the current from TERMINAL SLT+ of the engine control module, and controls the throttle hydraulic pressure.
As a result, the line pressure can be controlled precisely, and the to hydraulic pressure is adjusted according to the shift change condition, and allows smooth shift change.

5. Shifting Control in Uphill/Downhill Traveling

This system determines whether the vehicle is traveling on an incline or decline from the throttle opening angle, vehicle acceleration condition and brake pedal operation, and controls the shift up to O/D to allow smooth driving.

6. Clutch to Clutch Control

When shifting from the 3rd gear to the 4th gear, the current from the engine control module TERMINAL ST controls the electronically controlled transmission solenoid, to control the drain orifice hydraulic pressure (Switch orifice). The electronically controlled transmission solenoid is also controlled by the current from the engine control module TERMINAL SLT+, to adjust the hydraulic pressure precisely, which ensures smooth shifting.

7. Stop Light SW Circuit

If the brake pedal is depressed (Stop light SW on) when driving in lock–up condition, a signal is input to TERMINAL STP of the engine control module, the engine control module operates and continuity to the lock–up solenoid is cut.

8. Overdrive Circuit

* Overdrive on
  When the engine is turned on from ignition off, the engine control module turns the O/D on. When the O/D main SW is pushed while the O/D is off, a signal is input into TERMINAL ODMS of the engine control module, and the O/D is turned on by the engine control module. In this case, the engine control module controls the gear shift according to the vehicle's driving condition, using the O/D range. At this time, the O/D off indicator light is off.
* Overdrive off
  When the O/D main SW is pushed while the O/D is on, a signal is input into TERMINAL ODMS of the engine control module, and the O/D is turned off. At this time, the current flows through the O/D off indicator light to TERMINAL ODLP of the engine control module. As a result, the O/D off indicator light turns on, and the engine control module controls the gear shift according to the vehicle's driving condition, without using the O/D range.

ECT and A/T Indicator

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	28	E4 B	30	J5	31
A7	30	E5 C	30	J6 A	31
C6	30	E6 D	30	J7 B	31
D1	30	F8	28	S3	29
E1	28	I10	30	S8	31
E2	28	J4 A	31	T1	29
E3 A	30	J4 B	31	T2	29

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

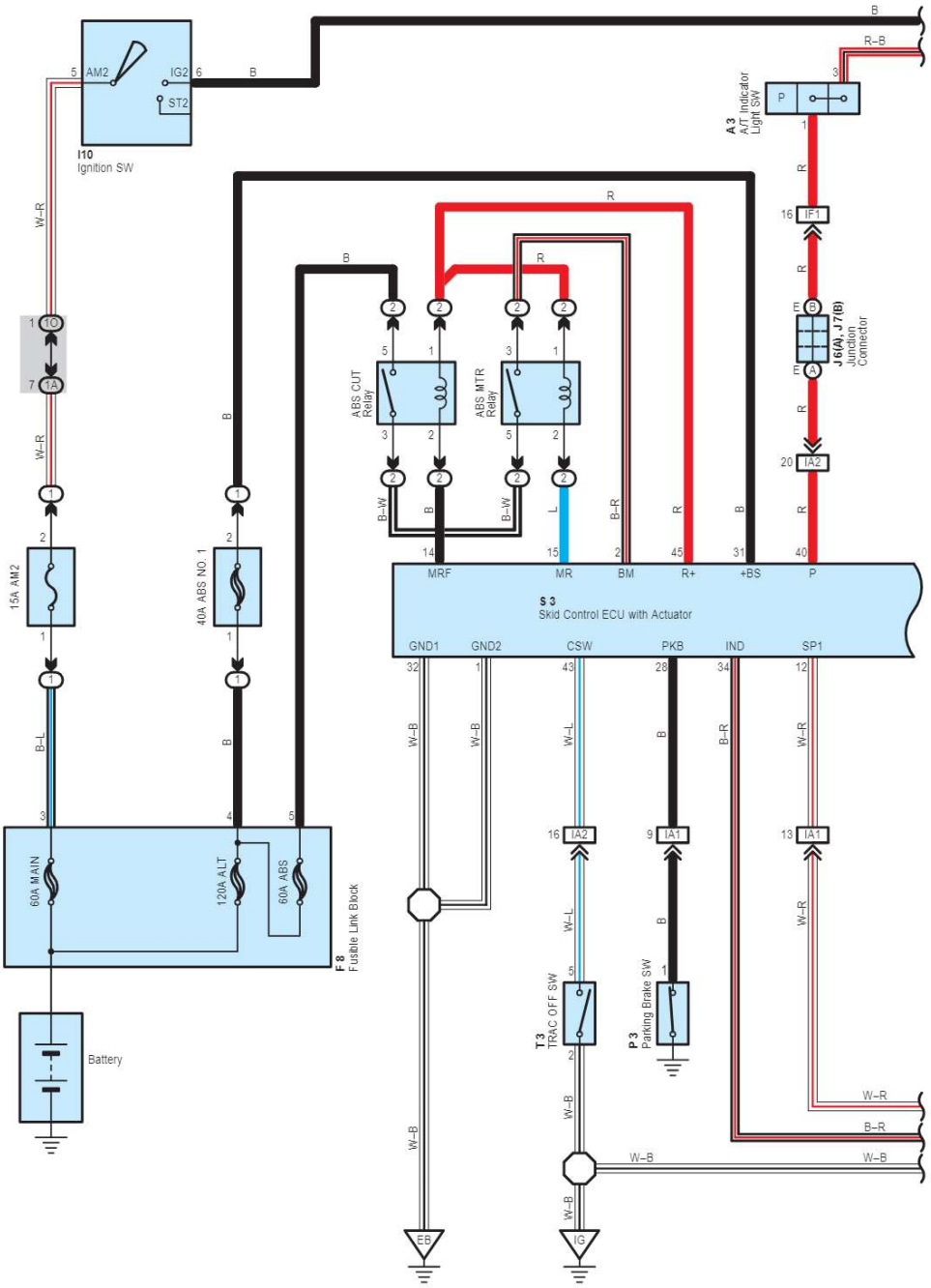
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1E	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1G		
1H		
1O		
1P		

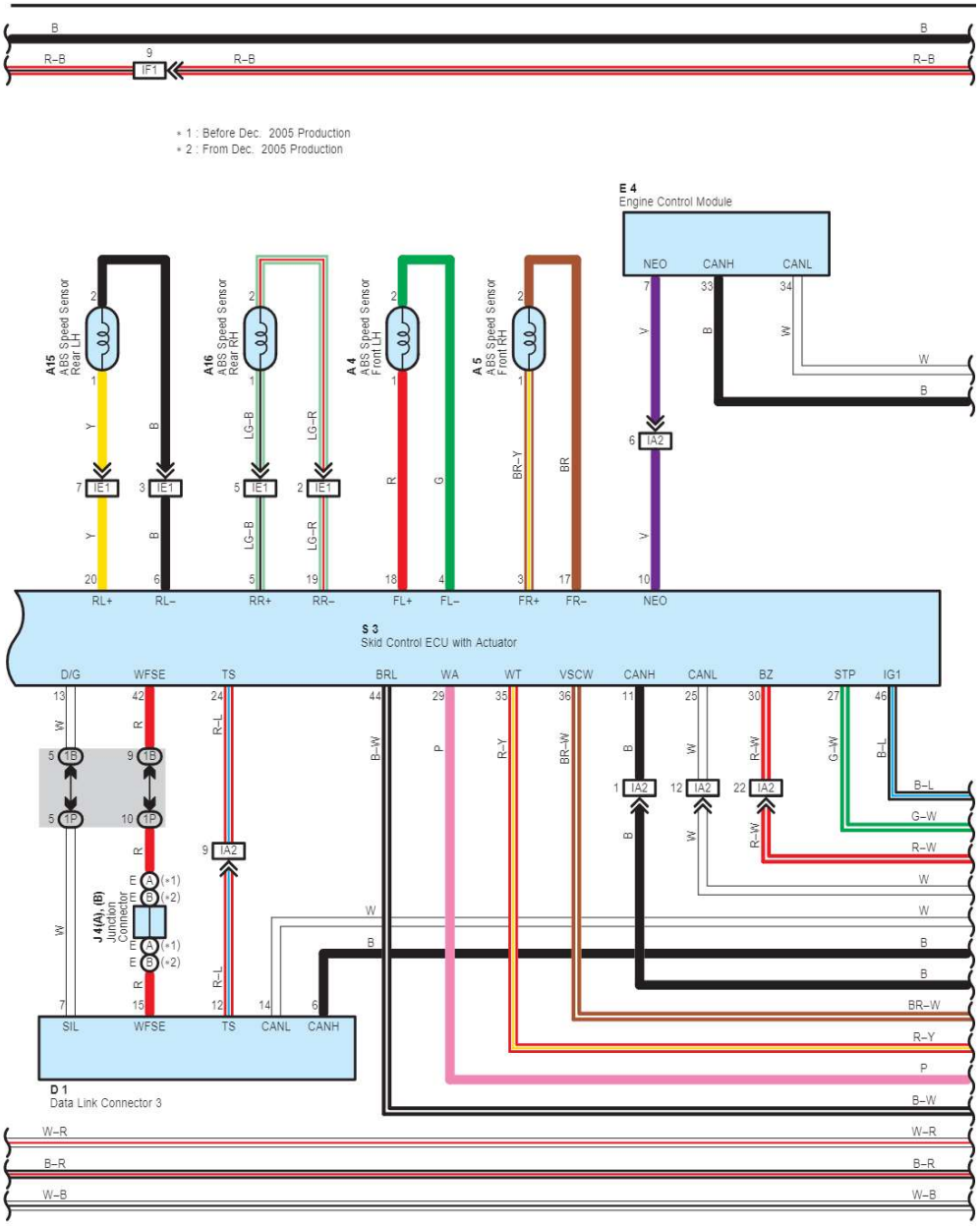
: Connector Joining Wire Harness and Wire Harness

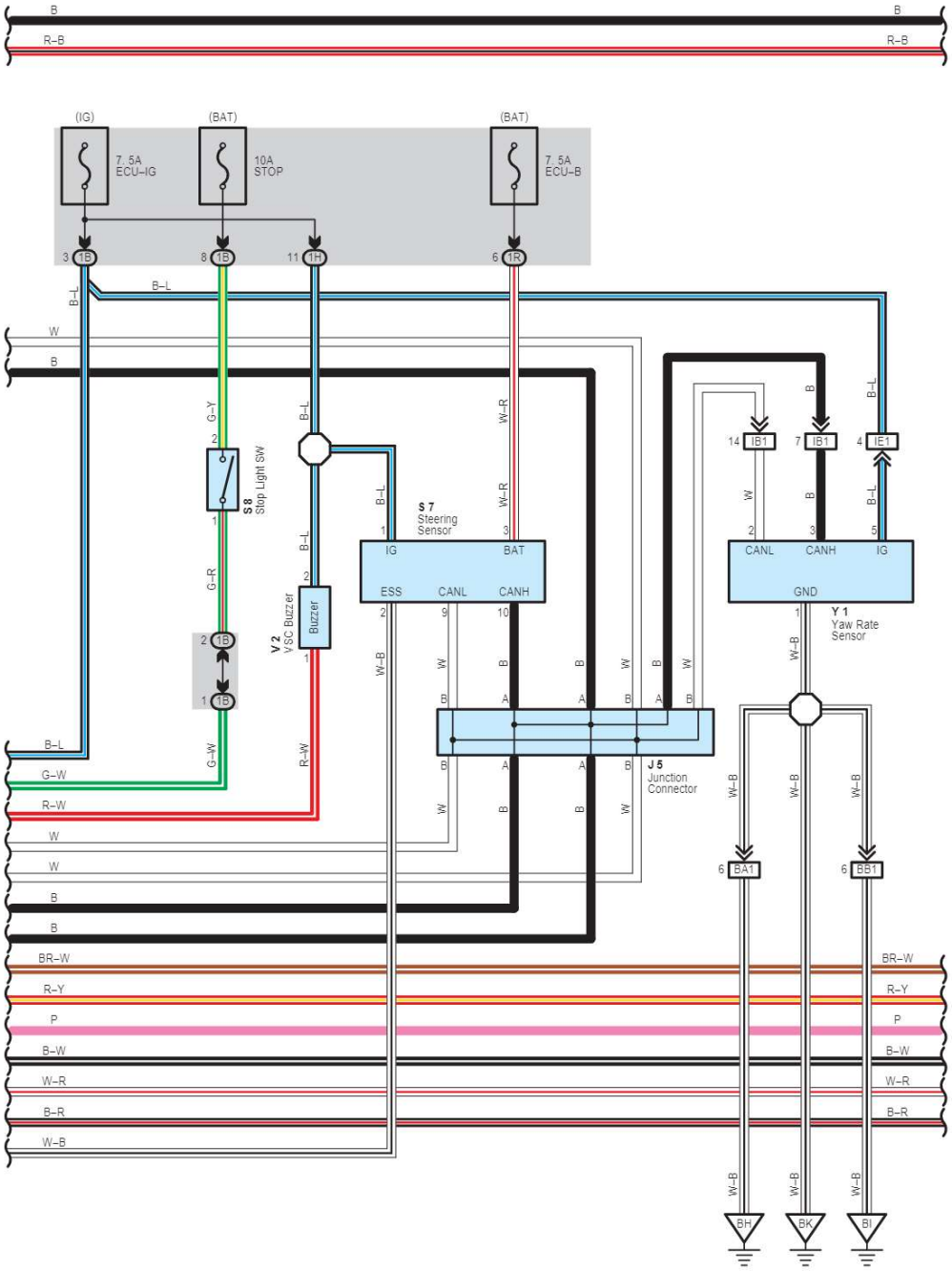
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IA2		
IF1	35	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IF2		

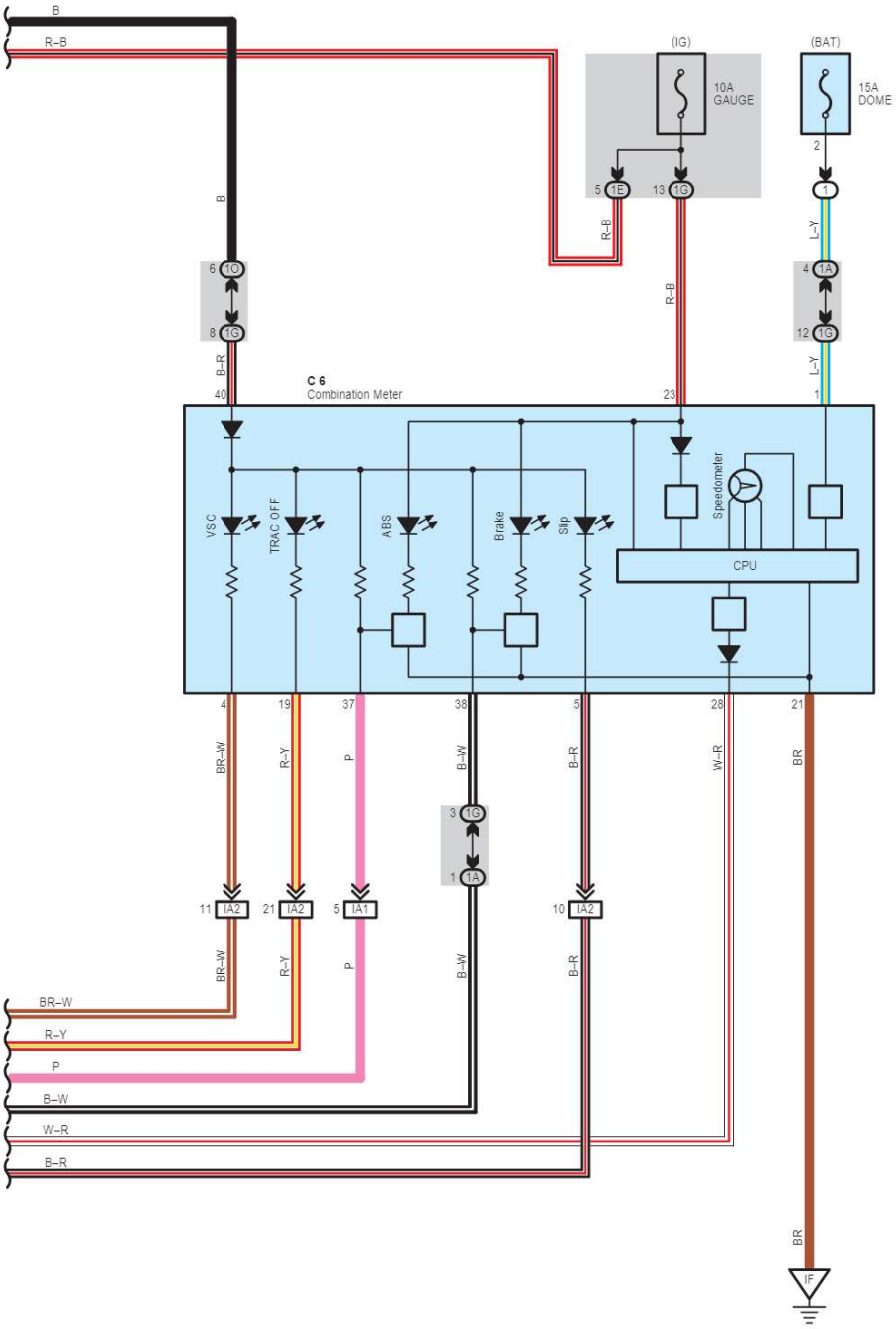
: Ground Points

Code	See Page	Ground Points Location
EB	34	Front Left Fender Apron
EC	34	Engine Block
ED		
IE	35	Left Kick Panel
IF	35	Instrument Panel Brace LH
IG	35	Right Kick Panel


I10
Ignition SW
AM2
IG2
ST2
A3
A/T Indicator
Light SW
J6(A), J7(B)
Junction
Connector
ABS CUT
Relay
ABS MTR
Relay
15A AM2
40A ABS NO. 1
60A MAIN
120A ALT
60A ABS
F8
Fusible Link Block
Battery
S3
Skid Control ECU with Actuator
MRF
MR
BM
R+
+BS
P
GND1
GND2
CSW
PKB
IND
SP1
T3
TRAC OFF SW
P3
Parking Brake SW
EB
IG


B
R–B
9
1F1
R–B
B
R–B
* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
E 4
Engine Control Module
NEO
CANH
CANL
A15
ABS Speed Sensor
Rear LH
A16
ABS Speed Sensor
Rear RH
A 4
ABS Speed Sensor
Front LH
A 5
ABS Speed Sensor
Front RH
RL+
RL–
RR+
RR–
FL+
FL–
FR+
FR–
NEO
S 3
Skid Control ECU with Actuator
D/G
WFSE
TS
BRL
WA
WT
VSCW
CANH
CANL
BZ
STP
IG1
J4(A), (B)
Junction
Connector
SIL
WFSE
TS
CANL
CANH
D 1
Data Link Connector 3
W–R
B–R
W–B


(IG)
(BAT)
(BAT)
7.5A ECU-IG
10A STOP
7.5A ECU-B
S8 Stop Light SW
S7 Steering Sensor
V2 VSC Buzzer
Buzzer
J5 Junction Connector
Y1 Yaw Rate Sensor
IG
BAT
ESS
CANL
CANH
GND
B
R-B
B-L
W
G-Y
G-R
G-W
R-W
W-R
W-B
BR-W
R-Y
P
B-W
B-R


B
R–B
(IG)
(BAT)
10A
GAUGE
15A
DOME
2
5 1E
13 1G
R–B
B
L–Y
6 1O
8 1G
4 1A
12 1G
B–R
L–Y
C 6
Combination Meter
40
23
1
VSC
TRAC OFF
ABS
Brake
Slip
Speedometer
CPU
4
19
37
38
5
28
21
BR–W
R–Y
P
B–W
B–R
W–R
BR
3 1G
1 1A
11 IA2
21 IA2
5 IA1
10 IA2
BR–W
R–Y
P
B–W
B–R
BR
IF
BR–W
R–Y
P
B–W
W–R
B–R

System Outline

1. ABS Operation

If the brake pedal is depressed suddenly, the ABS controls the hydraulic pressure of the wheel cylinders for all the four wheels to automatically avoid wheel locking and ensure the directional and steering stability of the vehicle. If the brake pedal is depressed suddenly, the skid control ECU with actuator 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 with actuator detects that the fluid pressure in the wheel cylinder is insufficient, the skid control ECU with actuator controls the solenoids in the actuators to increase the braking pressure.

2. Traction Control Operation

The traction control system controls the engine torque, the hydraulic pressure of the driving wheel cylinders, slipping of the wheels which may occur at start or acceleration of the vehicle, to ensure an optimal driving power and vehicle stability corresponding to the road conditions.

3. VSC Operation

Unexpected road conditions, vehicle speed, emergency situation, and any other external factors may cause large under– or over–steering of the vehicle. If this occurs, the VSC system automatically controls the engine 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 engine power and activates the rear wheel brakes to reduce the under–steering.

TRAC OFF SW

The traction control SW is used to stop the TRAC function. After the engine is started, the TRAC system is stopped (turned off) and the TRAC OFF indicator light lights up. When the TRAC OFF SW is pressed again, the TRAC system enters the stand–by mode. If the engine is stopped and restarted, the TRAC system enters the stand–by mode regardless of the traction control SW.

VSC system cannot cut off by using TRAC OFF SW.

4. Mutual System Control

To efficiently operate the VSC system at its optimal level, the VSC system and other control systems are mutually controlled while the VSC system is being operated.

Engine throttle control

The engine power does not interfere with the VSC brake control by controlling the opening of the throttle and reducing the engine output.

Engine control and electronically controlled transmission control

The strong braking force does not interfere with the braking force control of the VSC system by turning off the accel. and reducing changes in the driving torque at shift–down.

VSC system operation indication

The Slip indicator light flashes and the buzzer sounds intermittently to warn the driver that the current road is slippery, while the VSC system is being operated.

5. Fail Safe Function

If an error occurs in the skid control ECU with actuator, sensor signals, and/or actuators, the skid control ECU with actuator inhibits the brake actuator control and inputs the error signal to the engine control module. According to the error signal, the brake actuator turns off the solenoid and the engine control module rejects any electronically controlled throttle open request from the VSC system. As a result, the vehicle functions regardless of the ABS, TRAC, and VSC systems.

○ : **Parts Location**

Code	See Page	Code		See Page	Code	See Page
A3	28	F8		28	S3	29
A4	28	I10		30	S7	31
A5	28	J4	A	31	S8	31
A15	32		B	31	T3	31
A16	32	J5		31	V2	31
C6	30	J6	A	31	Y1	31
D1	30	J7	B	31		
E4	30	P3		31		

: **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)
2	23	ABS R/B (Engine Compartment Right)

: **Junction Block and Wire Harness Connector**

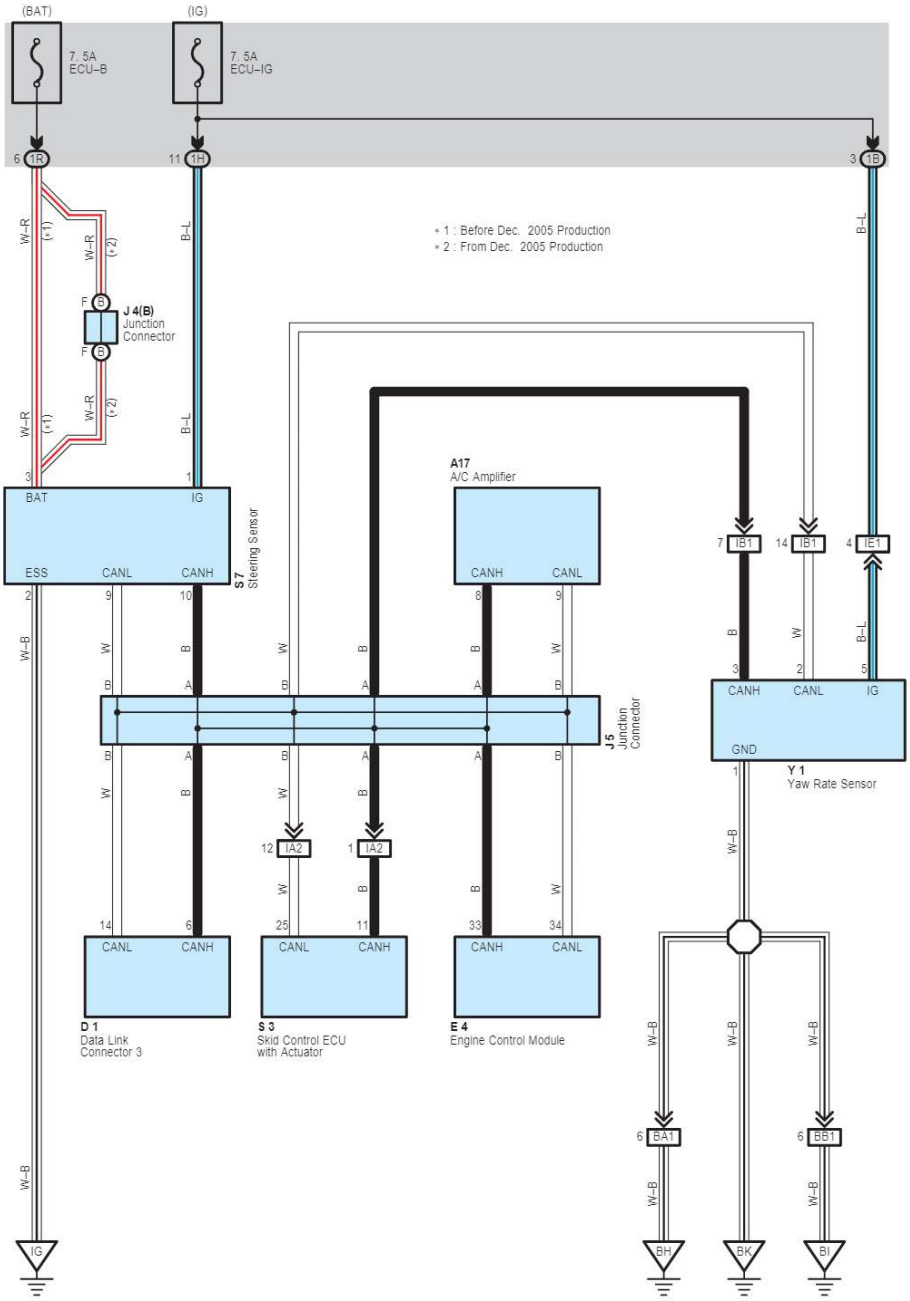
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1E	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1O		
1P		
1R		

: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IA2		
IB1	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IE1	35	Engine Room Main Wire and Floor Wire (Left Side of Cowl Panel)
IF1	35	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
BA1	36	Rear Door No.1 LH Wire and Floor Wire (Center Pillar LH)
BB1	36	Rear Door No.1 RH Wire and Floor Wire (Center Pillar RH)

: **Ground Points**

Code	See Page	Ground Points Location
EB	34	Front Left Fender Apron
IF	35	Instrument Panel Brace LH
IG	35	Right Kick Panel
BH	36	Rear Door LH
BI	36	Rear Door RH
BK	36	Rear Quarter Panel Inner RH


(BAT)
(IG)
7. 5A
ECU–B
7. 5A
ECU–IG
6 1R
11 1H
3 1B
* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
W–R (*1)
W–R (*2)
B–L
J 4(B)
Junction
Connector
A17
A/C Amplifier
BAT
IG
ESS
CANL
CANH
S 7
Steering Sensor
IB1
IE1
GND
Y 1
Yaw Rate Sensor
J5
Junction
Connector
IA2
D 1
Data Link
Connector 3
S 3
Skid Control ECU
with Actuator
E 4
Engine Control Module
W–B
BA1
BB1
BH
BK
BI
IG

System Outline

Multiplex communication system (CAN) uses a serial communication protocol and communicates with a differential voltage. In this network system, TERMINALS CANH and CANL are used for communication between the ECUs and sensors, and excellent data communication speed and communication error detecting facility are provided.

This system is working for the following systems:
- ABS
- Air Conditioning
- Electronically Controlled Transmission and A/T Indicator
- Engine Control
- TRAC
- VSC

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A17	30	J4 B	31	S7	31
D1	30	J5	31	Y1	31
E4	30	S3	29		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1H	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1R		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IB1	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IE1	35	Engine Room Main Wire and Floor Wire (Left Side of Cowl Panel)
BA1	36	Rear Door No.1 LH Wire and Floor Wire (Center Pillar LH)
BB1	36	Rear Door No.1 RH Wire and Floor Wire (Center Pillar RH)

: Ground Points

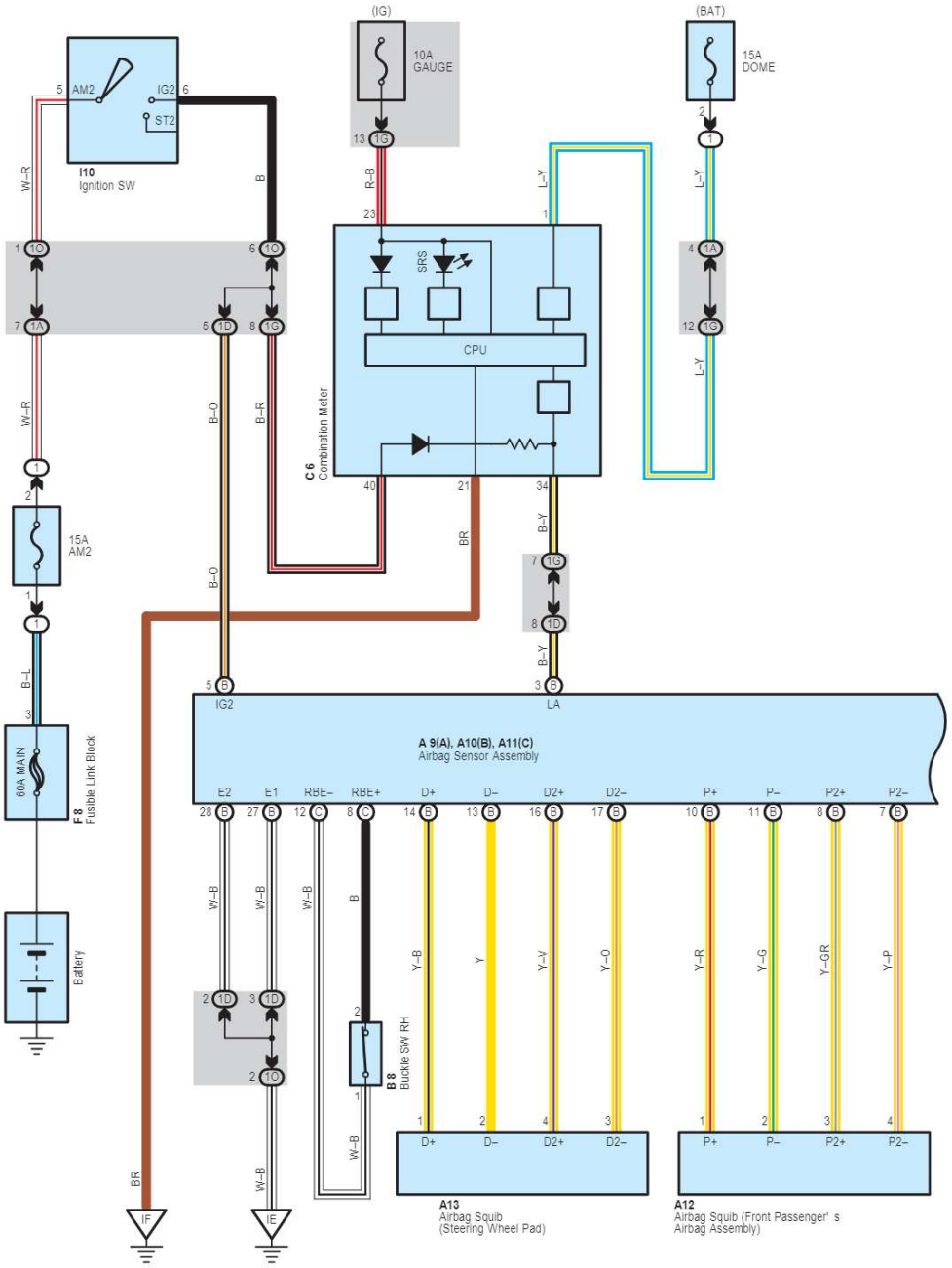
Code	See Page	Ground Points Location
IG	35	Right Kick Panel
BH	36	Rear Door LH
BI	36	Rear Door RH
BK	36	Rear Quarter Panel Inner RH

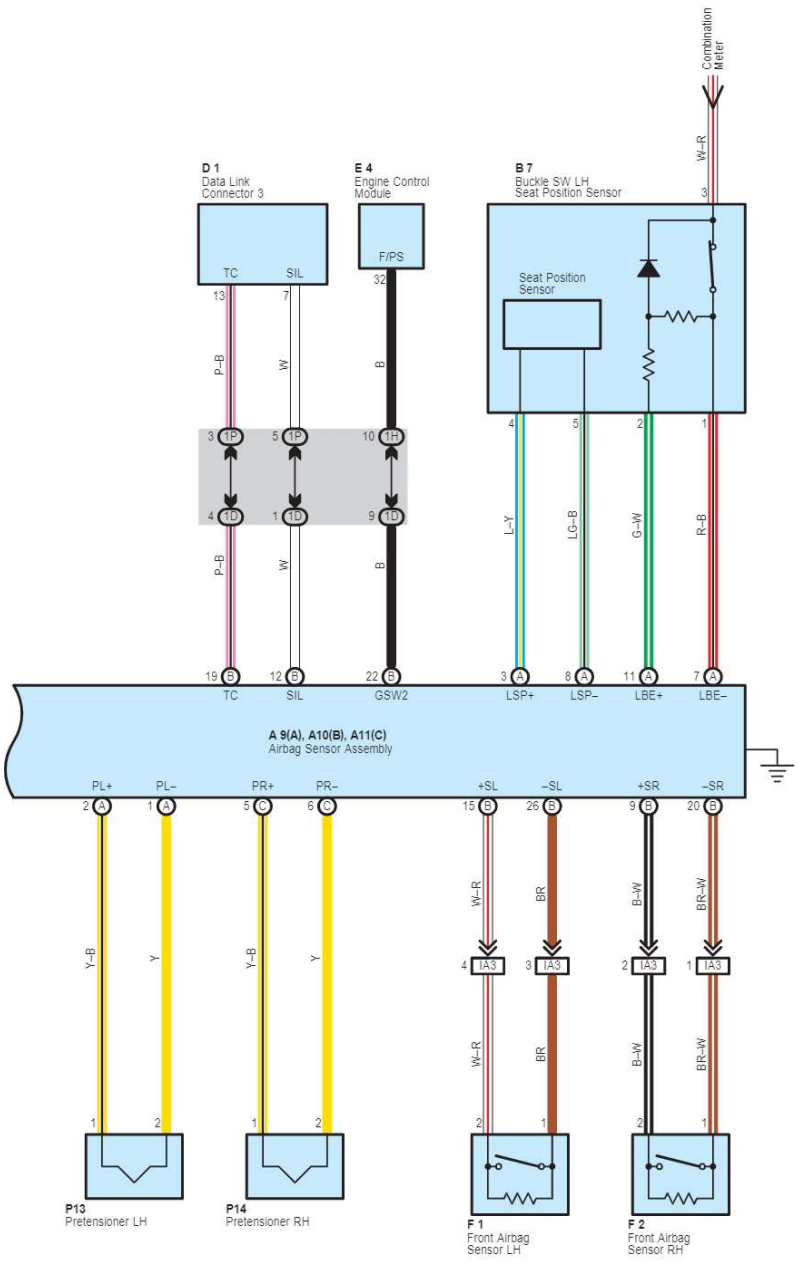
Memo

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 ignition SW is turned 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
* Seat belt pretensioner
* Center airbag sensor assembly
* Front airbag sensor assembly


(IG)
(BAT)
10A
GAUGE
15A
DOME
AM2
IG2
ST2
I10
Ignition SW
W–R
B
R–B
L–Y
SRS
CPU
C 6
Combination Meter
B–O
B–R
BR
B–Y
15A
AM2
B–L
60A MAIN
F 8
Fusible Link Block
Battery
IG2
LA
A 9(A), A10(B), A11(C)
Airbag Sensor Assembly
E2
E1
RBE–
RBE+
D+
D–
D2+
D2–
P+
P–
P2+
P2–
W–B
Y–B
Y
Y–V
Y–O
Y–R
Y–G
Y–GR
Y–P
B 8
Buckle SW RH
IF
IE
A13
Airbag Squib
(Steering Wheel Pad)
A12
Airbag Squib (Front Passenger' s
Airbag Assembly)


Combination Meter
W–R
3
D 1
Data Link Connector 3
TC
SIL
13
7
P–B
W
3 1P
5 1P
4 1D
1 1D
P–B
W
19 B
12 B
TC
SIL
E 4
Engine Control Module
F/PS
32
B
10 1H
9 1D
B
22 B
GSW2
B 7
Buckle SW LH
Seat Position Sensor
Seat Position Sensor
4
5
2
1
L–Y
LG–B
G–W
R–B
3 A
8 A
11 A
7 A
LSP+
LSP–
LBE+
LBE–
A 9(A), A10(B), A11(C)
Airbag Sensor Assembly
PL+
PL–
PR+
PR–
+SL
–SL
+SR
–SR
2 A
1 A
5 C
6 C
15 B
26 B
9 B
20 B
Y–B
Y
Y–B
Y
W–R
BR
B–W
BR–W
4 IA3
3 IA3
2 IA3
1 IA3
W–R
BR
B–W
BR–W
1
2
1
2
2
1
2
1
P13
Pretensioner LH
P14
Pretensioner RH
F 1
Front Airbag Sensor LH
F 2
Front Airbag Sensor RH

SRS (Before Dec. 2005 Production)

System Outline

The SRS is a driver and front passenger protection device which has a supplemental role to the seat belts.
When the ignition SW is turned to ON, the current from the ignition SW flows to TERMINAL (B) 5 of the airbag sensor assembly.
If an accident occurs while driving, when the frontal impact exceeds a set level, the current from the ignition SW flows to TERMINALS (B) 14, (B) 16, (B) 10, (B) 8, (A) 2 and (C) 5 of the airbag sensor assembly to the airbag squibs and the pretensioners to TERMINALS (B) 13, (B) 17, (B) 11, (B) 7, (A) 1 and (C) 6 of the airbag sensor assembly to TERMINAL (B) 27, (B) 28 or BODY GROUND to GROUND, so that current flows to the airbag squibs and the pretensioners and causes them to operate.
The airbag stored inside the steering wheel pad is instantaneously expanded to soften the shock to the driver.
The airbag stored inside the passenger's instrument panel is instantaneously expanded to soften the shock to the front passenger.
The pretensioners make sure of the seat belt restrainability.

: Parts Location

Code		See Page	Code	See Page	Code	See Page
A9	A	30	B8	32	F8	28
A10	B	30	C6	30	I10	30
A11	C	30	D1	30	P13	33
A12		30	E4	30	P14	33
A13		30	F1	28		
B7		32	F2	28		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	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	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1O		
1P		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA3	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)

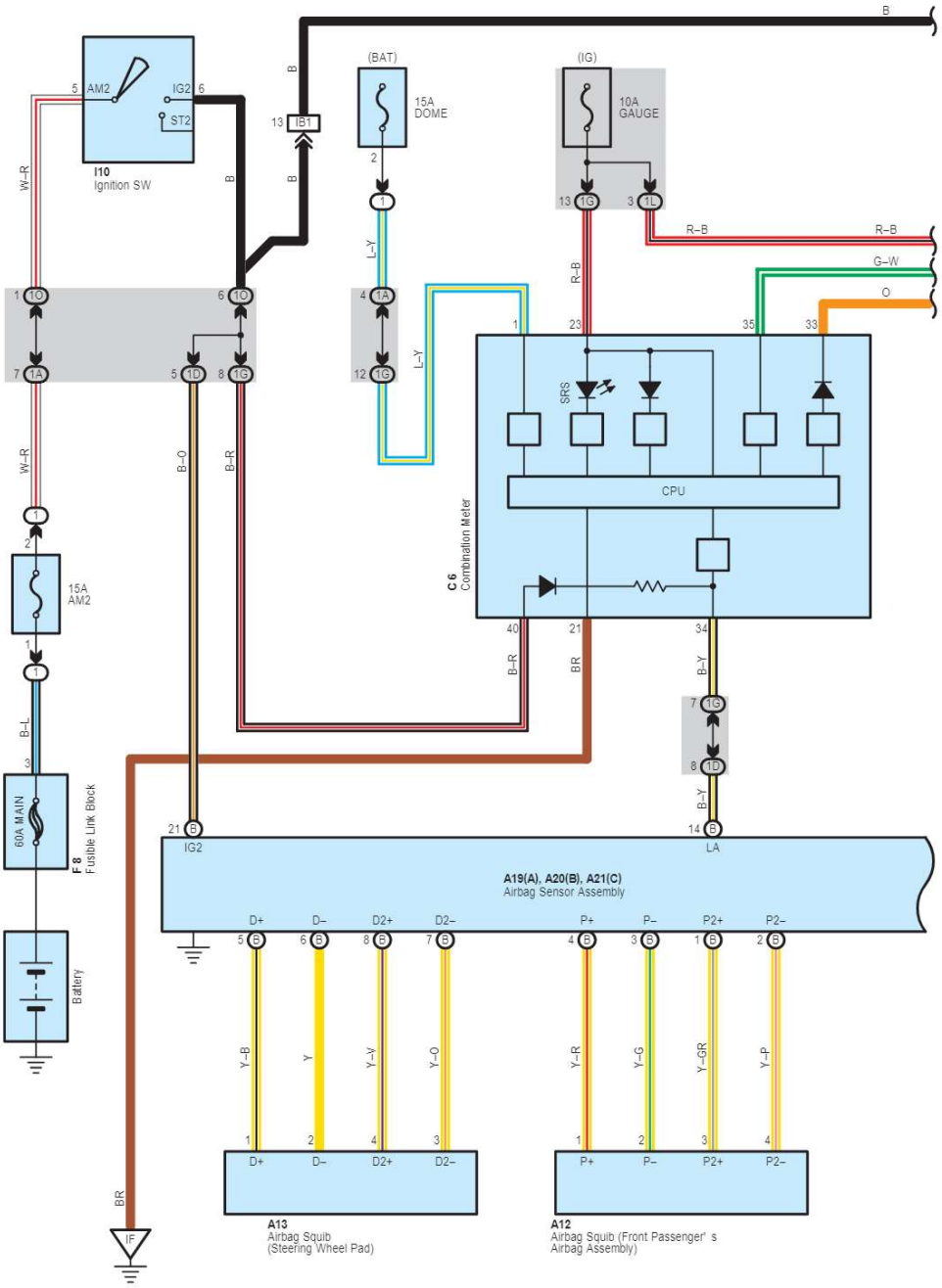
: Ground Points

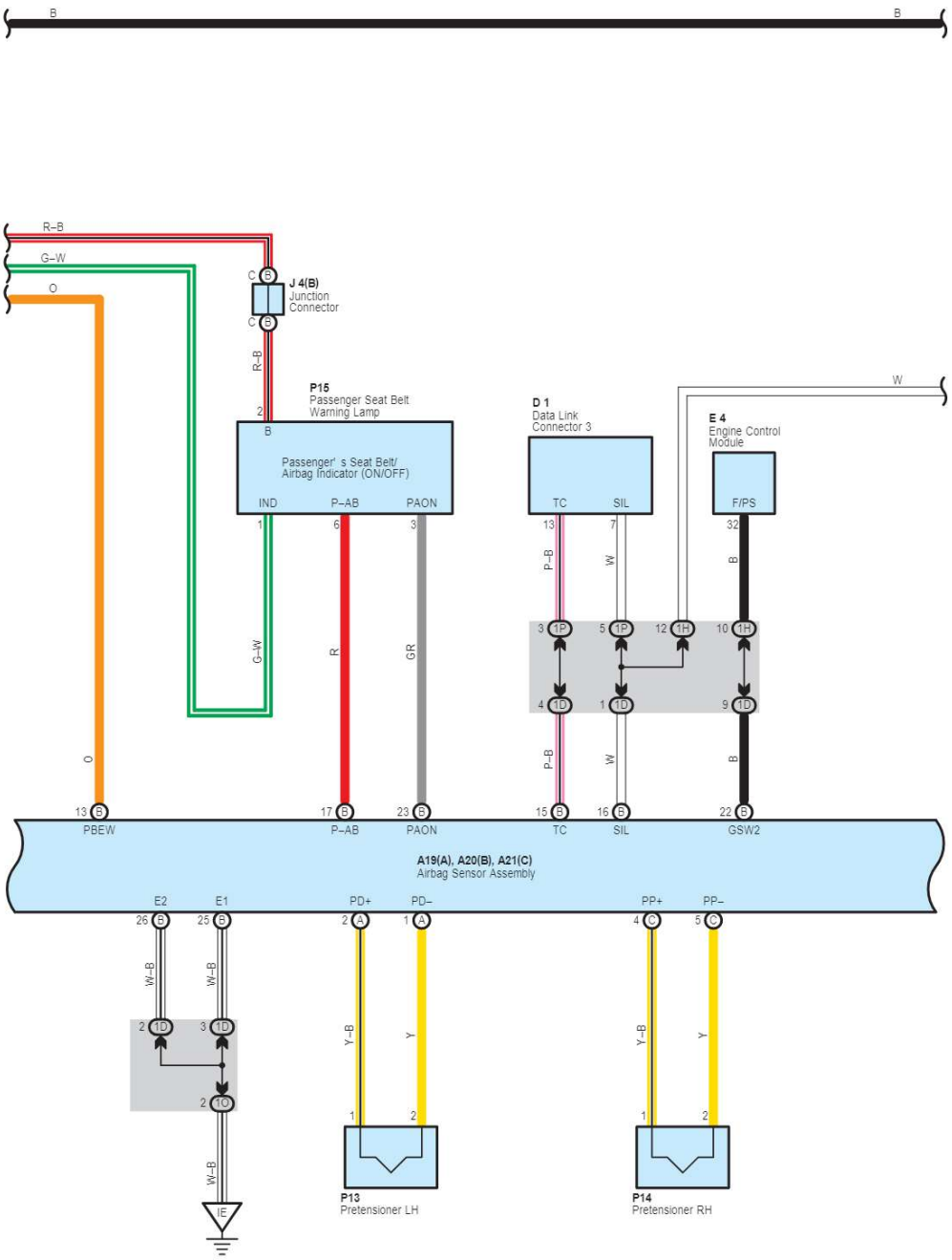
Code	See Page	Ground Points Location
IE	35	Left Kick Panel
IF	35	Instrument Panel Brace LH

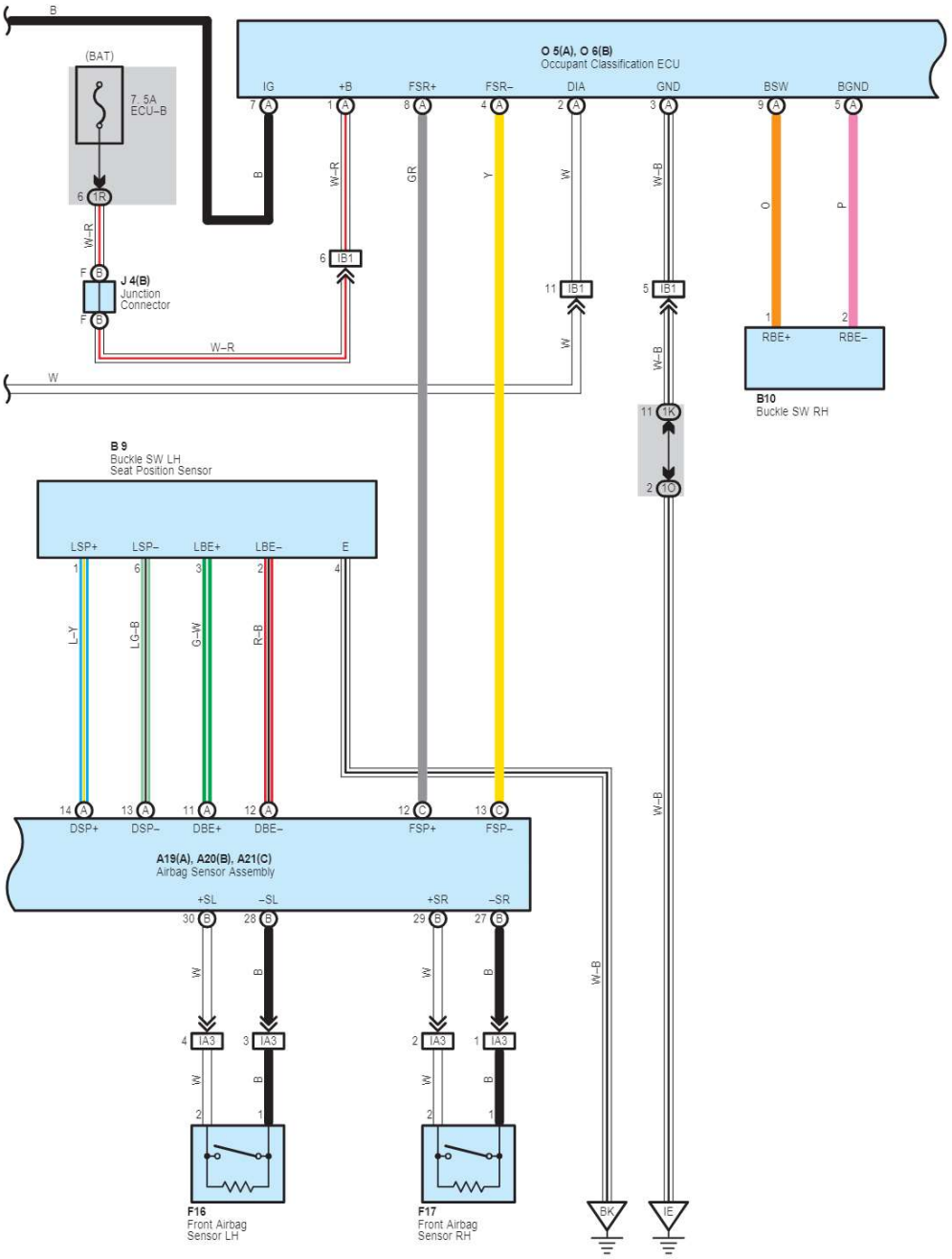
NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year.

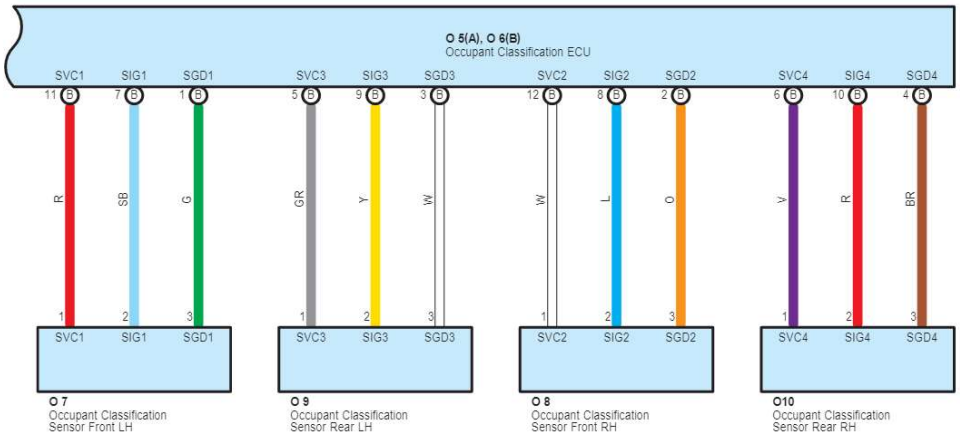
- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started more than 90 seconds after the ignition SW is turned 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
* Seat belt pretensioner
* Center airbag sensor assembly
* Front airbag sensor assembly


B
(BAT)
(IG)
15A
DOME
10A
GAUGE
I10
Ignition SW
AM2
IG2
ST2
IB1
W–R
L–Y
R–B
G–W
O
B–O
B–R
BR
B–Y
B–L
SRS
CPU
C6
Combination Meter
15A
AM2
60A MAIN
F8
Fusible Link Block
Battery
IG2
LA
A19(A), A20(B), A21(C)
Airbag Sensor Assembly
D+
D–
D2+
D2–
P+
P–
P2+
P2–
Y–B
Y
Y–V
Y–O
Y–R
Y–G
Y–GR
Y–P
A13
Airbag Squib
(Steering Wheel Pad)
A12
Airbag Squib (Front Passenger' s
Airbag Assembly)
IF


B
B
R–B
G–W
O
C B
J 4(B)
Junction Connector
C B
R–B
2
P15
Passenger Seat Belt Warning Lamp
B
Passenger' s Seat Belt/ Airbag Indicator (ON/OFF)
IND
P–AB
PAON
1
6
3
G–W
R
GR
D 1
Data Link Connector 3
TC
SIL
13
7
P–B
W
3 1P
5 1P
4 1D
1 1D
P–B
W
15 B
16 B
TC
SIL
W
E 4
Engine Control Module
F/PS
32
B
12 1H
10 1H
9 1D
B
22 B
GSW2
O
13 B
PBEW
17 B
P–AB
23 B
PAON
A19(A), A20(B), A21(C)
Airbag Sensor Assembly
E2
E1
PD+
PD–
PP+
PP–
26 B
25 B
2 A
1 A
4 C
5 C
W–B
W–B
Y–B
Y
Y–B
Y
2 1D
3 1D
2 1D
1
2
1
2
W–B
IE
P13
Pretensioner LH
P14
Pretensioner RH


B
(BAT)
7.5A
ECU–B
6 1R
W–R
F B
J 4(B)
Junction
Connector
F B
W–R
O 5(A), O 6(B)
Occupant Classification ECU
IG
+B
FSR+
FSR–
DIA
GND
BSW
BGND
7 A
1 A
8 A
4 A
2 A
3 A
9 A
5 A
B
W–R
GR
Y
W
W–B
O
P
6 IB1
11 IB1
5 IB1
1
2
RBE+
RBE–
B10
Buckle SW RH
W
W
W–B
11 1K
2 1G
B 9
Buckle SW LH
Seat Position Sensor
LSP+
LSP–
LBE+
LBE–
E
1
6
3
2
4
L–Y
LG–B
G–W
R–B
14 A
13 A
11 A
12 A
12 C
13 C
DSP+
DSP–
DBE+
DBE–
FSP+
FSP–
A19(A), A20(B), A21(C)
Airbag Sensor Assembly
+SL
–SL
+SR
–SR
30 B
28 B
29 B
27 B
W
B
W
B
W–B
4 IA3
3 IA3
2 IA3
1 IA3
W
B
W
B
2
1
2
1
F16
Front Airbag
Sensor LH
F17
Front Airbag
Sensor RH
BK
IE


O 5(A), O 6(B)
Occupant Classification ECU
SVC1
SIG1
SGD1
SVC3
SIG3
SGD3
SVC2
SIG2
SGD2
SVC4
SIG4
SGD4
11
7
1
5
9
3
12
8
2
6
10
4
R
SB
G
GR
Y
W
W
L
O
V
R
BR
1
2
3
O 7
Occupant Classification
Sensor Front LH
O 9
Occupant Classification
Sensor Rear LH
O 8
Occupant Classification
Sensor Front RH
O10
Occupant Classification
Sensor Rear RH

SRS (From Dec. 2005 Production)

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 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

Code	See Page	Code	See Page	Code	See Page
A12	30	D1	30	O6 B	33
A13	30	E4	30	O7	33
A19 A	30	F8	28	O8	33
A20 B	30	F16	28	O9	33
A21 C	30	F17	28	O10	33
B9	32	I10	30	P13	33
B10	32	J4 B	31	P14	33
C6	30	O5 A	33	P15	31

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	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	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1K		
1L		
1O		
1P		
1R		

: Connector Joining Wire Harness and Wire Harness

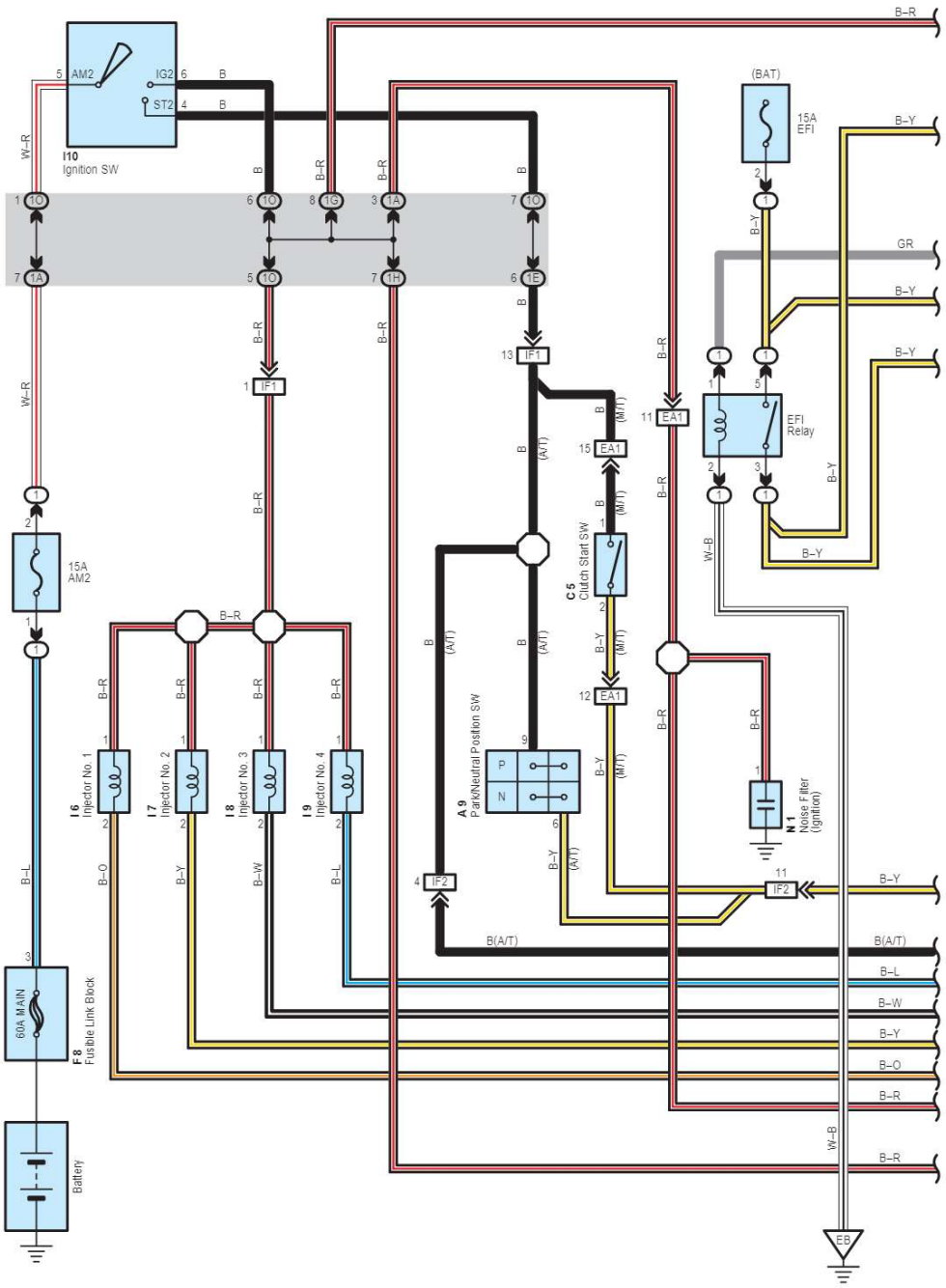
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA3	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IB1	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)

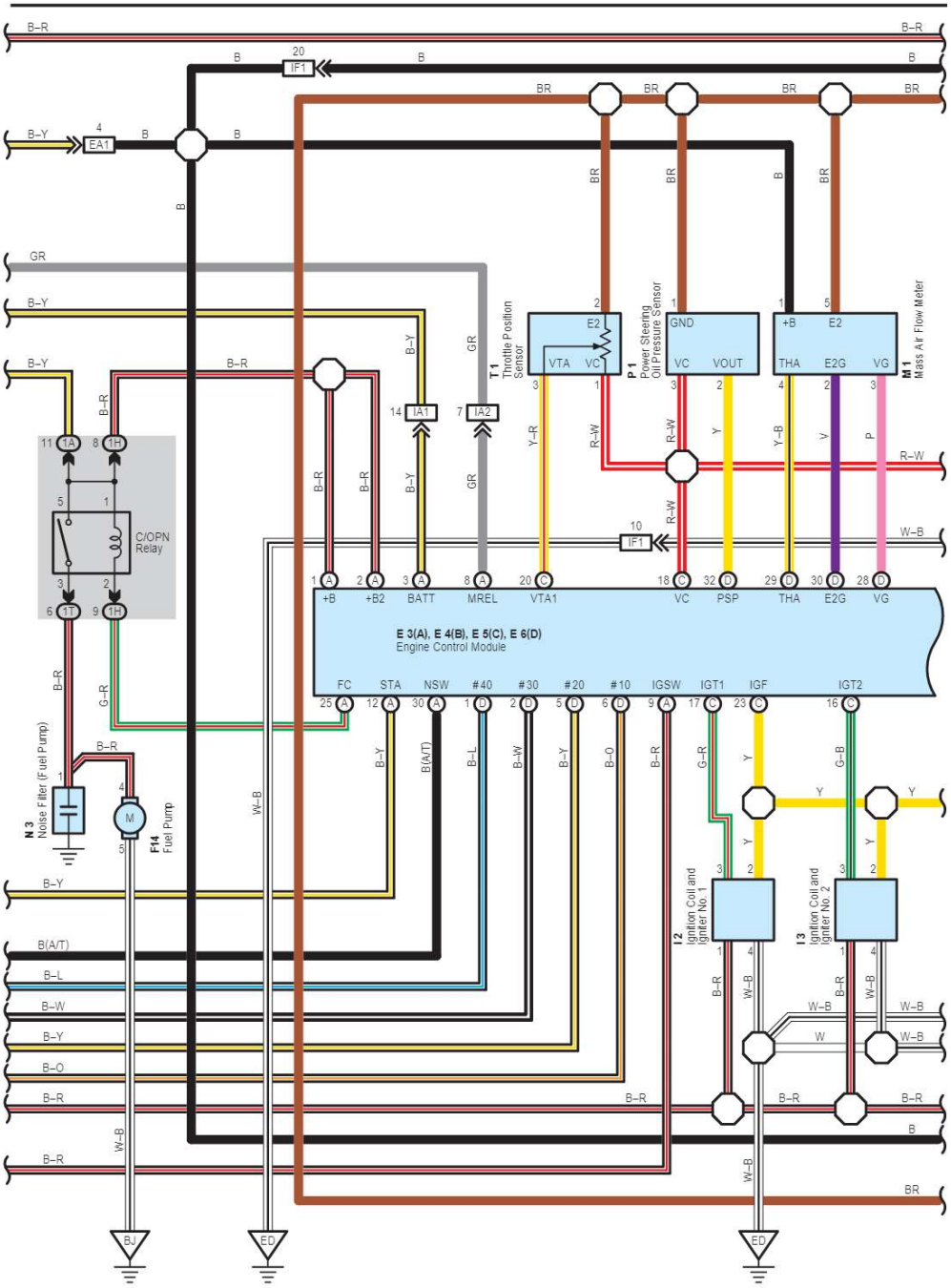
: Ground Points

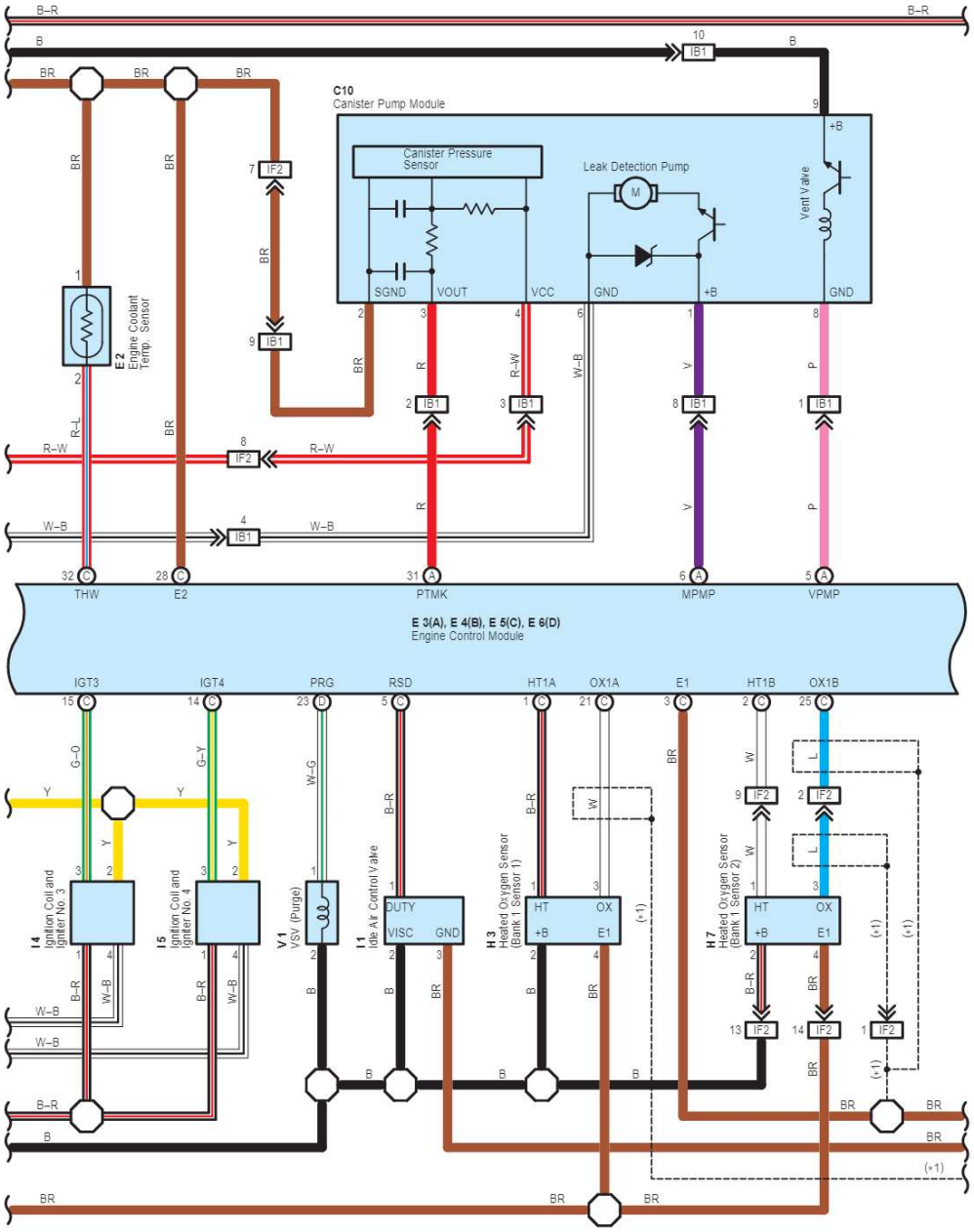
Code	See Page	Ground Points Location
IE	35	Left Kick Panel
IF	35	Instrument Panel Brace LH
BK	36	Rear Quarter Panel Inner RH

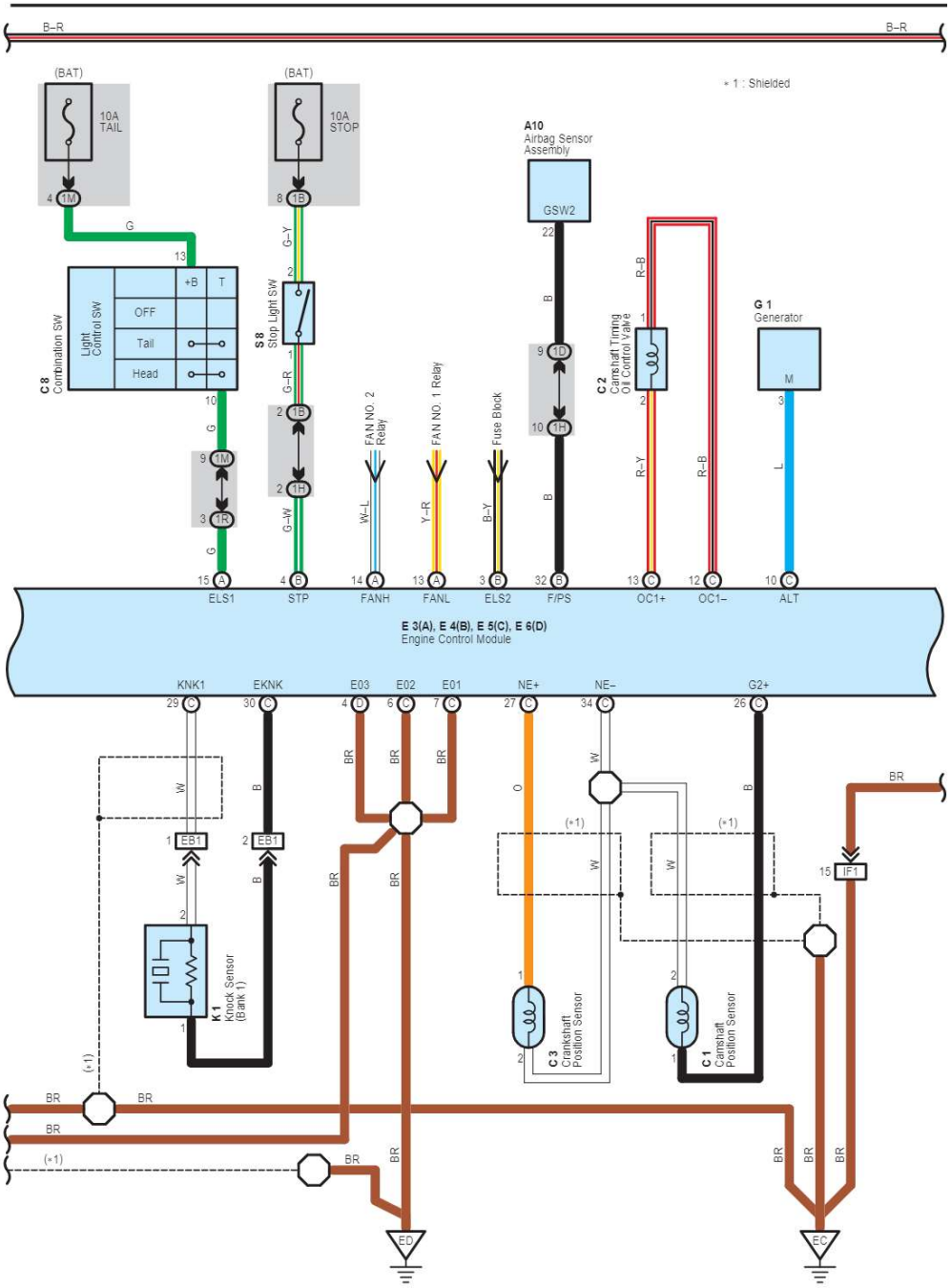
2006 xB
ELECTRICAL WIRING DIAGRAM
SYSTEM CIRCUITS

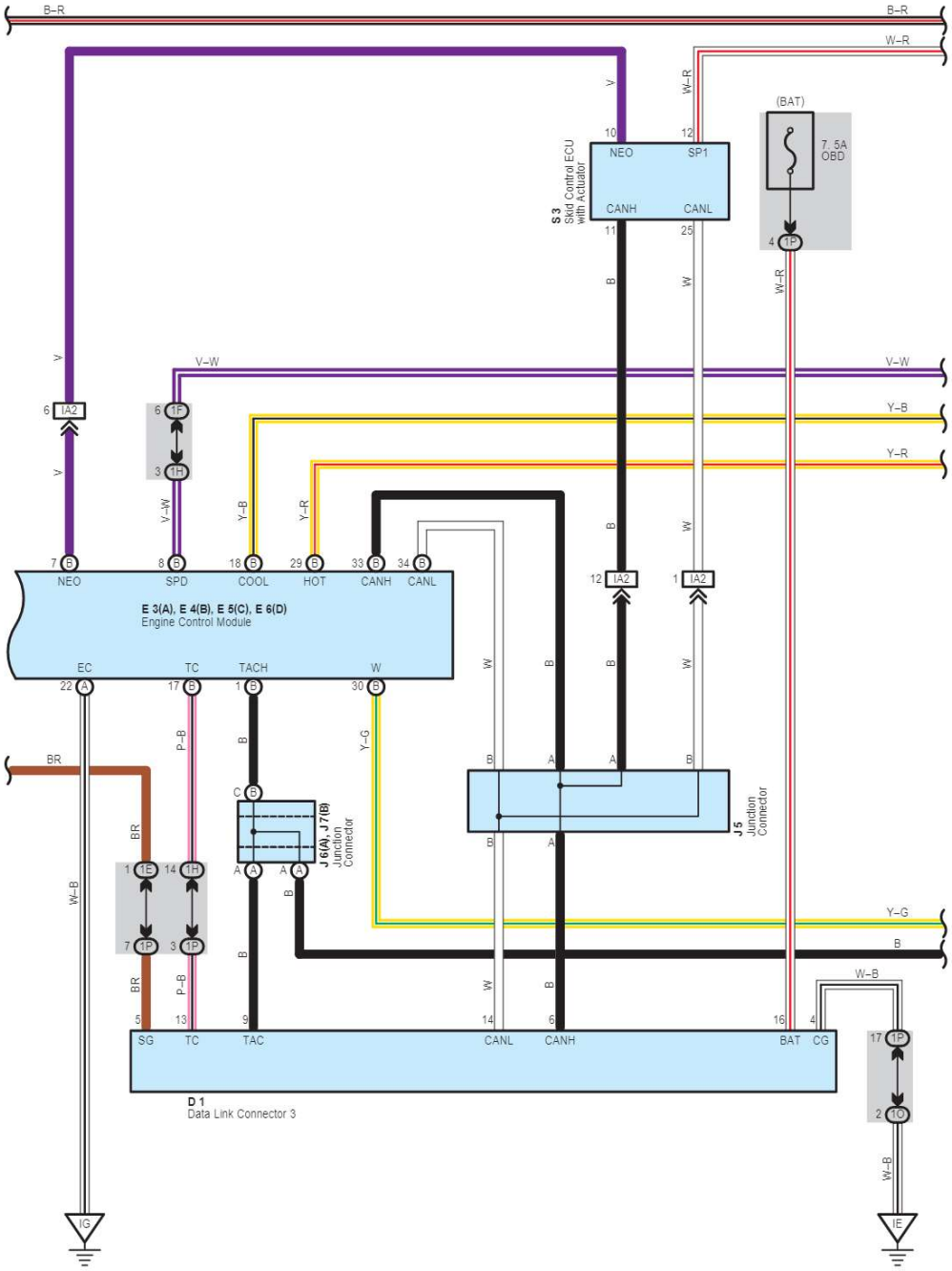
	Page
ABS	104
Air Conditioning	164
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Combination Meter	150
Door Lock Control	82
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Illumination	66
Interior Light	64
Key Reminder	126
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Multiplex Communication System (CAN)	110
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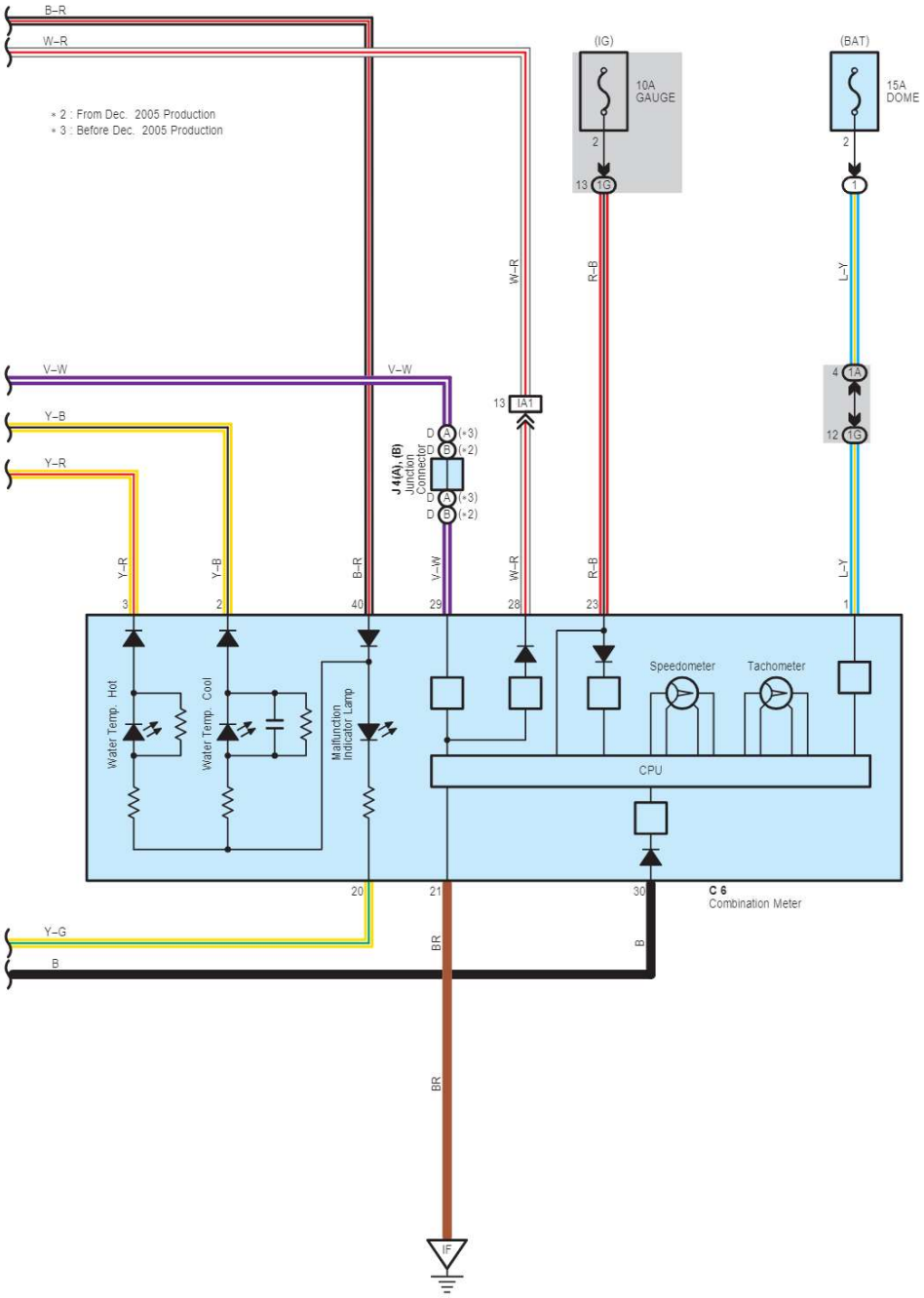

I10
Ignition SW
AM2
IG2
ST2
(BAT)
15A
EFI
EFI
Relay
15A
AM2
60A MAIN
F8
Fusible Link Block
Battery
I6
Injector No. 1
I7
Injector No. 2
I8
Injector No. 3
I9
Injector No. 4
A9
Park/Neutral Position SW
C5
Clutch Start SW
N1
Noise Filter
(Ignition)
E6
B–R
B–Y
GR
W–R
W–B
B–L
B–O
B–W
B(A/T)
(A/T)
(M/T)


E 3(A), E 4(B), E 5(C), E 6(D)
Engine Control Module
+B
+B2
BATT
MREL
VTA1
VC
PSP
THA
E2G
VG
FC
STA
NSW
#40
#30
#20
#10
IGSW
IGT1
IGF
IGT2
T1 Throttle Position Sensor
P1 Power Steering Oil Pressure Sensor
M1 Mass Air Flow Meter
C/OPN Relay
N3 Noise Filter (Fuel Pump)
F14 Fuel Pump
I2 Ignition Coil and Igniter No. 1
I3 Ignition Coil and Igniter No. 2
IF1
IA1
IA2
EA1
BJ
ED


C10
Canister Pump Module
Canister Pressure Sensor
Leak Detection Pump
Vent Valve
SGND
VOUT
VCC
GND
+B
E 2
Engine Coolant Temp. Sensor
THW
E2
PTMK
MPMP
VPMP
E 3(A), E 4(B), E 5(C), E 6(D)
Engine Control Module
IGT3
IGT4
PRG
RSD
HT1A
OX1A
E1
HT1B
OX1B
I 4
Ignition Coil and Igniter No. 3
I 5
Ignition Coil and Igniter No. 4
V 1
VSV (Purge)
I 1
Idle Air Control Valve
DUTY
VISC
H 3
Heated Oxygen Sensor (Bank 1 Sensor 1)
H 7
Heated Oxygen Sensor (Bank 1 Sensor 2)
HT
OX


B–R
B–R
(BAT)
10A TAIL
(BAT)
10A STOP
* 1 : Shielded
A10
Airbag Sensor Assembly
GSW2
C 8
Combination SW
Light Control SW
OFF
Tail
Head
+B
T
S 8
Stop Light SW
FAN NO. 2 Relay
FAN NO. 1 Relay
Fuse Block
C 2
Camshaft Timing Oil Control Valve
G 1
Generator
ELS1
STP
FANH
FANL
ELS2
F/PS
OC1+
OC1–
ALT
E 3(A), E 4(B), E 5(C), E 6(D)
Engine Control Module
KNK1
EKNK
E03
E02
E01
NE+
NE–
G2+
EB1
IF1
K 1
Knock Sensor (Bank 1)
C 3
Crankshaft Position Sensor
C 1
Camshaft Position Sensor
(*1)
E0
EC


B–R
B–R
W–R
V
W–R
(BAT)
7.5A
OBD
10
12
NEO
SP1
CANH
CANL
S 3
Skid Control ECU
with Actuator
11
25
4 1P
B
W
W–R
V
V–W
V–W
6 IA2
6 1F
3 1H
Y–B
Y–R
V–W
Y–B
Y–R
7 B
8 B
18 B
29 B
33 B
34 B
NEO
SPD
COOL
HOT
CANH
CANL
12 IA2
1 IA2
E 3(A), E 4(B), E 5(C), E 6(D)
Engine Control Module
EC
TC
TACH
W
22 A
17 B
1 B
30 B
P–B
B
Y–G
BR
C B
J 6(A), J 7(B)
Junction
Connector
J 5
Junction
Connector
BR
W–B
1 1E
14 1H
7 1P
3 1P
A A
A A
B
Y–G
B
W–B
BR
P–B
5
13
9
14
6
16
4
SG
TC
TAC
CANL
CANH
BAT
CG
17 1P
2 1O
D 1
Data Link Connector 3
W–B
IG
IE


B–R
W–R
* 2 : From Dec. 2005 Production
* 3 : Before Dec. 2005 Production
(IG)
10A
GAUGE
(BAT)
15A
DOME
2
13 1G
2
1
W–R
R–B
L–Y
V–W
V–W
13 1A1
4 1A
12 1G
Y–B
Y–R
J 4(A), (B)
Junction
Connector
D A (*3)
D B (*2)
D A (*3)
D B (*2)
Y–R
Y–B
B–R
V–W
W–R
R–B
L–Y
3
2
40
29
28
23
1
Water Temp. Hot
Water Temp. Cool
Malfunction
Indicator Lamp
Speedometer
Tachometer
CPU
20
21
30
C 6
Combination Meter
Y–G
B
BR
B
BR
IF

System Outline

This system utilizes an engine control module and maintains overall control of the engine, transmission and so on. An outline of the engine control is explained 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. thus the engine coolant temp. is input in the form of a control signal into TERMINAL THW of the engine control module.

(2) Intake air temp. signal circuit

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

(3) Oxygen sensor signal circuit

The oxygen density in the exhaust gases is detected and input as a control signal into TERMINALS OX1A and OX1B of the engine control module.

(4) RPM signal circuit

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

(5) Throttle signal circuit

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

(6) Vehicle speed signal circuit

The vehicle speed sensor detects the vehicle speed, and the signal is input into TERMINAL SPD of the engine control module via the combination meter, from TERMINAL SP1 of the skid control ECU with actuator.

(7) NSW signal circuit (A/T)

The Park/Neutral position SW detects whether the shift position are in neutral, parking or not, and inputs a control signal into TERMINAL NSW of the engine control module.

(8) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine control module. When the ignition SW is turned on, the voltage for engine control module start–up power supply is applied to TERMINALS +B and +B2 of the engine control module via EFI relay.

(9) Starter signal circuit

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

(10) Engine knock signal circuit

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

2. Control System

- SFI system
  The SFI system monitors the engine condition through the signals, which are input from each sensor to the engine control module. The best fuel injection volume is decided based on this data and the program memorized by the engine control module, and the control signal is output to TERMINALS #10, #20, #30 and #40 of the engine control module to operate the injector. (Inject the fuel). The SFI system produces control of fuel injection operation by the engine control module in response to the driving conditions.
- ESA system
  The ESA system monitors the engine condition through the signals, which are input to the engine control module from each sensor. The best ignition timing is detected according to this data and the memorized data in the engine control module, and the control signal is output to TERMINALS IGT1, IGT2, IGT3 and IGT4. This signal controls the ignition coil and igniter to provide the best ignition timing for the driving conditions.
- IAC system
  The IAC system increases the RPM and provides idling stability for fast idle–up when the engine is cold and when the idle speed has dropped due to electrical load, etc. The engine control module evaluates the signals from each sensor, outputs current to TERMINAL RSD, and controls the idle air control valve.
- Fuel pump control system
  The engine control module operation outputs to TERMINAL FC and controls the C/OPN relay. Thus controls the fuel pump drive speed in response to conditions.

3. Diagnosis System

With the diagnosis system, when there is a malfunctioning in the engine control module signal system, the malfunction system is recorded in the memory. The malfunctioning system can then be found by reading the display (Code) of the malfunction indicator lamp.

4. Fail–Safe System

When a malfunction occurs in any system, if there is a possibility of engine trouble being caused by continued control based on the signals from that system, the fail–safe system either controls the system by using data (Standard values) recorded in the engine control module memory or else stops the engine.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A9	30	F8	28	J4 A	31
A10	30	F14	32	J4 B	31
C1	28	G1	28	J5	31
C2	28	H3	28	J6 A	31
C3	28	H7	30	J7 B	31
C5	30	I1	29	K1	29
C6	30	I2	29	M1	29
C8	30	I3	29	N1	29
C10	32	I4	29	N3	33
D1	30	I5	29	P1	29
E2	28	I6	29	S3	29
E3 A	30	I7	29	S8	31
E4 B	30	I8	29	T1	29
E5 C	30	I9	29	V1	29
E6 D	30	I10	30		

▭ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: **Junction Block and Wire Harness Connector**

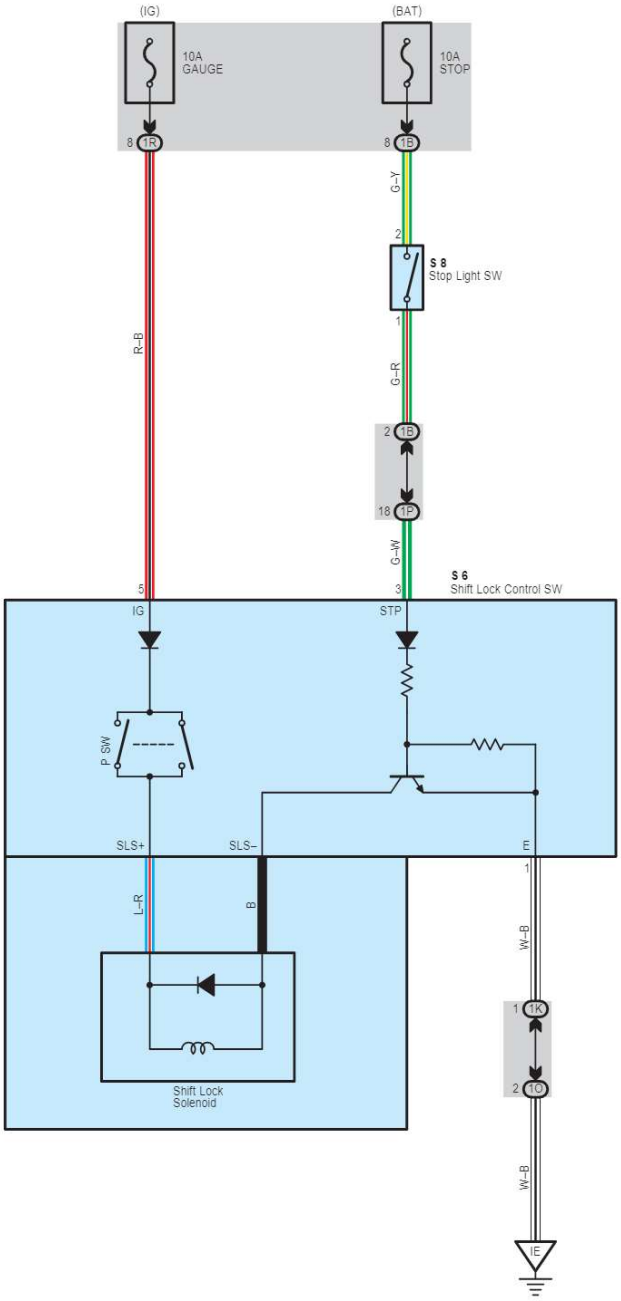
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1D	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1G		
1H		
1M		
1O		
1P		
1R		
1T	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	34	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B)
EB1	34	Engine Wire and Sensor Wire (Near the Starter)
IA1	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IA2		
IB1	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IF1	35	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IF2		

: **Ground Points**

Code	See Page	Ground Points Location
EB	34	Front Left Fender Apron
EC	34	Engine Block
ED		
IE	35	Left Kick Panel
IF	35	Instrument Panel Brace LH
IG	35	Right Kick Panel
BJ	36	Rear Quarter Panel Inner LH


(IG)
(BAT)
10A
GAUGE
10A
STOP
8
1R
8
1B
G–Y
2
S 8
Stop Light SW
1
R–B
G–R
2
1B
18
1P
G–W
S 6
Shift Lock Control SW
5
IG
3
STP
P SW
SLS+
SLS–
E
L–R
B
1
W–B
1
1K
2
1O
W–B
1E
Shift Lock
Solenoid

System Outline

The current is applied at all times through the STOP fuse to TERMINAL 2 of the stop light SW.
When the ignition SW is turned to ON position, the current from the GAUGE fuse flows to TERMINAL 5 of the shift lock control ECU.

Shift Lock Mechanism

With the ignition SW at ON position, when a signal that the brake pedal is depressed (Stop light SW on) and a signal that the shift lever is put in P position (Continuity P SW) is input to the shift lock control SW, the shift lock control SW operates and the current flows from TERMINAL 5 of the shift lock control SW to TERMINAL SLS+ to the shift lock solenoid to TERMINAL SLS– of the shift lock control SW to TERMINAL 1 to GROUND. This causes the shift lock solenoid to turn on (Plate stopper disengages) and the shift lever can shift into position other than P position.

○ : **Parts Location**

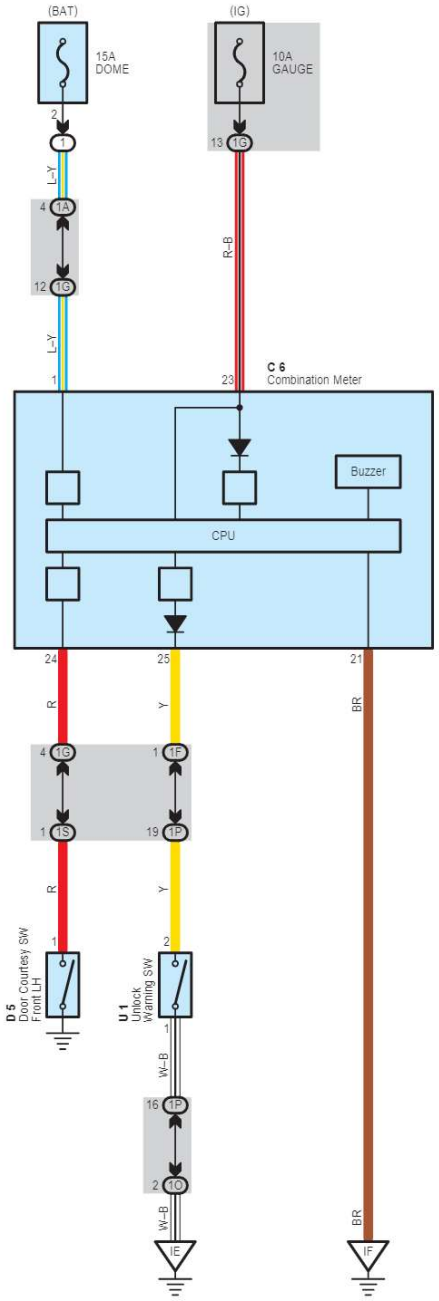
Code	See Page	Code	See Page	Code	See Page
S6	31	S8	31		

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1K	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1O		
1P		
1R		

▽ : **Ground Points**

Code	See Page	Ground Points Location
IE	35	Left Kick Panel


(BAT)
(IG)
15A
DOME
10A
GAUGE
2
1
13
1G
L-Y
4
1A
12
1G
R-B
L-Y
1
23
C 6
Combination Meter
Buzzer
CPU
24
25
21
R
Y
BR
4
1G
1
1F
1
1S
19
1P
R
Y
1
2
D 5
Door Courtesy SW
Front LH
U 1
Unlock
Warning SW
1
W-B
16
1P
2
1O
W-B
BR
IE
IF

System Outline

Current is always applied from the DOME fuse to TERMINAL 1 of the combination meter. When the ignition SW is turned to ON position, the current from the GAUGE fuse flows to TERMINAL 23 of the combination meter.

Key Reminder System

When the driver door is opened with the ignition SW off and ignition key remaining in the key cylinder (Unlock warning SW on), a signal is input from the unlock warning SW to TERMINAL 25 of the combination meter, and from the door courtesy SW front LH to TERMINAL 24 of the combination meter. As a result, the buzzer in the combination meter goes on and warns the driver that the key is remaining in the key cylinder.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C6	30	D5	32	U1	31

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

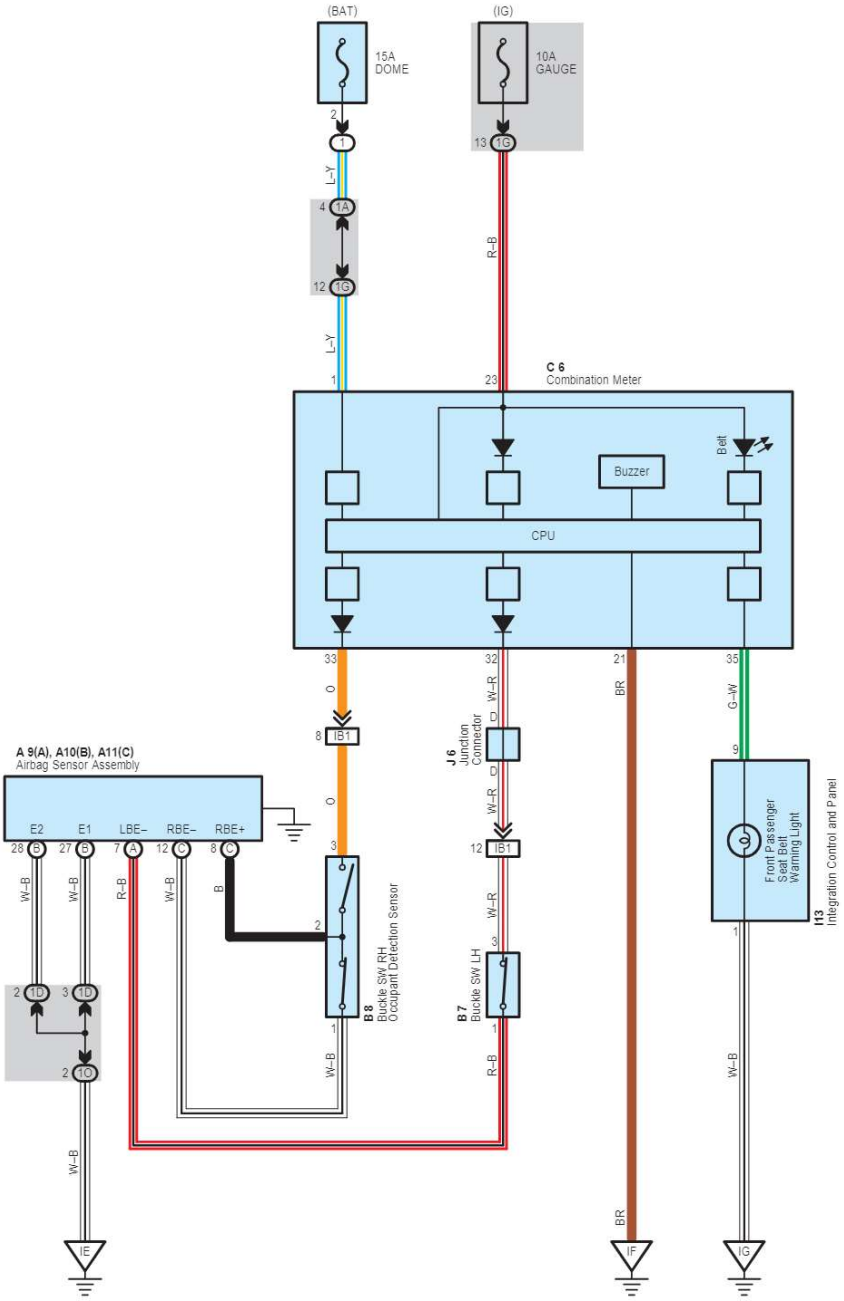
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1F	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1O		
1P		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

: Ground Points

Code	See Page	Ground Points Location
IE	35	Left Kick Panel
IF	35	Instrument Panel Brace LH

Seat Belt Warning (Before Dec. 2005 Production)



System Outline

Current is always applied from the DOME fuse to TERMINAL 1 of the combination meter. When the ignition SW is turned to ON position, the current from the GAUGE fuse flows to TERMINAL 23 of the combination meter.

Seat Belt Warning System

When the ignition SW turned on, a signal is input to the combination meter. To determine whether the driver has fastened the seat belt, a signal is input from the buckle SW LH to TERMINAL 32 of the combination meter. When the seat belt is not fastened, the seat belt warning light in the combination meter blinks, and emits a warning sound.
In addition, the front passenger is recognized by a sensor (Occupant detection sensor) is installed in the front passenger seat, and determines whether the seat belt is fastened. When not fastened, the signals from the buckle SW RH is input to TERMINAL 33 of the combination meter, and the front passenger seat belt warning light blinks.

: Parts Location

Code		See Page	Code	See Page	Code	See Page
A9	A	30	B7	32	I13	30
A10	B	30	B8	32	J6	31
A11	C	30	C6	30		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	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	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1O		

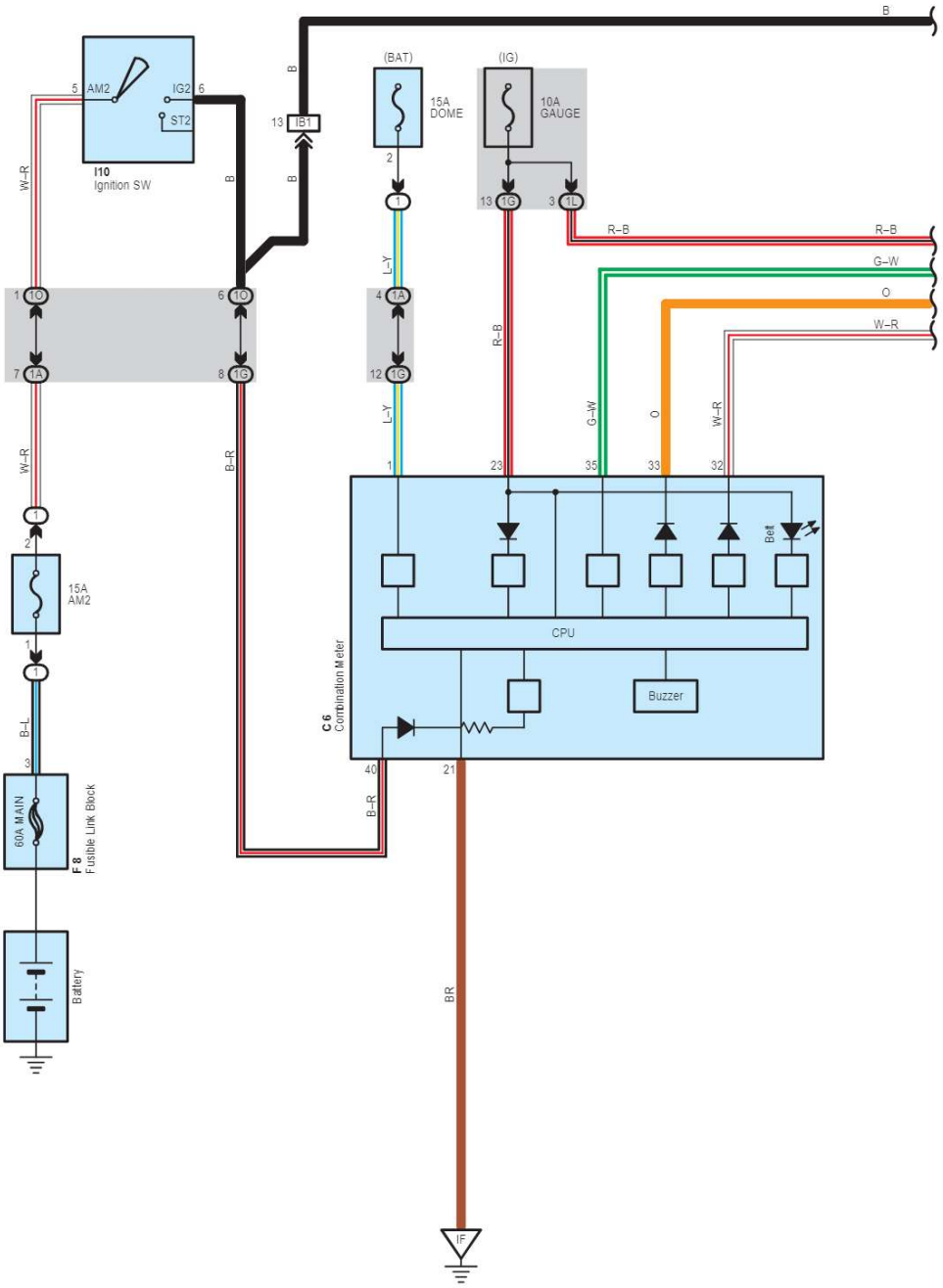
: Connector Joining Wire Harness and Wire Harness

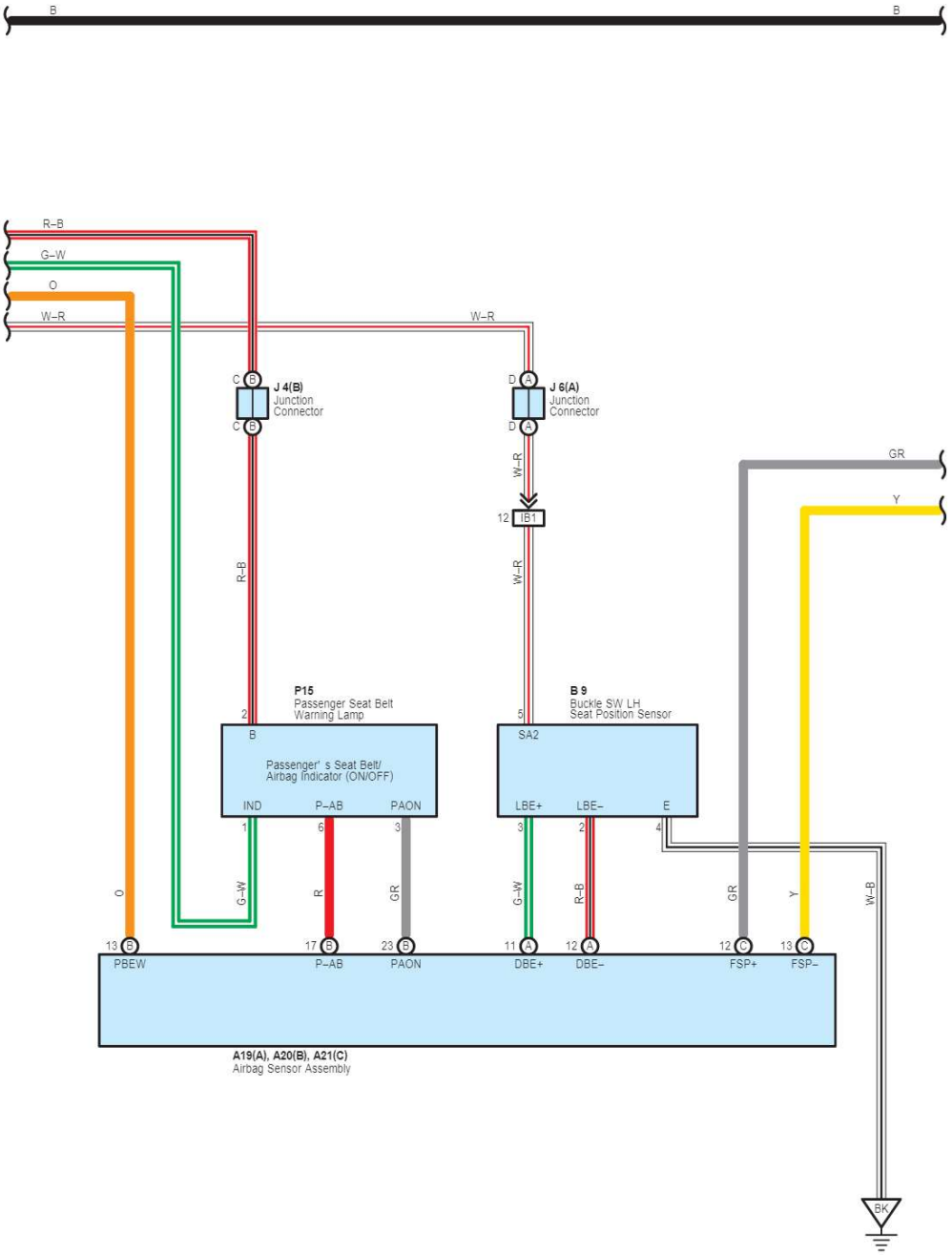
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)

: Ground Points

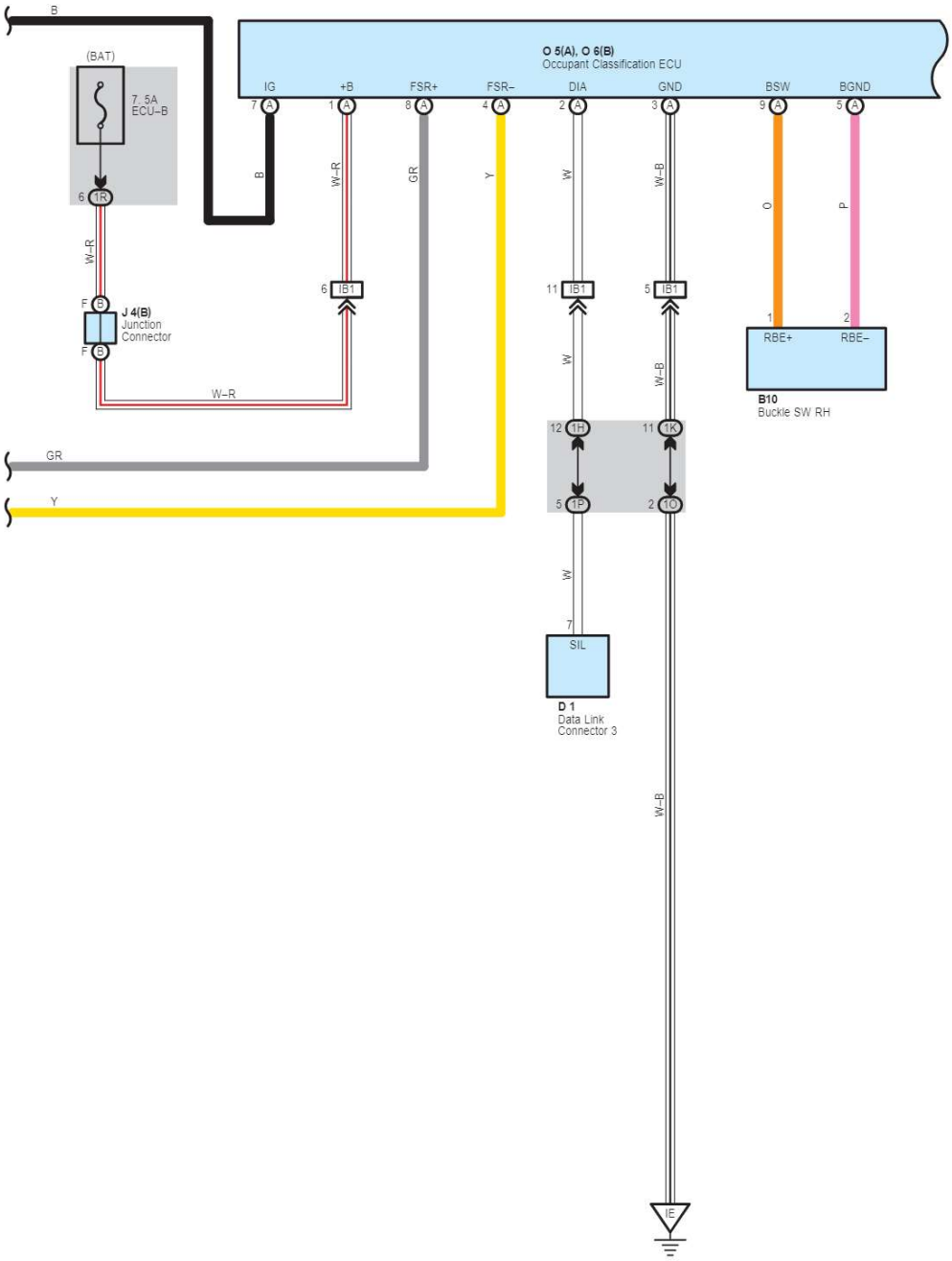
Code	See Page	Ground Points Location
IE	35	Left Kick Panel
IF	35	Instrument Panel Brace LH
IG	35	Right Kick Panel

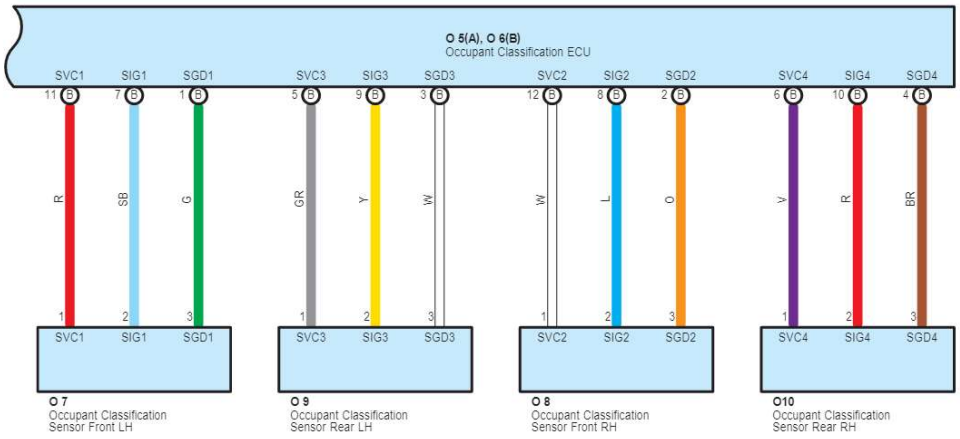
Seat Belt Warning (From Dec. 2005 Production)




B
B
R–B
G–W
O
W–R
W–R
C B
J 4(B)
Junction Connector
C B
D A
J 6(A)
Junction Connector
D A
W–R
12 IB1
W–R
R–B
GR
Y
P15
Passenger Seat Belt Warning Lamp
2
B
B 9
Buckle SW LH Seat Position Sensor
5
SA2
Passenger' s Seat Belt/ Airbag Indicator (ON/OFF)
IND
P–AB
PAON
LBE+
LBE–
E
1
6
3
3
2
4
O
G–W
R
GR
G–W
R–B
GR
Y
W–B
13 B
17 B
23 B
11 A
12 A
12 C
13 C
PBEW
P–AB
PAON
DBE+
DBE–
FSP+
FSP–
A19(A), A20(B), A21(C)
Airbag Sensor Assembly
BK

Seat Belt Warning (From Dec. 2005 Production)




O 5(A), O 6(B)
Occupant Classification ECU
SVC1
SIG1
SGD1
SVC3
SIG3
SGD3
SVC2
SIG2
SGD2
SVC4
SIG4
SGD4
11
7
1
5
9
3
12
8
2
6
10
4
R
SB
G
GR
Y
W
W
L
O
V
R
BR
1
2
3
O 7
Occupant Classification
Sensor Front LH
O 9
Occupant Classification
Sensor Rear LH
O 8
Occupant Classification
Sensor Front RH
O10
Occupant Classification
Sensor Rear RH

Seat Belt Warning (From Dec. 2005 Production)

System Outline

Current is always applied from the DOME fuse to TERMINAL 1 of the combination meter. When the ignition SW is turned to ON position, the current from the GAUGE fuse flows to TERMINAL 23 of the combination meter and flows TERMINAL 2 of the passenger seat belt warning lamp.

Seat Belt Warning System

When the ignition SW turned on, a signal is input to the combination meter. To determine whether the driver has fastened the seat belt, a signal is input from the buckle SW LH to TERMINAL 32 of the combination meter. When the seat belt is not fastened, the seat belt warning light in the combination meter blinks, and emits a warning sound.
In addition, the front passenger is recognized by the occupant classification ECU is installed in the front passenger seat, and determines whether the seat belt is fastened. When not fastened, the signals from the occupant classification ECU is input to TERMINAL 1 of the passenger seat belt warning lamp via the combination meter, and the passenger seat belt warning lamp blinks.

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A19 A	30	D1	30	O6 B	33
A20 B	30	F8	28	O7	33
A21 C	30	I10	30	O8	33
B9	32	J4 B	31	O9	33
B10	32	J6 A	31	O10	33
C6	30	O5 A	33	P15	31

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

⬭ : **Junction Block and Wire Harness Connector**

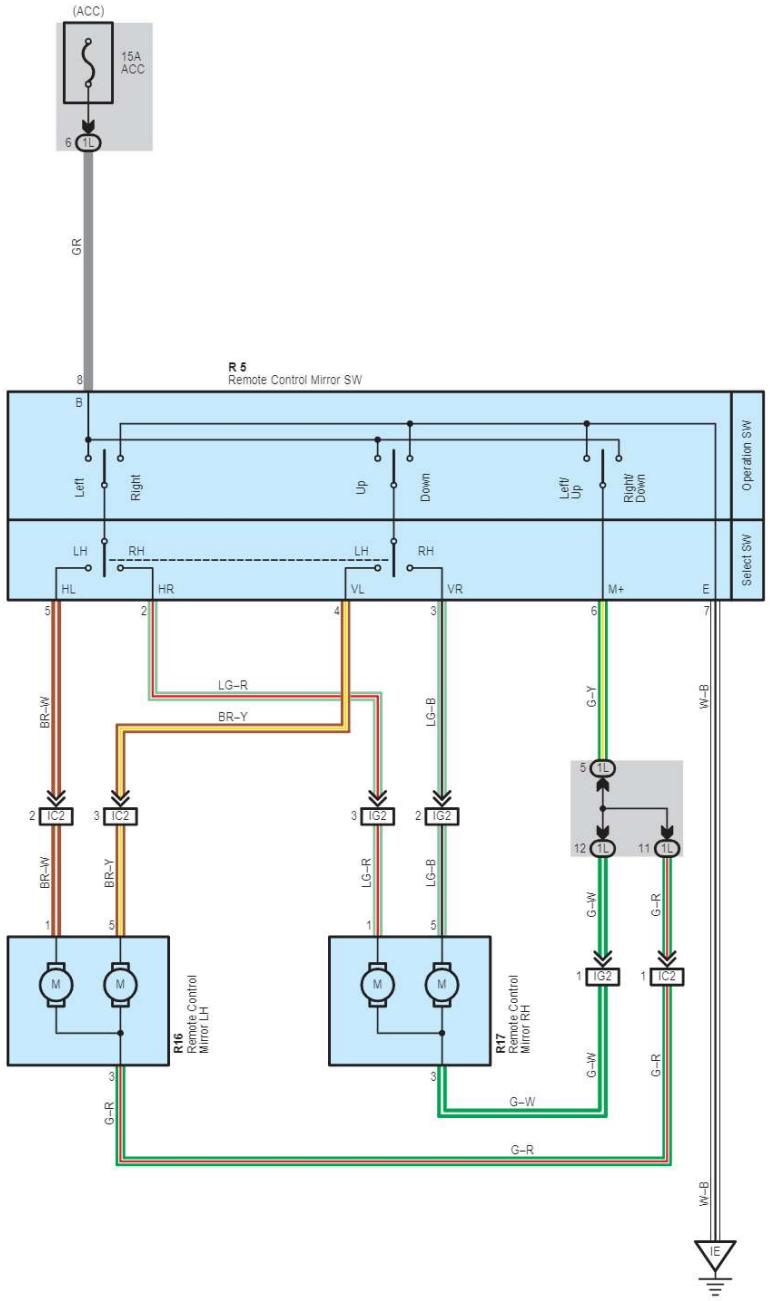
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1H		
1K		
1L		
1O		
1P		
1R		

▭ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)

▽ : **Ground Points**

Code	See Page	Ground Points Location
IE	35	Left Kick Panel
IF	35	Instrument Panel Brace LH
BK	36	Rear Quarter Panel Inner RH


(ACC)
15A
ACC
6
1L
GR
8
R 5
Remote Control Mirror SW
B
Left
Right
Up
Down
Left/
Up
Right/
Down
Operation SW
LH
RH
LH
RH
Select SW
HL
HR
VL
VR
M+
E
5
2
4
3
6
7
BR–W
LG–R
BR–Y
LG–B
G–Y
W–B
5
1L
2
IC2
3
IC2
3
IG2
2
IG2
12
1L
11
1L
BR–W
BR–Y
LG–R
LG–B
G–W
G–R
1
5
1
5
1
IG2
1
IC2
M
M
M
M
R16
Remote Control
Mirror LH
R17
Remote Control
Mirror RH
3
3
G–R
G–W
G–W
G–R
G–R
W–B
IE

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
R5	31	R16	33	R17	33

⬭ : **Junction Block and Wire Harness Connector**

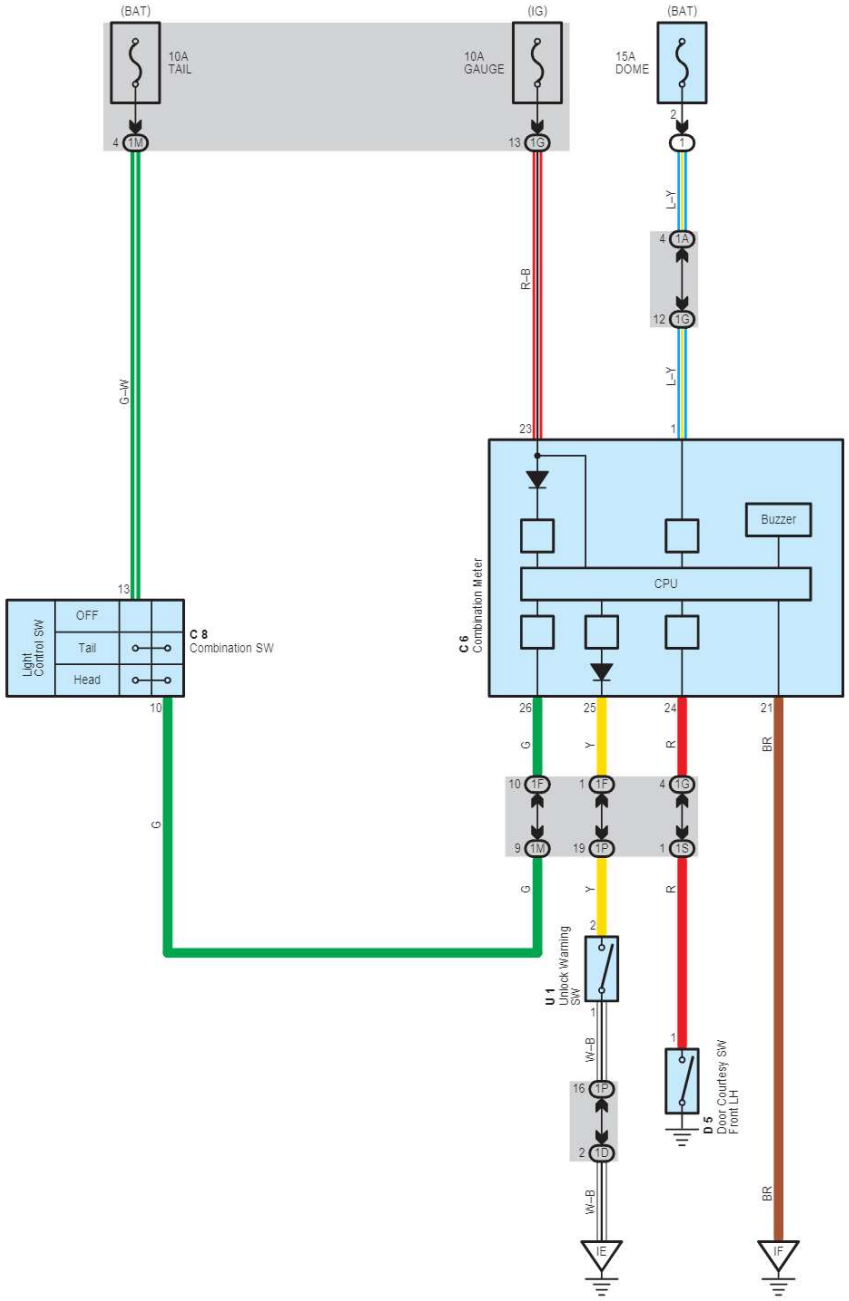
Code	See Page	Junction Block and Wire Harness (Connector Location)
1L	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

▭ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	35	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IG2	35	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
IE	35	Left Kick Panel


(BAT)
10A
TAIL
(IG)
10A
GAUGE
(BAT)
15A
DOME
4 1M
13 1G
2
1
L–Y
4 1A
12 1G
L–Y
R–B
G–W
23
1
Buzzer
CPU
C 6
Combination Meter
13
Light
Control SW
OFF
Tail
Head
C 8
Combination SW
10
26
25
24
21
G
Y
R
BR
10 1F
1 1F
4 1G
9 1M
19 1P
1 1S
G
Y
R
2
U 1
Unlock Warning
SW
1
W–B
16 1P
2 1D
W–B
1
D 5
Door Courtesy SW
Front LH
BR
IE
IF

System Outline

The current is applied at all times to TERMINAL 1 of the combination meter through the DOME fuse.
When the ignition SW is turned to ON position, the current flows to TERMINAL 23 of the combination meter through the GAUGE fuse. When the light control SW is turned to TAIL or HEAD position, current is applied to TERMINAL 26 of the combination meter through the TAIL fuse.

Light Reminder System

When the light control SW is in TAIL or HEAD position, the ignition SW turned to OFF from ON position, ignition key is not in the key cylinder and the driver's door opened (Door courtesy SW on), the current flows to TERMINAL 23 of the combination meter stops. As a result, the combination meter is activated and current flows from TERMINAL 1 of the combination meter, the buzzer in the combination meter goes on to remind the light is lighting up.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
C6	30	D5	32		
C8	30	U1	31		

: Relay Blocks

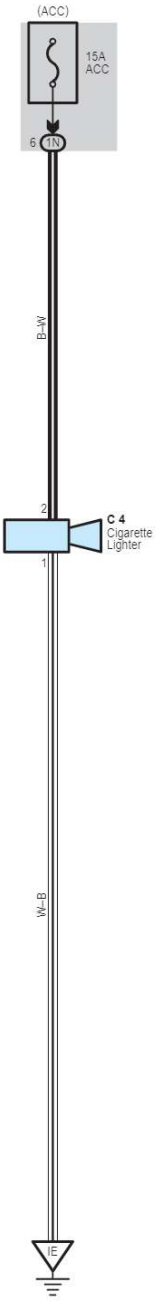
Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1D	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1G		
1M		
1P		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

: Ground Points

Code	See Page	Ground Points Location
IE	35	Left Kick Panel
IF	35	Instrument Panel Brace LH


(ACC)
15A
ACC
6
1N
B-W
2
C 4
Cigarette
Lighter
1
W-B
IE

○ : **Parts Location**

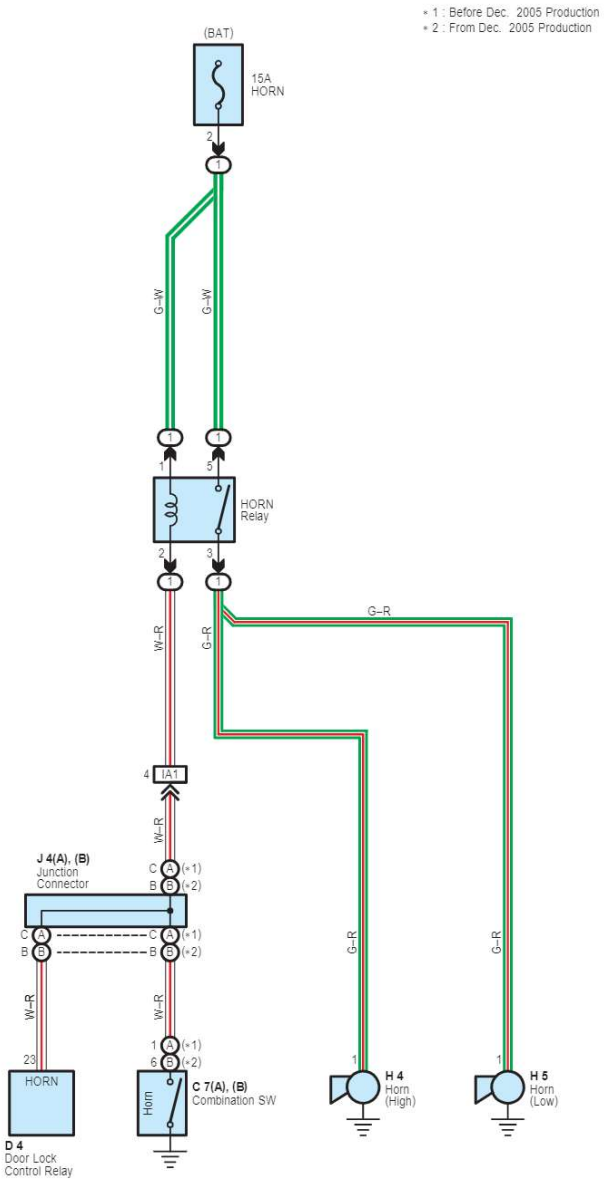
Code	See Page	Code	See Page	Code	See Page
C4	30				

: **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1N	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
IE	35	Left Kick Panel


* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
(BAT)
15A
HORN
2
1
G–W
G–W
1
5
HORN
Relay
2
3
W–R
G–R
G–R
4
IA1
W–R
J 4(A), (B)
Junction
Connector
C
B
A
(*1)
(*2)
W–R
W–R
G–R
G–R
23
HORN
1
6
Horn
C 7(A), (B)
Combination SW
H 4
Horn
(High)
H 5
Horn
(Low)
D 4
Door Lock
Control Relay

○ : **Parts Location**

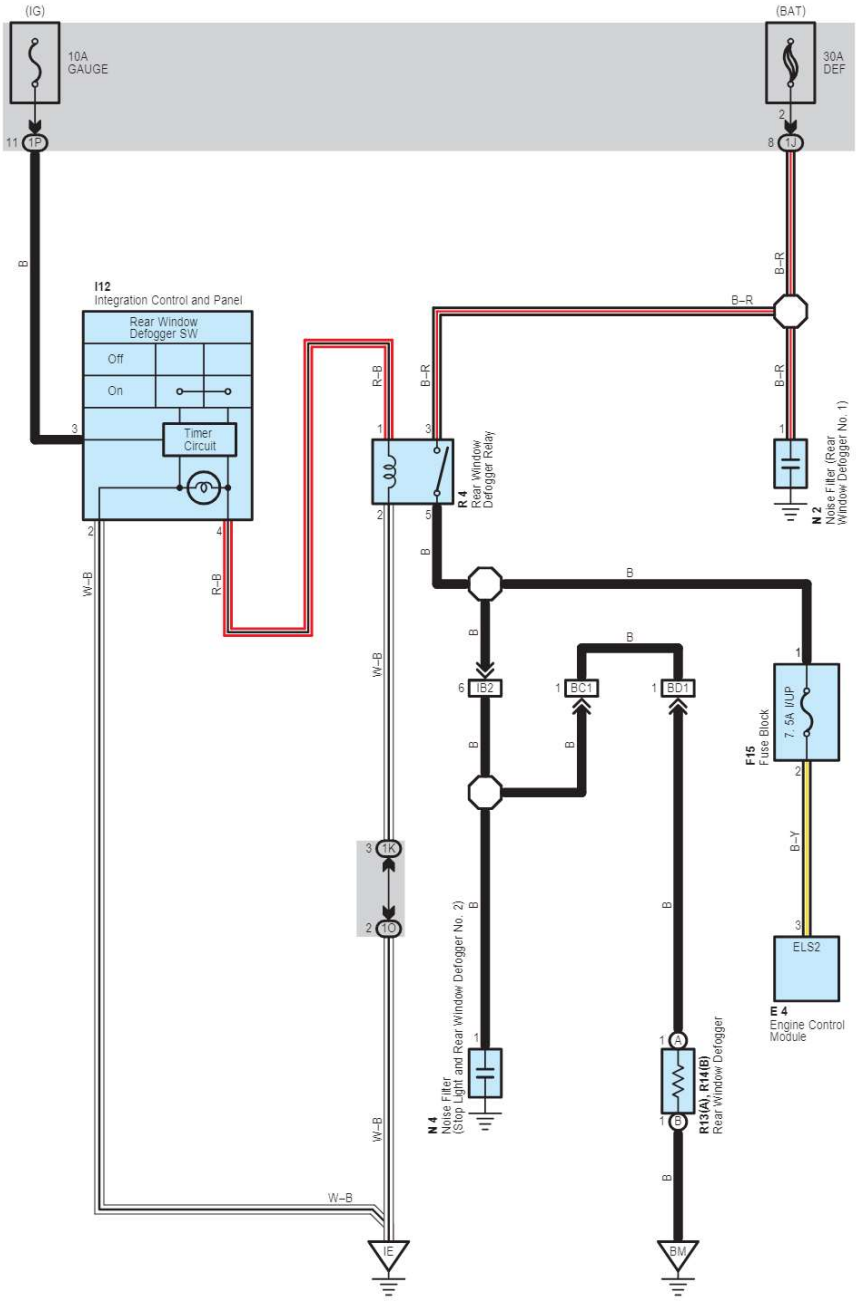
Code		See Page	Code		See Page	Code		See Page
C7	A	30	H4		28	J4	B	31
	B	30	H5		28			
D4		30	J4	A	31			

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

▭ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)


(IG)
(BAT)
10A
GAUGE
30A
DEF
11 1P
8 1J
2
B
B–R
I12
Integration Control and Panel
Rear Window
Defogger SW
Off
On
Timer
Circuit
3
2
4
W–B
R–B
1
3
2
5
R4
Rear Window
Defogger Relay
N 2
Noise Filter (Rear
Window Defogger No. 1)
6 IB2
1 BC1
1 BD1
F15
Fuse Block
7. 5A I/UP
B–Y
3 1K
2 1O
ELS2
E 4
Engine Control
Module
N 4
Noise Filter
(Stop Light and Rear Window Defogger No. 2)
R13(A), R14(B)
Rear Window Defogger
A
B
IE
BM

○ : **Parts Location**

Code	See Page	Code	See Page	Code		See Page
E4	30	N2	31	R13	A	33
F15	30	N4	33	R14	B	33
I12	30	R4	31			

⬭ : **Junction Block and Wire Harness Connector**

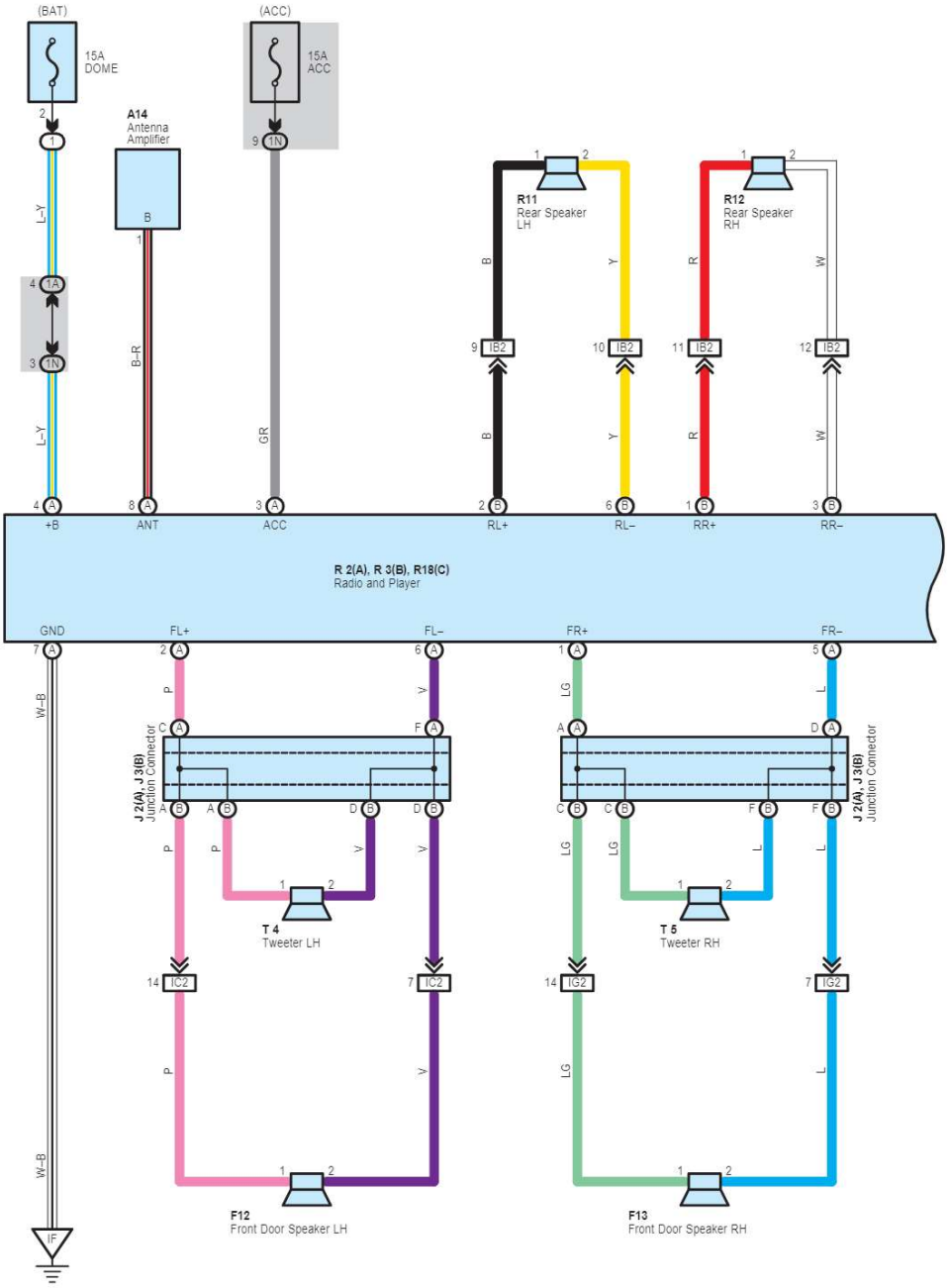
Code	See Page	Junction Block and Wire Harness (Connector Location)
1J	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
1O		
1P		

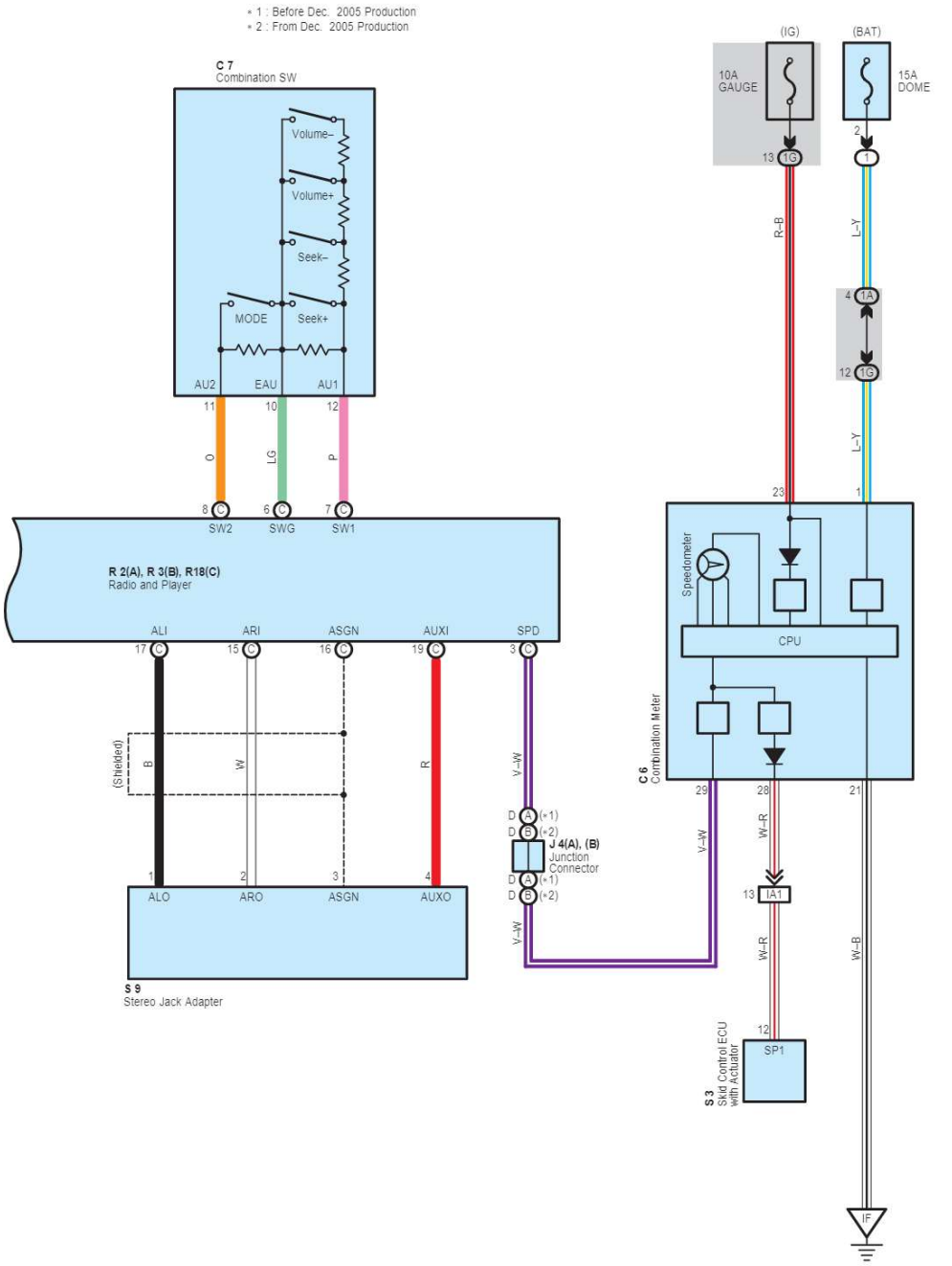
▭ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)
BC1	36	Back Door No.1 Wire and Floor Wire (Right Rear Side Quarter Pillar)
BD1	36	Back Door No.1 Wire and Rear Window No.1 Wire (Right Side of Back Door)

▽ : **Ground Points**

Code	See Page	Ground Points Location
IE	35	Left Kick Panel
BM	36	Back Door LH


(BAT)
15A
DOME
(ACC)
15A
ACC
A14
Antenna
Amplifier
R11
Rear Speaker
LH
R12
Rear Speaker
RH
+B
ANT
ACC
RL+
RL−
RR+
RR−
R 2(A), R 3(B), R18(C)
Radio and Player
GND
FL+
FL−
FR+
FR−
J 2(A), J 3(B)
Junction Connector
T 4
Tweeter LH
T 5
Tweeter RH
F12
Front Door Speaker LH
F13
Front Door Speaker RH


* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
C 7
Combination SW
Volume–
Volume+
Seek–
MODE
Seek+
AU2
EAU
AU1
11
10
12
O
LG
P
8 C SW2
6 C SWG
7 C SW1
R 2(A), R 3(B), R18(C)
Radio and Player
ALI
ARI
ASGN
AUXI
SPD
17 C
15 C
16 C
19 C
3 C
(Shielded)
B
W
R
V–W
1
2
3
4
ALO
ARO
ASGN
AUXO
S 9
Stereo Jack Adapter
D A (*1)
D B (*2)
J 4(A), (B)
Junction Connector
D A (*1)
D B (*2)
V–W
(IG)
(BAT)
10A GAUGE
15A DOME
13 1G
2
1
R–B
L–Y
4 1A
12 1G
L–Y
23
1
Speedometer
CPU
C 6
Combination Meter
29
28
21
W–R
13 IA1
W–R
W–B
12 SP1
S 3
Skid Control ECU with Actuator
IF

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A14	30	J3 B	31	R12	33
C6	30	J4 A	31	R18 C	31
C7	30	J4 B	31	S3	29
F12	32	R2 A	31	S9	31
F13	32	R3 B	31	T4	31
J2 A	31	R11	33	T5	31

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

⬭ : **Junction Block and Wire Harness Connector**

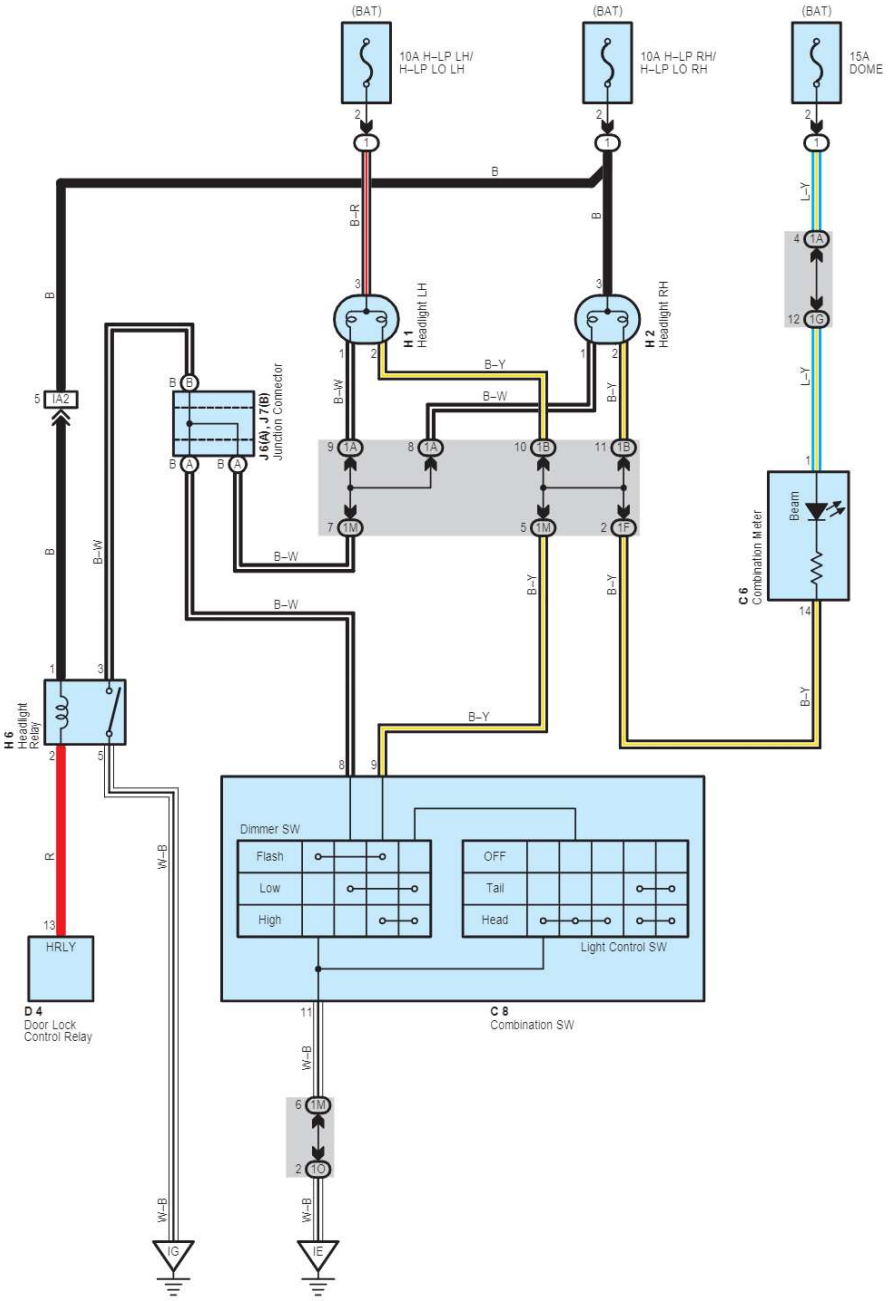
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1N		

▭ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IB2	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IC2	35	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IG2	35	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)

▽ : **Ground Points**

Code	See Page	Ground Points Location
IF	35	Instrument Panel Brace LH


(BAT)
10A H-LP LH/
H-LP LO LH
(BAT)
10A H-LP RH/
H-LP LO RH
(BAT)
15A
DOME
B
B-R
B
L-Y
H1
Headlight LH
H2
Headlight RH
B-Y
B-W
B-W
B-Y
J6(A), J7(B)
Junction Connector
C6
Combination Meter
Beam
B-W
B-W
B-Y
B-Y
B-Y
H6
Headlight
Relay
Dimmer SW
Flash
Low
High
OFF
Tail
Head
Light Control SW
R
W-B
HRLY
D4
Door Lock
Control Relay
C8
Combination SW
W-B
W-B
W-B
IG
IE

○ : **Parts Location**

Code	See Page	Code	See Page	Code		See Page
C6	30	H1	28	J6	A	31
C8	30	H2	28	J7	B	31
D4	30	H6	30			

: **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	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	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1F	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1M		
1O		

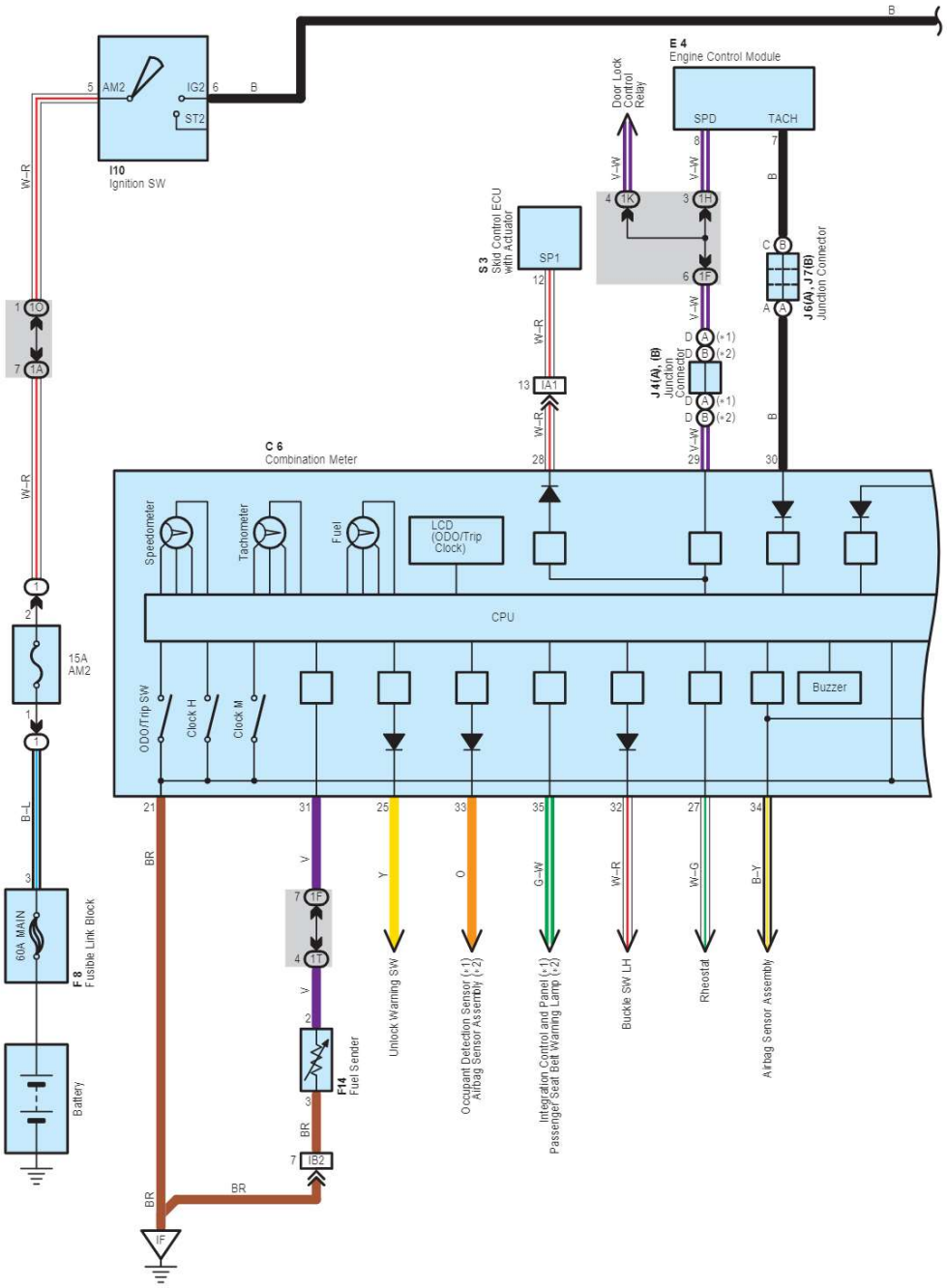
: **Connector Joining Wire Harness and Wire Harness**

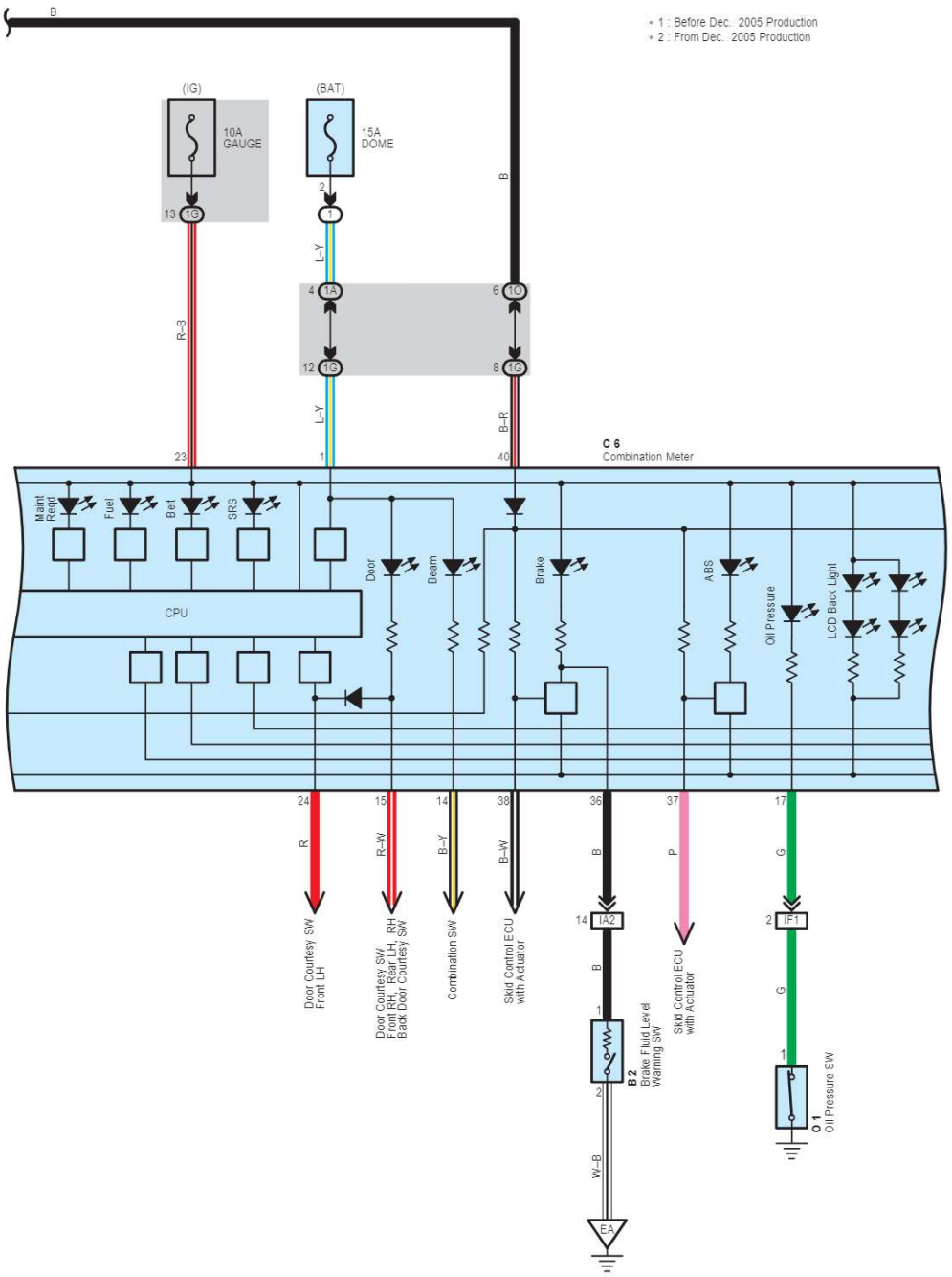
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)

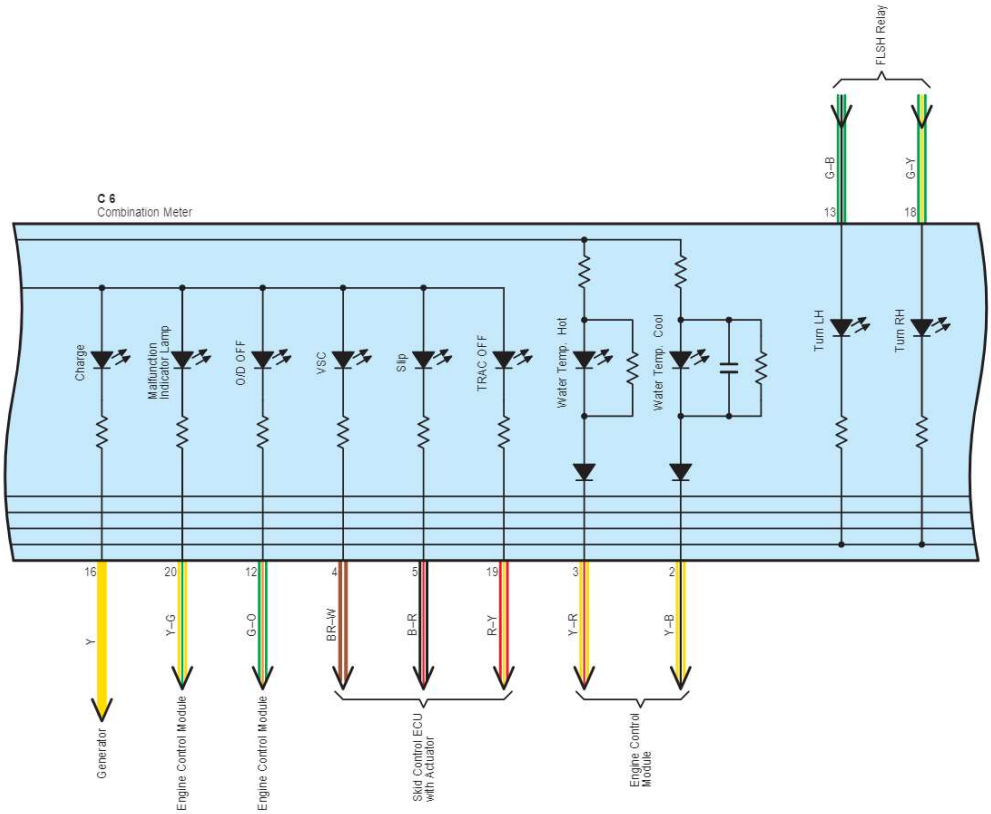
: **Ground Points**

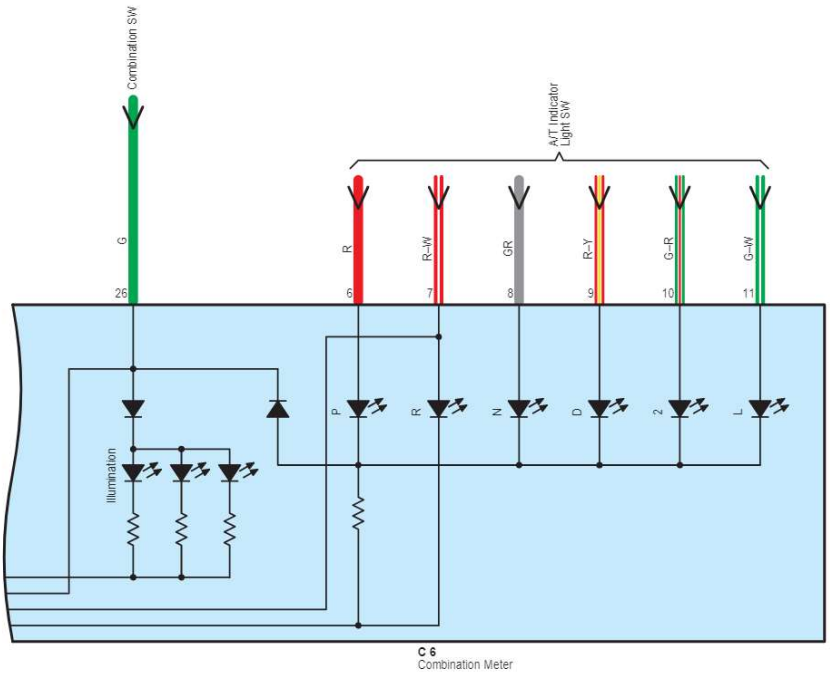
Code	See Page	Ground Points Location
IE	35	Left Kick Panel
IG	35	Right Kick Panel

Combination Meter




* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
B
(IG)
10A GAUGE
(BAT)
15A DOME
2
1
L-Y
4 1A
6 7C
12 1G
8 1G
L-Y
B-R
R-B
13 1G
23
1
40
C 6
Combination Meter
Maint Reqd
Fuel
Belt
SRS
Door
Beam
Brake
ABS
Oil Pressure
LCD Back Light
CPU
24
15
14
38
36
37
17
R
R-W
B-Y
B-W
B
P
G
Door Courtesy SW Front LH
Door Courtesy SW Front RH, Rear LH, RH Back Door Courtesy SW
Combination SW
Skid Control ECU with Actuator
14 IA2
B
1
B2
Brake Fluid Level Warning SW
2
W-B
EA
Skid Control ECU with Actuator
2 IF1
G
1
O1
Oil Pressure SW


FLSH Relay
G–B
G–Y
C 6
Combination Meter
13
18
Charge
Malfunction Indicator Lamp
O/D OFF
VSC
Slip
TRAC OFF
Water Temp. Hot
Water Temp. Cool
Turn LH
Turn RH
16
20
12
4
5
19
3
2
Y
Y–G
G–O
BR–W
B–R
R–Y
Y–R
Y–B
Generator
Engine Control Module
Engine Control Module
Skid Control ECU with Actuator
Engine Control Module


Combination SW
A/T Indicator Light SW
G
26
R
6
R–W
7
GR
8
R–Y
9
G–R
10
G–W
11
P
R
N
D
2
L
Illumination
C 6
Combination Meter

Combination Meter

○ : **Parts Location**

Code	See Page	Code		See Page	Code		See Page
B2	28	F14		32	J6	A	31
C6	30	I10		30	J7	B	31
E4	30	J4	A	31	O1		29
F8	28		B	31	S3		29

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	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	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1F	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1K		
1O		
1T	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

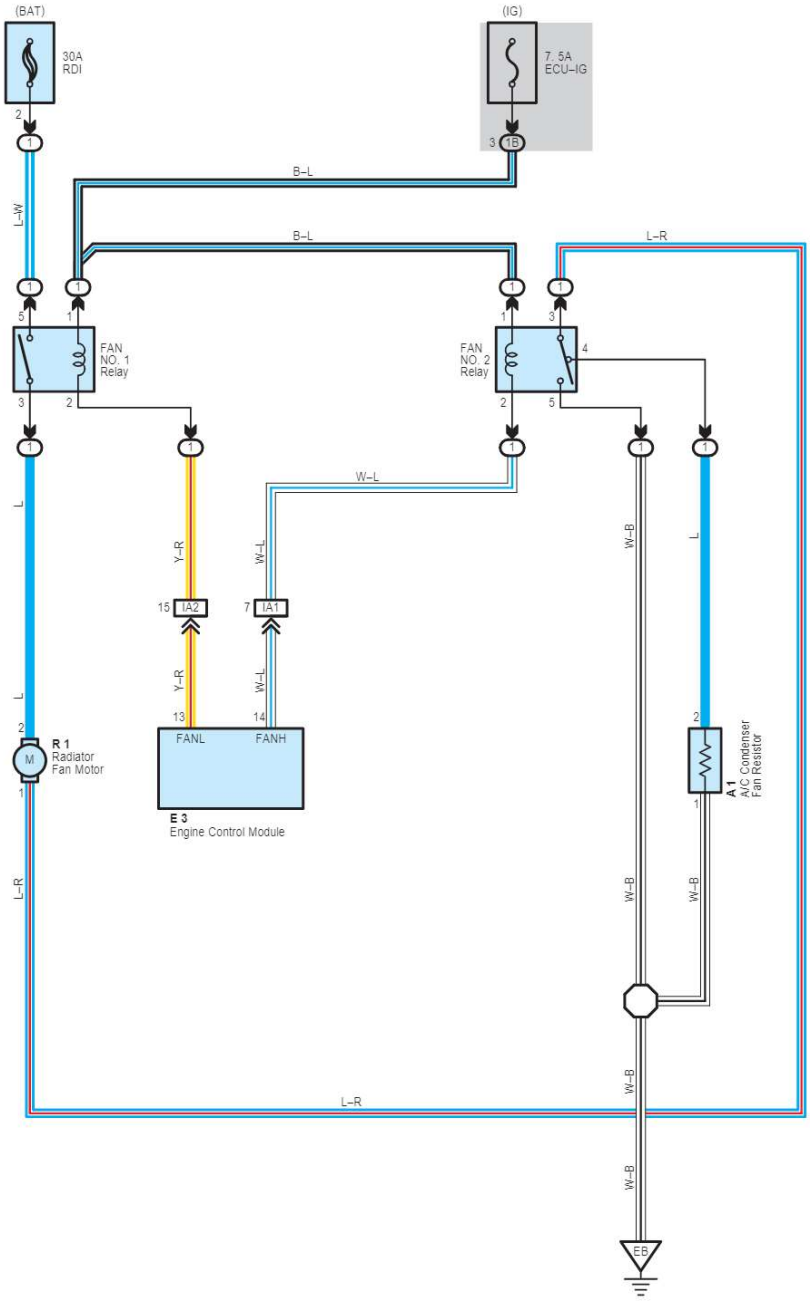
▭ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IA2		
IB2	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IF1	35	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

▽ : **Ground Points**

Code	See Page	Ground Points Location
EA	34	Front Right Fender Apron
IF	35	Instrument Panel Brace LH

Radiator Fan and Condenser Fan



System Outline

The current is applied at all times through the RDI fuse to TERMINAL 5 of the FAN NO.1 relay.
When the ignition SW is turned on, the current flows through the ECU–IG fuse to FAN NO.1 relay (Coil side) to TERMINAL 13 of the engine control module. At the same time as this current flow, the current from ECU–IG fuse flows to the FAN NO.2 relay (Coil side) to TERMINAL 14 of the engine control module.

1. Low Speed Operation

When the A/C system is operating, the FAN NO.1 Relay is turned on. As a result, the current flows from the RDI fuse to FAN NO.1 relay (Point side) to TERMINAL 2 of the radiator fan motor to TERMINAL 1 to TERMINAL 3 of the FAN NO.2 relay to TERMINAL 4 to TERMINAL 2 of the A/C condenser fan resistor to TERMINAL 1 to GROUND, and the radiator fan motor rotates at low speed.

2. High Speed Operation

When the pressure SW (Single) is on or engine control module operated, the FAN NO.1 and NO.2 relay is turned on. As a result, the current flows from the RDI fuse to FAN NO.1 relay (Point side) to radiator fan motor to TERMINAL 3 of the FAN NO.2 Relay to TERMINAL 5 to GROUND, and the radiator fan motor rotates at high speed.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A1	28	E3	30	R1	29

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	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	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)

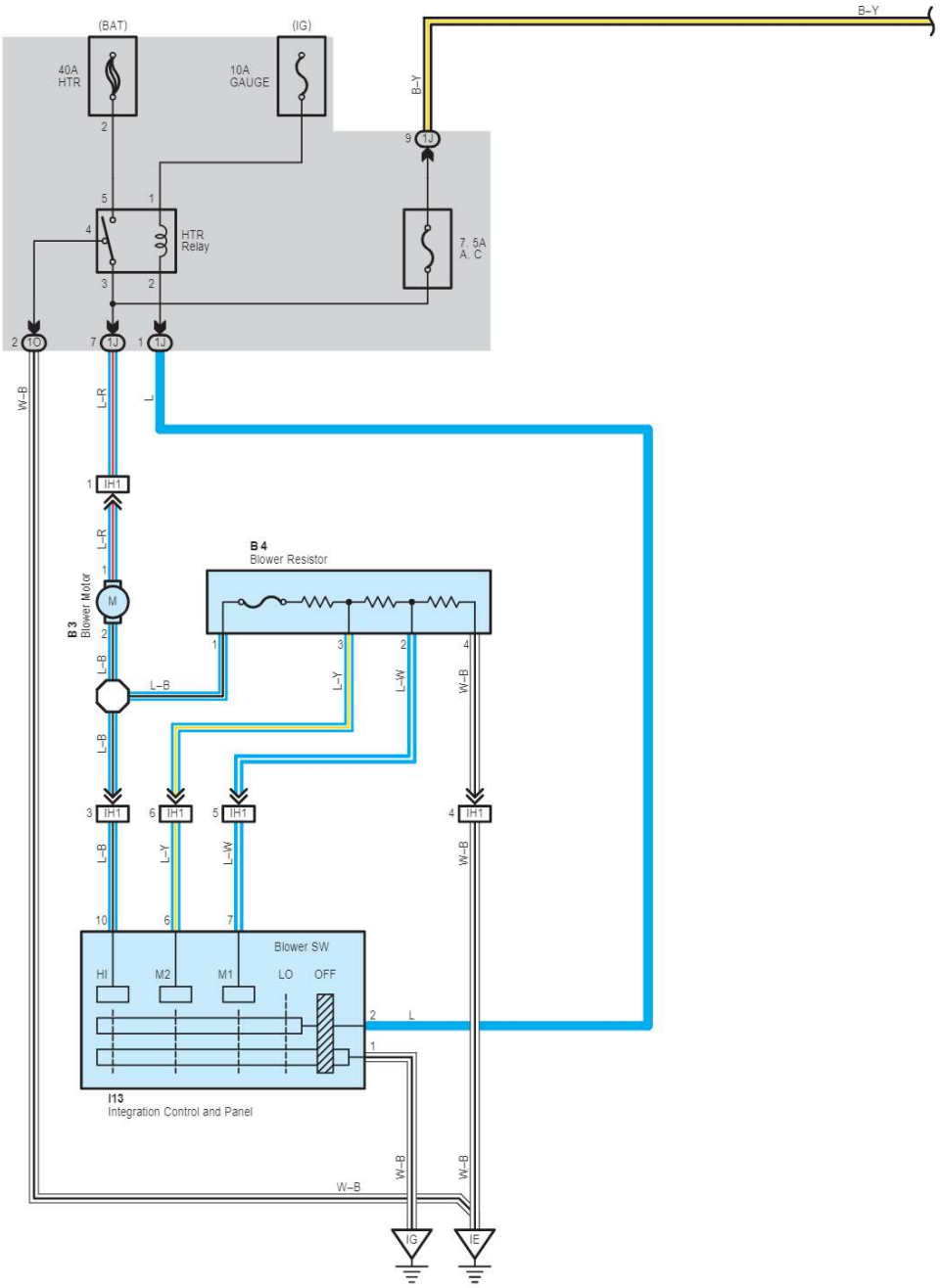
: Connector Joining Wire Harness and Wire Harness

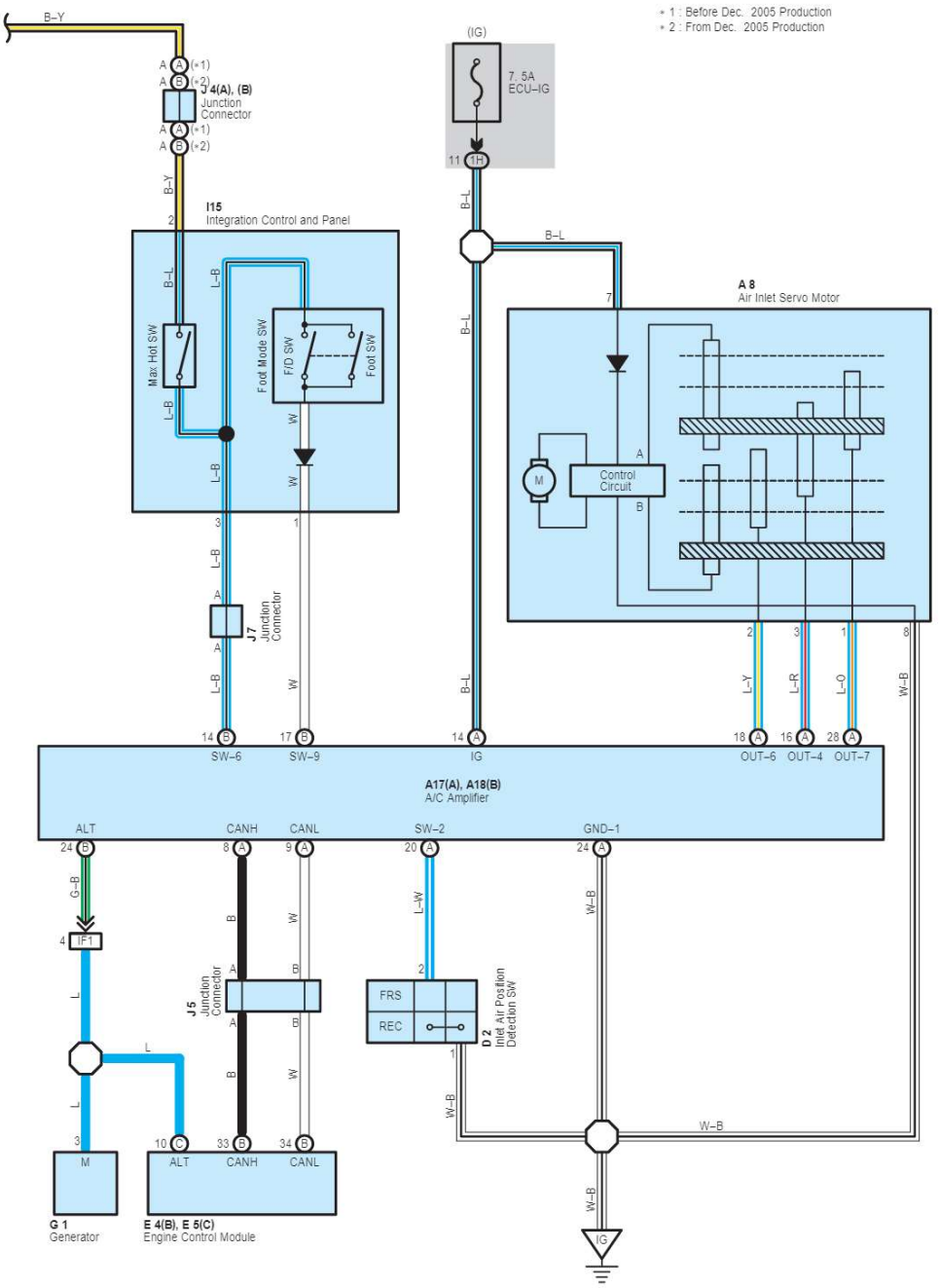
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IA2		

: Ground Points

Code	See Page	Ground Points Location
EB	34	Front Left Fender Apron

Two Way Flow Heater




* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
B–Y
(IG)
7. 5A
ECU–IG
J 4(A), (B)
Junction
Connector
I15
Integration Control and Panel
Max Hot SW
Foot Mode SW
F/D SW
Foot SW
A 8
Air Inlet Servo Motor
Control
Circuit
J7
Junction
Connector
SW–6
SW–9
IG
OUT–6
OUT–4
OUT–7
A17(A), A18(B)
A/C Amplifier
ALT
CANH
CANL
SW–2
GND–1
IF1
J5
Junction
Connector
FRS
REC
D 2
Inlet Air Position
Detection SW
G 1
Generator
E 4(B), E 5(C)
Engine Control Module

System Outline

When all of the following conditions are met, the recirculation/fresh air inlet damper is switched to the DUAL MODE position.
- The recirculation/fresh air switch is at FRESH position
- The blower SW is on.
- The max hot SW is on.
- The foot mode SW is at FOOT or F/D position.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A8	30	D2	30	I15	30
A17 A	30	E4 B	30	J4 A	31
A18 B	30	E5 C	30	J4 B	31
B3	30	G1	28	J5	31
B4	30	I13	30	J7	31

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1J		
1O		

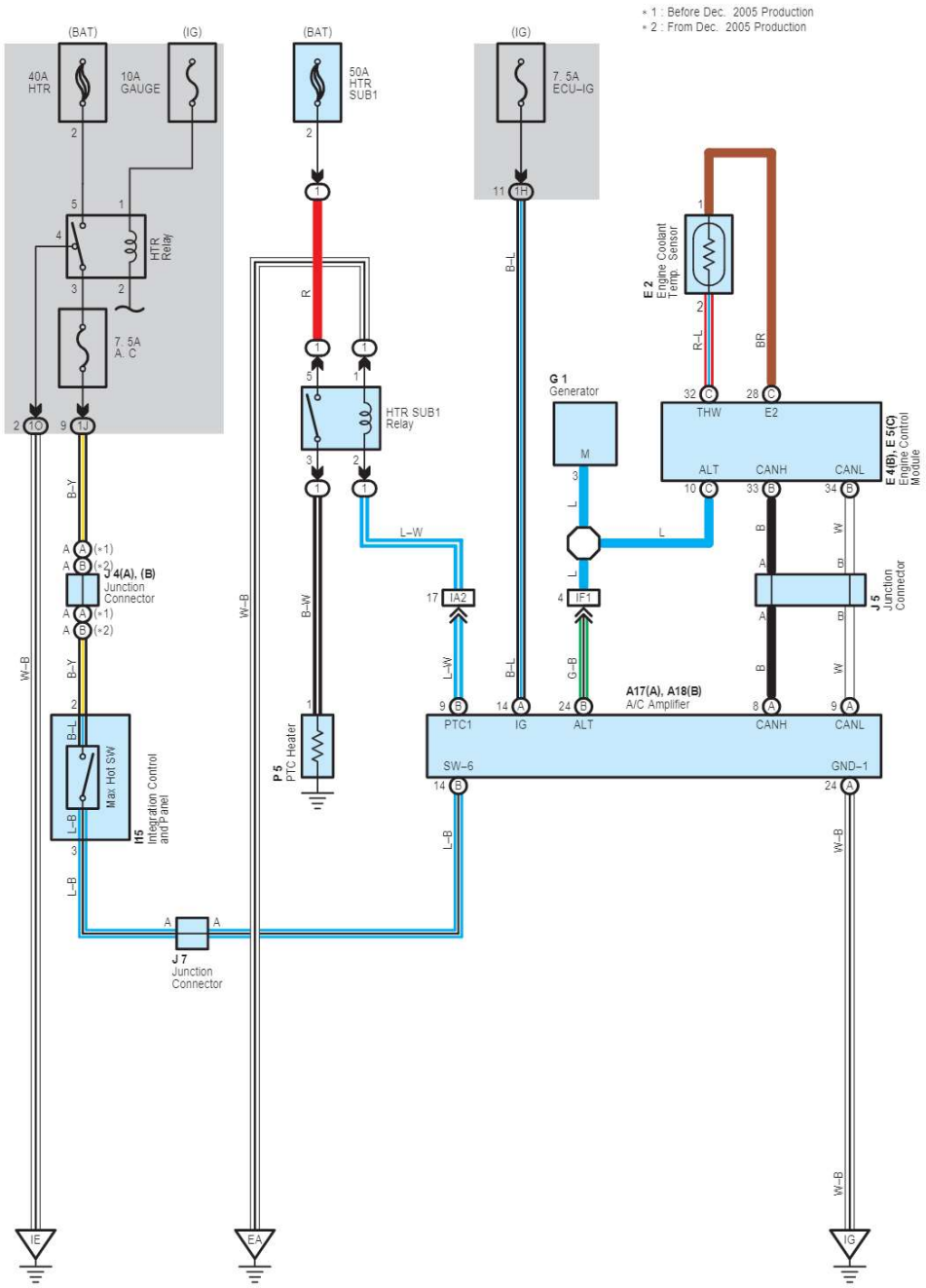
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	35	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IH1	35	Instrument Panel Wire and A/C Sub Wire (Right Side of A/C Unit)

: Ground Points

Code	See Page	Ground Points Location
IE	35	Left Kick Panel
IG	35	Right Kick Panel

PTC Heater


* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
(BAT)
(IG)
40A HTR
10A GAUGE
7.5A A/C
HTR Relay
50A HTR SUB1
HTR SUB1 Relay
7.5A ECU-IG
G 1 Generator
E 2 Engine Coolant Temp. Sensor
E 4(B), E 5(C) Engine Control Module
THW
E2
ALT
CANH
CANL
J 4(A), (B) Junction Connector
J 5 Junction Connector
J 7 Junction Connector
H5 Integration Control and Panel
Max Hot SW
P 5 PTC Heater
A17(A), A18(B) A/C Amplifier
PTC1
IG
ALT
CANH
CANL
SW-6
GND-1
IA2
IF1
B-Y
W-B
B-L
L-B
L-W
B-W
R
R-L
BR
L
G-B
W
IE
EA
IG

System Outline

When all of the following conditions are met, the PTC heater operates.
- The engine coolant temp. has reached the specified temperature.
- The engine RPM has exceeded the specified RPM for more than 5 seconds continuously.
- The max hot SW is on.

If any of the above conditions change, the PTC heater stops. The PTC heater is turned on/off according to the generator's charge/discharge condition.

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A17 A	30	E5 C	30	J4 B	31
A18 B	30	G1	28	J5	31
E2	28	I15	30	J7	31
E4 B	30	J4 A	31	P5	31

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

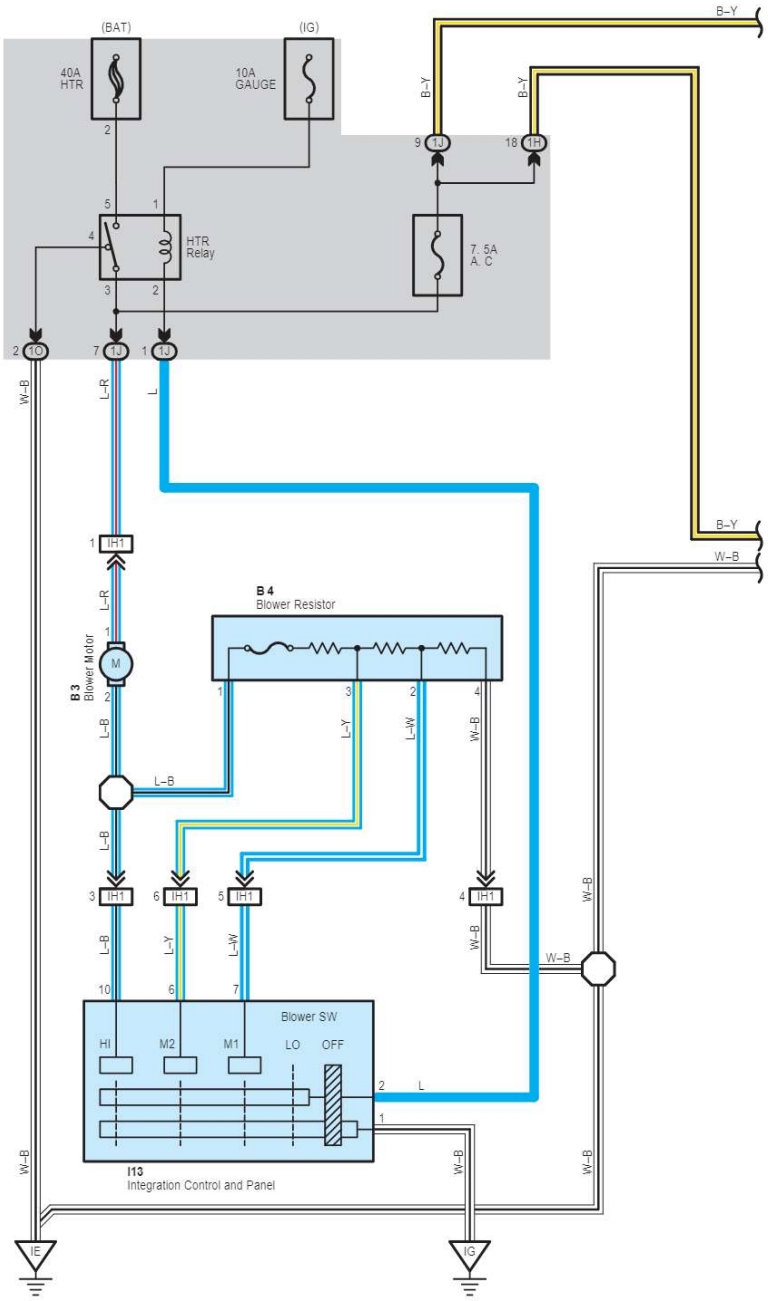
Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1J		
1O		

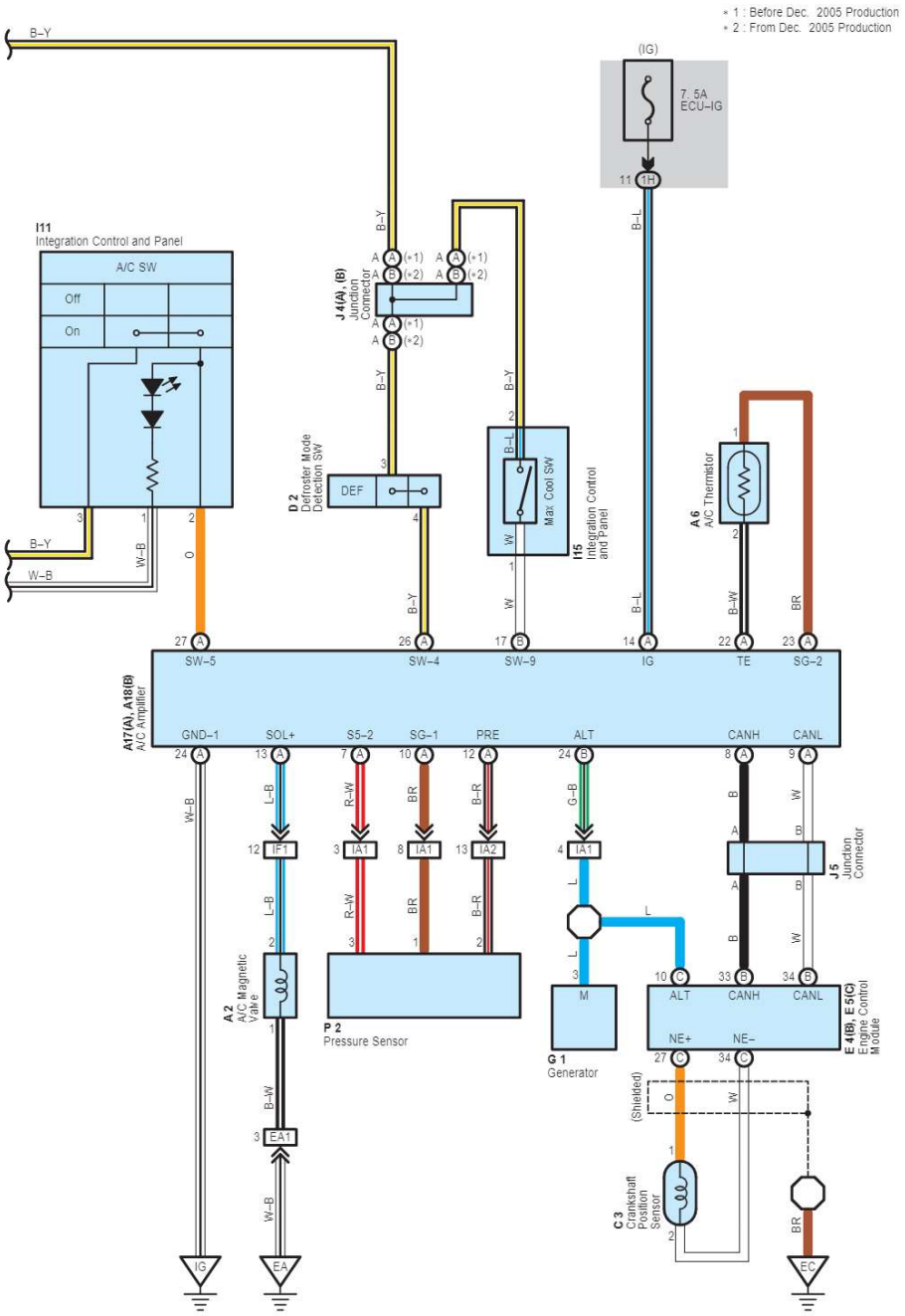
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IF1	35	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

: Ground Points

Code	See Page	Ground Points Location
EA	34	Front Right Fender Apron
IE	35	Left Kick Panel
IG	35	Right Kick Panel


(BAT)
(IG)
40A HTR
10A GAUGE
B-Y
B-Y
B-Y
9 1J
18 1H
HTR Relay
7.5A A/C
2 1O
7 1J
1 1J
W-B
L-R
L
1 IH1
B4 Blower Resistor
B3 Blower Motor
M
L-B
L-Y
L-W
W-B
3 IH1
6 IH1
5 IH1
4 IH1
10
6
7
Blower SW
HI
M2
M1
LO
OFF
I13 Integration Control and Panel
E
IG


* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
B–Y
(IG)
7.5A
ECU–IG
11
1H
B–L
I11
Integration Control and Panel
A/C SW
Off
On
J 4(A), (B)
Junction Connector
D 2
Defroster Mode Detection SW
DEF
I15
Integration Control and Panel
Max. Cool SW
A 6
A/C Thermistor
B–W
BR
W–B
O
W
27
26
17
14
22
23
SW–5
SW–4
SW–9
IG
TE
SG–2
A17(A), A18(B)
A/C Amplifier
GND–1
SOL+
S5–2
SG–1
PRE
ALT
CANH
CANL
24
13
7
10
12
24
8
9
L–B
R–W
BR
B–R
G–B
B
W
IF1
IA1
IA2
EA1
12
3
8
13
4
L
J 5
Junction Connector
A 2
A/C Magnetic Valve
P 2
Pressure Sensor
G 1
Generator
M
10
33
34
E 4(B), E 5(C)
Engine Control Module
NE+
NE–
27
34
(Shielded)
C 3
Crankshaft Position Sensor
IG
EA
EC

System Outline

Current is applied at all times through the HTR fuse to TERMINAL 5 of the HTR relay.
When the ignition SW is turned on, the current flows through the GAUGE fuse to TERMINAL 1 of the HTR relay to TERMINAL 2 to TERMINAL 2 of the blower SW.

1. Heater Blower Motor Operation

* Low speed operation
When the blower SW is moved to LO position, the current flows to TERMINAL 2 of the blower SW to TERMINAL 1 to GROUND, causing the HTR relay to turn on. This causes the current flows from the HTR fuse to TERMINAL 5 of the HTR relay to TERMINAL 3 to TERMINAL 1 of the blower motor to TERMINAL 2 to TERMINAL 1 of the blower resistor to TERMINAL 4 to GROUND, rotating the blower motor at low speed.

* Medium speed operation (Operation at M1, M2)
When the blower SW is moved to M1 position, the current flows to TERMINAL 2 of the blower SW to TERMINAL 1 to GROUND, causing the HTR relay to turn on. This causes the current flows from the HTR fuse to TERMINAL 5 of the HTR relay to TERMINAL 3 to TERMINAL 1 of the blower motor to TERMINAL 2 to TERMINAL 1 of the blower resistor to TERMINAL 2 to TERMINAL 7 of the blower SW to TERMINAL 1 to GROUND. At this time, the blower resistance of the blower resistor is smaller than at low speed, so the blower motor rotates at medium low speed.
When the blower SW is moved to M2 position, the current flows through the HTR relay to TERMINAL 1 of the blower motor to TERMINAL 2 to TERMINAL 1 of the blower resistor to TERMINAL 3 to TERMINAL 6 of the blower SW to TERMINAL 1 to GROUND. At this time, resistance of the blower resistor is smaller than at M1 position, so the blower motor rotates at medium high speed.

* High speed operation
When the blower SW is moved to HI position, the current flows to TERMINAL 2 of the blower SW to TERMINAL 1 to GROUND, causing the HTR relay to turn on.
This causes the current flows from the HTR fuse to TERMINAL 5 of the HTR relay to TERMINAL 3 to TERMINAL 1 of the blower motor to TERMINAL 2 to TERMINAL 10 of the blower SW to TERMINAL 1 to GROUND, rotating the blower motor at high speed.

2. Air Conditioning Operation

When the blower SW is set on, the current flows from the HTR fuse to the HTR relay (Point side) to the A.C fuse to the TERMINAL 3 of the A/C SW. If the A/C SW is turned on, at this time a signal is input into the A/C amplifier. This activates the A/C amplifier.

3. DEF or FOOT & DEF Synchronized Control Function

When the blower SW is on and the heater control lever (Air vent mode control lever) turned to DEF position, it causes A/C to run whether A/C SW is on or not.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A2	28	C3	28	I13	30
A6	30	D2	30	I15	30
A17 A	30	E4 B	30	J4 A	31
A18 B	30	E5 C	30	J4 B	31
B3	30	G1	28	J5	31
B4	30	I11	30	P2	29

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1J		
1O		

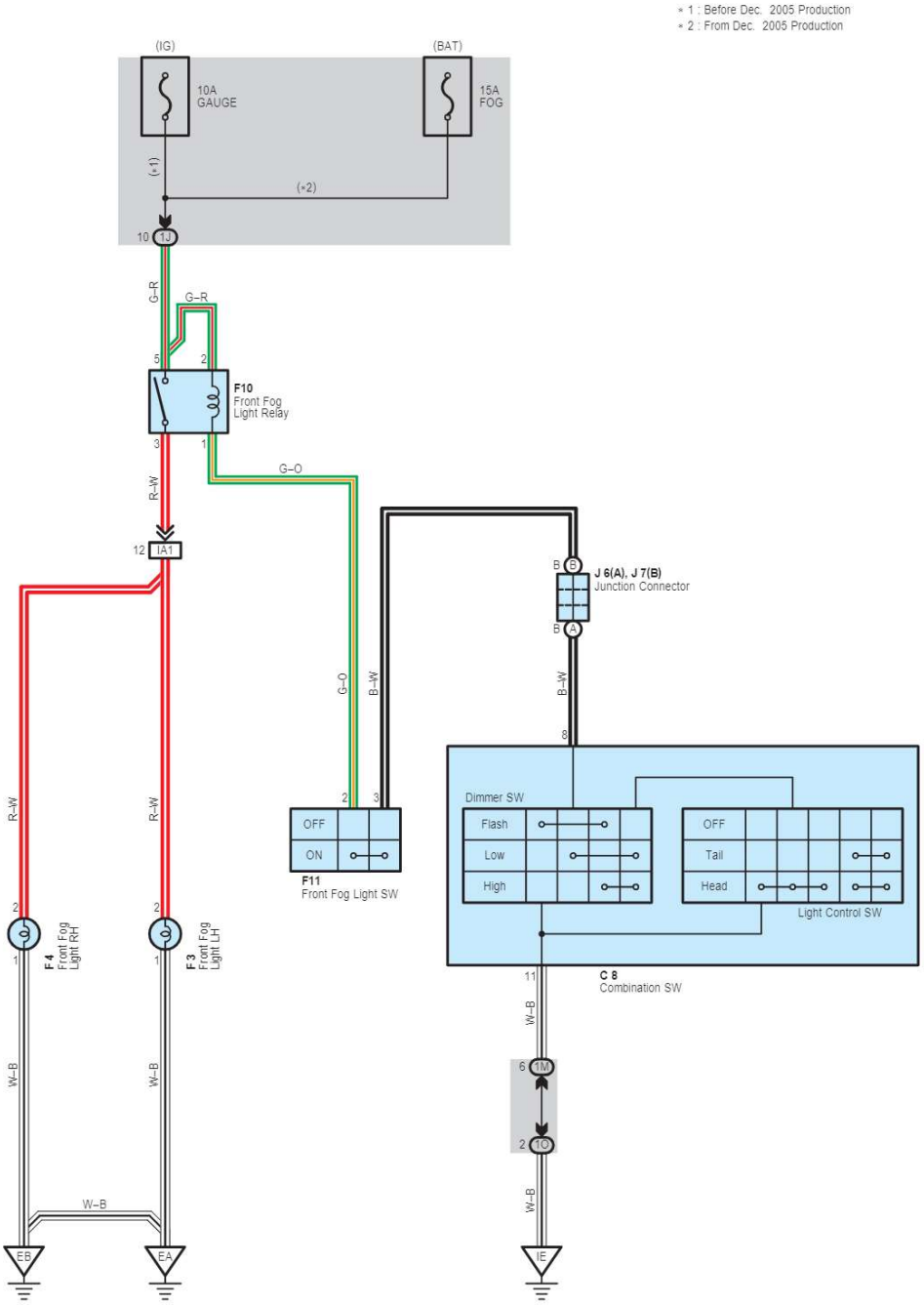
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	34	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B)
IA1	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IA2		
IF1	35	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IH1	35	Instrument Panel Wire and A/C Sub Wire (Right Side of A/C Unit)

: **Ground Points**

Code	See Page	Ground Points Location
EA	34	Front Right Fender Apron
EC	34	Engine Block
IE	35	Left Kick Panel
IG	35	Right Kick Panel

Fog Light


* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
(IG)
(BAT)
10A
GAUGE
15A
FOG
(*1)
(*2)
10
1J
G-R
G-R
5
2
F10
Front Fog
Light Relay
3
1
R-W
G-O
12
1A1
B
B
J 6(A), J 7(B)
Junction Connector
B
A
G-O
B-W
B-W
8
2
3
OFF
ON
F11
Front Fog Light SW
Dimmer SW
Flash
Low
High
OFF
Tail
Head
Light Control SW
C 8
Combination SW
11
W-B
6
1W
2
1C
W-B
R-W
R-W
2
2
1
1
F4
Front Fog
Light RH
F3
Front Fog
Light LH
W-B
W-B
W-B
EB
EA
IE

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
C8	30	F10	30	J7 B	31
F3	28	F11	30		
F4	28	J6 A	31		

⬭ : **Junction Block and Wire Harness Connector**

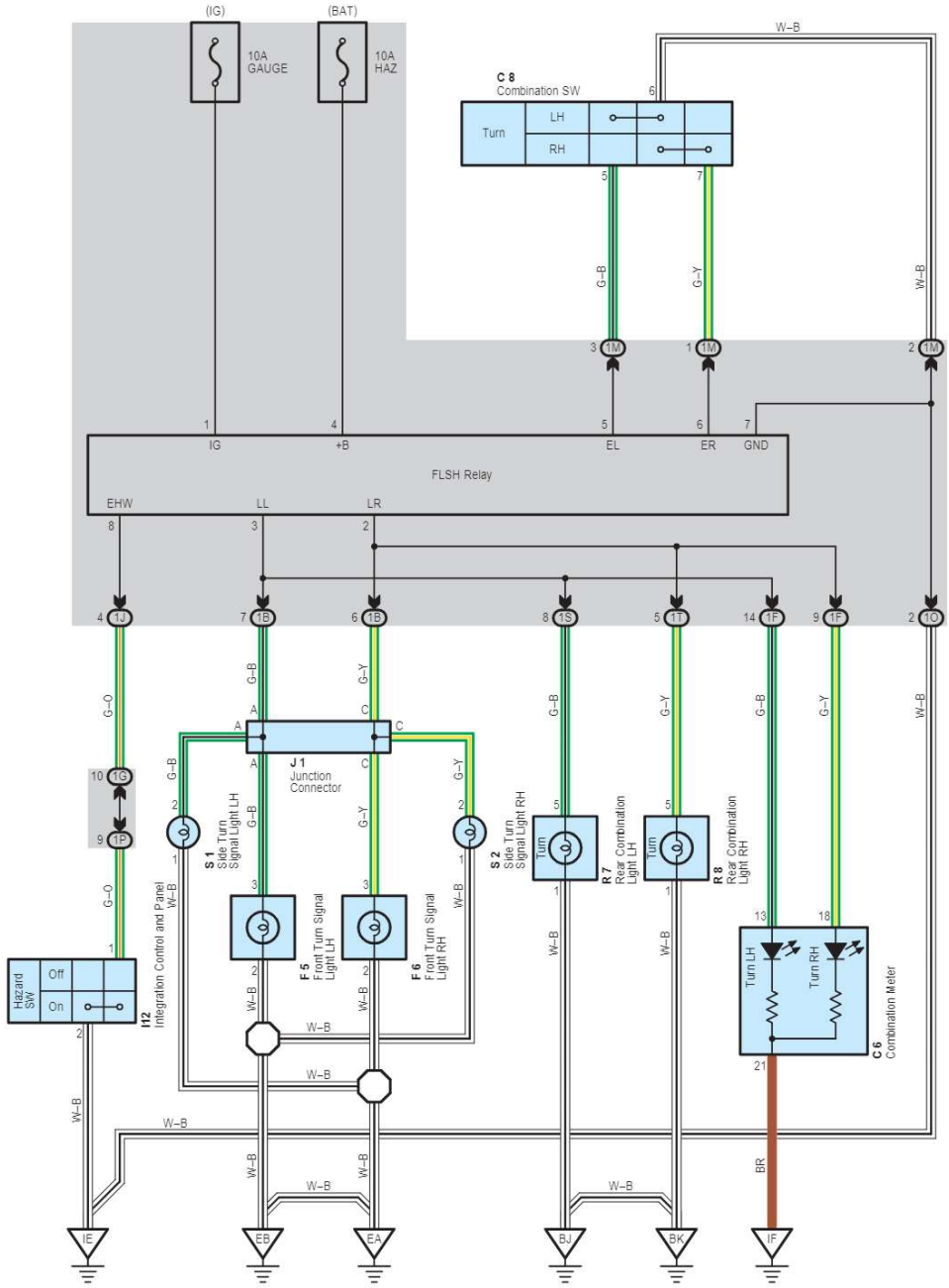
Code	See Page	Junction Block and Wire Harness (Connector Location)
1J	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1M		
1O		

▭ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	35	Engine Room Main Wire and Instrument Panel Wire (Behind the Reinforcement LH)

▽ : **Ground Points**

Code	See Page	Ground Points Location
EA	34	Front Right Fender Apron
EB	34	Front Left Fender Apron
IE	35	Left Kick Panel


(IG)
(BAT)
10A GAUGE
10A HAZ
C 8
Combination SW
Turn
LH
RH
W–B
G–B
G–Y
FLSH Relay
IG
+B
EL
ER
GND
EHW
LL
LR
J 1
Junction Connector
S 1
Side Turn Signal Light LH
S 2
Side Turn Signal Light RH
F 5
Front Turn Signal Light LH
F 6
Front Turn Signal Light RH
R 7
Rear Combination Light LH
R 8
Rear Combination Light RH
I12
Integration Control and Panel
Hazard SW
Off
On
Turn LH
Turn RH
C6
Combination Meter
BR
IE
EB
EA
BJ
BK
IF

○ : **Parts Location**

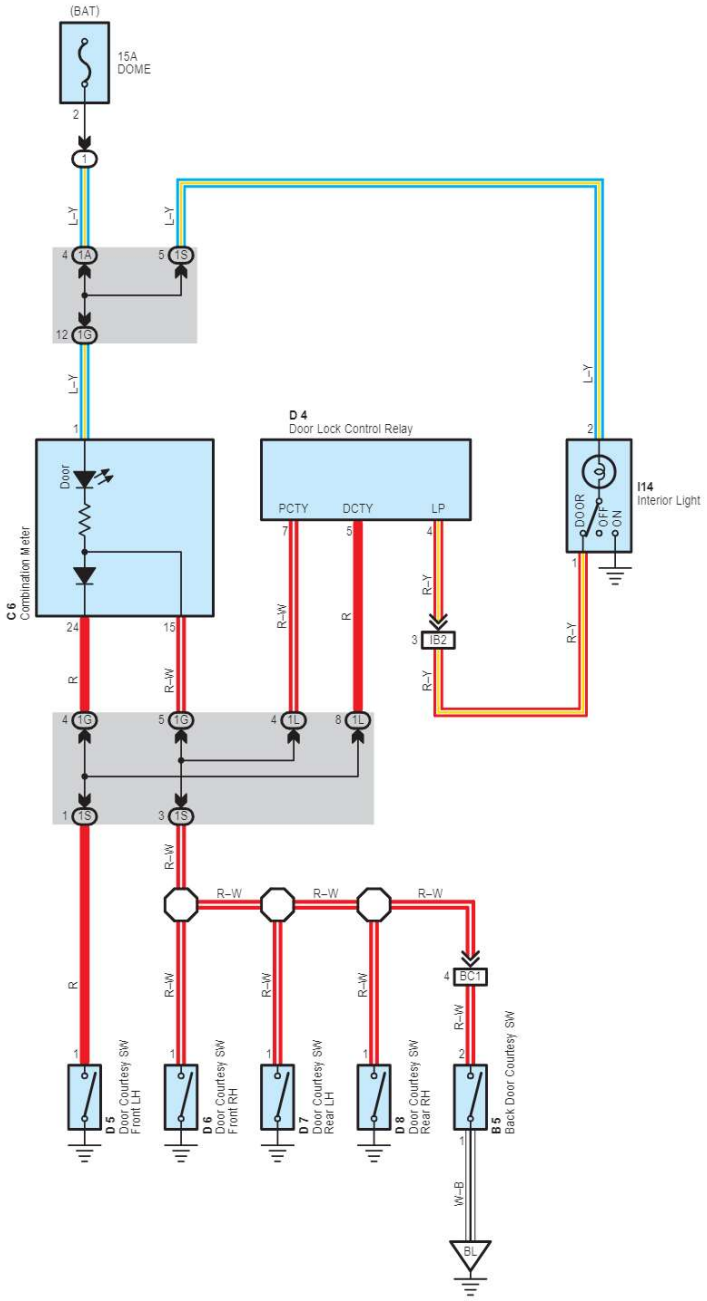
Code	See Page	Code	See Page	Code	See Page
C6	30	I12	30	S1	29
C8	30	J1	31	S2	29
F5	28	R7	33		
F6	28	R8	33		

⬭ : **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1F	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1J		
1M		
1O		
1P		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)
1T		

▽ : **Ground Points**

Code	See Page	Ground Points Location
EA	34	Front Right Fender Apron
EB	34	Front Left Fender Apron
IE	35	Left Kick Panel
IF	35	Instrument Panel Brace LH
BJ	36	Rear Quarter Panel Inner LH
BK	36	Rear Quarter Panel Inner RH


(BAT)
15A
DOME
2
1
L-Y
4 1A
5 1S
12 1G
L-Y
1
D 4
Door Lock Control Relay
PCTY
DCTY
LP
7
5
4
L-Y
2
I14
Interior Light
DOOR
OFF
ON
1
Door
C 6
Combination Meter
24
15
R
R-W
R-W
R
R-Y
3 IB2
R-Y
R-Y
4 1G
5 1G
4 1L
8 1L
1 1S
3 1S
R-W
R-W
R-W
R-W
R
R-W
R-W
R-W
R-W
4 BC1
R-W
2
1
1
1
1
1
D 5
Door Courtesy SW
Front LH
D 6
Door Courtesy SW
Front RH
D 7
Door Courtesy SW
Rear LH
D 8
Door Courtesy SW
Rear RH
B 5
Back Door Courtesy SW
W-B
BL

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
B5	32	D5	32	D8	32
C6	30	D6	32	I14	32
D4	30	D7	32		

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

⬭ : **Junction Block and Wire Harness Connector**

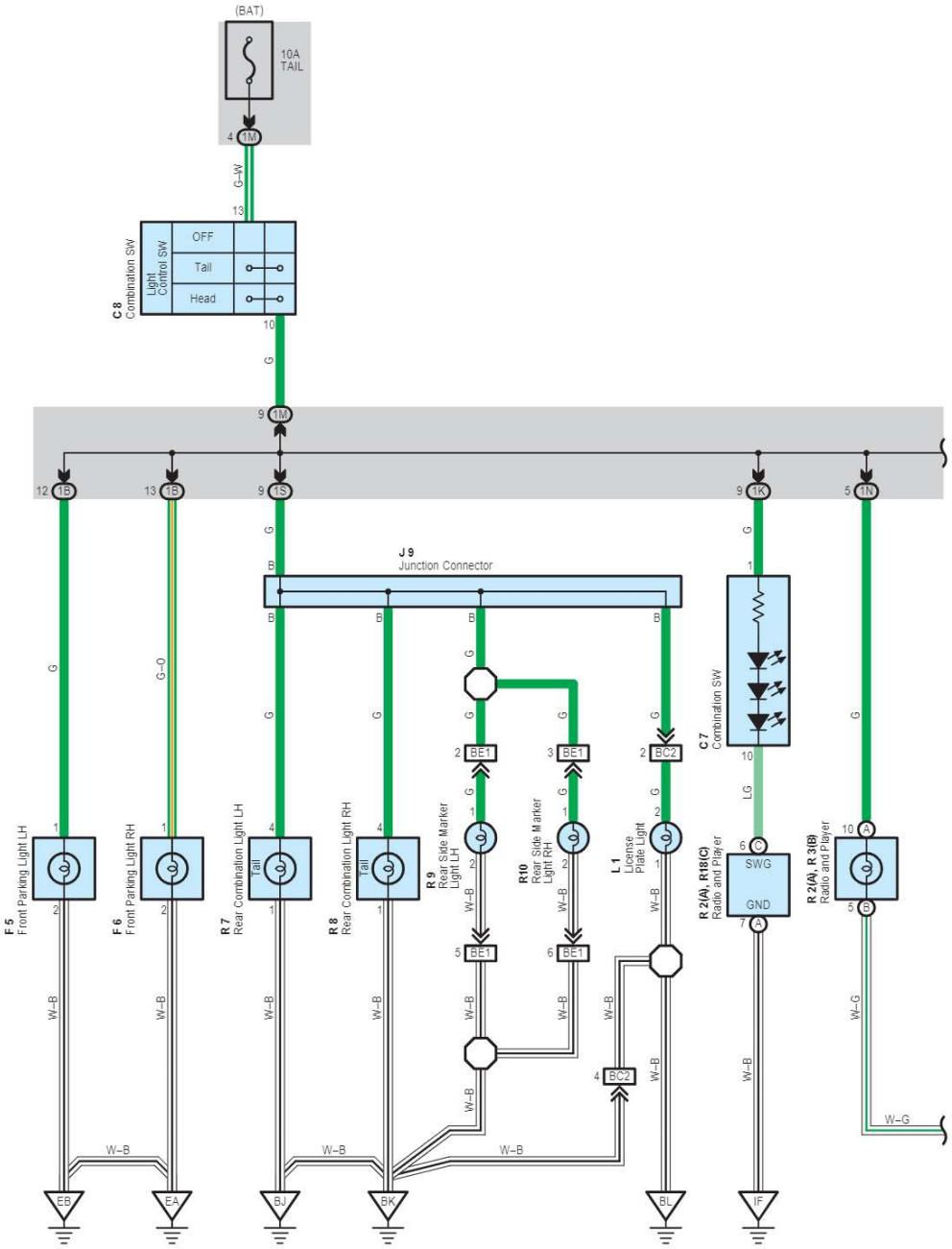
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1G	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1L		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

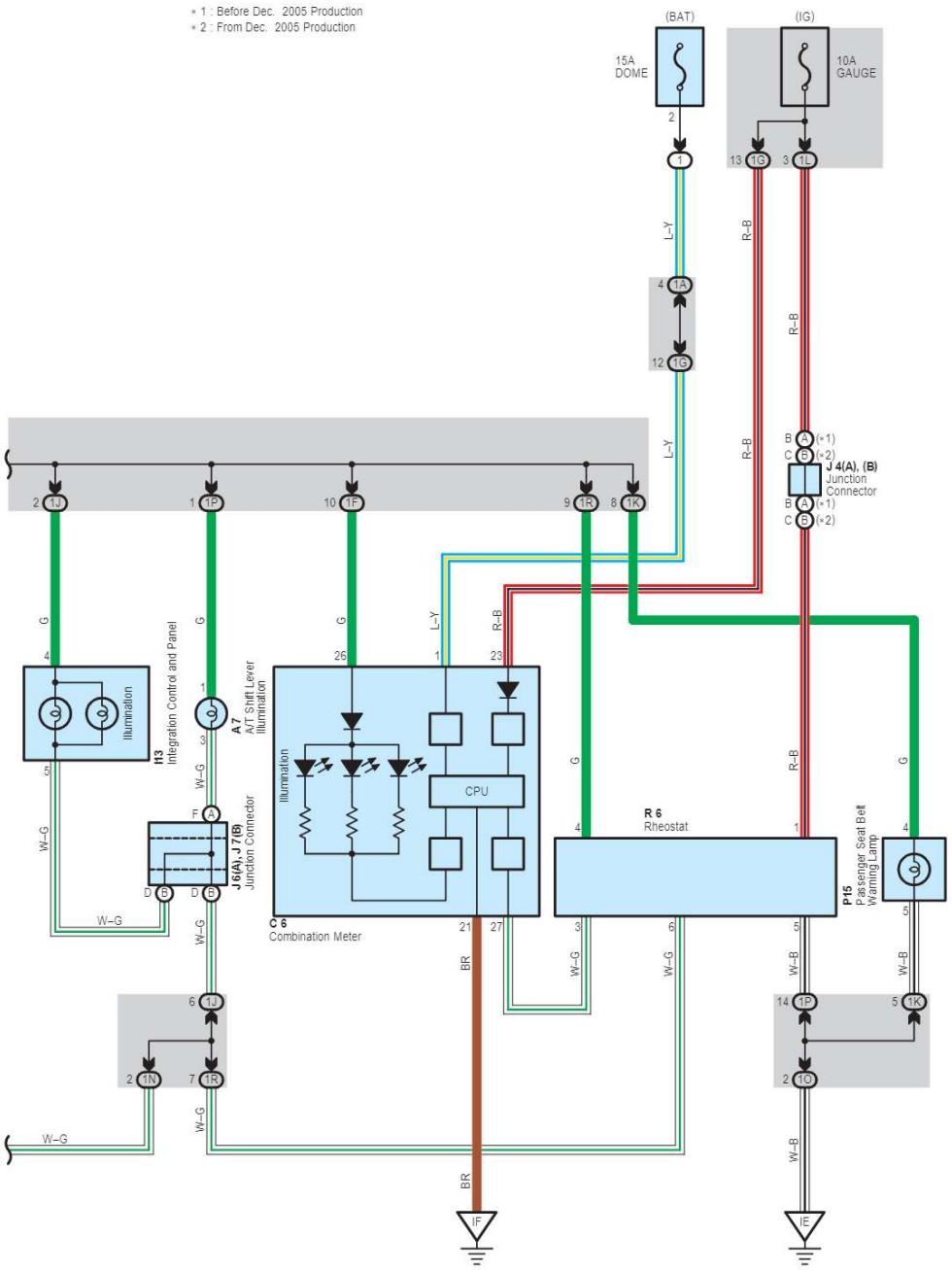
▭ : **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)
BC1	36	Back Door No.1 Wire and Floor Wire (Right Rear Side Quarter Pillar)

▽ : **Ground Points**

Code	See Page	Ground Points Location
BL	36	Back Door Center


(BAT)
10A
TAIL
4 1M
G–W
13
C 8
Combination SW
Light Control SW
OFF
Tail
Head
10
G
9 1M
12 1B
13 1B
9 1S
9 1K
5 1N
J 9
Junction Connector
F 5
Front Parking Light LH
F 6
Front Parking Light RH
R 7
Rear Combination Light LH
Tail
R 8
Rear Combination Light RH
Tail
R 9
Rear Side Marker Light LH
R10
Rear Side Marker Light RH
L 1
License Plate Light
C 7
Combination SW
R 2(A), R18(C)
Radio and Player
SWG
GND
R 2(A), R 3(B)
Radio and Player
2 BE1
3 BE1
2 BC2
5 BE1
6 BE1
4 BC2
W–B
W–G
G
G–O
LG
EB
EA
BJ
BK
BL
IF


* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
(BAT)
(IG)
15A DOME
10A GAUGE
J 4(A), (B) Junction Connector
I13 Integration Control and Panel
A7 A/T Shift Lever Illumination
J6(A), J7(B) Junction Connector
C 6 Combination Meter
R 6 Rheostat
P15 Passenger Seat Belt Warning Lamp
CPU
Illumination
L–Y
R–B
W–G
BR
G
W–B

Taillight and Illumination

: Parts Location

Code	See Page	Code	See Page	Code	See Page
A7	30	J4 B	31	R6	31
C6	30	J6 A	31	R7	33
C7	30	J7 B	31	R8	33
C8	30	J9	32	R9	33
F5	28	L1	32	R10	33
F6	28	P15	31	R18	31
I13	30	R2 A	31		
J4 A	31	R3 B	31		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

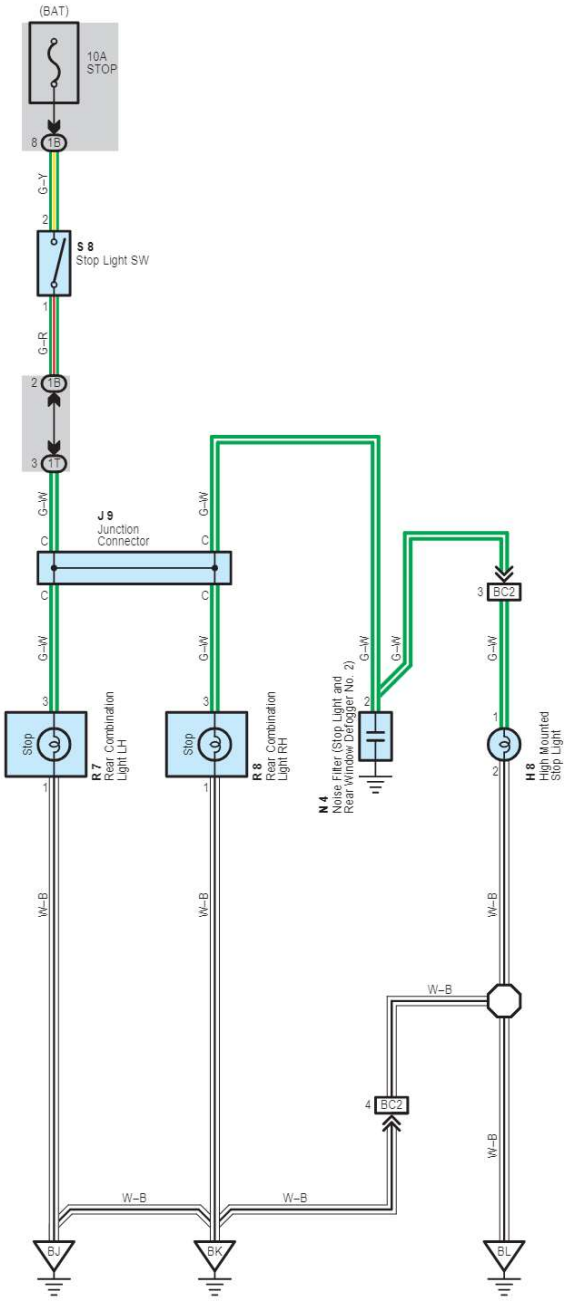
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1F	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1J		
1L		
1K		
1M		
1N		
1O		
1P		
1R		
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BC2	36	Back Door No.1 Wire and Floor Wire (Right Rear Side Quarter Pillar)
BE1	36	Floor Wire and Lamp Wire (Back Panel Center)

: Ground Points

Code	See Page	Ground Points Location
EA	34	Front Right Fender Apron
EB	34	Front Left Fender Apron
IE	35	Left Kick Panel
IF	35	Instrument Panel Brace LH
BJ	36	Rear Quarter Panel Inner LH
BK	36	Rear Quarter Panel Inner RH
BL	36	Back Door Center



SCION xB (EM0091U)

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
H8	32	N4	33	R8	33
J9	32	R7	33	S8	31

: **Junction Block and Wire Harness Connector**

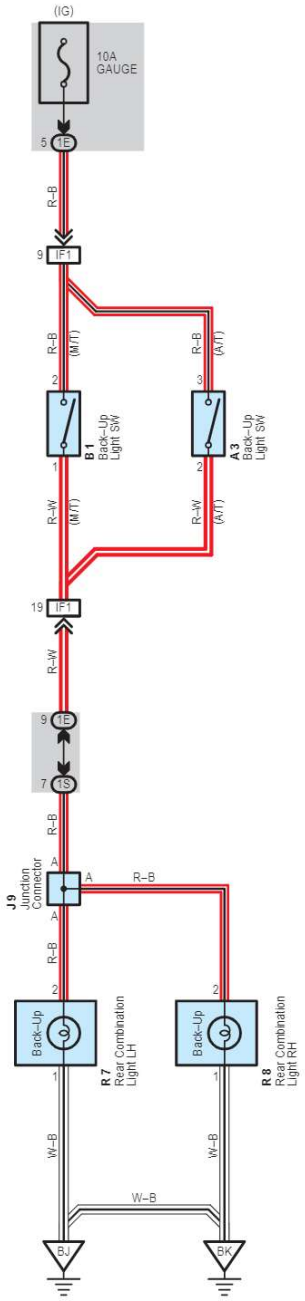
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1T	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BC2	36	Back Door No.1 Wire and Floor Wire (Right Rear Side Quarter Pillar)

: **Ground Points**

Code	See Page	Ground Points Location
BJ	36	Rear Quarter Panel Inner LH
BK	36	Rear Quarter Panel Inner RH
BL	36	Back Door Center


(IG)
10A
GAUGE
5
1E
R–B
9
IF1
R–B
(M/T)
R–B
(A/T)
2
3
B1
Back–Up
Light SW
A3
Back–Up
Light SW
1
2
R–W
(M/T)
R–W
(A/T)
15
IF1
R–W
9
1E
7
1S
R–B
A
J9
Junction
Connector
A
R–B
A
R–B
2
2
Back–Up
Back–Up
R 7
Rear Combination
Light LH
R 8
Rear Combination
Light RH
1
1
W–B
W–B
W–B
BJ
BK

○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
A3	28	J9	32	R8	33
B1	28	R7	33		

: **Junction Block and Wire Harness Connector**

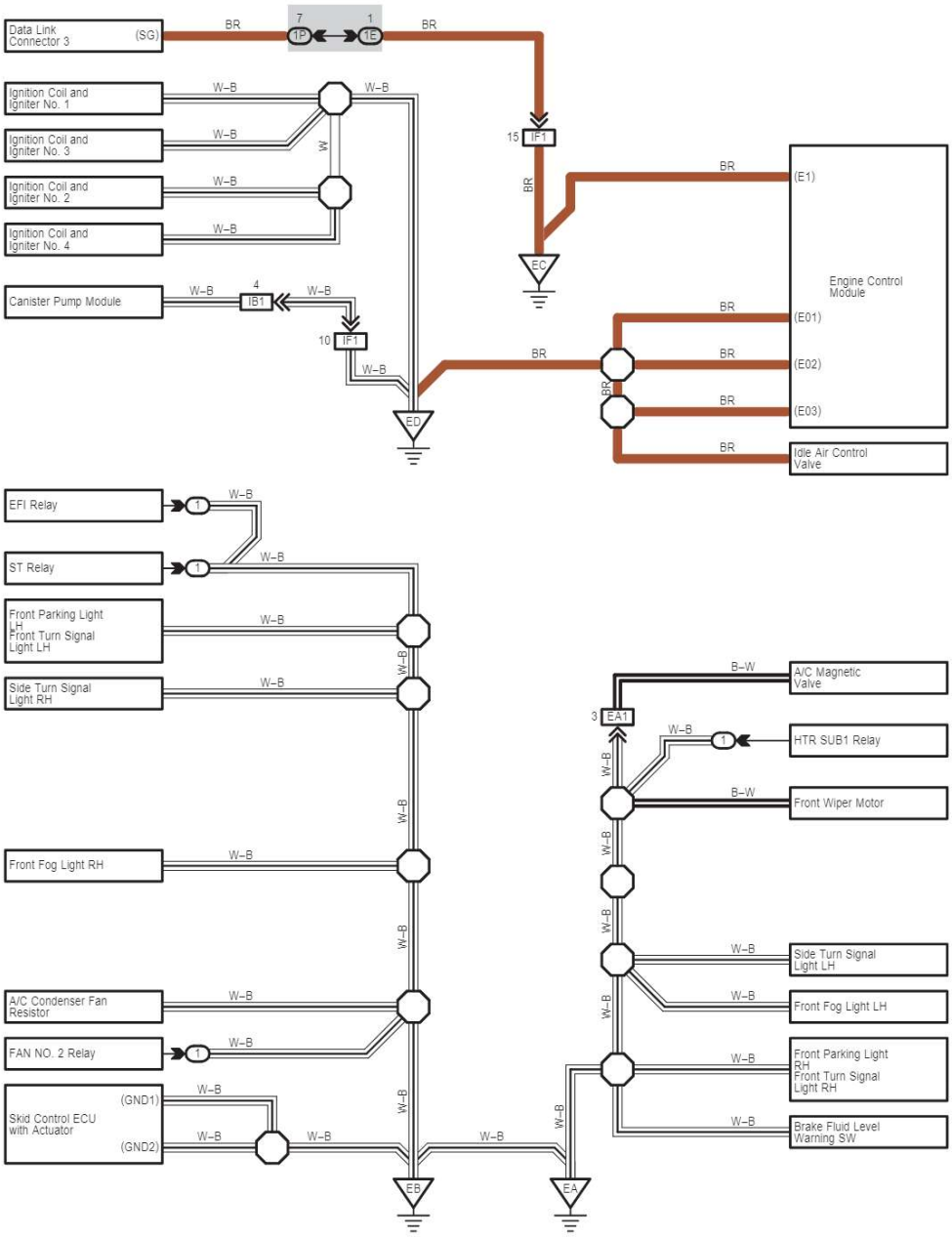
Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1S	24	Floor Wire and Instrument Panel J/B (Lower Finish Panel)

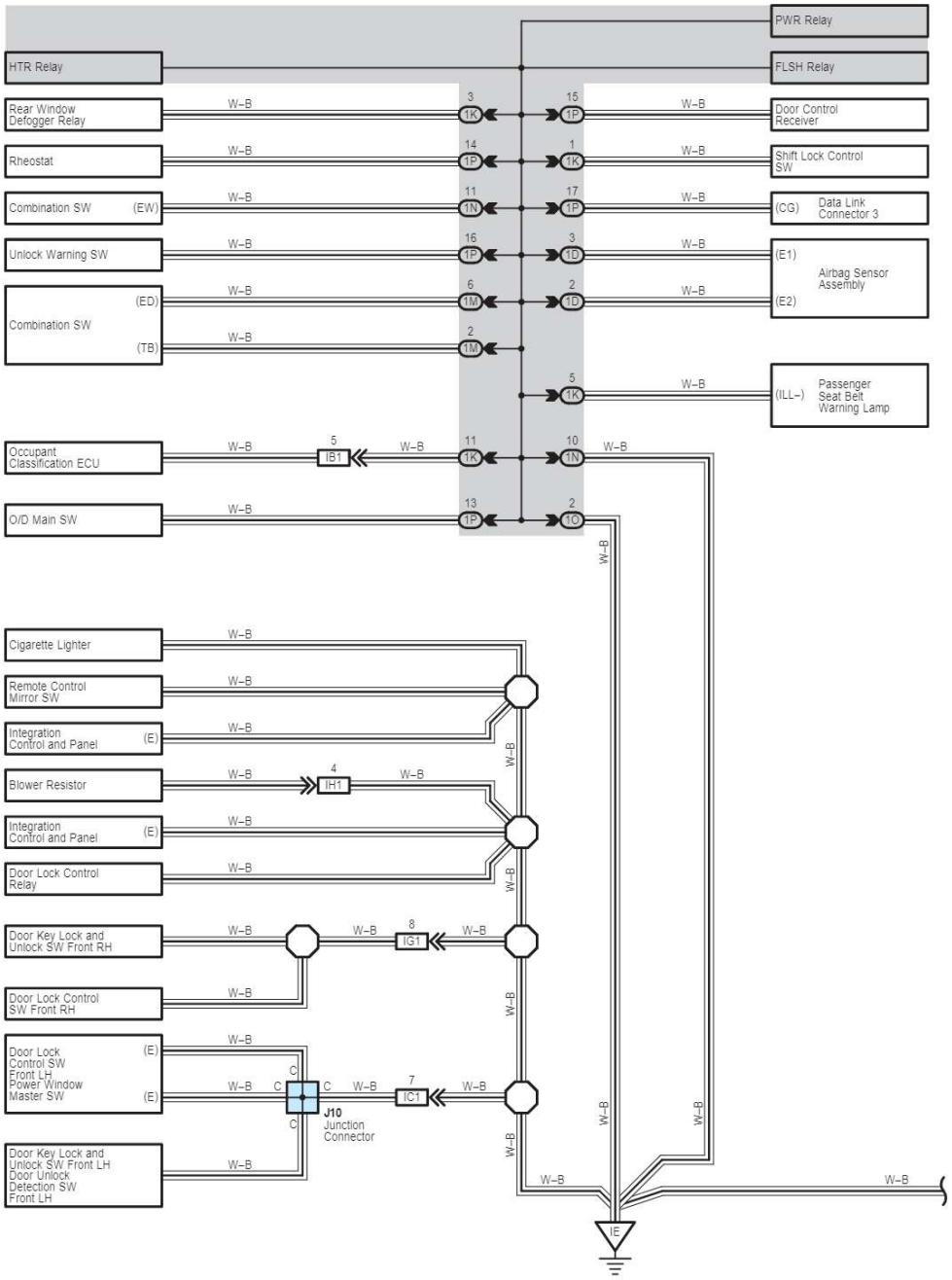
: **Connector Joining Wire Harness and Wire Harness**

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	35	Engine Wire and Instrument Panel Wire (Behind the Glove Box)

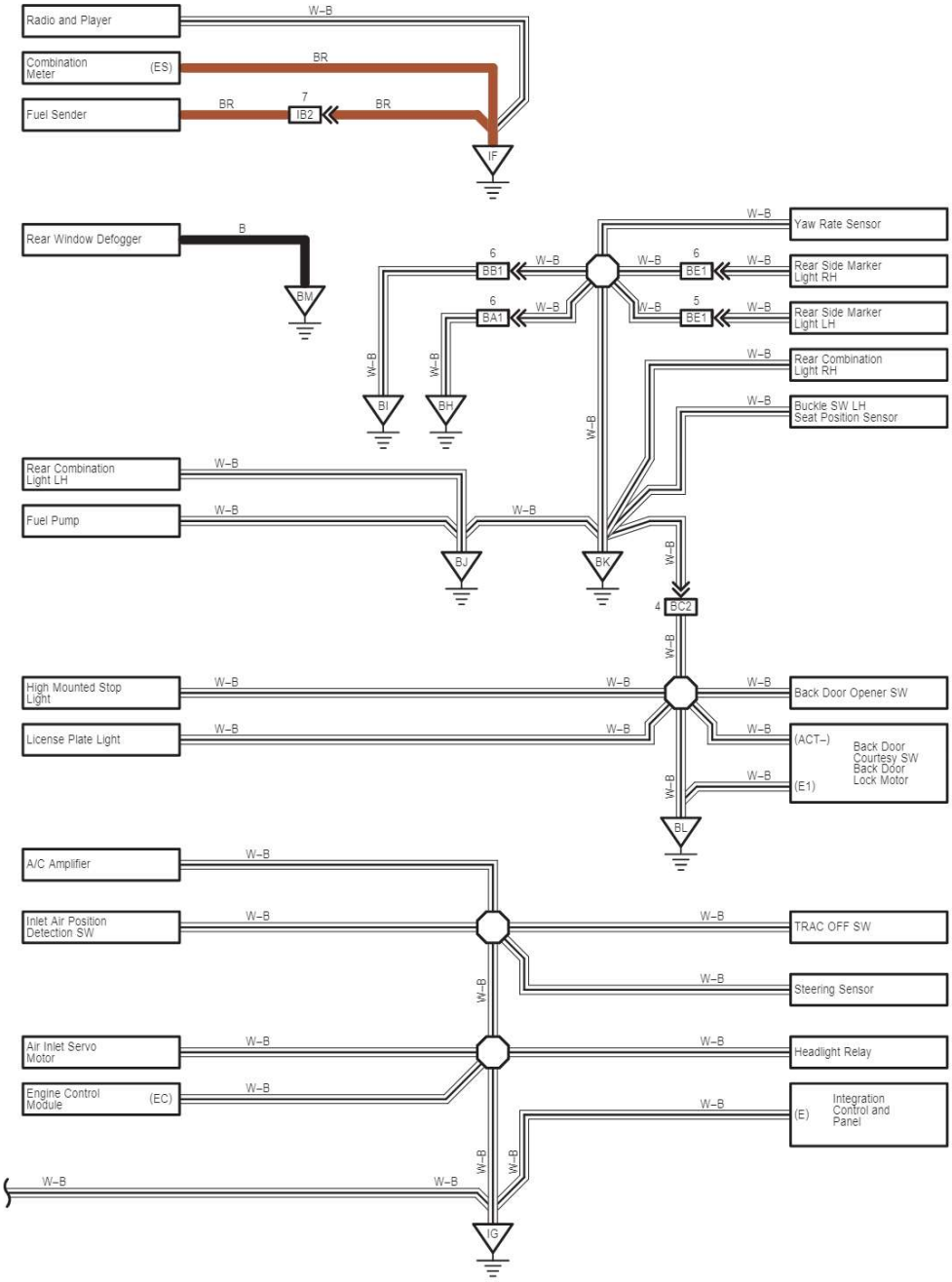
: **Ground Points**

Code	See Page	Ground Points Location
BJ	36	Rear Quarter Panel Inner LH
BK	36	Rear Quarter Panel Inner RH


Data Link Connector 3
(SG)
BR
7
1P
1
1E
BR
Ignition Coil and Igniter No. 1
Ignition Coil and Igniter No. 3
Ignition Coil and Igniter No. 2
Ignition Coil and Igniter No. 4
W-B
W
15
IF1
BR
EC
BR
(E1)
Engine Control Module
BR
(E01)
BR
(E02)
BR
(E03)
BR
Idle Air Control Valve
Canister Pump Module
4
IB1
10
IF1
ED
EFI Relay
ST Relay
Front Parking Light LH
Front Turn Signal Light LH
Side Turn Signal Light RH
Front Fog Light RH
A/C Condenser Fan Resistor
FAN NO. 2 Relay
Skid Control ECU with Actuator
(GND1)
(GND2)
EB
EA
3
EA1
B-W
A/C Magnetic Valve
HTR SUB1 Relay
Front Wiper Motor
Side Turn Signal Light LH
Front Fog Light LH
Front Parking Light RH
Front Turn Signal Light RH
Brake Fluid Level Warning SW


PWR Relay
HTR Relay
FLSH Relay
Rear Window Defogger Relay
Door Control Receiver
Rheostat
Shift Lock Control SW
Combination SW (EW)
Data Link Connector 3 (CG)
Unlock Warning SW
Airbag Sensor Assembly (E1)
Combination SW (ED)
(E2)
(TB)
Passenger Seat Belt Warning Lamp (ILL-)
Occupant Classification ECU
O/D Main SW
Cigarette Lighter
Remote Control Mirror SW
Integration Control and Panel (E)
Blower Resistor
Door Lock Control Relay
Door Key Lock and Unlock SW Front RH
Door Lock Control SW Front RH
Door Lock Control SW Front LH Power Window Master SW (E)
J10 Junction Connector
Door Key Lock and Unlock SW Front LH Door Unlock Detection SW Front LH
W-B
IE

I GROUND POINT



○ : **Parts Location**

Code	See Page	Code	See Page	Code	See Page
J10	32				

⬭ : **Relay Blocks**

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

⬭ : **Junction Block and Wire Harness Connector**

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	25	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1K		
1M		
1N		
1O		
1P		

▭ : **Connector Joining Wire Harness and Wire Harness**

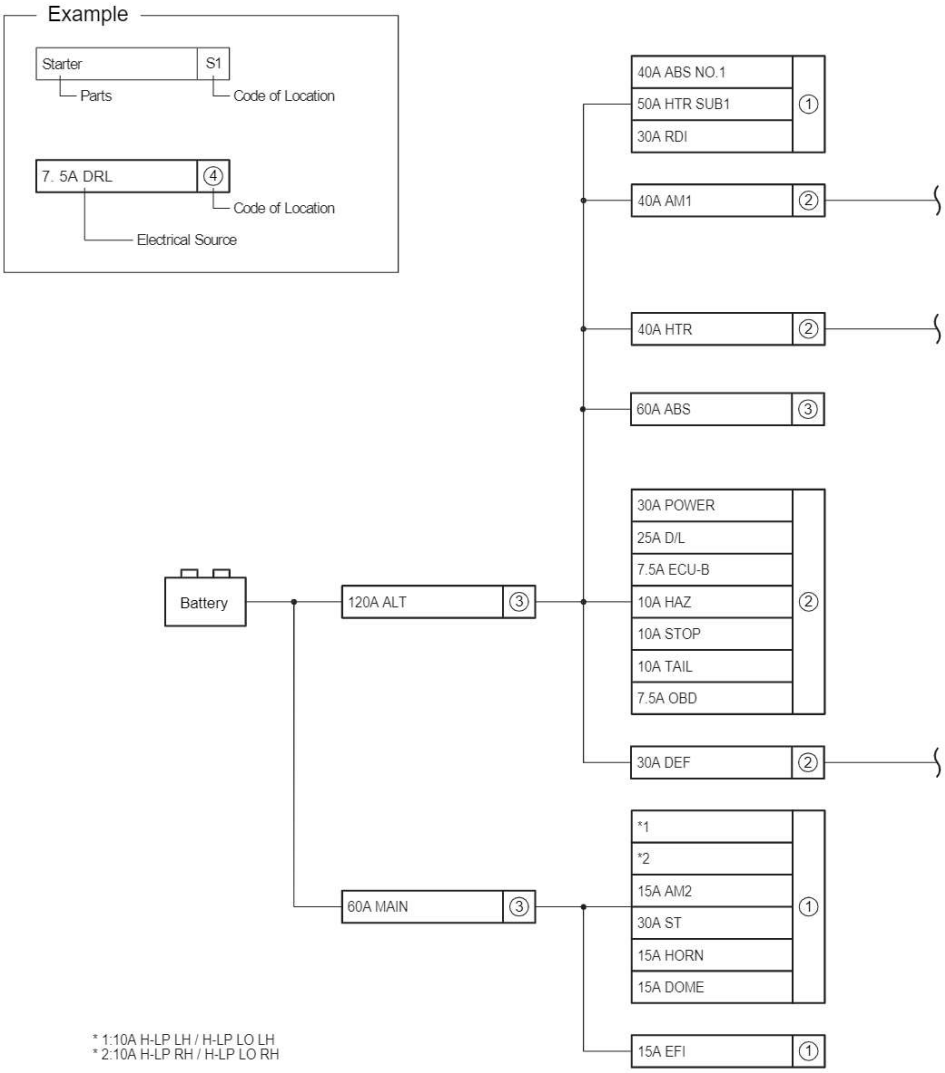
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	34	Engine Wire and Engine Room Main Wire (Inside of Engine Room R/B)
IB1	35	Floor Wire and Instrument Panel Wire (Behind the Reinforcement LH)
IB2		
IC1	35	Front Door LH Wire and Instrument Panel Wire (Left Kick Panel)
IF1	35	Engine Wire and Instrument Panel Wire (Behind the Glove Box)
IG1	35	Front Door RH Wire and Instrument Panel Wire (Right Kick Panel)
IH1	35	Instrument Panel Wire and A/C Sub Wire (Right Side of A/C Unit)
BA1	36	Rear Door No.1 LH Wire and Floor Wire (Center Pillar LH)
BB1	36	Rear Door No.1 RH Wire and Floor Wire (Center Pillar RH)
BC2	36	Back Door No.1 Wire and Floor Wire (Right Rear Side Quarter Pillar)
BE1	36	Floor Wire and Lamp Wire (Back Panel Center)

▽ : **Ground Points**

Code	See Page	Ground Points Location
EA	34	Front Right Fender Apron
EB	34	Front Left Fender Apron
EC	34	Engine Block
ED		
IE	35	Left Kick Panel
IF	35	Instrument Panel Brace LH
IG	35	Right Kick Panel
BH	36	Rear Door LH
BI	36	Rear Door RH
BJ	36	Rear Quarter Panel Inner LH
BK	36	Rear Quarter Panel Inner RH
BL	36	Back Door Center
BM	36	Back Door LH

J POWER SOURCE (Current Flow Chart)

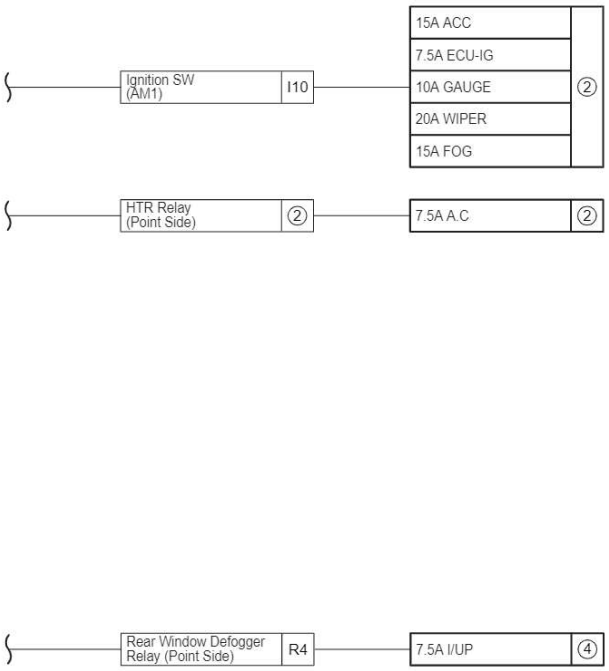
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other parts.



[LOCATION]

① : Engine Room R/B (See Page 22) ② : Instrument Panel J/B (See Page 24)

④ : Fuse Block (F15 on See Page 30)



③ : Fusible Link Block (See Page 23)

Engine Room R/B (See Page 22)

Fuse		System	Page
7.5A	A/C	Air Conditioning	164
		PTC Heater	162
10A	H–LP LH/H–LP LO LH	Headlight	58
		Wireless Door Lock Control	90
10A	H–LP RH/H–LP LO RH	Headlight	58
		Wireless Door Lock Control	90
15A	AM2	ABS, TRAC and VSC	104
		Charging	46
		Combination Meter	150
		Electronically Controlled Transmission and A/T Indicator	98
		Engine Control	48
		Seat Belt Warning (From Dec. 2005 Production)	130
		SRS (Before Dec. 2005 Production)	114
		SRS (From Dec. 2005 Production)	118
		Starting and Ignition	42
15A	DOME	ABS, TRAC and VSC	104
		Audio System	146
		Combination Meter	150
		Door Lock Control	82
		Engine Control	48
		Headlight	58
		Interior Light	64
		Key Reminder	126
		Light Reminder	138
		Seat Belt Warning (Before Dec. 2005 Production)	128
		Seat Belt Warning (From Dec. 2005 Production)	130
		SRS (Before Dec. 2005 Production)	114
		SRS (From Dec. 2005 Production)	118
		Taillight and Illumination	66
		Wireless Door Lock Control	90
15A	EFI	Electronically Controlled Transmission and A/T Indicator	98
		Engine Control	48
15A	HORN	Horn	142
		Wireless Door Lock Control	90
30A	RDI	Radiator Fan and Condenser Fan	156
30A	ST	Starting and Ignition	42
40A	ABS NO.1	ABS, TRAC and VSC	104
50A	HTR SUB1	PTC Heater	162

Instrument Panel J/B (See Page 24)

Fuse		System	Page
7.5A	A.C	Two Way Flow Heater	158

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

Fuse		System	Page
7.5A	ECU–B	ABS, TRAC and VSC	104
		Multiplex Communication System (CAN)	110
		Seat Belt Warning (From Dec. 2005 Production)	130
		SRS (From Dec. 2005 Production)	118
7.5A	ECU–IG	ABS, TRAC and VSC	104
		Air Conditioning	164
		Multiplex Communication System (CAN)	110
		PTC Heater	162
		Radiator Fan and Condenser Fan	156
		Two Way Flow Heater	158
7.5A	OBD	Electronically Controlled Transmission and A/T Indicator	98
		Engine Control	48
10A	GAUGE	ABS, TRAC and VSC	104
		Air Conditioning	164
		Audio System	146
		Back–Up Light	72
		Charging	46
		Combination Meter	150
		Door Lock Control	82
		Electronically Controlled Transmission and A/T Indicator	98
		Engine Control	48
		Fog Light	60
		Key Reminder	126
		Light Reminder	138
		Power Window	78
		PTC Heater	162
		Rear Window Defogger	144
		Seat Belt Warning (Before Dec. 2005 Production)	128
		Seat Belt Warning (From Dec. 2005 Production)	130
		Shift Lock	124
		SRS (Before Dec. 2005 Production)	114
		SRS (From Dec. 2005 Production)	118
		Taillight and Illumination	66
		Turn Signal and Hazard Warning Light	62
		Two Way Flow Heater	158
		Wireless Door Lock Control	90
10A	HAZ	Turn Signal and Hazard Warning Light	62
10A	STOP	ABS, TRAC and VSC	104
		Electronically Controlled Transmission and A/T Indicator	98
		Engine Control	48
		Shift Lock	124
		Stop Light	70

* 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
10A	TAIL	Engine Control	48
		Light Reminder	138
		Taillight and Illumination	66
15A	ACC	Audio System	146
		Cigarette Lighter	140
		Remote Control Mirror	136
15A	FOG	Fog Light	60
20A	WIPER	Front Wiper and Washer	74
		Rear Wiper and Washer	76
25A	D/L	Door Lock Control	82
		Wireless Door Lock Control	90
30A	DEF	Rear Window Defogger	144
30A	POWER	Power Window	78
40A	HTR	Air Conditioning	164
		PTC Heater	162
		Two Way Flow Heater	158

Fusible Link Block (See Page 23)

Fuse		System	Page
60A	ABS	ABS, TRAC and VSC	104
60A	MAIN	ABS, TRAC and VSC	104
		Charging	46
		Combination Meter	150
		Electronically Controlled Transmission and A/T Indicator	98
		Engine Control	48
		Seat Belt Warning (From Dec. 2005 Production)	130
		SRS (Before Dec. 2005 Production)	114
		SRS (From Dec. 2005 Production)	118
		Starting and Ignition	42
120A	ALT	ABS, TRAC and VSC	104
		Charging	46

Fuse Block (F15 on See Page 30)

Fuse		System	Page
7.5A	I/UP	Rear Window Defogger	144

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

K CONNECTOR LIST

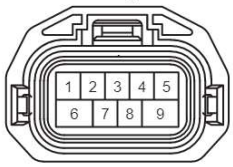
A 1
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A 2
Gray



A 3
Gray



A 4



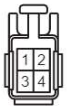
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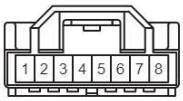
A 6



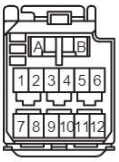
A 7
Blue



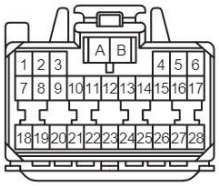
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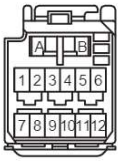
A 9
Yellow



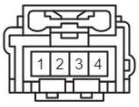
A10
Yellow



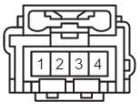
A11
Yellow



A12
Yellow



A13
Yellow



A14



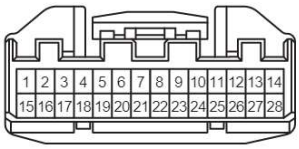
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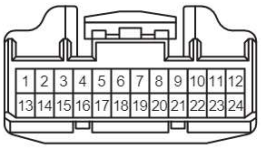
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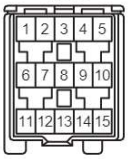
A17



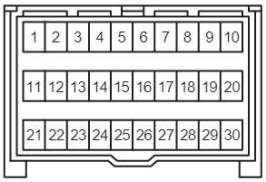
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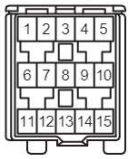
A19
Yellow



A20
Yellow



A21
Yellow



B 1
Gray



B 2
Gray



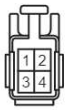
B 3
Black



B 4
Black



B 5



B 6



B 7



B 8



B 9
Gray



B10



C 1
Black



C 2
Black



C 3
Black



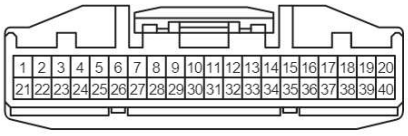
C 4



C 5



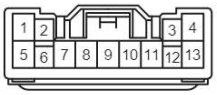
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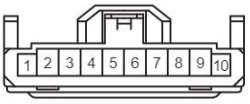
C 7
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C 8



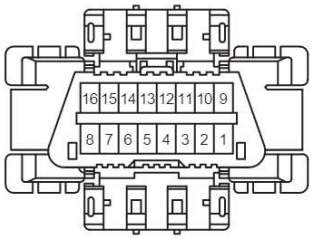
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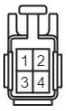
C10
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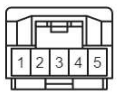
D 1



D 2

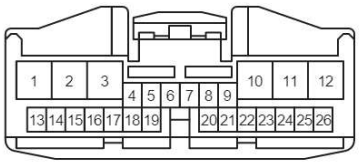


D 3



K CONNECTOR LIST

D 4



D 5



D 6



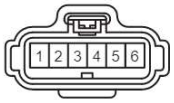
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D 8



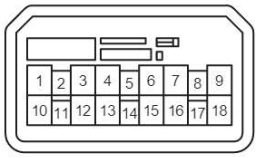
D 9
Black



D10
Black



D11



D12



D13
Black



D14
Black



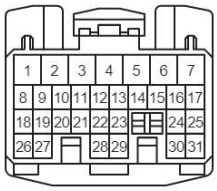
E 1
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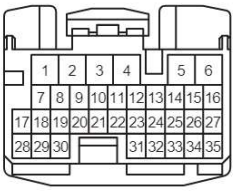
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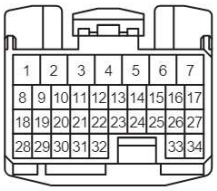
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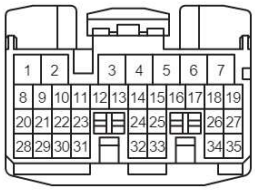
E 4
Black



E 5



E 6



F 1
Yellow



F 2
Yellow



F 3
Brown



F 4
Brown



F 5



F 6

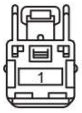


F 7
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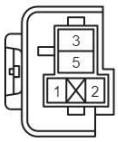


F 8
Black
(See Page 23)

F 9
Black



F10



F11



F12
Gray



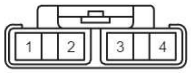
F13
Gray



F14
Dark Gray



F15



F16
Yellow



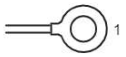
F17
Yellow



G 1
Black



G 2



H 1



H 2



H 3
Gray



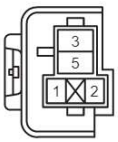
H 4
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H 5
Black



H 6



H 7
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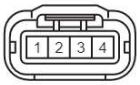
H 8
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I 1
Black



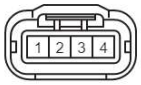
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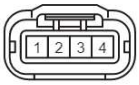
I 3
Gray



I 4
Black



I 5
Gray



I 6
Black



I 7
Gray



I 8
Black



I 9
Gray



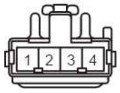
I10



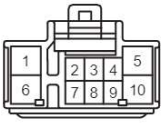
I11



I12
Gray



I13



K CONNECTOR LIST

*1 : Before Dec. 2005 Production
*2 : From Dec. 2005 Production

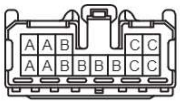
I14



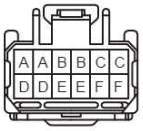
I15



J 1



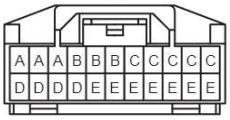
J 2
Black



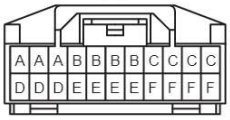
J 3
Black



J 4
(*1)



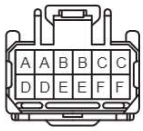
J 4
(*2)



J 5



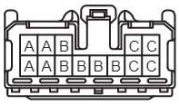
J 6



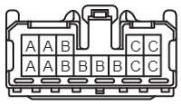
J 7



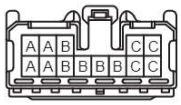
J 8



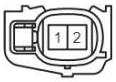
J 9



J10



K 1
Black



L 1
Blue



M 1
Black



N 1
Gray



N 2



N 3



N 4



O 1
Gray



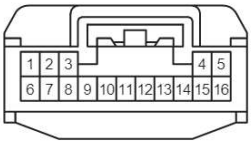
O 2



O 3



O 4



O 5
Black



O 6
Gray



O 7
Black



O 8
Black



O 9
Black



O10
Black



P 1
Black



P 2
Black



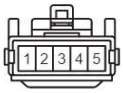
P 3



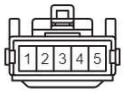
P 5



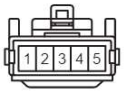
P 6



P 7



P 8



P 9



P10



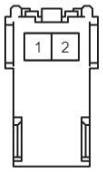
P11



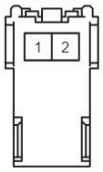
P12



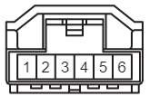
P13
Yellow



P14
Yellow



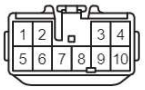
P15



R 1
Gray



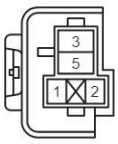
R 2
Blue



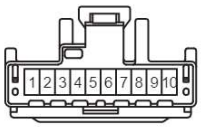
R 3



R 4



R 5



R 6



R 7



R 8



R 9



R10



R11



R12



R13
Black



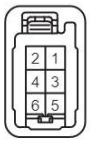
R14
Black



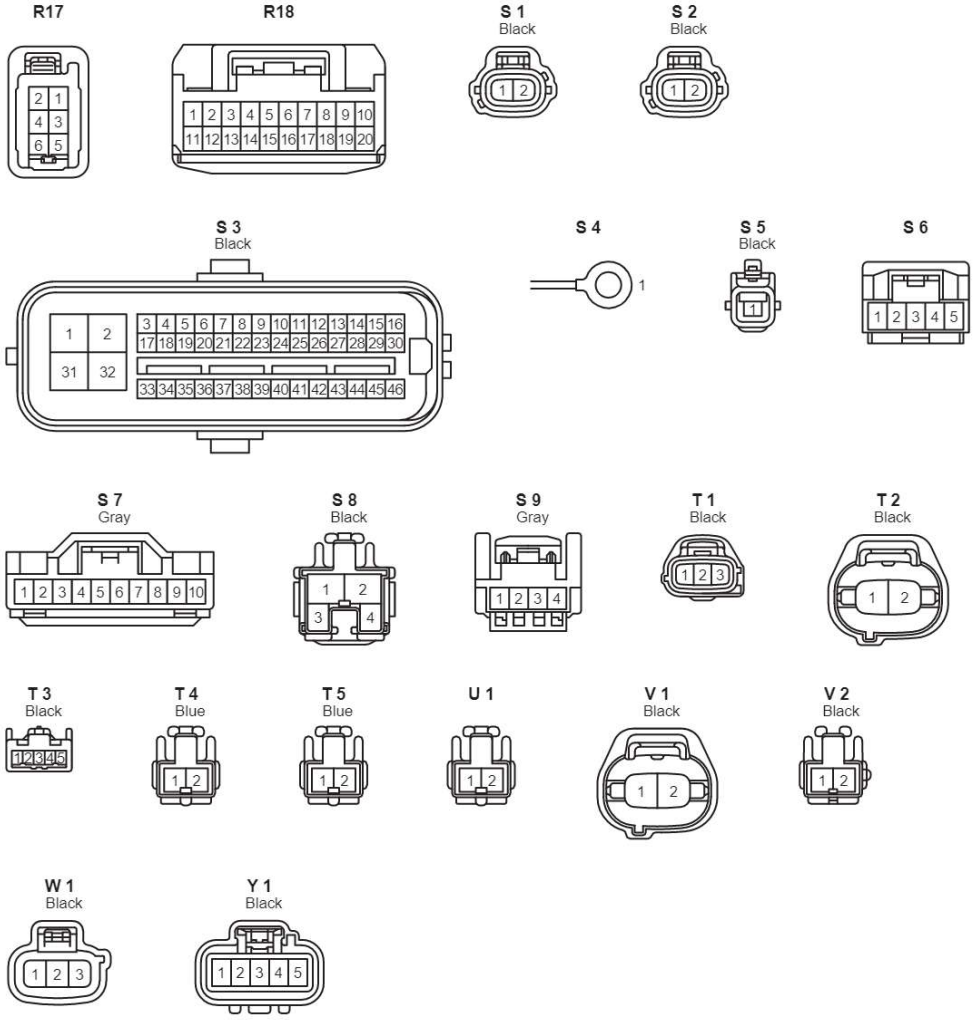
R15



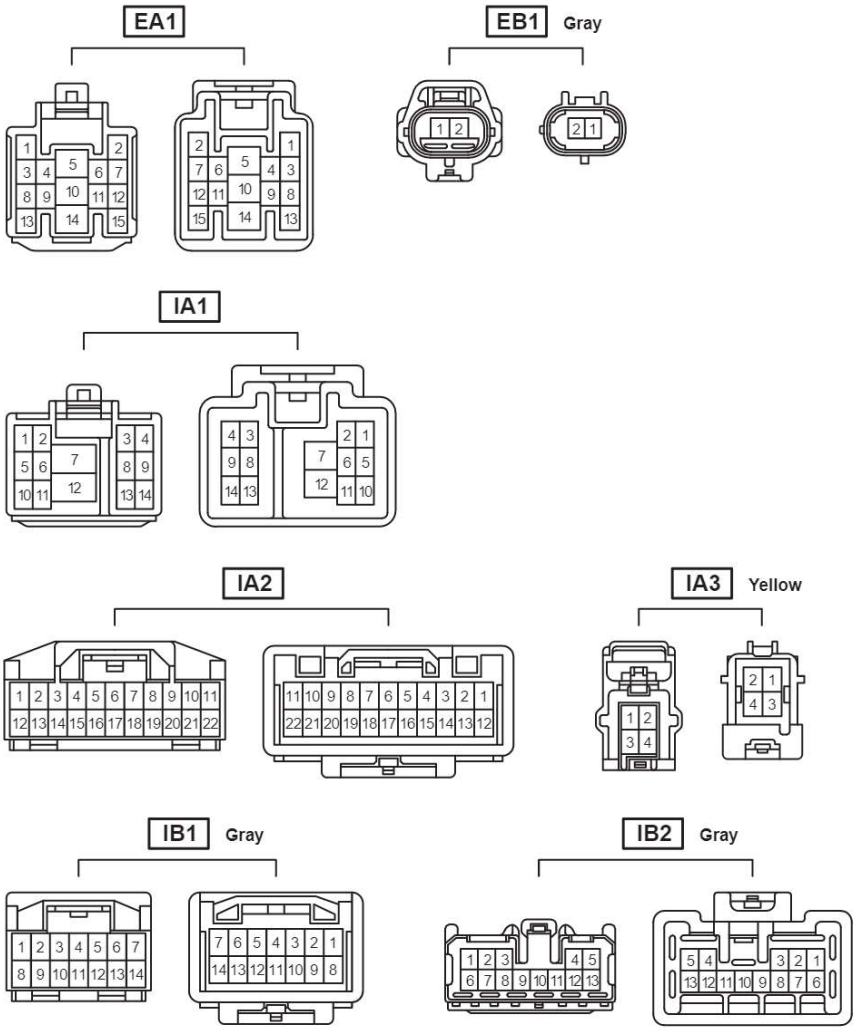
R16

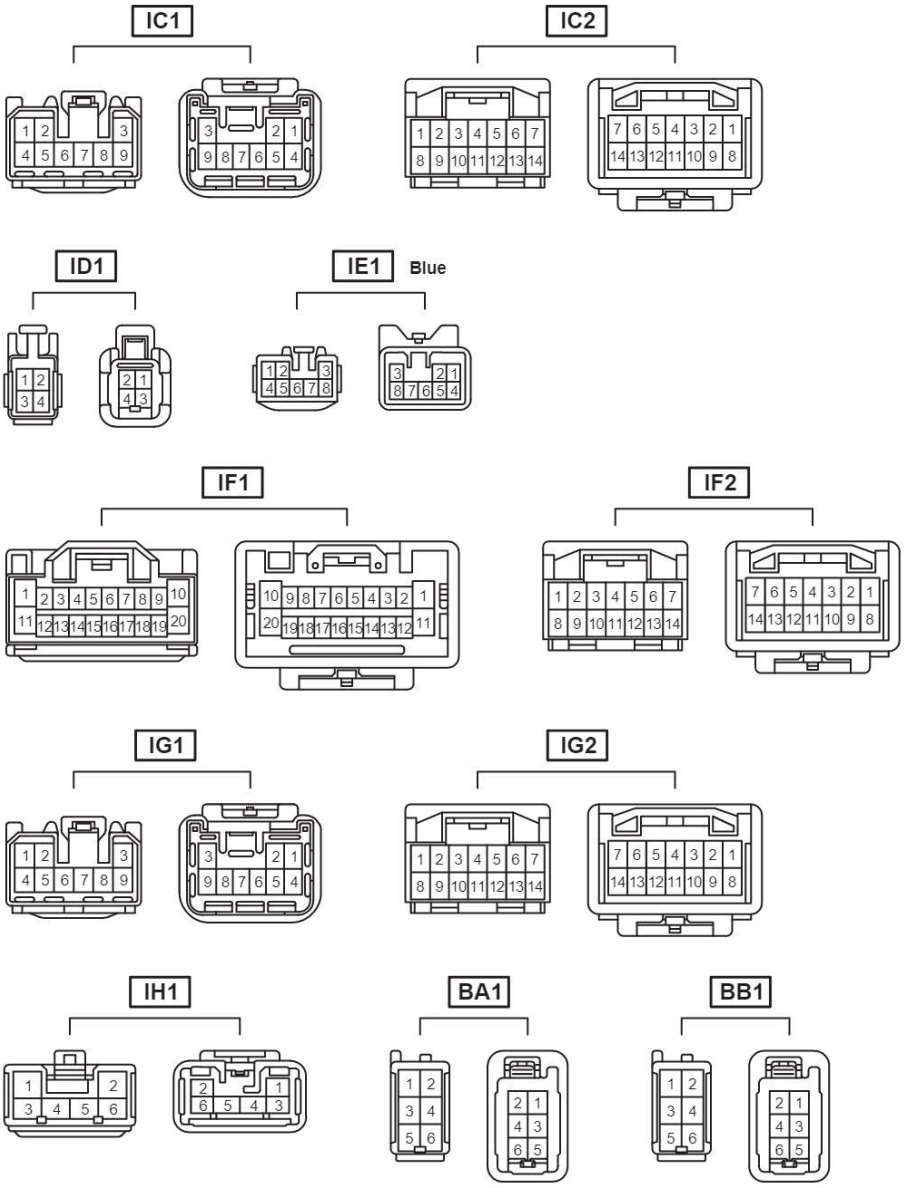


K CONNECTOR LIST

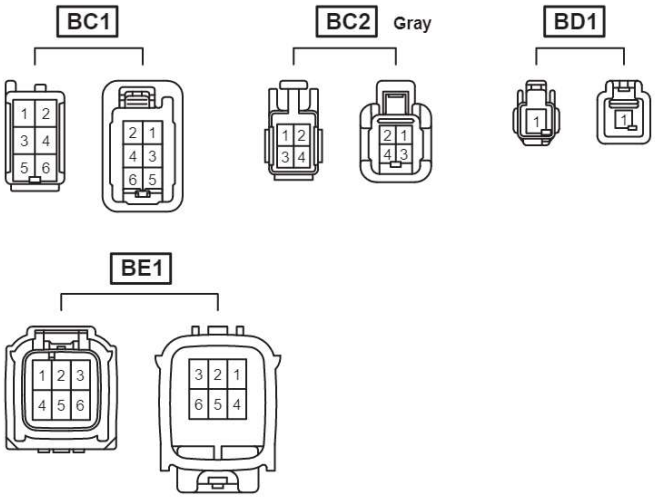


K CONNECTOR LIST




IC1
IC2
ID1
IE1
Blue
IF1
IF2
IG1
IG2
IH1
BA1
BB1

K CONNECTOR LIST



L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A 1	A/C Condenser Fan Resistor	90980–10928
A 2	A/C Magnetic Valve	90980–11156
A 3	A/T Indicator Light SW	90980–11784
	Back–Up Light SW	
	Park/Neutral Position SW	
A 4	ABS Speed Sensor Front LH	90980–11002
A 5	ABS Speed Sensor Front RH	
A 6	A/C Thermistor	90980–11918
A 7	A/T Shift Lever Illumination	90980–10795
	O/D Main SW	
A 8	Air Inlet Servo Motor	90980–11989
A 9	Airbag Sensor Assembly	90980–11869
A10	Airbag Sensor Assembly	90980–11872
A11	Airbag Sensor Assembly	90980–11867
A12	Airbag Squib (Front Passenger's Airbag Assembly)	90980–12160
A13	Airbag Squib (Steering Wheel Pad)	
A14	Antenna Amplifier	90980–10870
A15	ABS Speed Sensor Rear LH	90980–10859
A16	ABS Speed Sensor Rear RH	
A17	A/C Amplifier	90980–12410
A18	A/C Amplifier	90980–12200
A19	Airbag Sensor Assembly	90980–12449
A20	Airbag Sensor Assembly	90980–12391
A21	Airbag Sensor Assembly	90980–12450
B 1	Back–Up Light SW	90980–11250
B 2	Brake Fluid Level Warning SW	90980–11207
B 3	Blower Motor	90980–10214
B 4	Blower Resistor	90980–11136
B 5	Back Door Courtesy SW	90980–10795
	Back Door Lock Motor	
B 6	Back Door Opener SW	90980–12063
B 7	Buckle SW LH	90980–12257
	Seat Position Sensor	
B 8	Buckle SW RH	90980–11020
	Occupant Detection Sensor	
B 9	Buck SW LH	90980–11194
	Seat Position Sensor	
B10	Buck SW RH	90980–11156
C 1	Camshaft Position Sensor	90980–10947
C 2	Camshaft Timing Oil Control Valve	90980–11162
C 3	Crankshaft Position Sensor	90980–12028
C 4	Cigarette Lighter	90980–10760
C 5	Clutch Start SW	90980–10825
C 6	Combination Meter	90980–12169
C 7	Combination SW	90980–12183

Code	Part Name	Part Number
C 8	Combination SW	90980–12007
C 9	Combination SW	90980–12008
C10	Canister Pump Module	90980–12380
D 1	Data Link Connector 3	90980–11978
D 2	Defroster Mode Detection SW	90980–10795
	Inlet Air Position Detection SW	
D 3	Door Control Receiver	90980–11909
D 4	Door Lock Control Relay	90980–12203
D 5	Door Courtesy SW Front LH	90980–10871
D 6	Door Courtesy SW Front RH	
D 7	Door Courtesy SW Rear LH	
D 8	Door Courtesy SW Rear RH	
D 9	Door Key Lock and Unlock SW Front LH	90980–11858
	Door Lock Motor Front LH	
	Door Unlock Detection SW Front LH	
D10	Door Key Lock and Unlock SW Front RH	
	Door Lock Motor Front RH	
D11	Door Lock Control SW Front LH	90980–12122
	Power Window Master SW	
D12	Door Lock Control SW Front RH	90980–10797
D13	Door Lock Motor Rear LH	90980–11019
D14	Door Lock Motor Rear RH	
E 1	Electronically Controlled Transmission Solenoid	90980–11658
E 2	Engine Coolant Temp. Sensor	90980–10735
E 3	Engine Control Module	90980–12142
E 4	Engine Control Module	90980–12146
E 5	Engine Control Module	90980–12144
E 6	Engine Control Module	90980–12145
F 1	Front Airbag Sensor LH	90980–12401
F 2	Front Airbag Sensor RH	
F 3	Front Fog Light LH	90980–11096
F 4	Front Fog Light RH	
F 5	Front Parking Light LH	90980–11020
	Front Turn Signal Light LH	
F 6	Front Parking Light RH	
	Front Turn Signal Light RH	
F 7	Front Wiper Motor	90980–11599
F 8	Fusible Link Block	82620–52011
F 9	Fusible Link Block	90980–11775
F10	Front Fog Light Relay	82660–20340
F11	Front Fog Light SW	90980–10489
F12	Front Door Speaker LH	90980–10935
F13	Front Door Speaker RH	
F14	Fuel Pump	90980–11077
	Fuel Sender	

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

Code	Part Name	Part Number
F15	Fuse Block	82610–20080
F16	Front Airbag Sensor LH	90980–12490
F17	Front Airbag Sensor RH	
G 1	Generator	90980–11349
G 2	Generator	90980–09373
H 1	Headlight LH	90980–11314
H 2	Headlight RH	
H 3	Heated Oxygen Sensor (Bank 1 Sensor 1)	90980–10869
H 4	Horn (High)	90980–10619
H 5	Horn (Low)	
H 6	Headlight Relay	82660–20340
H 7	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980–11028
H 8	High Mounted Stop Light	90980–11148
I 1	Idle Air Control Valve	90980–11145
I 2	Ignition Coil and Igniter No.1	90980–11885
I 3	Ignition Coil and Igniter No.2	
I 4	Ignition Coil and Igniter No.3	
I 5	Ignition Coil and Igniter No.4	
I 6	Injector No.1	90980–11875
I 7	Injector No.2	
I 8	Injector No.3	
I 9	Injector No.4	
I10	Ignition SW	90980–11778
I11	Integration Control and Panel	90980–10908
I12	Integration Control and Panel	90980–11013
I13	Integration Control and Panel	90980–10993
I14	Interior Light	90980–10935
I15	Integration Control and Panel	90980–10908
J 1	Junction Connector	90980–11542
J 2	Junction Connector	90980–11661
J 3	Junction Connector	
J 4	Junction Connector	90980–11915
J 5	Junction Connector	
J 6	Junction Connector	90980–11661
J 7	Junction Connector	
J 8	Junction Connector	90980–11542
J 9	Junction Connector	
J10	Junction Connector	
K 1	Knock Sensor (Bank 1)	90980–11875
L 1	License Plate Light	90980–10825
M 1	Mass Air Flow Meter	90980–11317
N 1	Noise Filter (Ignition)	90980–10843
N 2	Noise Filter (Rear Window Defogger No.1)	90980–10916
N 3	Noise Filter (Fuel Pump)	
N 4	Noise Filter (Stop Light and Rear Window Defogger No.2)	
O 1	Oil Pressure SW	90980–11363

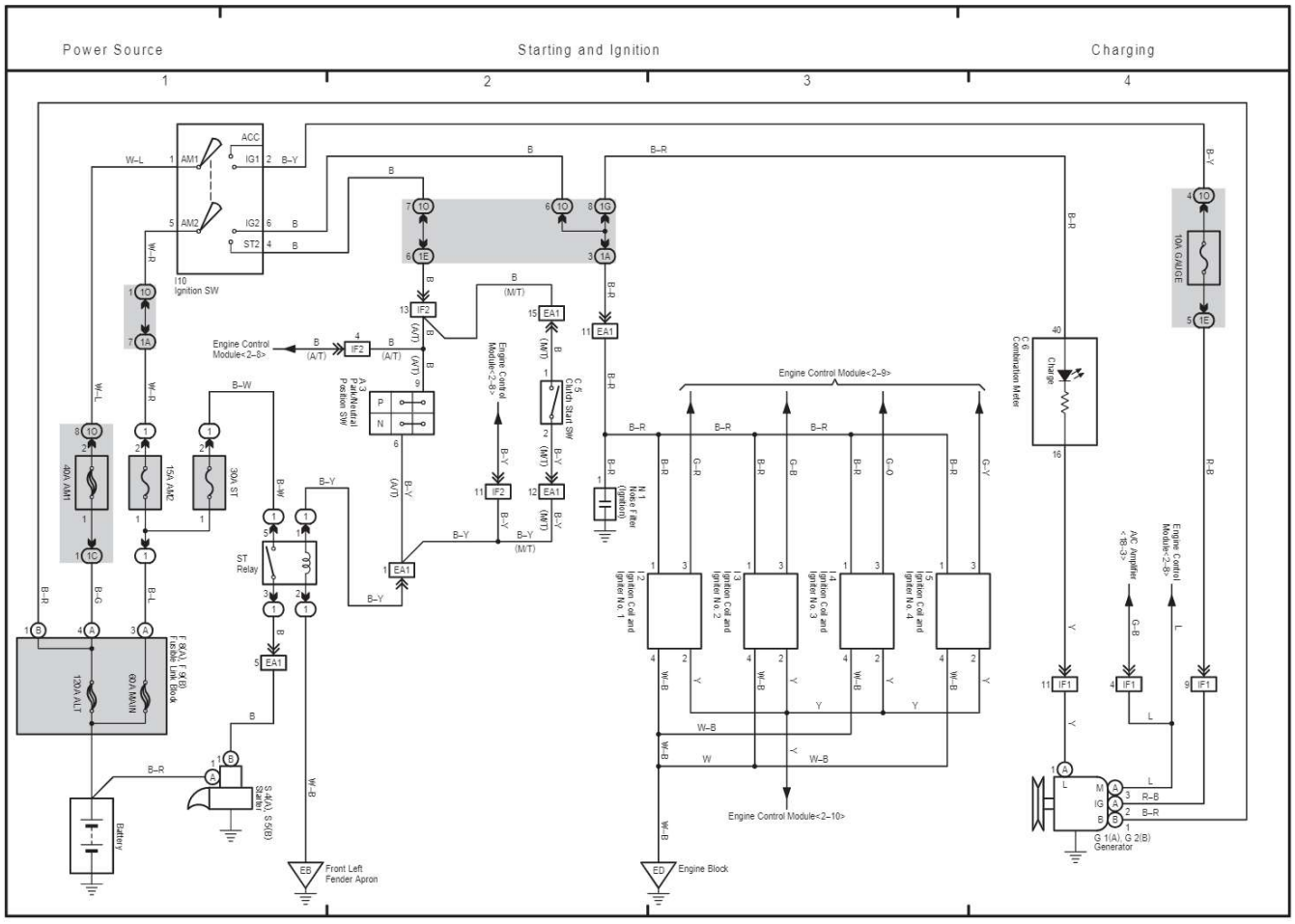
Code	Part Name	Part Number
O 2	Option Connector (TVIP)	90980–10871
O 3	Option Connector (IPOD Unit)	90980–12553
O 4	Option Connector (Radio and Player)	90980–12423
O 5	Occupamt Classification ECU	90980–12356
O 6	Occupamt Classification ECU	90980–12357
O 7	Occupamt Classification Sensor Front LH	90980–12353
O 8	Occupamt Classification Sensor Rear LH	
O 9	Occupamt Classification Sensor Front RH	
O10	Occupamt Classification Sensor Rear RH	
P 1	Power Steering Oil Pressure Sensor	90980–10845
P 2	Pressure Sensor	
P 3	Parking Brake SW	90980–10871
P 5	PTC Heater	90980–10903
P 6	Power Window Control SW Front RH	90980–10789
P 7	Power Window Control SW Rear LH	
P 8	Power Window Control SW Rear RH	
P 9	Power Window Motor Front LH	90980–10797
P10	Power Window Motor Front RH	
P11	Power Window Motor Rear LH	90980–10860
P12	Power Window Motor Rear RH	
P13	Pretensioner LH	90980–12253
P14	Pretensioner RH	
P15	Passenger Seat Belt Warnning Lamp	90980–11986
R 1	Radiator Fan Motor	90980–10928
R 2	Radio and Player	90980–10997
R 3	Radio and Player	90980–10996
R 4	Rear Window Defogger Relay	82660–20340
R 5	Remote Control Mirror SW	90980–11657
R 6	Rheostat	90980–10797
R 7	Rear Combination Light LH	
R 8	Rear Combination Light RH	
R 9	Rear Side Marker Light LH	90980–11250
R10	Rear Side Marker Light RH	
R11	Rear Speaker LH	90980–10935
R12	Rear Speaker RH	
R13	Rear Window Defogger	90980–11853
R14	Rear Window Defogger	
R15	Rear Wiper Motor	90980–10860
R16	Remote Control Mirror LH	90980–11587
R17	Remote Control Mirror RH	
R18	Radio and Player	90980–12460
S 1	Side Turn Signal Light LH	90980–11162
S 2	Side Turn Signal Light RH	
S 3	Skid Control ECU with Actuator	90980–12297
S 4	Starter	90980–09506
S 5	Starter	90980–11400

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
S 6	Shift Lock Control SW	90980–11909	T 4	Tweeter LH	90980–10860
S 7	Steering Sensor	90980–12162	T 5	Tweeter RH	
S 8	Stop Light SW	90980–11118	U 1	Unlock Warning SW	
S 9	Stereo Jack Adapter	82824–21030	V 1	VSV (Purge)	90980–11156
T 1	Throttle Position Sensor	90980–11261	V 2	VSC Buzzer	90980–10906
T 2	Turbine Speed Sensor	90980–11156	W 1	Washer Motor	90980–10981
T 3	TRAC OFF SW	90980–10631	Y 1	Yaw Rate Sensor	90980–11904

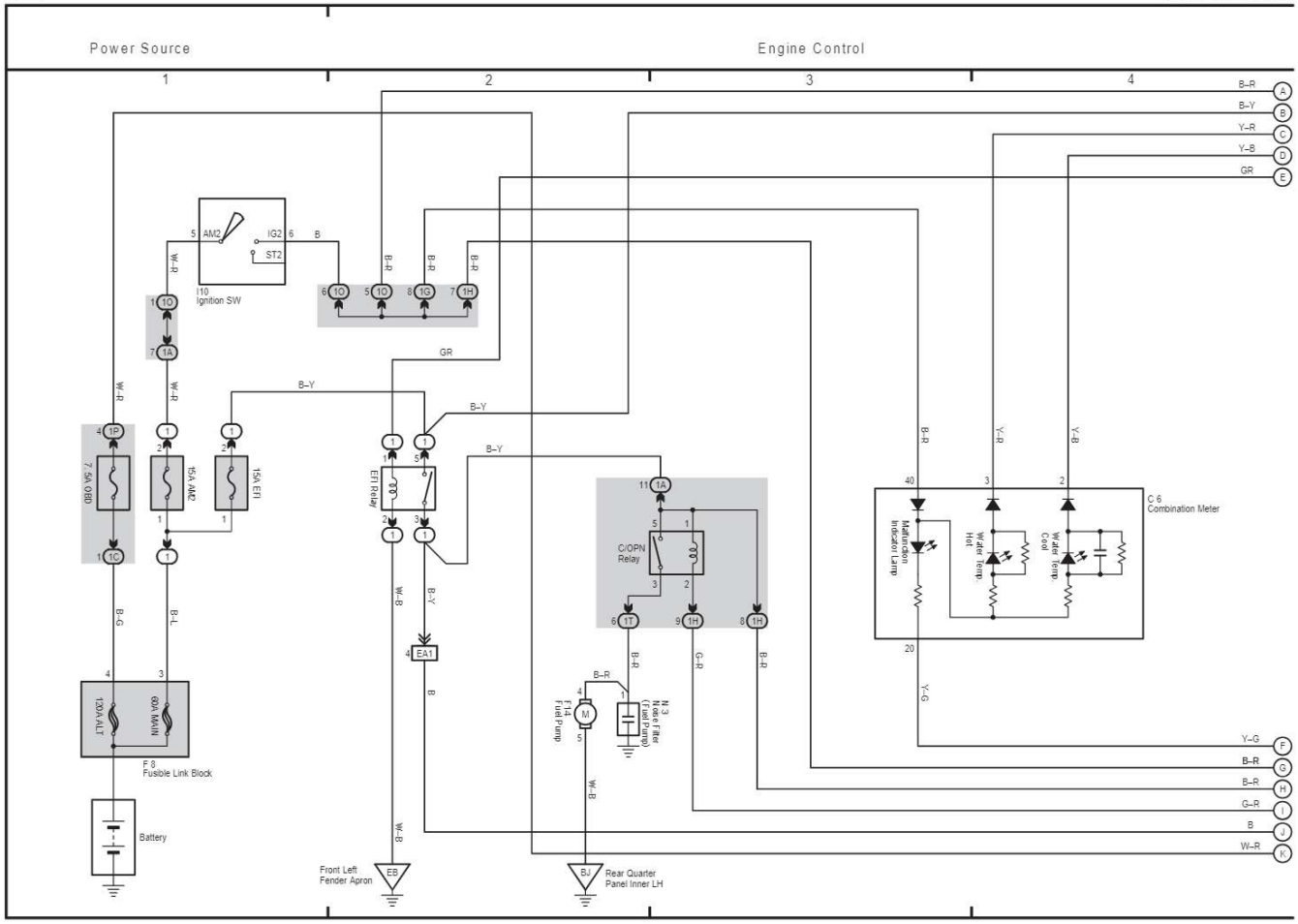
Note: Not all of the above part numbers of the connector are established for the supply.

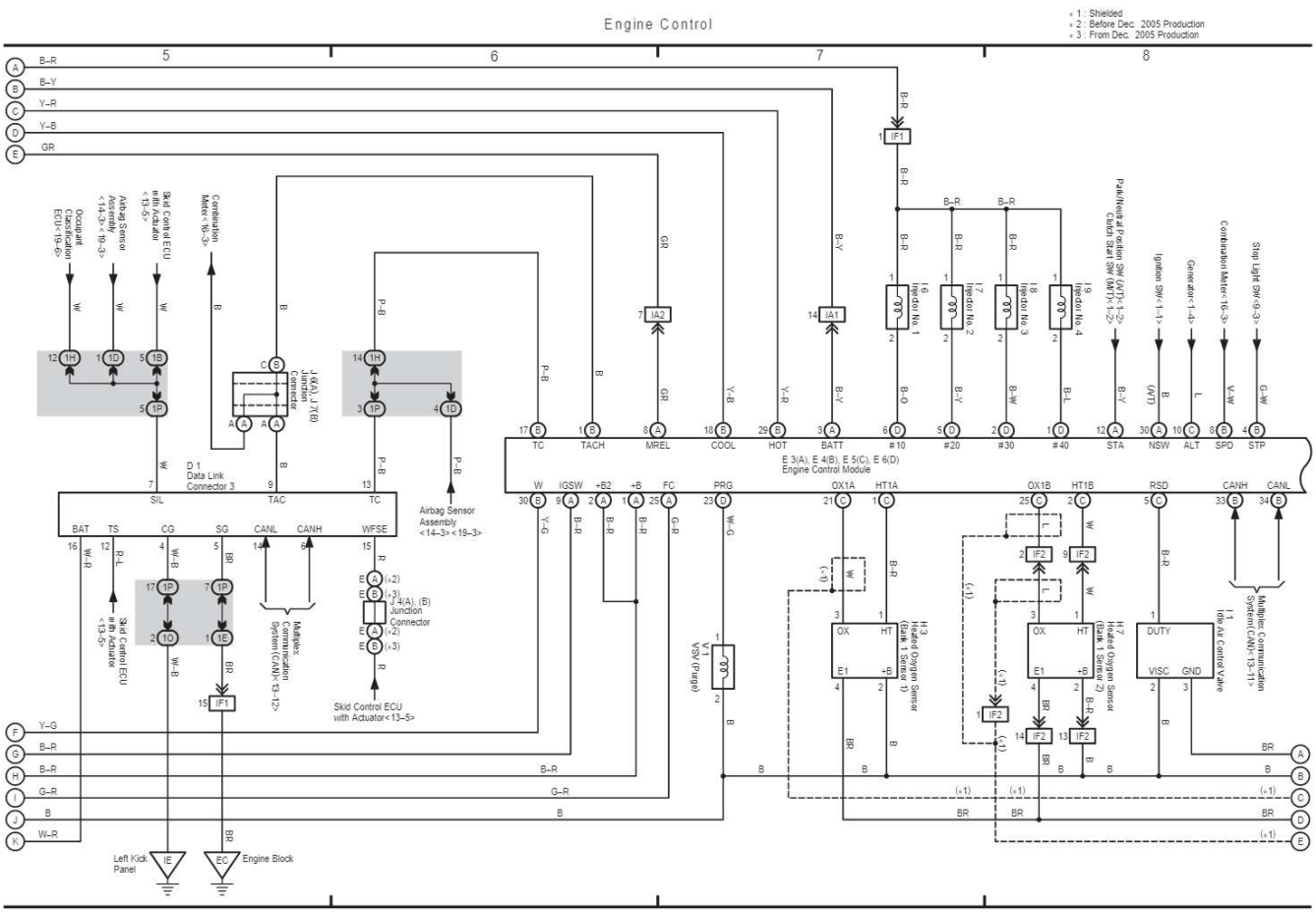
1 xB


Power Source
Starting and Ignition
Charging
1
2
3
4
ACC
IG1
IG2
ST2
AM1
AM2
Ignition SW
Engine Control Module<2-8>
A/T Park/Neutral Position SW
C-5 Clutch Start SW
Engine Control Module<2-9>
N.1 Noise Filter (Ignition)
Ignition Coil and Igniter No.1
Ignition Coil and Igniter No.2
Ignition Coil and Igniter No.3
Ignition Coil and Igniter No.4
Engine Control Module<2-10>
C-6 Combination Meter
Charge
10A G/AUGE
AC Amplifier <B-3>
Engine Control Module<2-8>
40A AM1
15A AMC
30A ST
120A ALT
60A MAIN
Junction Block
ST Relay
Battery
S (A) S (B)
Starter
G 1(A) G 2(B)
Generator
Front Left Fender Apron
Engine Block

2 xB

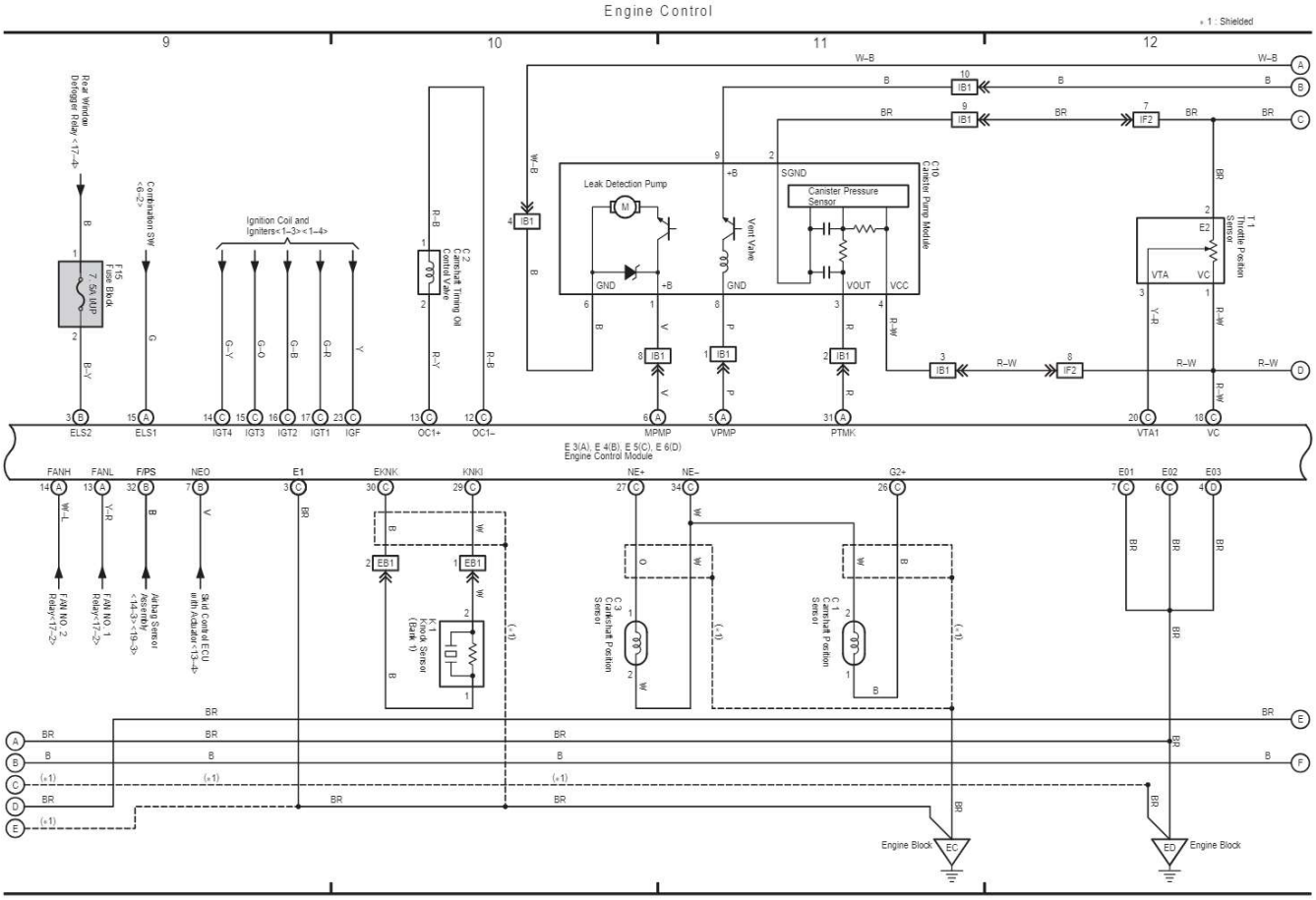
(Cont. next page)



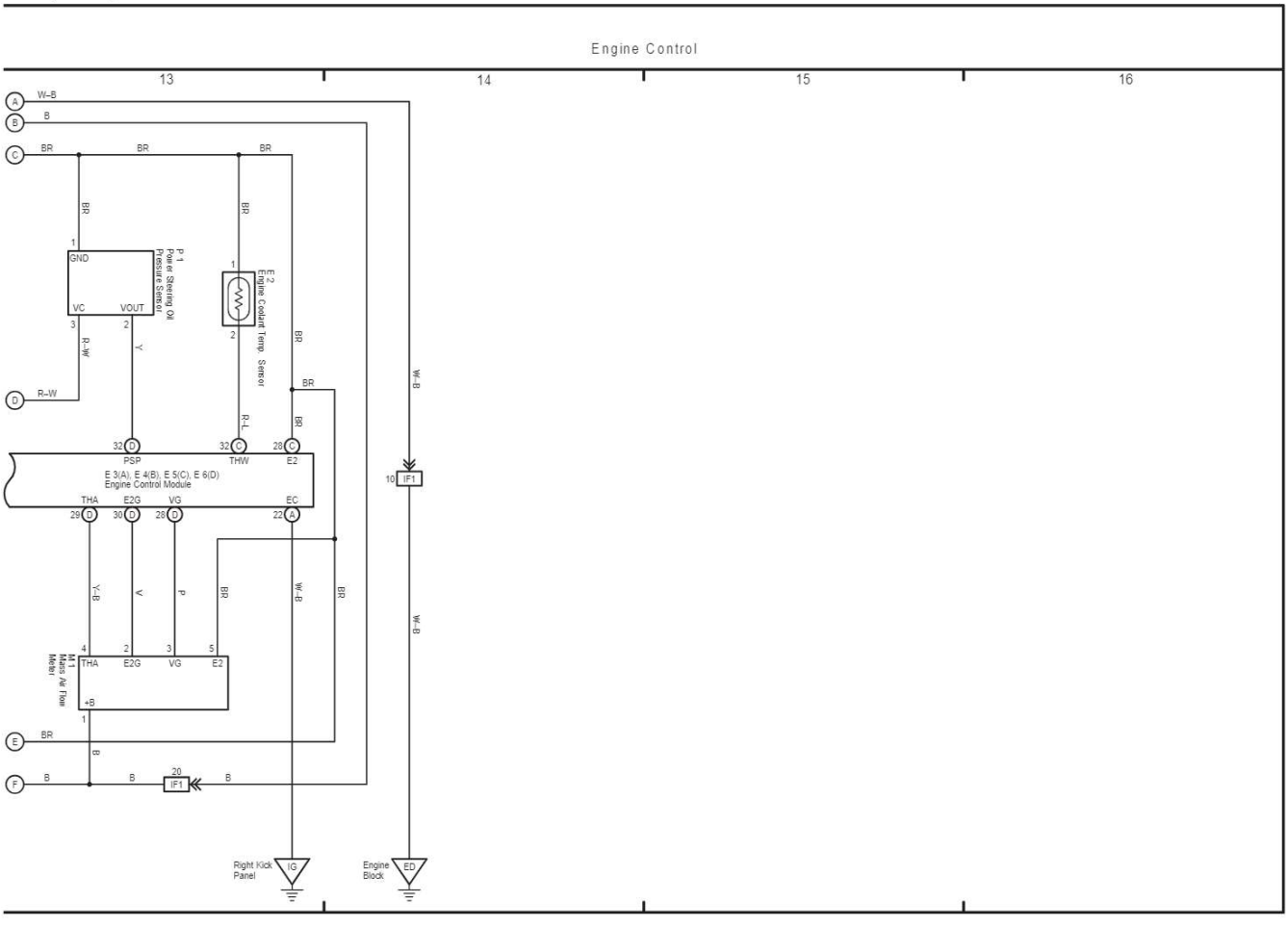

Engine Control
* 1 : Shielded
* 2 : Before Dec. 2005 Production
* 3 : From Dec. 2005 Production
5
6
7
8
Occupant Classification ECU <19-6>
Airbag Sensor Assembly <14-3> <19-3>
Skid Control ECU with Actuator <13-5>
Combination Meter <16-3>
J 6(A), J 7(B) Junction Connector
D 1 Data Link Connector 3
Airbag Sensor Assembly <14-3> <19-3>
Skid Control ECU with Actuator <13-5>
J 4(A), (B) Junction Connector
Multiplex Communication System (CAN) <13-12>
Left Kick Panel
Engine Block
E 3(A), E 4(B), E 5(C), E 6(D) Engine Control Module
Park/Neutral Position SW (A/T) <1-2>
Clutch Start SW (M/T) <1-2>
Ignition SW <1-1>
Generator <1-4>
Combination Meter <16-3>
Stop Light SW <9-3>
Injector No. 1
Injector No. 2
Injector No. 3
Injector No. 4
Heated Oxygen Sensor (Bank 1 Sensor 1)
Heated Oxygen Sensor (Bank 2 Sensor 1)
Idle Air Control Valve
Multiplex Communication System (CAN) <13-11>
VSV (Purge)
TC
TACH
MREL
COOL
HOT
BATT
#10
#20
#30
#40
STA
NSW
ALT
SPD
STP
SIL
TAC
BAT
TS
CG
SG
CANL
CANH
WFSE
IGSW
+B2
+B
FC
PRG
OX1A
HT1A
OX1B
HT1B
RSD
DUTY
VISC
GND

2 xB (Cont' d)

(Cont. next page)

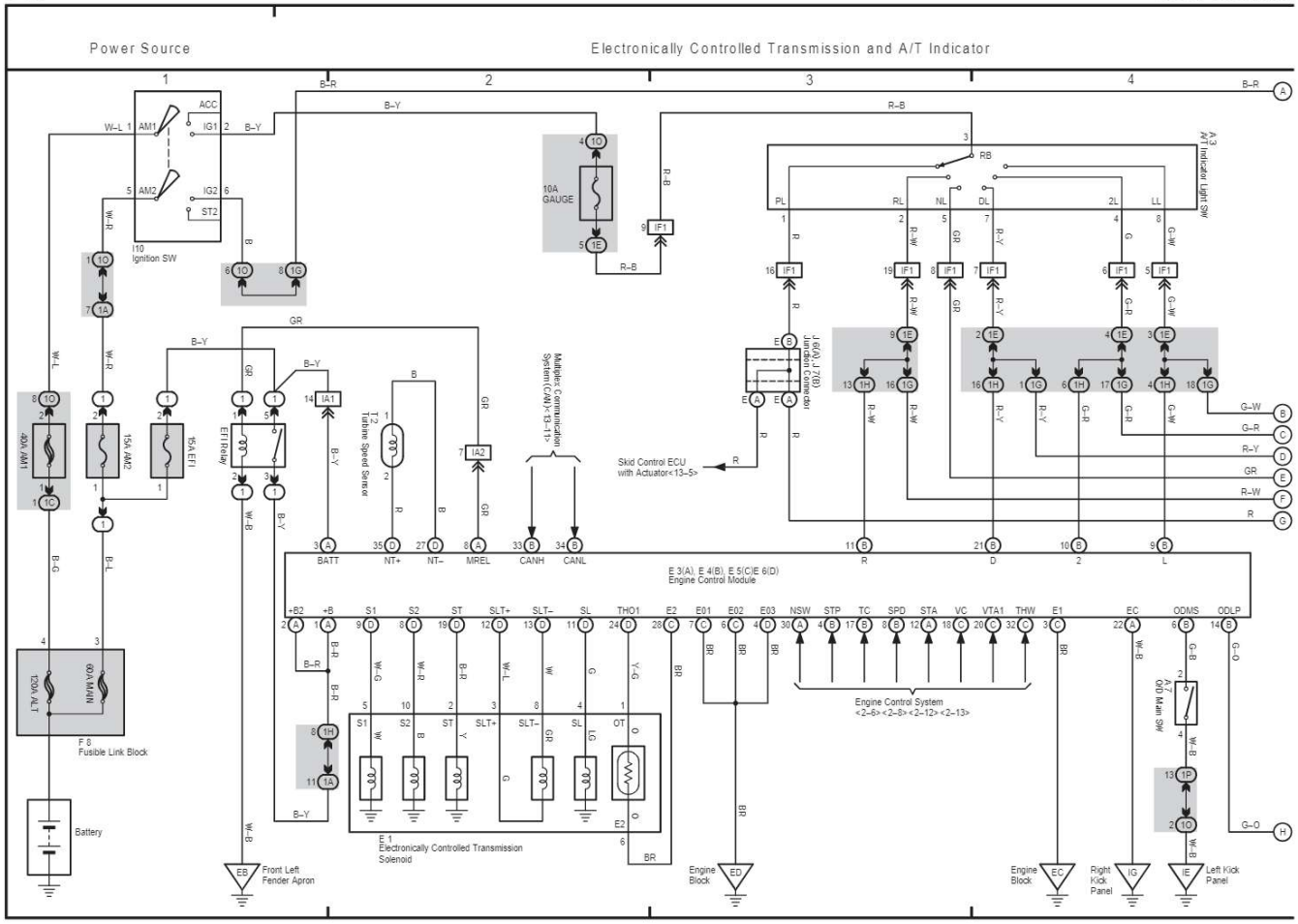


2 xB (Cont' d)

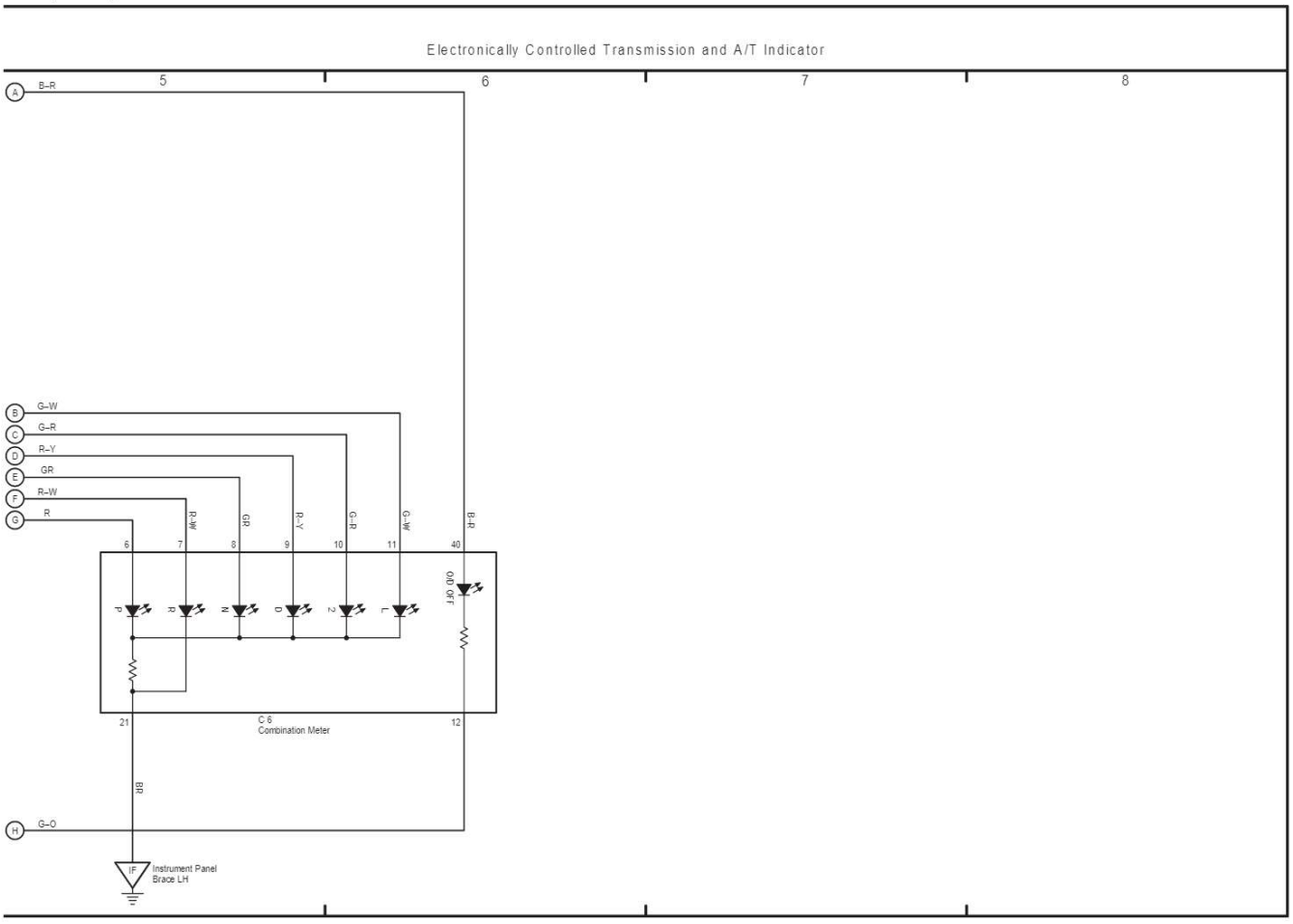

Engine Control
13
14
15
16
W–B
B
BR
R–W
Y
R–L
V
P
Y–B
GND
VC
VOUT
P.1 Power Steering Oil Pressure Sensor
E.2 Engine Coolant Temp. Sensor
PSP
THW
E2
E 3(A), E 4(B), E 5(C), E 6(D) Engine Control Module
THA
E2G
VG
EC
M.1 Mass Air Flow Meter
+B
E2
IF1
Right Kick Panel
IG
Engine Block
ED

3 xB

(Cont. next page)

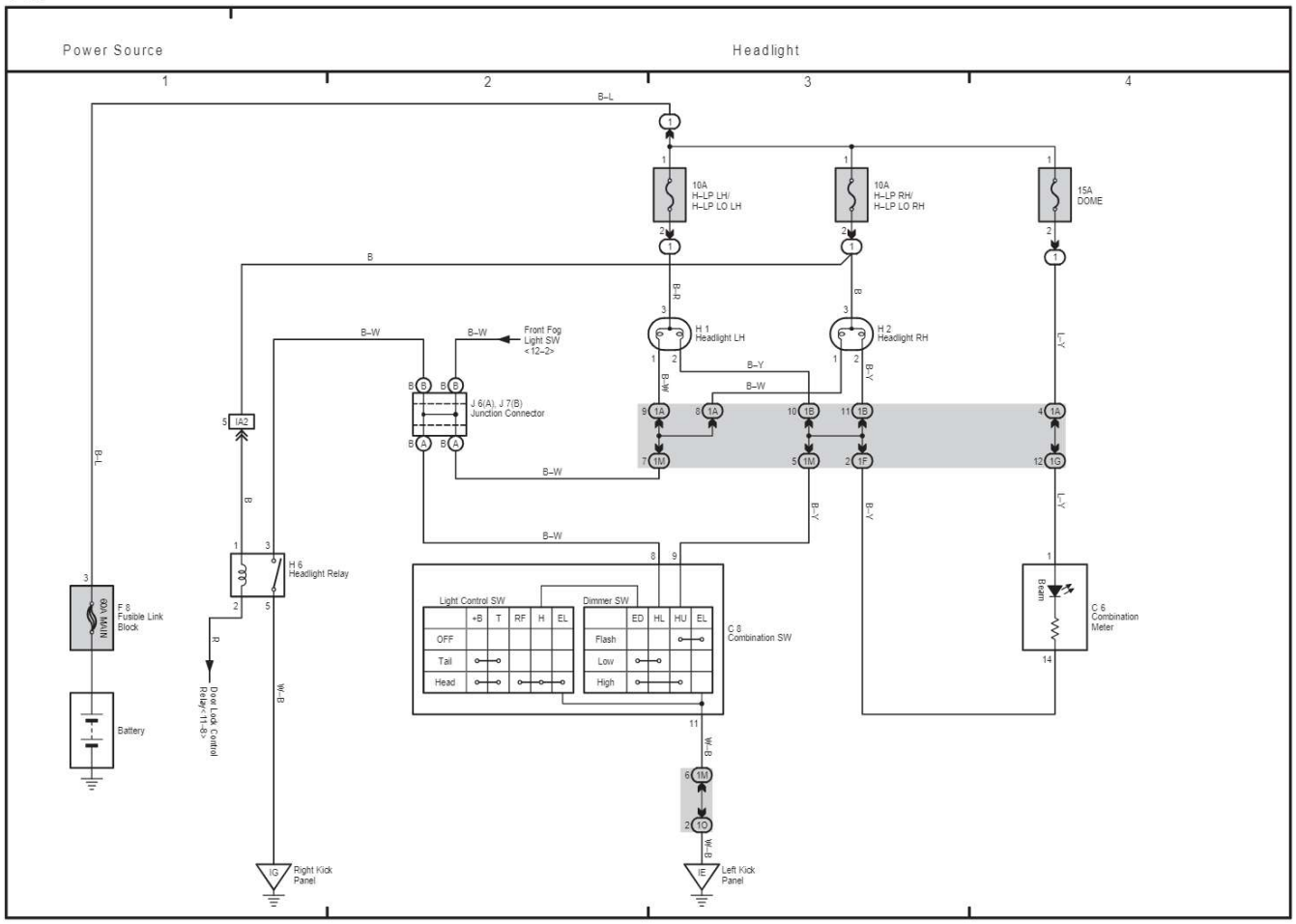


3 xB (Cont' d)

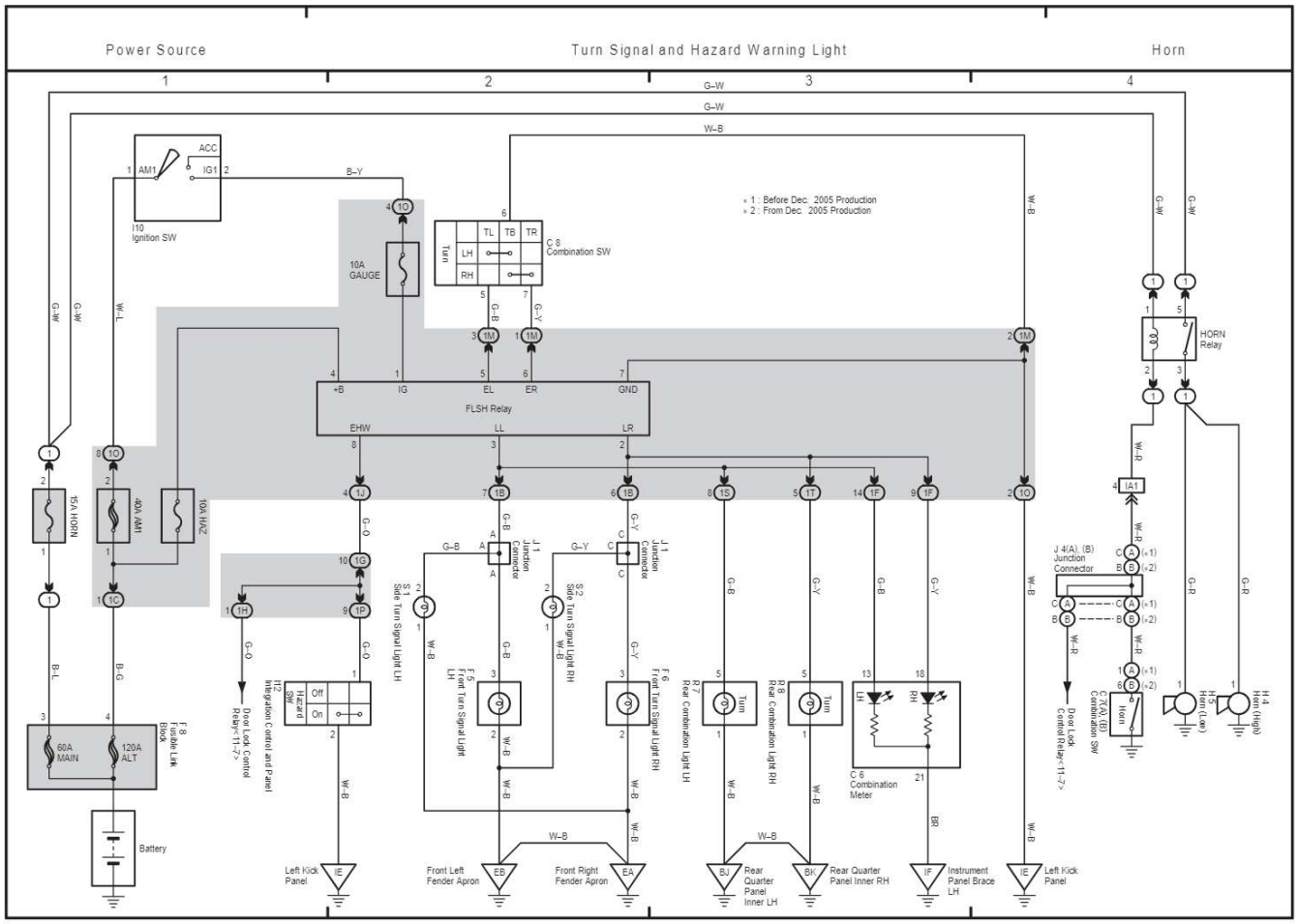

Electronically Controlled Transmission and A/T Indicator
5
6
7
8
A
B–R
B
G–W
C
G–R
D
R–Y
E
GR
F
R–W
G
R
R-W
GR
R-Y
G-R
G-W
B-R
6
7
8
9
10
11
40
P
R
N
D
2
L
OD OFF
21
C 6
Combination Meter
12
BR
H
G–O
IF
Instrument Panel
Brace LH

M

4 xB

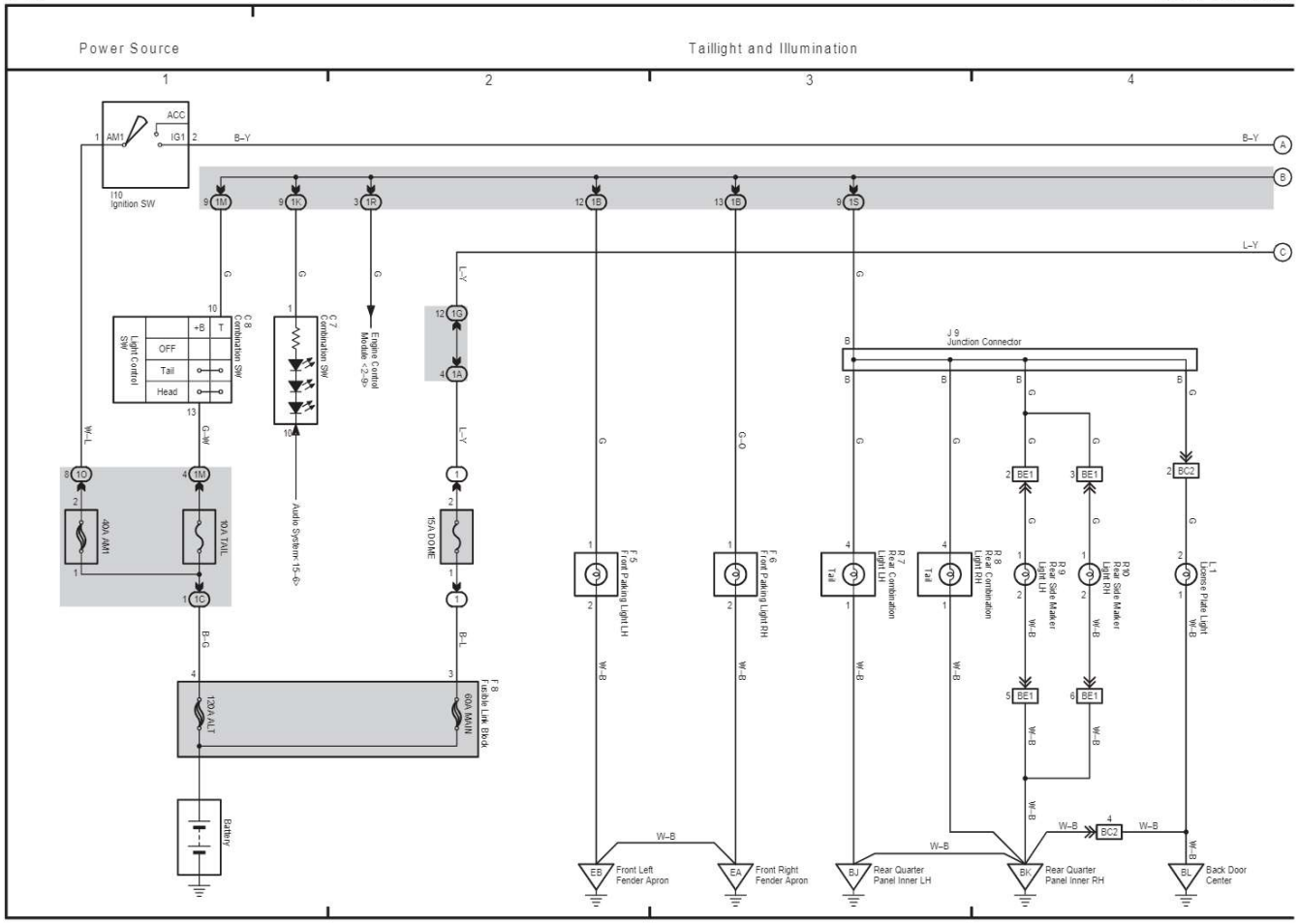

Power Source
Headlight
1
2
3
4
B–L
10A
H–LP LH/
H–LP LO LH
10A
H–LP RH/
H–LP LO RH
15A
DOME
B
B–W
Front Fog
Light SW
<12–2>
H 1
Headlight LH
H 2
Headlight RH
B–Y
L–Y
J 6(A), J 7(B)
Junction Connector
IA2
H 6
Headlight Relay
F 8
Fusible Link
Block
Battery
R
Door Lock Control
Relay <11–8>
W–B
Light Control SW
+B
T
RF
H
EL
OFF
Tail
Head
Dimmer SW
ED
HL
HU
EL
Flash
Low
High
C 8
Combination SW
Beam
C 6
Combination
Meter
IG
Right Kick
Panel
IE
Left Kick
Panel

5 xB

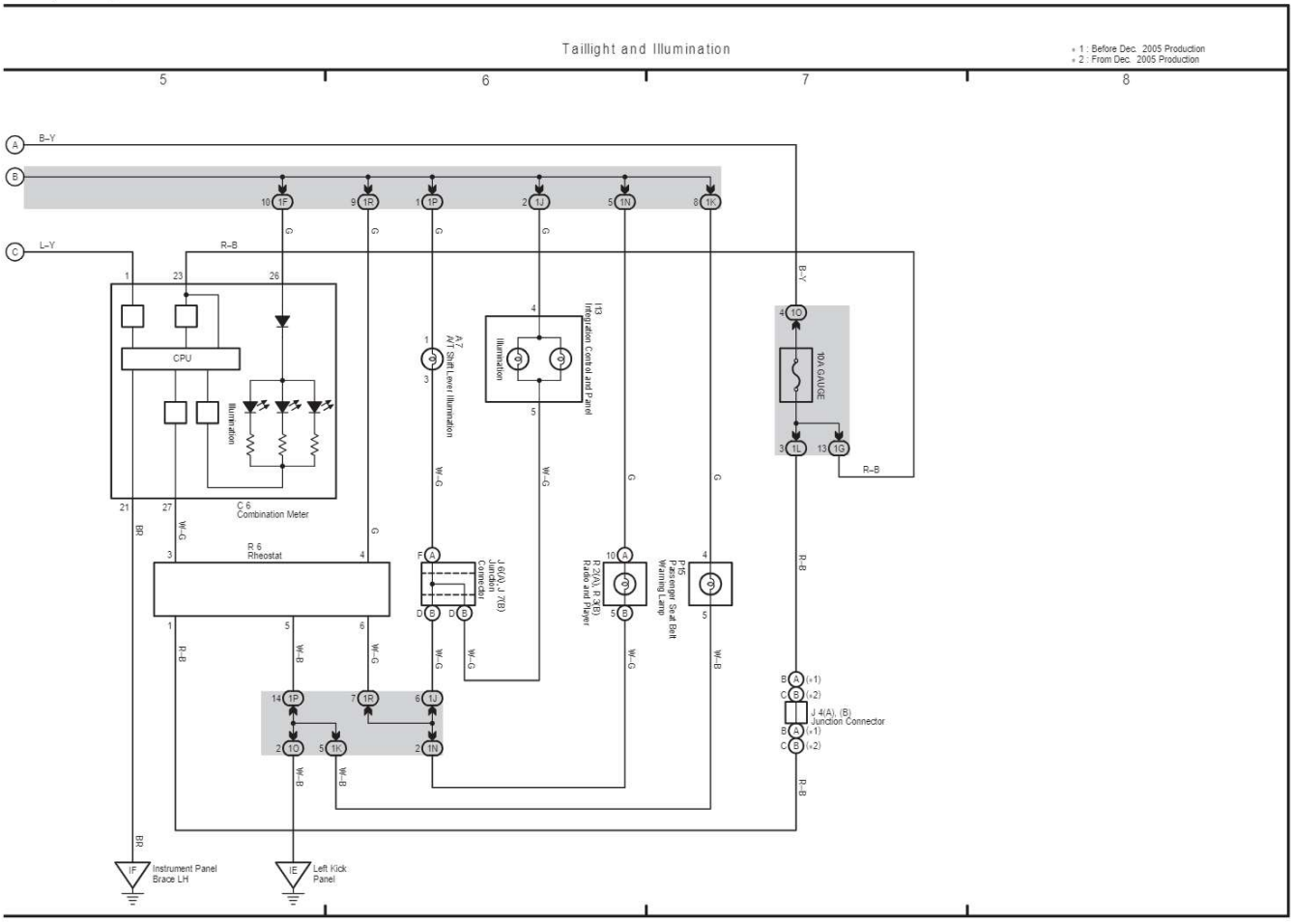

Power Source
Turn Signal and Hazard Warning Light
Horn
1
2
3
4
G–W
W–B
B–Y
ACC
AM1
IG1
I10
Ignition SW
10A
GAUGE
C 8
Combination SW
Turn
TL
TB
TR
LH
RH
* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
HORN
Relay
FLSH Relay
+B
IG
EL
ER
GND
EHW
LL
LR
15A HORN
40A AM1
10A HAZ
60A
MAIN
120A
ALT
F 8
Fusible Link
Block
Battery
Hazard
SW
Off
On
Integration Control and Panel
Door Lock Control
Relay<11-7>
S 1
Side Turn Signal Light LH
S 3
Side Turn Signal Light RH
J 1
Junction
Connector
F 5
Front Turn Signal Light
LH
F 6
Front Turn Signal Light RH
R 7
Rear Combination Light LH
R 8
Rear Combination Light RH
C 6
Combination
Meter
J 4(A), (B)
Junction
Connector
C 7(A), (B)
Combination SW
Horn
H 5
Horn (Low)
H 4
Horn (High)
Left Kick
Panel
Front Left
Fender Apron
Front Right
Fender Apron
Rear
Quarter
Panel
Inner LH
Rear Quarter
Panel Inner RH
Instrument
Panel Brace
LH
Left Kick
Panel

6 xB

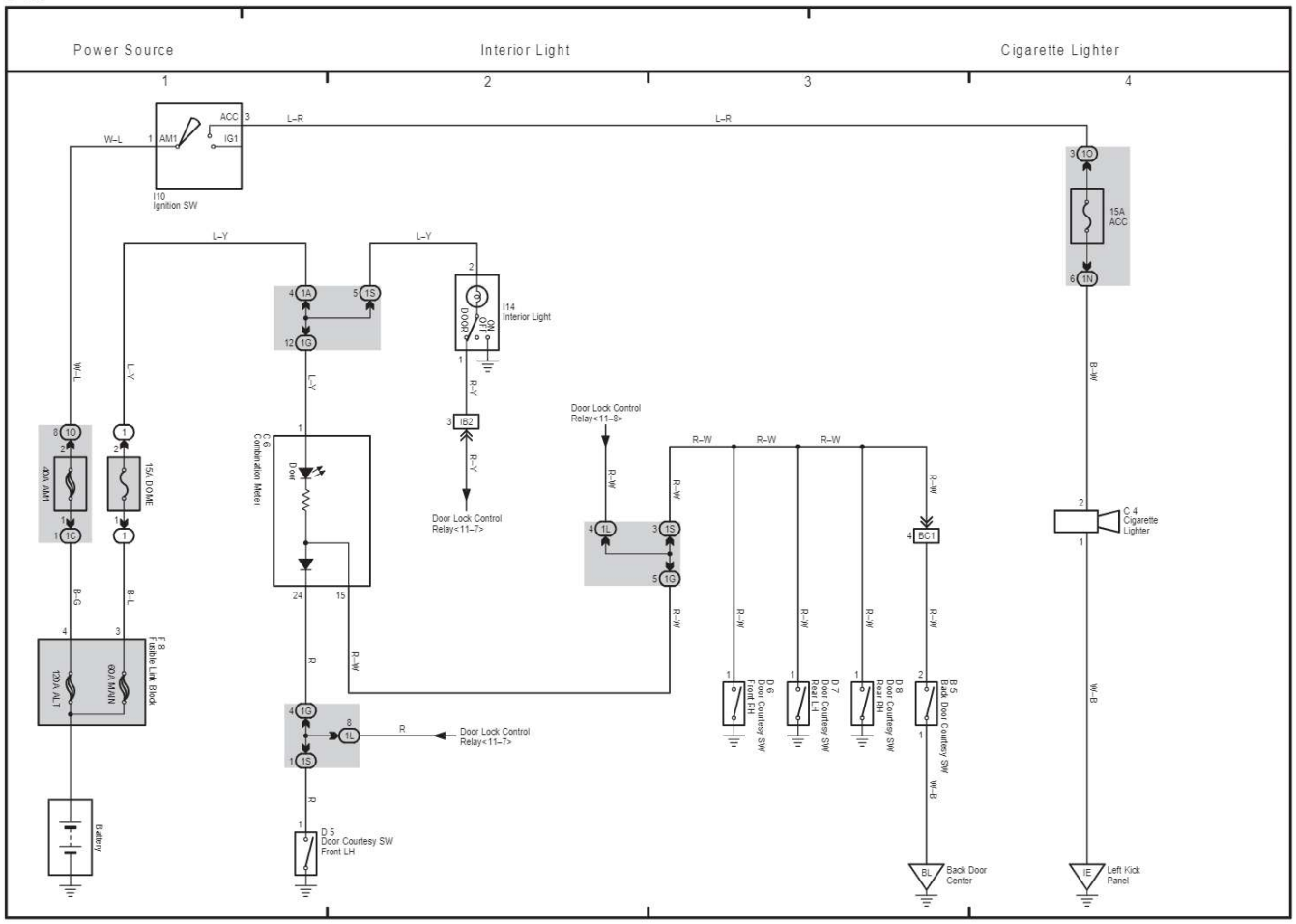
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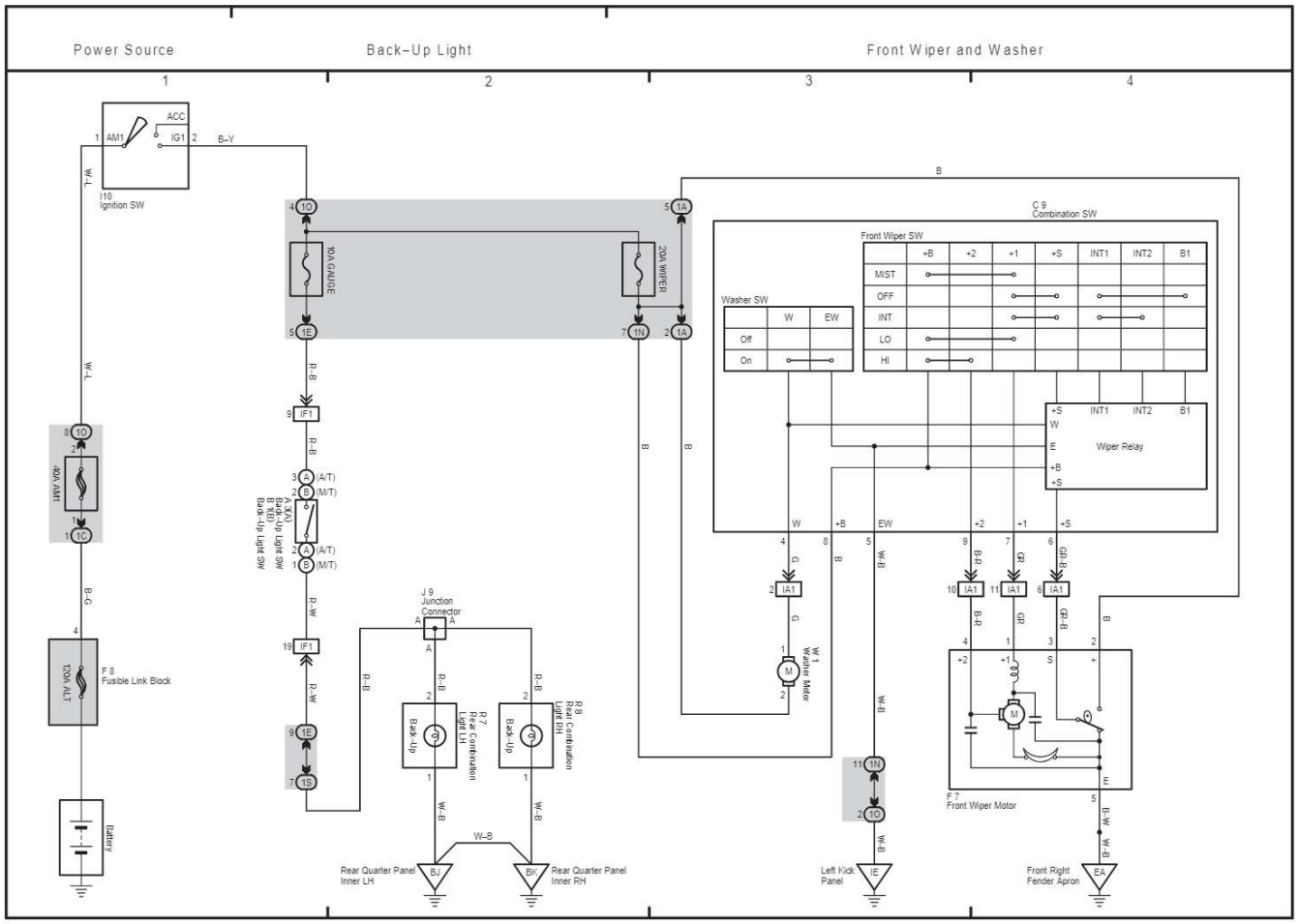


6 xB (Cont' d)

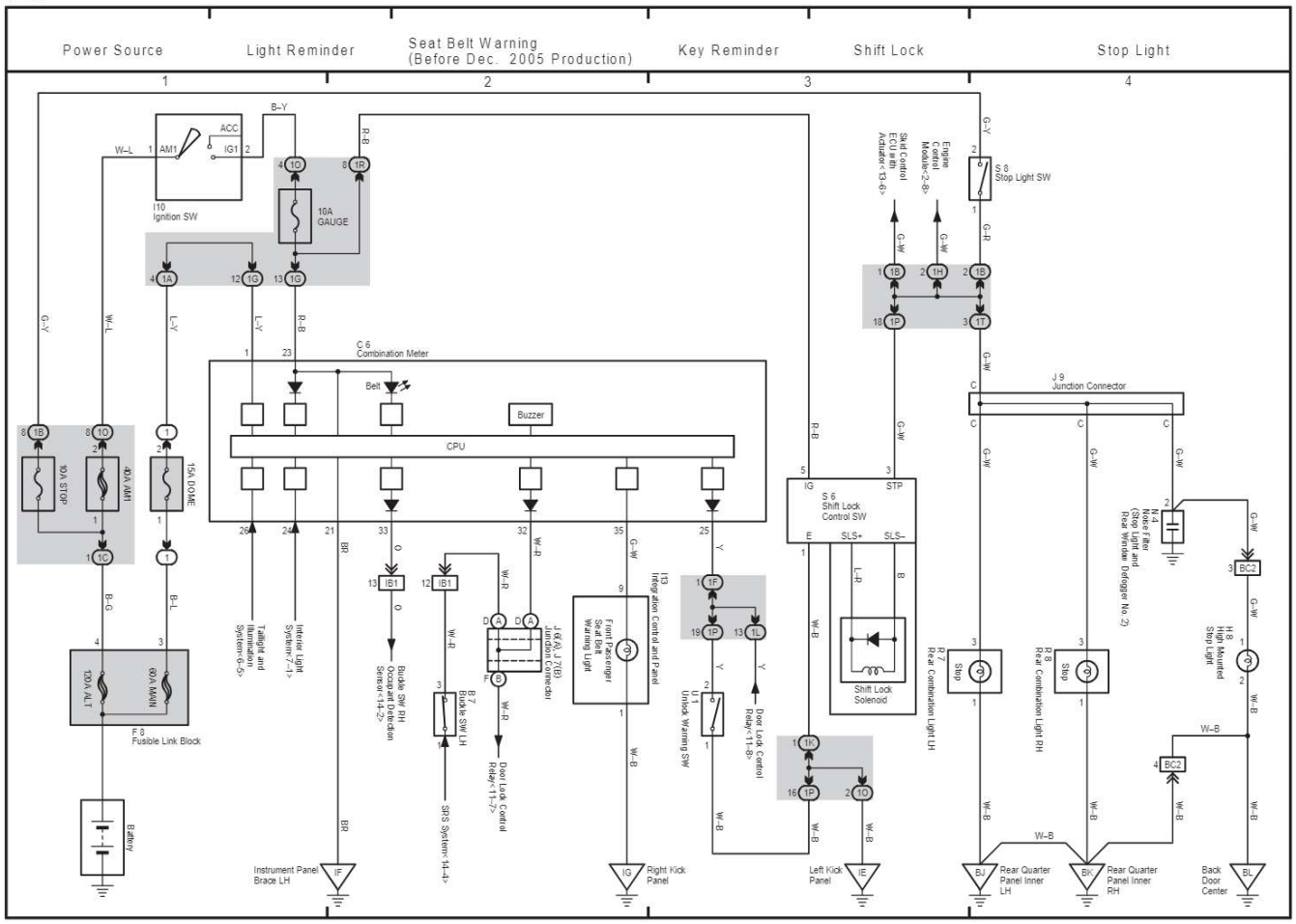

Taillight and Illumination
* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
5
6
7
8
B–Y
L–Y
R–B
CPU
Illumination
C 6
Combination Meter
R 6
Rheostat
A7
A/T Shift Lever Illumination
I13
Integration Control and Panel
Illumination
J 6(A), J 7(B)
Junction
Connector
P 15
Passenger Seat Belt
Warning Lamp
R 2(A), R 3(B)
Radio and Player
IDA GAUGE
J 4(A), (B)
Junction Connector
(*1)
(*2)
IF
Instrument Panel
Brace LH
IE
Left Kick
Panel

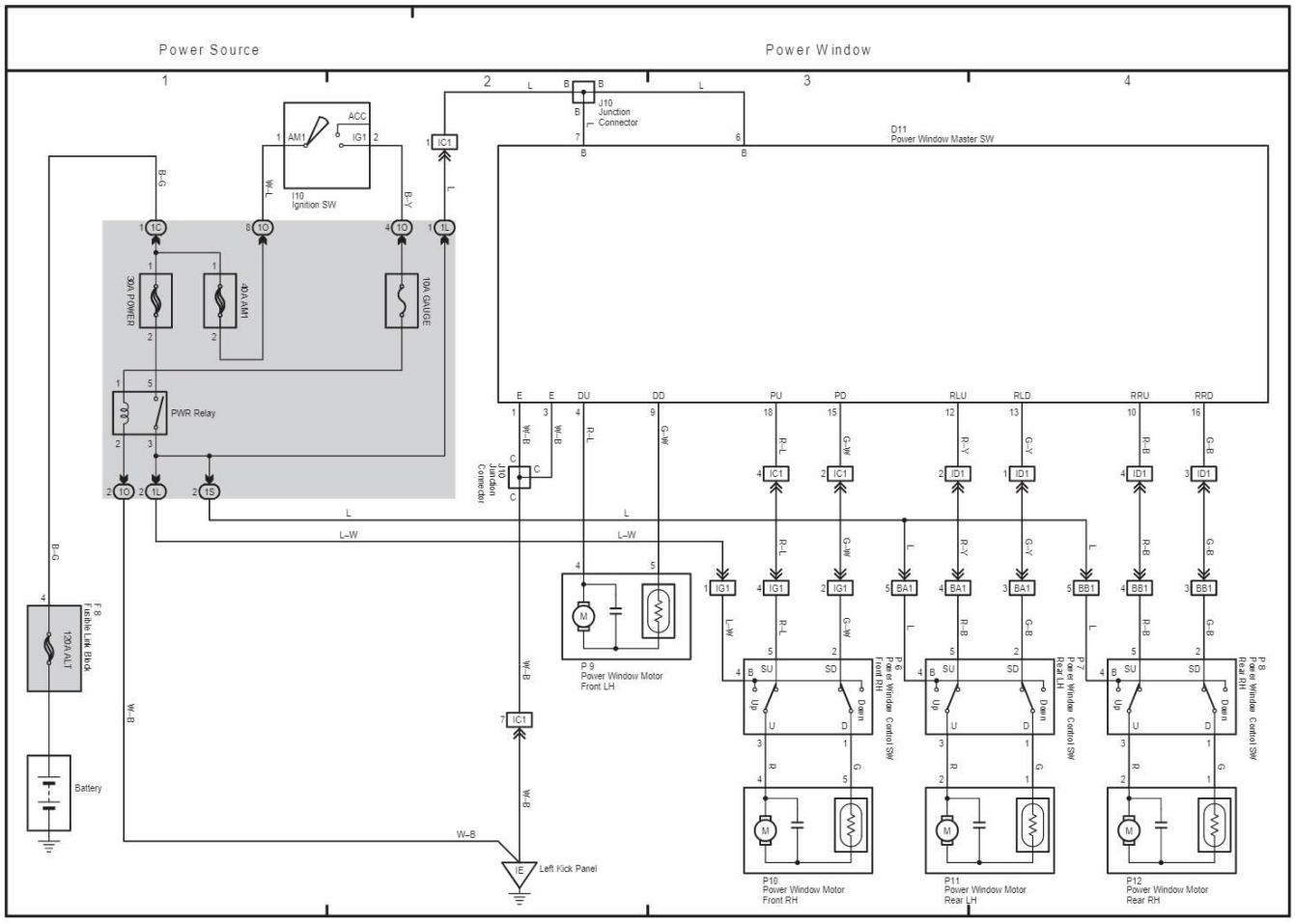
7 xB


Power Source
Interior Light
Cigarette Lighter
1
2
3
4
I10
Ignition SW
ACC
IG1
AM1
W-L
L-R
L-Y
I14
Interior Light
DOOR
R-Y
I6 2
Door Lock Control Relay<11-7>
Door Lock Control Relay<11-8>
R-W
15A ACC
1O
1N
B-W
C 4
Cigarette Lighter
W-B
IE
Left Kick Panel
BL
Back Door Center
BC1
B-G
B-L
F 8
Fusible Link Block
120A ALT
60A MAIN
40A AM1
15A DOME
Battery
C3
Combination Meter
Door
D 5
Door Courtesy SW Front LH
D 6
Door Courtesy SW Front RH
D 7
Door Courtesy SW Rear LH
D 8
Door Courtesy SW Rear RH
B 5
Back Door Courtesy SW
W-B


Power Source
Back–Up Light
Front Wiper and Washer
1
2
3
4
ACC
AM1
IG1
B–Y
W–L
I10
Ignition SW
10A GAUGE
20A WIPER
B
C 9
Combination SW
Front Wiper SW
MIST
OFF
INT
LO
HI
Washer SW
Off
On
Wiper Relay
R–B
IF1
A/T
M/T
Back–Up Light SW
R–W
J 9
Junction
Connector
40A AM1
120A ALT
F 8
Fusible Link Block
B–G
Battery
W–B
Back–Up
R7
Rear Combination
Light LH
R8
Rear Combination
Light RH
W–B
Rear Quarter Panel
Inner LH
Rear Quarter Panel
Inner RH
Wr 1
Washer Motor
G
B–R
GR
GR–B
F 7
Front Wiper Motor
Left Kick
Panel
Front Right
Fender Apron

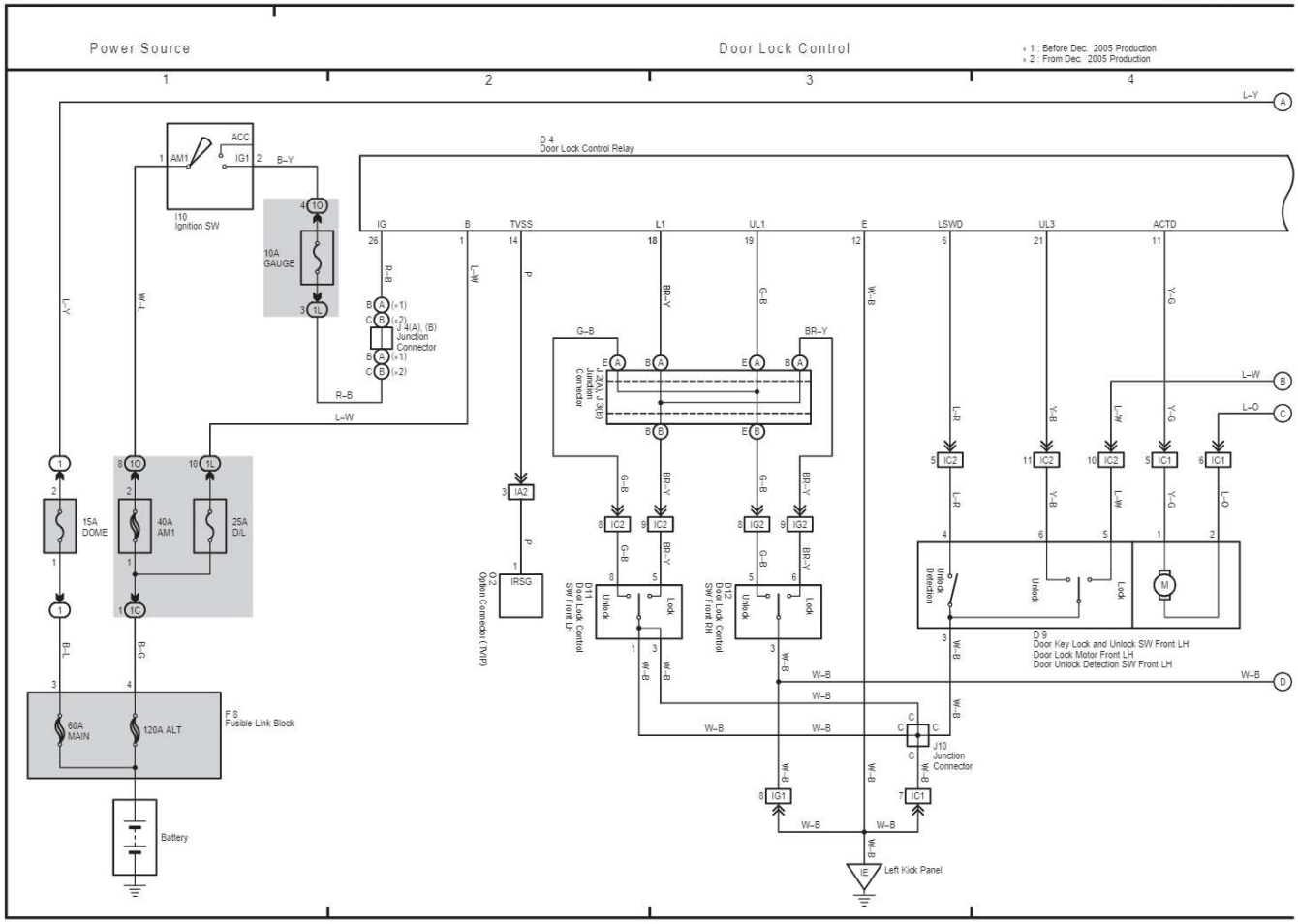
9 xB

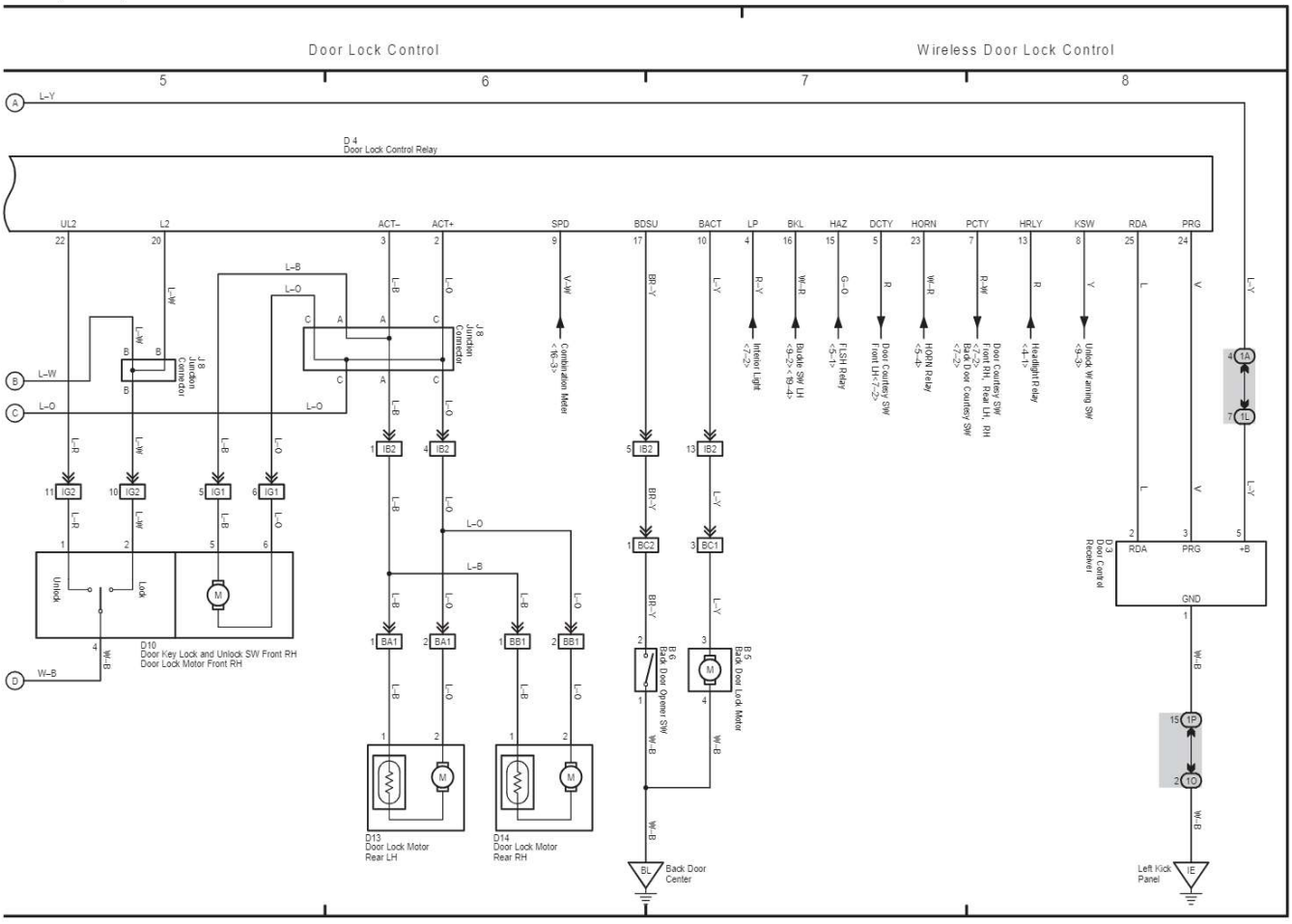

Power Source
Light Reminder
Seat Belt Warning (Before Dec. 2005 Production)
Key Reminder
Shift Lock
Stop Light
1
2
3
4
I10 Ignition SW
10A GAUGE
C 6 Combination Meter
Belt
Buzzer
CPU
S 3 Stop Light SW
Shift Control ECU with Actuator <13-6>
Engine Control Module <2-8>
S 6 Shift Lock Control SW
Shift Lock Solenoid
J 9 Junction Connector
N 4 Rear Fog Light and Stop Light and Rear Window Defogger No. 2)
H 8 High Mounted Stop Light
R 7 Rear Combination Light LH
R 8 Rear Combination Light RH
10A STOP
40A AM1
15A DOME
120A ALT
60A AM2N
E 3 Fusible Link Block
Battery
Taillight and Illumination System <6-5>
Interior Light System <7-1>
Buckle SW RH Courtesy Door Switch <14-2>
J 6 (A), J 7 (B) Junction Connector
B 7 Buckle SW LH
SRS System <14-4>
Door Lock Control Relay <11-7>
Front Passenger Seat Belt Warning Light
I 3 Integration Control and Panel
U 1 Unlock Warning SW
Door Lock Control Relay <11-8>
Instrument Panel Brace LH
Right Kick Panel
Left Kick Panel
Rear Quarter Panel Inner LH
Rear Quarter Panel Inner RH
Back Door Center


Power Source
Power Window
1
2
3
4
J10
Junction
Connector
D11
Power Window Master SW
I10
Ignition SW
ACC
AM1
IG1
30A POWER
40A AM1
10A GAUGE
PWR Relay
J10
Junction
Connector
F 8
Fusible Link Block
120A ALT
Battery
P 9
Power Window Motor
Front LH
P 6
Power Window Control SW
Front RH
P 7
Power Window Control SW
Rear LH
P 8
Power Window Control SW
Rear RH
P10
Power Window Motor
Front RH
P11
Power Window Motor
Rear LH
P12
Power Window Motor
Rear RH
IE
Left Kick Panel
Up
Down
SU
SD
B–G
W–L
B–Y
L
L–W
W–B
R–L
G–W
R–Y
G–Y
R–B
G–B

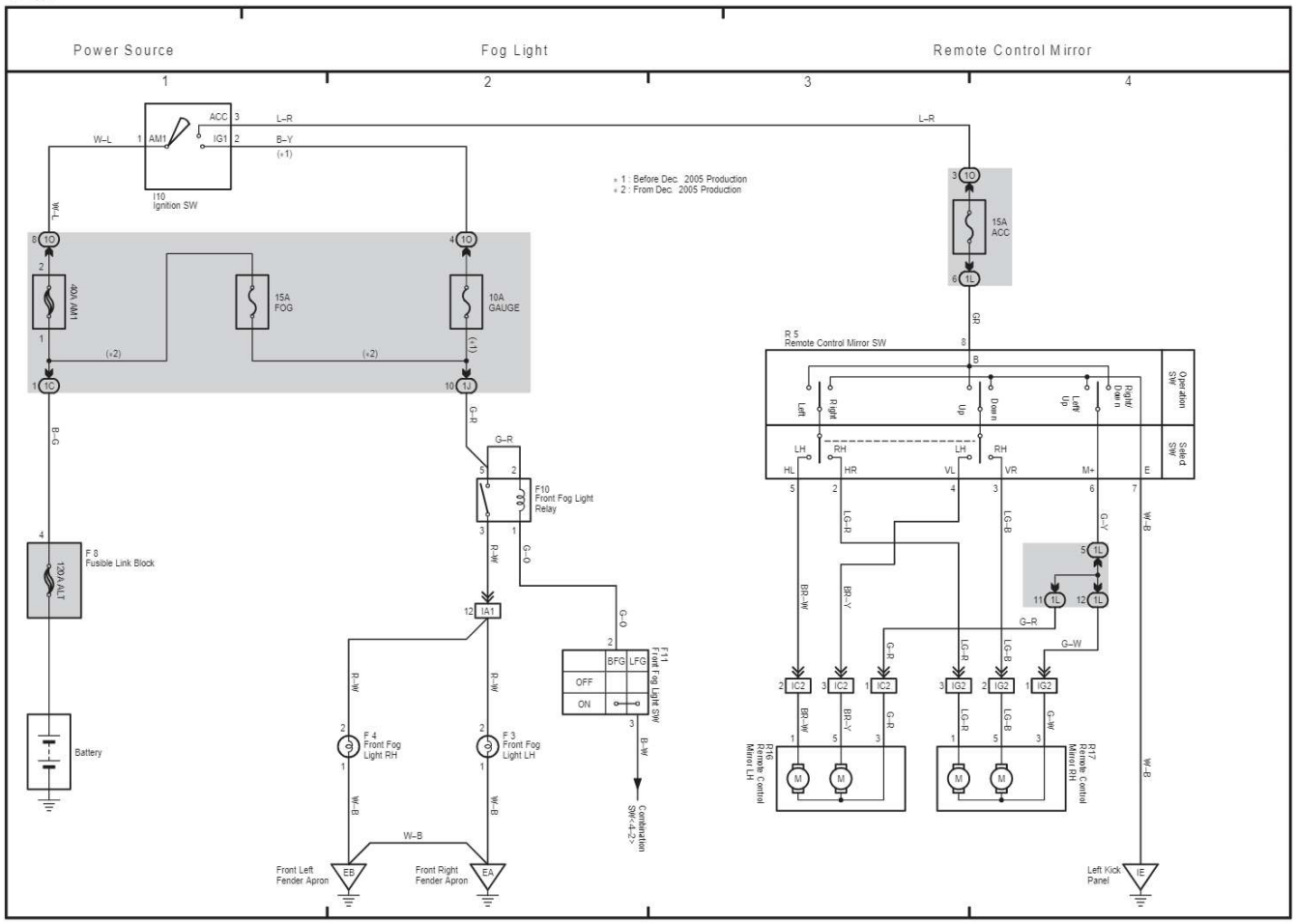
11 xB

(Cont. next page)



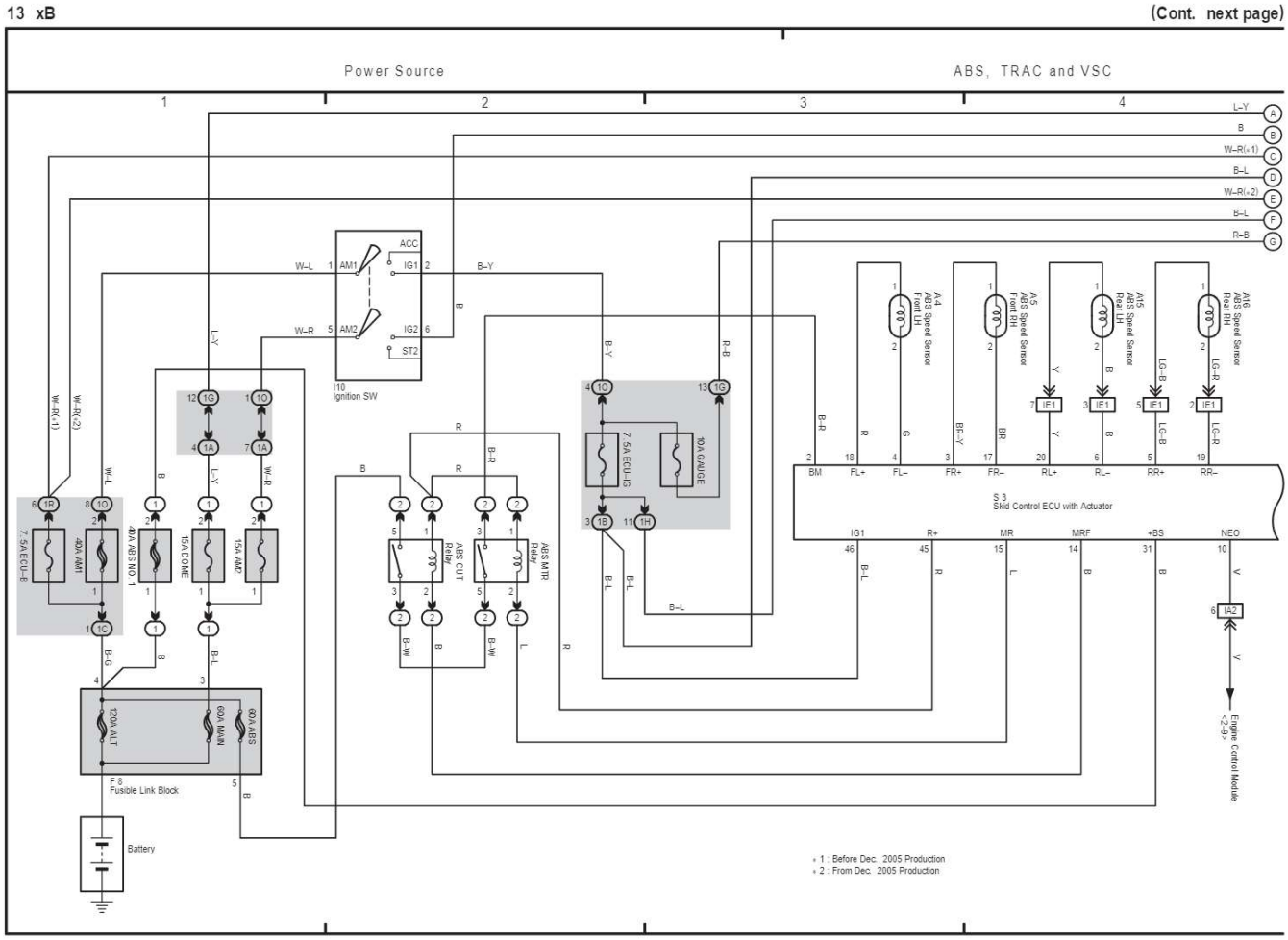

Door Lock Control
Wireless Door Lock Control
5
6
7
8
D 4
Door Lock Control Relay
UL2
L2
ACT–
ACT+
SPD
BDSU
BACT
LP
BKL
HAZ
DCTY
HORN
PCTY
HRLY
KSW
RDA
PRG
J 8
Junction Connector
Combination Meter <16-3>
Interior Light <7-2>
Buckle SW LH <9-2><19-4>
FLSH Relay <5-1>
Door Courtesy SW Front LH <7-2>
HORN Relay <5-4>
Door Courtesy SW Front RH, Rear LH, RH Back Door Courtesy SW <7-2>
Headlight Relay <4-1>
Unlock Warning SW <3-3>
D10
Door Key Lock and Unlock SW Front RH
Door Lock Motor Front RH
Unlock
Lock
D13
Door Lock Motor Rear LH
D14
Door Lock Motor Rear RH
B6
Back Door Opener SW
B5
Back Door Lock Motor
Back Door Center
D3
Door Control Receiver
RDA
PRG
+B
GND
Left Kick Panel

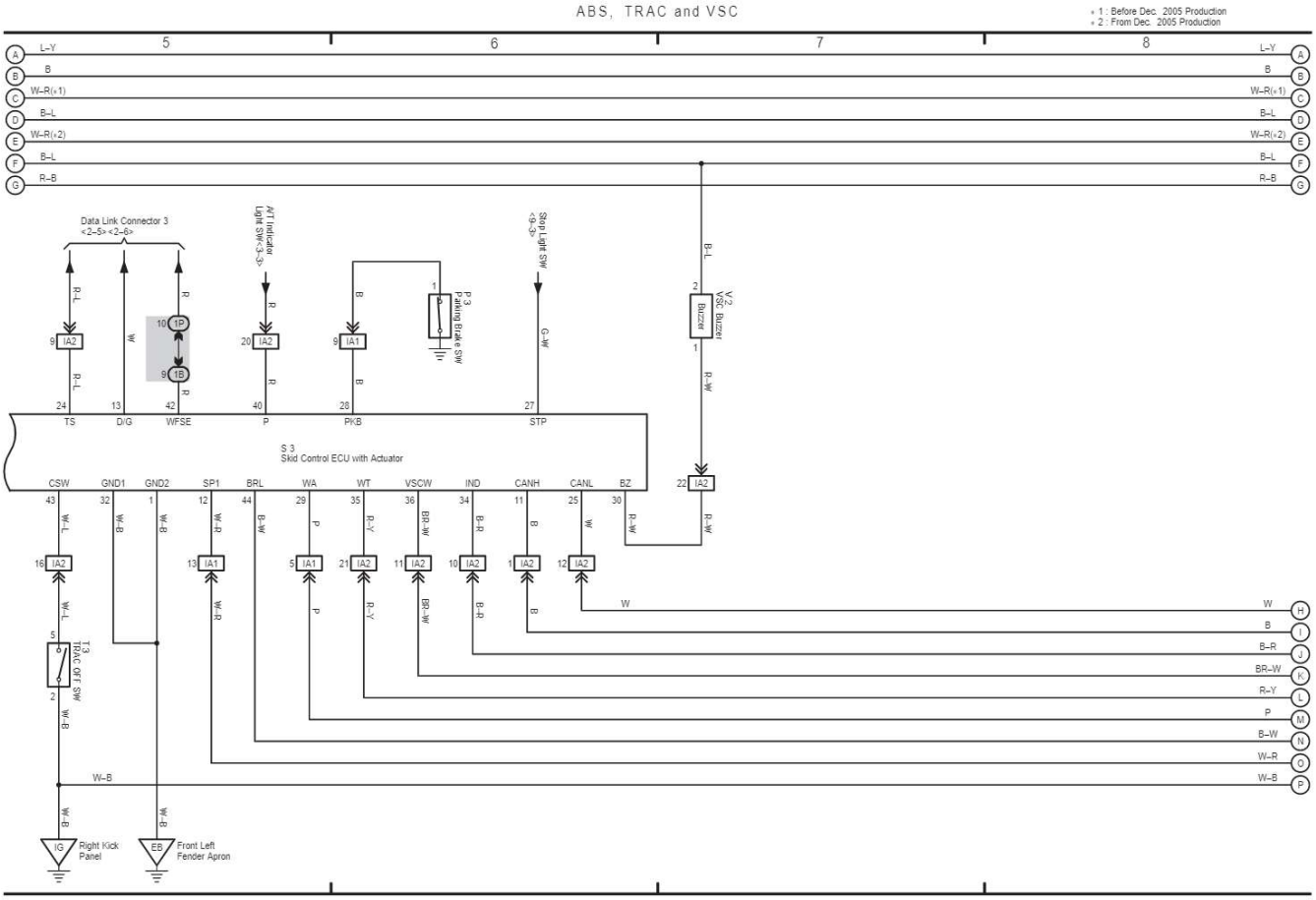
12 xB


Power Source
Fog Light
Remote Control Mirror
1
2
3
4
ACC
IG1
AM1
I10
Ignition SW
L–R
W–L
B–Y
(+1)
* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
15A
ACC
40A AM1
15A
FOG
10A
GAUGE
(+2)
(+1)
R 5
Remote Control Mirror SW
Operation SW
Select SW
Left
Right
Up
Down
Right/ Down
Left/ Up
LH
RH
HL
HR
VL
VR
M+
M–
GR
B
B–G
G–R
F 8
Fusible Link Block
130A ALT
Battery
F10
Front Fog Light Relay
R–W
G–O
F11
Front Fog Light SW
BFG
LFG
OFF
ON
B–W
Combination SW<4-2>
F 4
Front Fog Light RH
F 3
Front Fog Light LH
W–B
Front Left Fender Apron
EB
Front Right Fender Apron
EA
Left Kick Panel
IE
LG–B
G–Y
G–W
BR–W
BR–Y
IC2
IG2
R/C Remote Control Mirror LH
R/C Remote Control Mirror RH

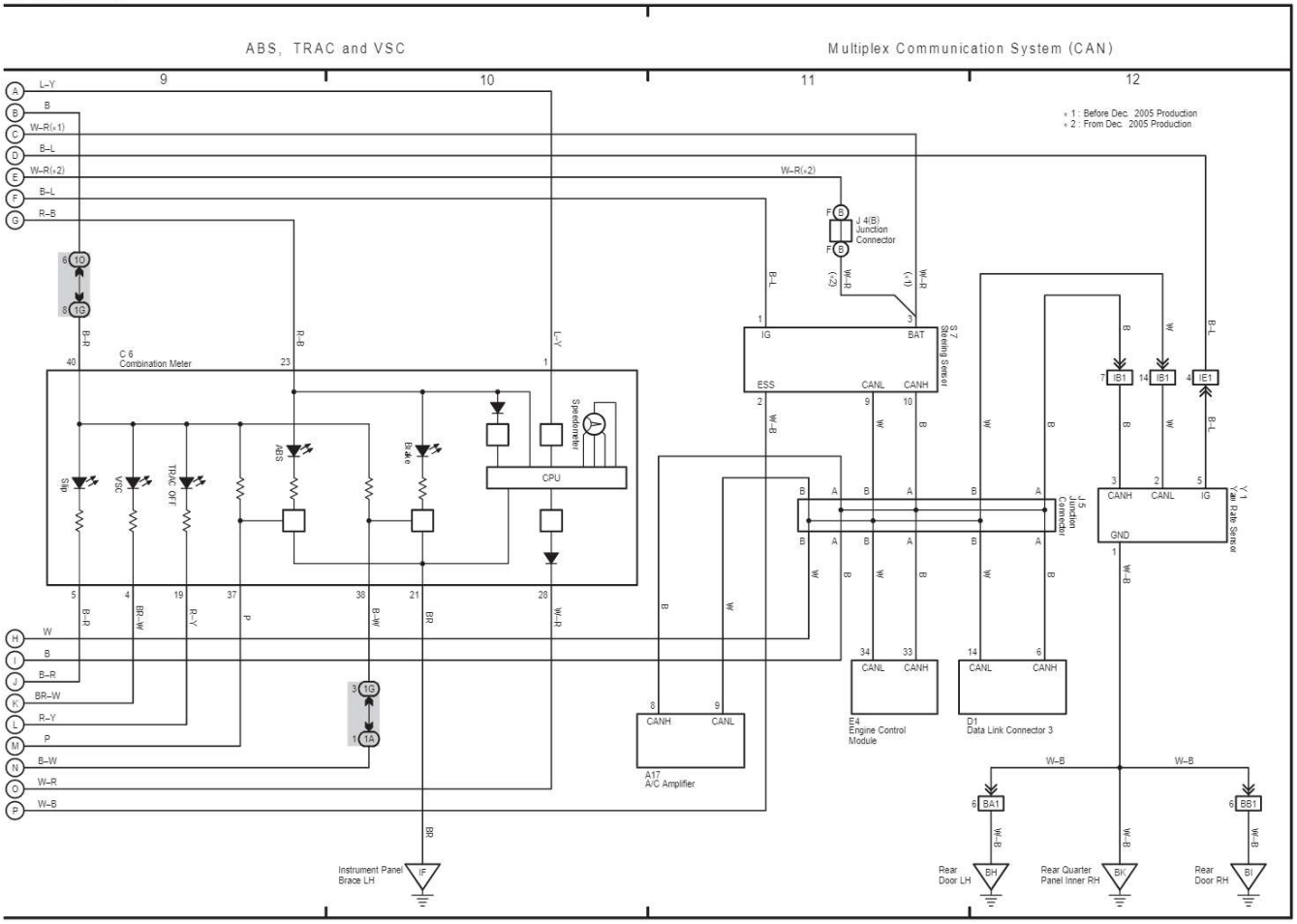
13 xB

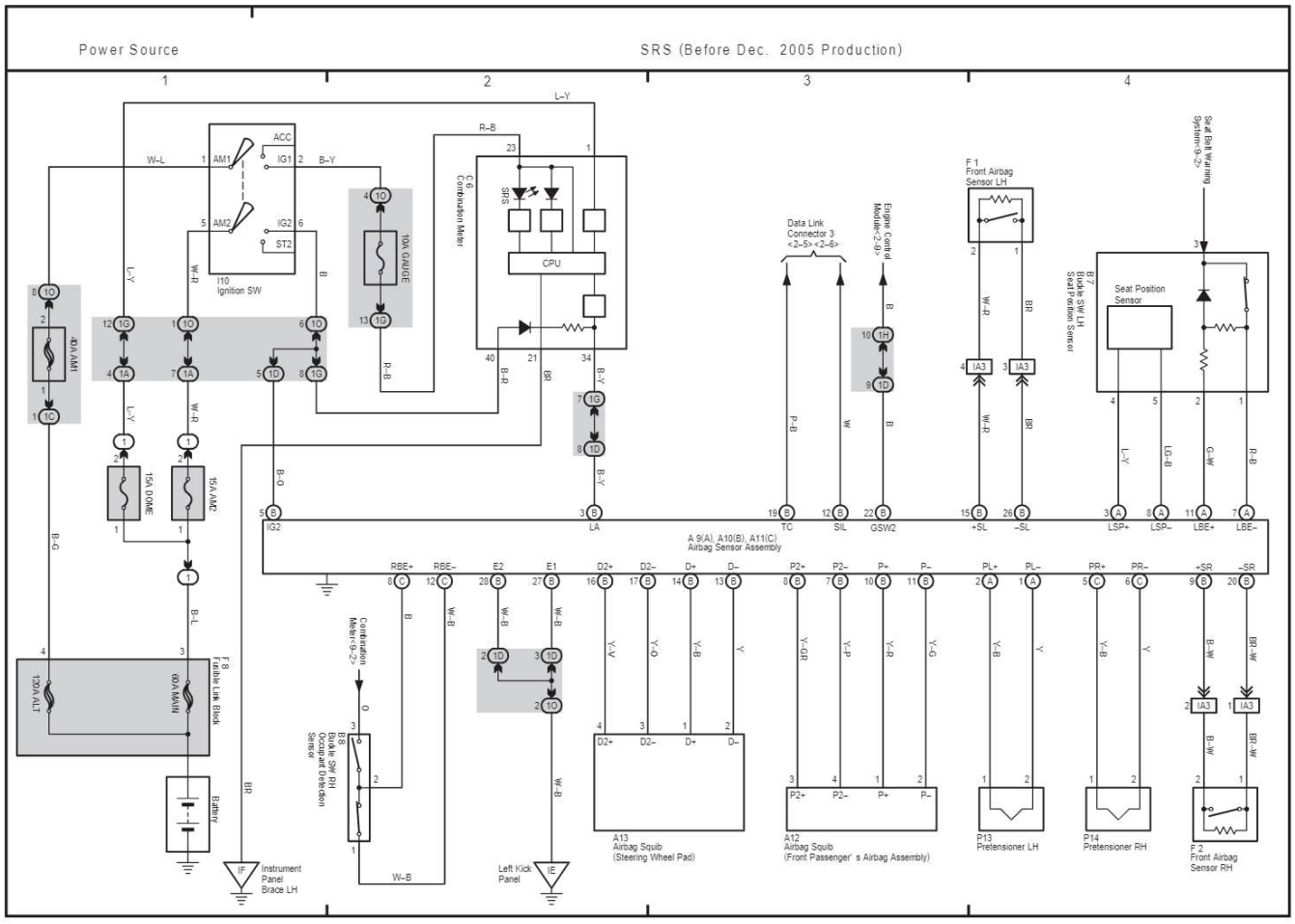
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ABS, TRAC and VSC
* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
5
6
7
8
L–Y
B
W–R(*1)
B–L
W–R(*2)
B–L
R–B
Data Link Connector 3
<2–5><2–6>
A/T Indicator (Light) SW <3–3>
Stop Light SW <9–3>
E 3 Parking Brake SW
V 2 VSC Buzzer
S 3 Skid Control ECU with Actuator
TS
D/G
WFSE
P
PKB
STP
CSW
GND1
GND2
SP1
BRL
WA
WT
VSCW
IND
CANH
CANL
BZ
T 3 TRAC OFF SW
IG
Right Kick Panel
EB
Front Left Fender Apron

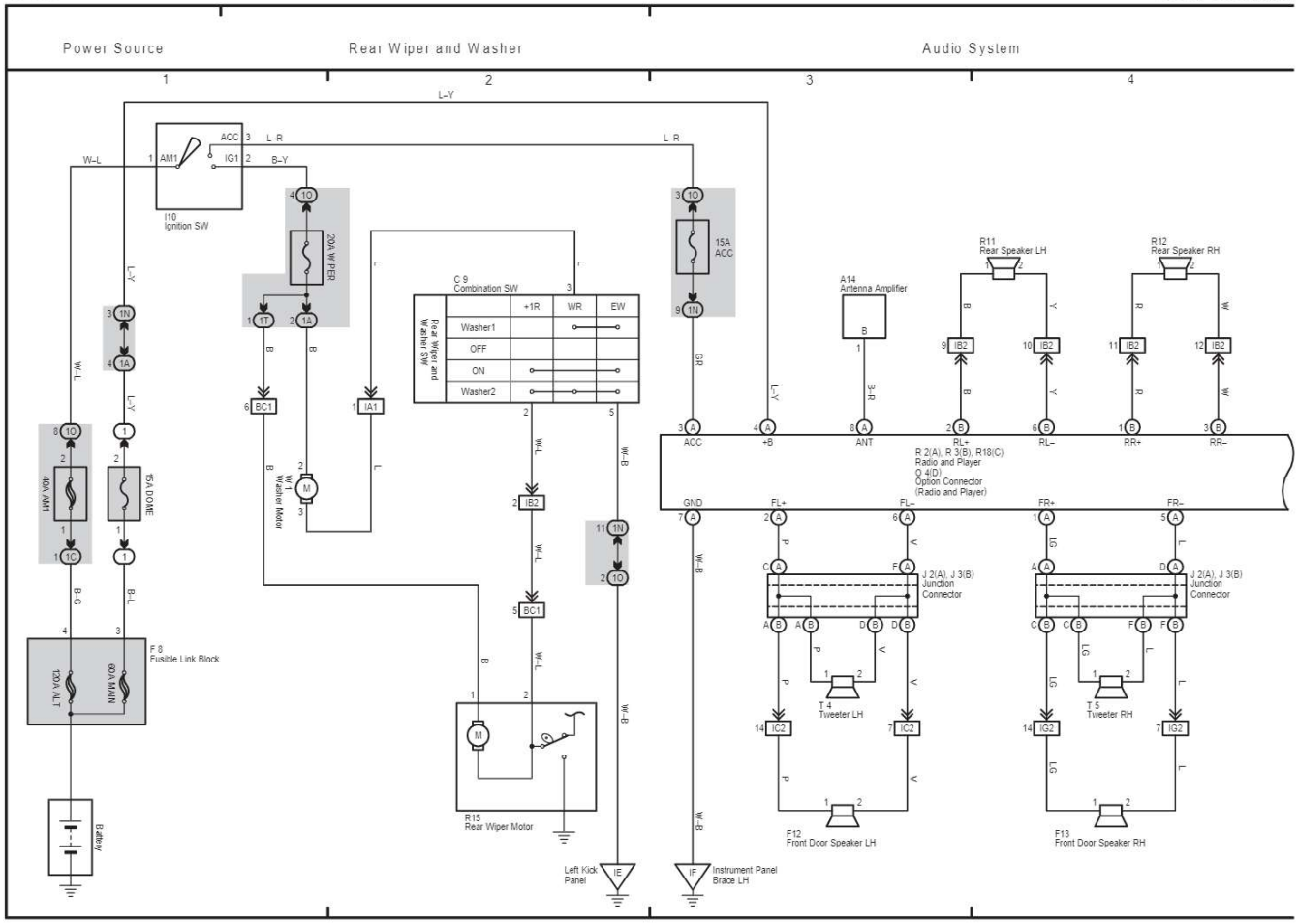
13 xB (Cont' d)

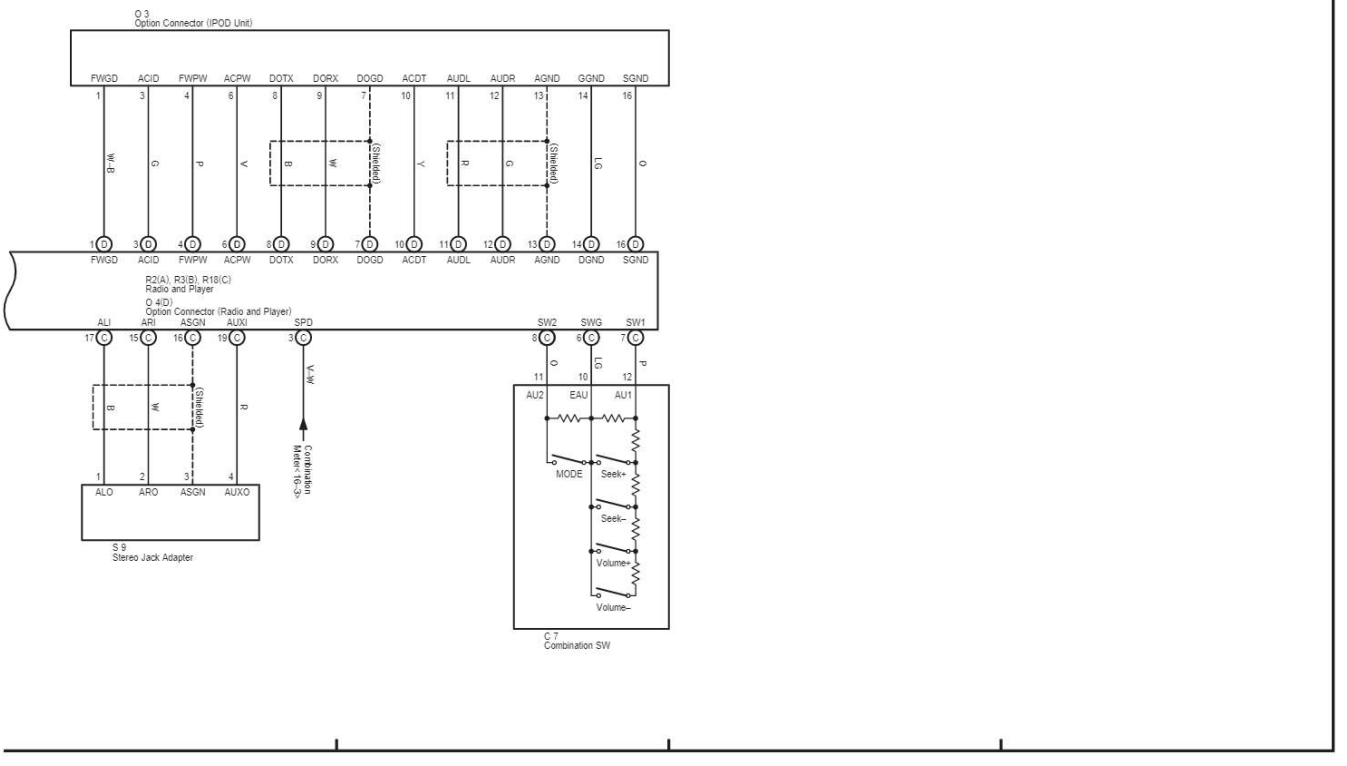

ABS, TRAC and VSC
Multiplex Communication System (CAN)
9
10
11
12
* 1 : Before Dec. 2005 Production
* 2 : From Dec. 2005 Production
C 6
Combination Meter
Stop
VSC
TRAC OFF
ABS
Brake
CPU
Speedometer
J 4(B)
Junction
Connector
S27
Steering Sensor
IG
BAT
ESS
CANL
CANH
J 5
Junction
Connector
Y 1
Yaw Rate Sensor
GND
E4
Engine Control
Module
D1
Data Link Connector 3
A17
A/C Amplifier
Instrument Panel
Brace LH
Rear
Door LH
Rear Quarter
Panel Inner RH
Rear
Door RH


Power Source
SRS (Before Dec. 2005 Production)
1
2
3
4
ACC
IG1
IG2
ST2
AM1
AM2
I10
Ignition SW
10A GAUGE
C9
Combination Meter
SRS
CPU
Data Link
Connector 3
<2–5><2–6>
Engine Control
Module<2–9>
F 1
Front Airbag
Sensor LH
Seat Belt Warning
System<2–2>
Seat Position
Sensor
B 7
Buckle SW LH
Seat Position Sensor
40A AM1
15A DOME
15A AMC
30A MAIN
120A ALT
F 8
Fusible Link Block
Battery
IF
Instrument
Panel
Brace LH
B 8
Buckle SW PH
Seat Belt
Tongue Detection
Sensor
Combination
Meter<9–2>
Left Kick
Panel
IE
A 9(A), A10(B), A11(C)
Airbag Sensor Assembly
IG2
LA
TC
SIL
GSW2
+SL
–SL
LSP+
LSP–
LBE+
LBE–
RBE+
RBE–
E2
E1
D2+
D2–
D+
D–
P2+
P2–
P+
P–
PL+
PL–
PR+
PR–
+SR
–SR
A13
Airbag Squib
(Steering Wheel Pad)
A12
Airbag Squib
(Front Passenger' s Airbag Assembly)
P13
Pretensioner LH
P14
Pretensioner RH
F 2
Front Airbag
Sensor RH

15 xB

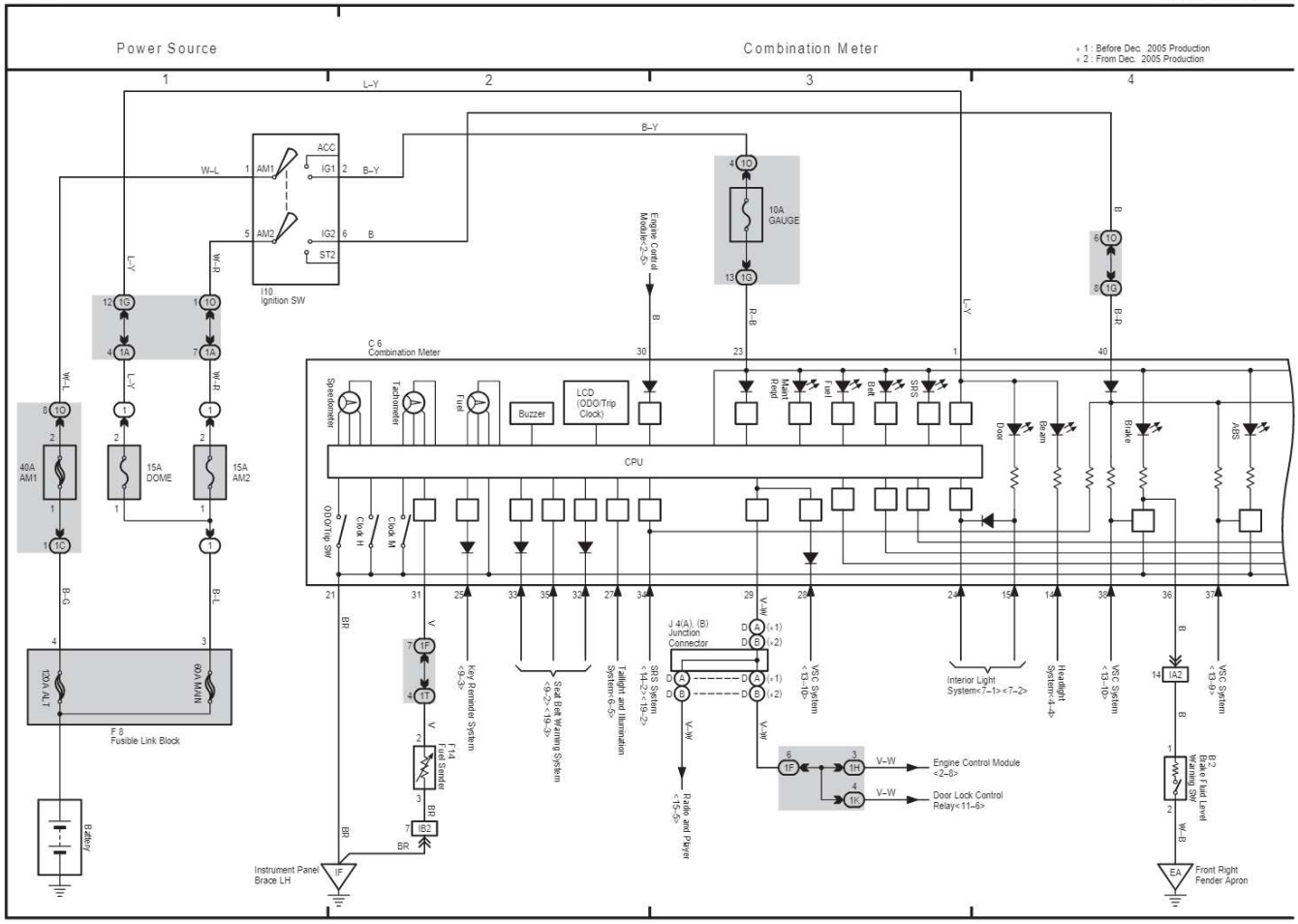
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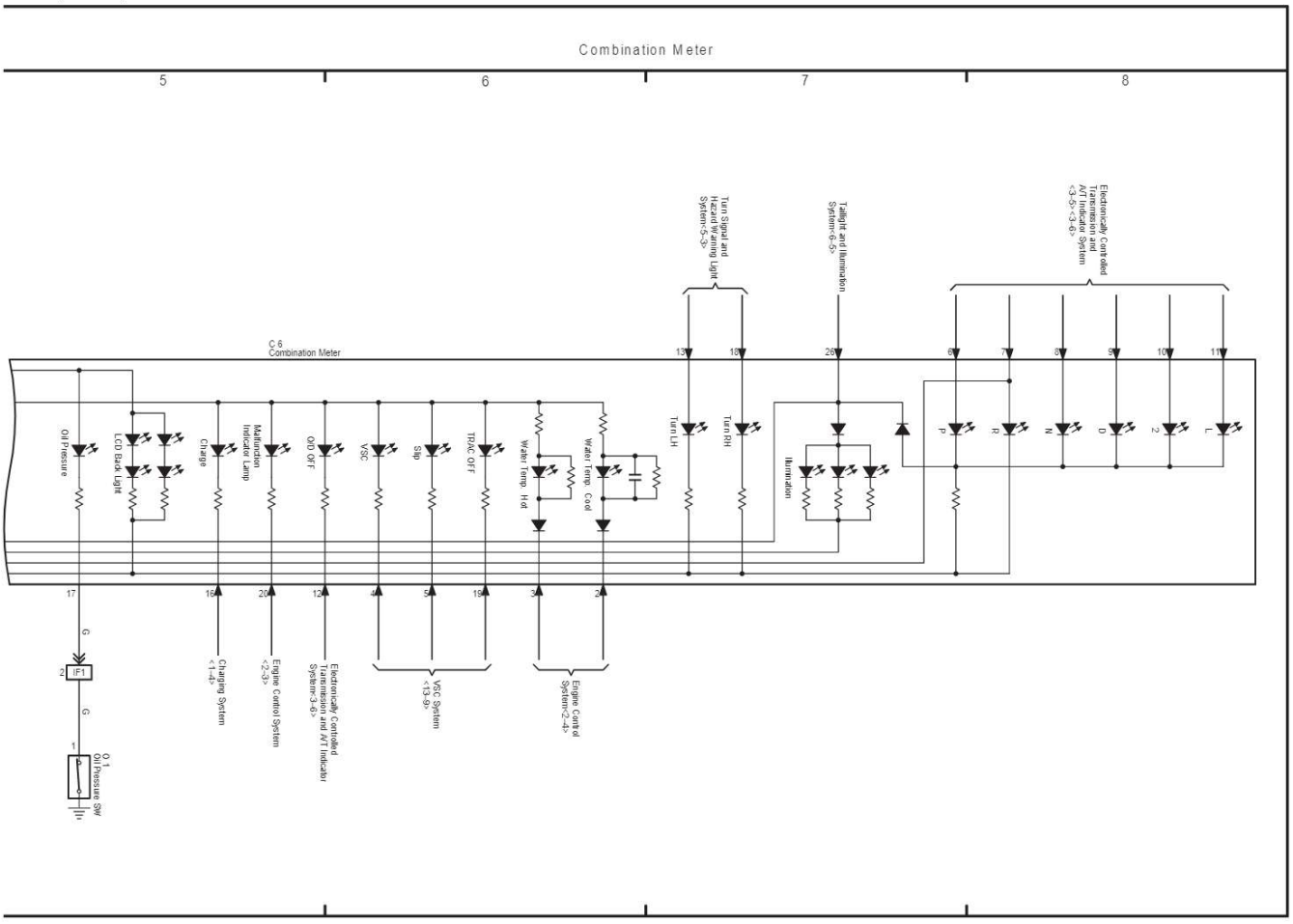



O 3
Option Connector (IPOD Unit)
FWGD ACID FWPW ACPW DOTX DORX DOGD ACDT AUDL AUDR AGND GGND SGND
1 3 4 6 8 9 7 10 11 12 13 14 16
W–B G P V B W (Shielded) Y R G (Shielded) LG O
1 D FWGD
3 D ACID
4 D FWPW
6 D ACPW
8 D DOTX
9 D DORX
7 D DOGD
10 D ACDT
11 D AUDL
12 D AUDR
13 D AGND
14 D DGND
16 D SGND
R2(A), R3(B), R18(C)
Radio and Player
O 4(D)
Option Connector (Radio and Player)
ALI ARI ASGN AUXI SPD SW2 SWG SW1
17 C 15 C 16 C 19 C 3 C 8 C 6 C 7 C
B W (Shielded) R V–W O LG P
11 10 12
AU2 EAU AU1
MODE Seek+ Seek– Volume+ Volume–
Combination Meter<16-3>
1 ALO
2 ARO
3 ASGN
4 AUXO
S 9
Stereo Jack Adapter
C 7
Combination SW

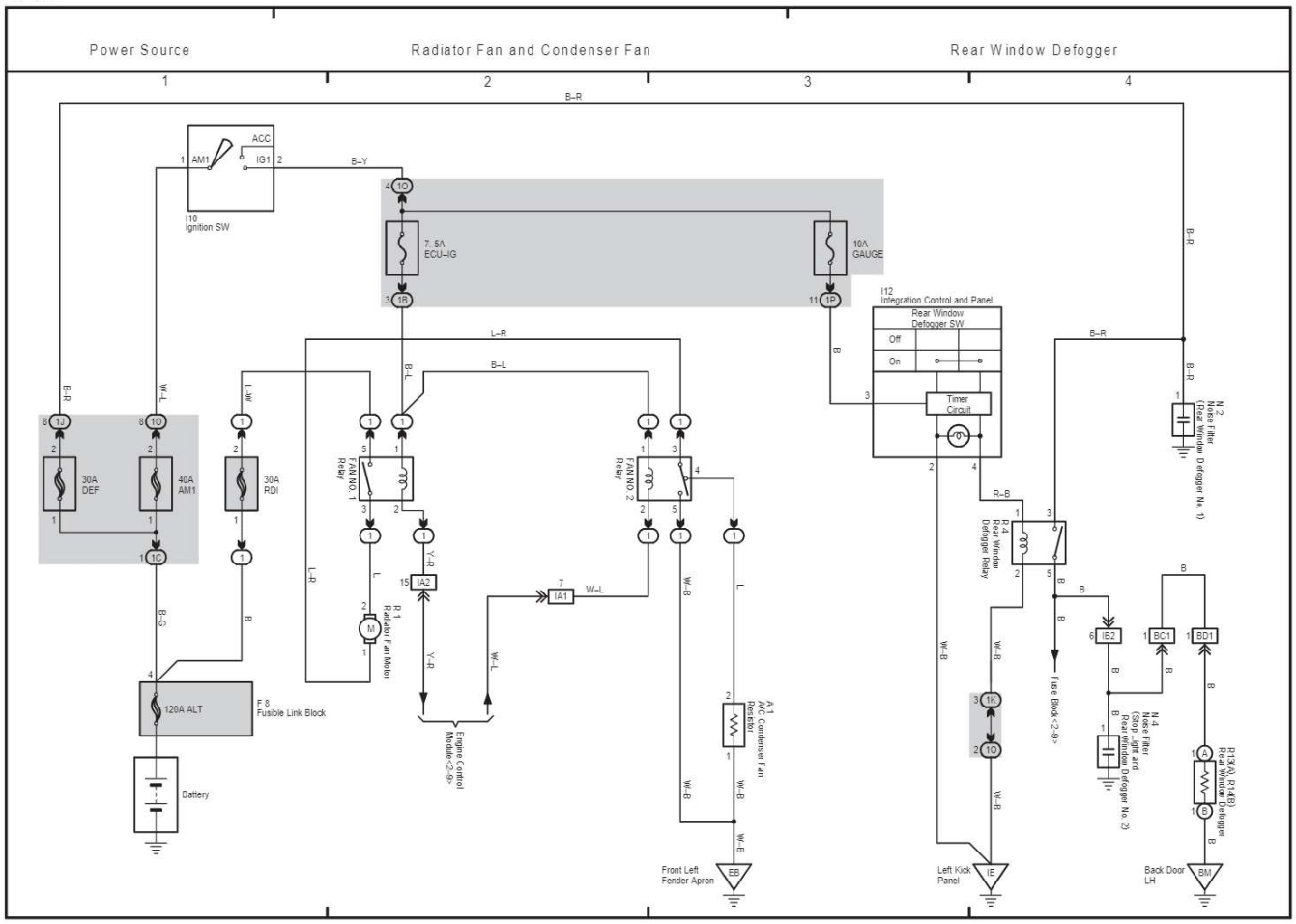
16 xB

(Cont. next page)



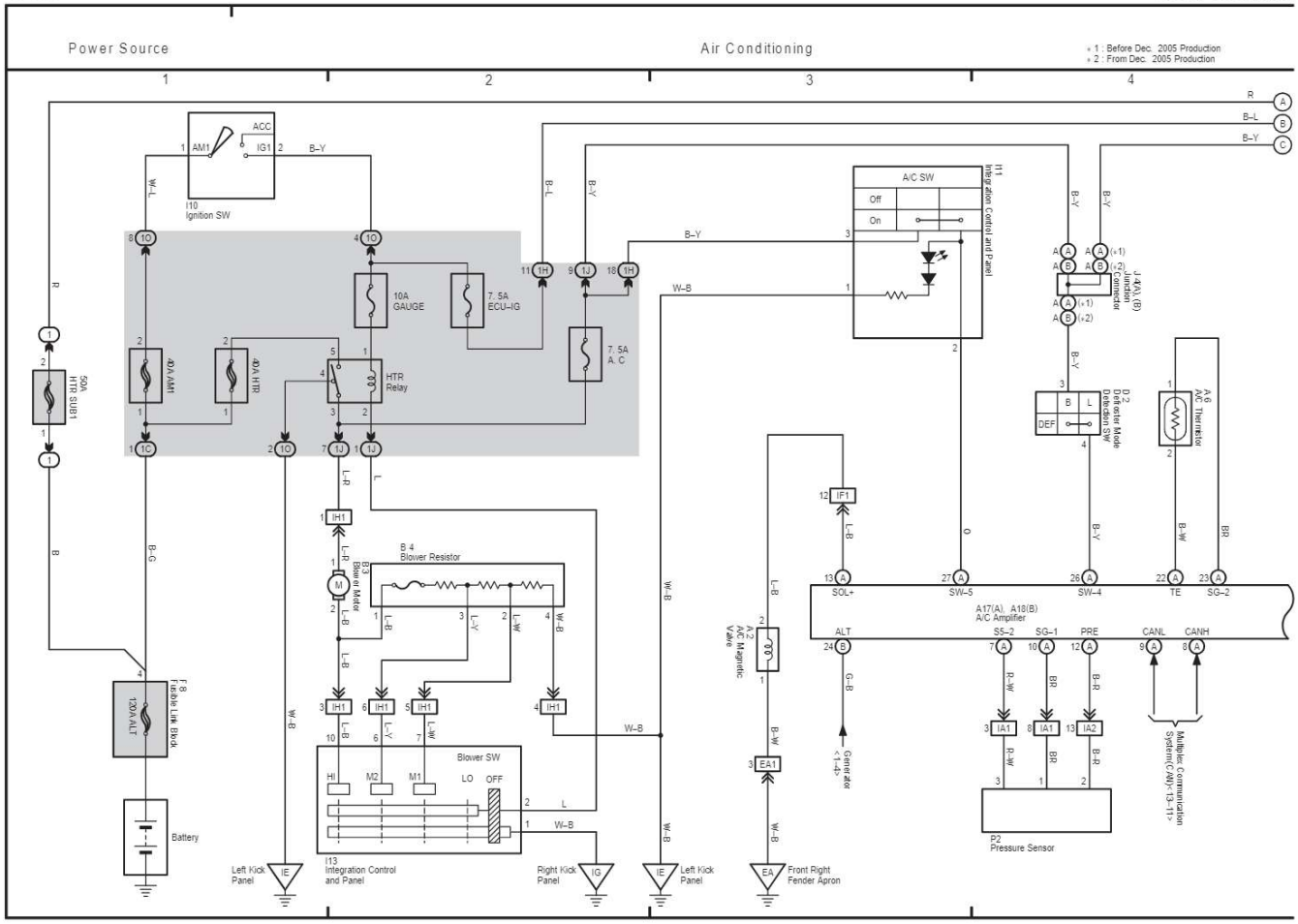

Combination Meter
5
6
7
8
C 6
Combination Meter
Oil Pressure
LCD Back Light
Charge
Malfunction Indicator Lamp
O/D OFF
VSC
Slip
TRAC OFF
Water Temp. Hot
Water Temp. Cold
Turn LH
Turn RH
Illumination
P
R
N
D
2
L
Turn Signal and Hazard Warning Light System<5-3>
Taillight and Illumination System<6-5>
Electronically Controlled Transmission and A/T Indicator System <3-5><3-6>
17
16
20
12
4
5
19
3
24
13
18
26
6
7
8
9
10
11
G
2 IF1
G
1
O 1
Oil Pressure SW
Charging System <1-4>
Engine Control System <2-3>
Electronically Controlled Transmission and A/T Indicator System<3-6>
VSC System <13-9>
Engine Control System<2-4>

17 xB

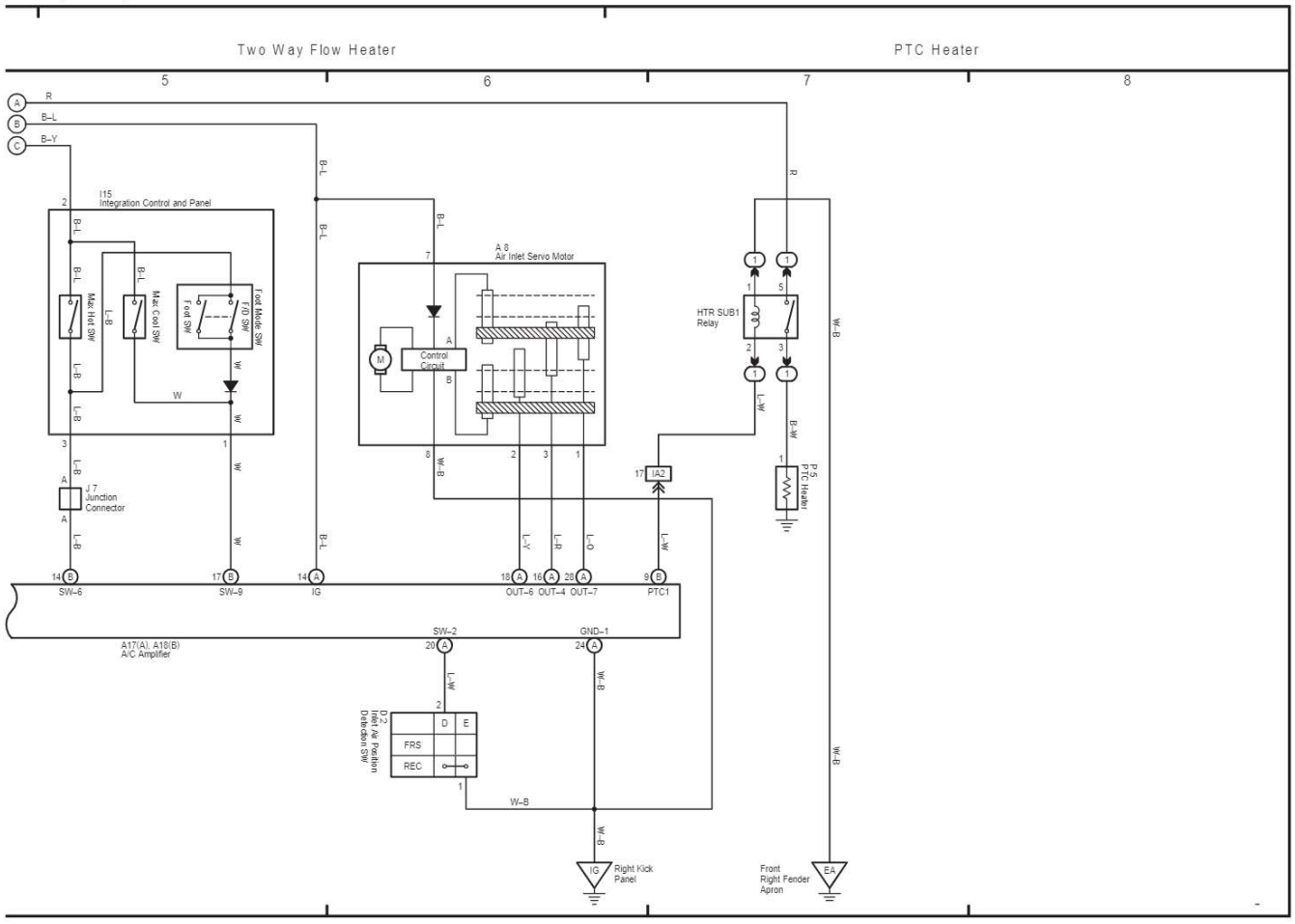

Power Source
Radiator Fan and Condenser Fan
Rear Window Defogger
1
2
3
4
B–R
ACC
AM1
IG1
B–Y
I10
Ignition SW
7.5A
ECU–IG
10A
GAUGE
I12
Integration Control and Panel
Rear Window
Defogger SW
Off
On
Timer
Circuit
L–R
B–L
L–W
W–L
B–R
30A
DEF
40A
AM1
30A
RDI
FAN NO.1
Relay
FAN NO.2
Relay
R–B
R4
Rear Window
Defogger Relay
N2
Noise Filter
(Rear Window Defogger No. 1)
Y–R
IA2
IA1
W–L
R1
Radiator Fan Motor
Engine Control
Module<2.9>
W–B
L
A1
A/C Condenser Fan
Resistor
B–G
B
120A ALT
F8
Fusible Link Block
Battery
Fuse Block<2.9>
IB2
IBC1
IBD1
N4
Noise Filter
(Stop Light and
Rear Window Defogger No. 2)
R13(R,R14B)
Rear Window Defogger
Front Left
Fender Apron
EB
Left Kick
Panel
IE
Back Door
LH
BM

18 xB

(Cont. next page)

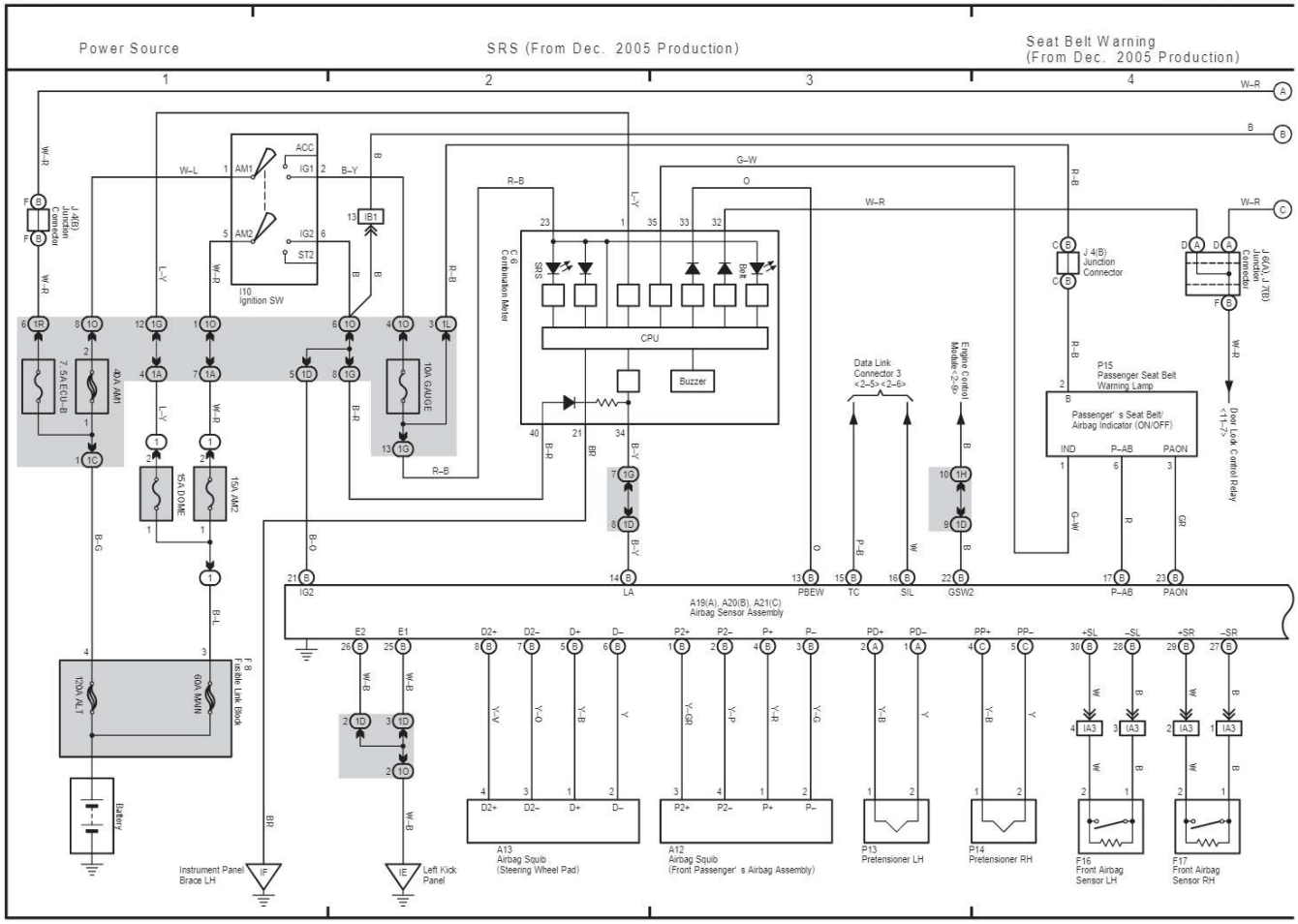


18 xB (Cont' d)

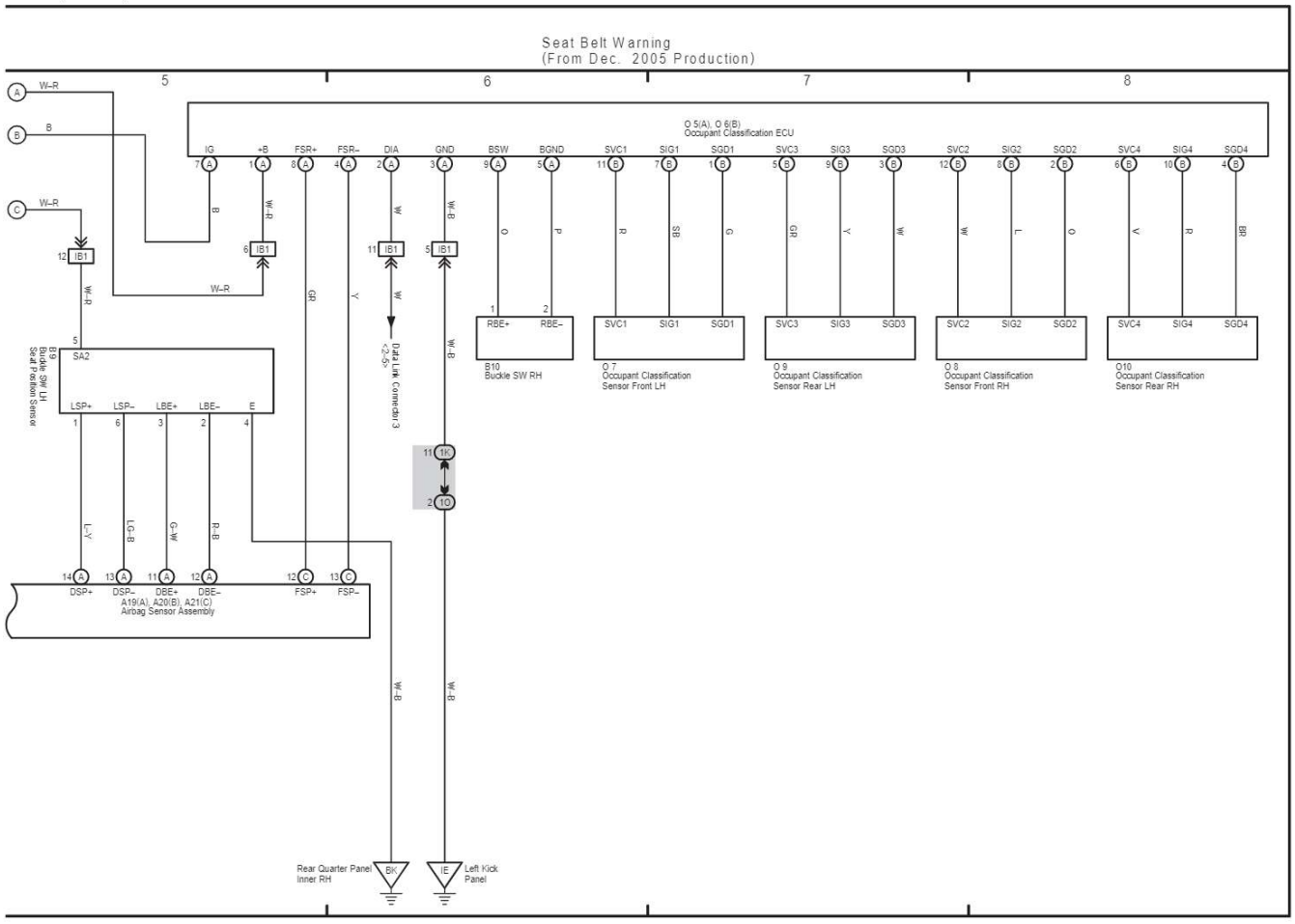

Two Way Flow Heater
PTC Heater
5
6
7
8
A
B
C
R
B–L
B–Y
I15
Integration Control and Panel
Max Heat SW
Max Cool SW
Foot SW
Foot Mode SW
F/D SW
W
J7
Junction Connector
A 8
Air Inlet Servo Motor
Control Circuit
M
HTR SUB1
Relay
P 5
PTC Heater
IA2
SW–6
SW–9
IG
OUT–6
OUT–4
OUT–7
PTC1
A17(A), A18(B)
A/C Amplifier
SW–2
GND–1
D 2
Inlet Air Position Detection SW
D
E
FRS
REC
Right Kick Panel
Front Right Fender Apron
EA

19 xB

(Cont. next page)

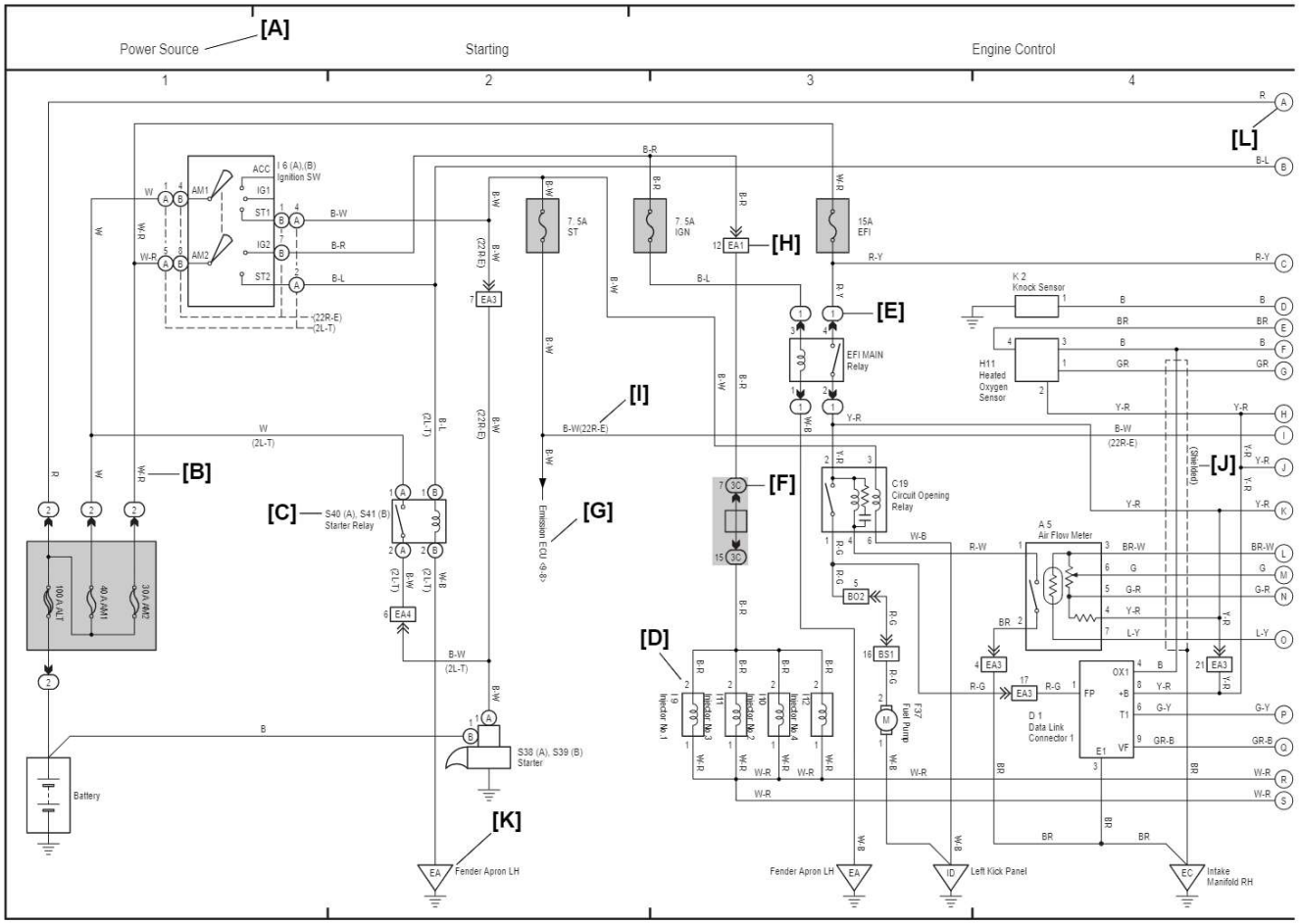


19 xB (Cont' d)


Seat Belt Warning
(From Dec. 2005 Production)
5
6
7
8
O 5(A), O 6(B)
Occupant Classification ECU
IG
+B
FSR+
FSR–
DIA
GND
BSW
BGND
SVC1
SIG1
SGD1
SVC3
SIG3
SGD3
SVC2
SIG2
SGD2
SVC4
SIG4
SGD4
W–R
B
W–R
W–R
W–R
W
W–B
O
P
R
SB
G
GR
Y
W
L
O
V
R
BR
IB1
SA2
B10
Buckle SW RH
O 7
Occupant Classification
Sensor Front LH
O 9
Occupant Classification
Sensor Rear LH
O 8
Occupant Classification
Sensor Front RH
O10
Occupant Classification
Sensor Rear RH
Buckle SW LH
Seat Position Sensor
LSP+
LSP–
LBE+
LBE–
E
L–Y
LG–B
G–W
R–B
DSP+
DSP–
DBE+
DBE–
FSP+
FSP–
A19(A), A20(B), A21(C)
Airbag Sensor Assembly
Data Link Connector 3
<2–5>
1K
1O
W–B
Rear Quarter Panel
Inner RH
BK
IE
Left Kick
Panel

HOW TO READ THIS SECTION

* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the wiring diagram section.



[A] : System Title

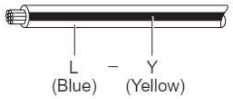
[B] : Indicates the wiring color.

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.

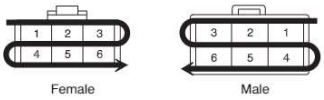
Example: L – Y



[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



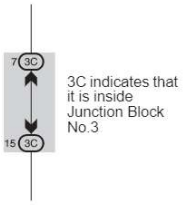
The numbering system for the overall wiring diagram is the same as above

[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

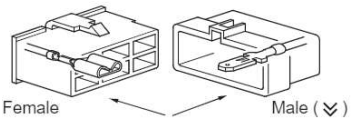
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



[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.

SYSTEM INDEX

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