

FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the 2001 PRIUS.

Applicable models: NHW11 Series

For service specifications and repair procedures of the above models other than those listed in this manual, refer to the following manuals;

| Manual Name | Pub. No. |
|--|--------------------|
| ● 2001 PRIUS Repair Manual Volume 1 Volume 2 | RM778U1 RM778U2 |
| ● 2001 PRUIS New Car Features | NCF182U |

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

TOYOTA MOTOR CORPORATION

CAUTION

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

NOTICE

When handling supplemental restraint system components (removal, installation or inspection, etc.), always follow the direction given in the repair manuals listed above to prevent accidents and supplemental restraint system malfunction.

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. |

HOW TO USE THIS MANUAL B

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, splice points, 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.

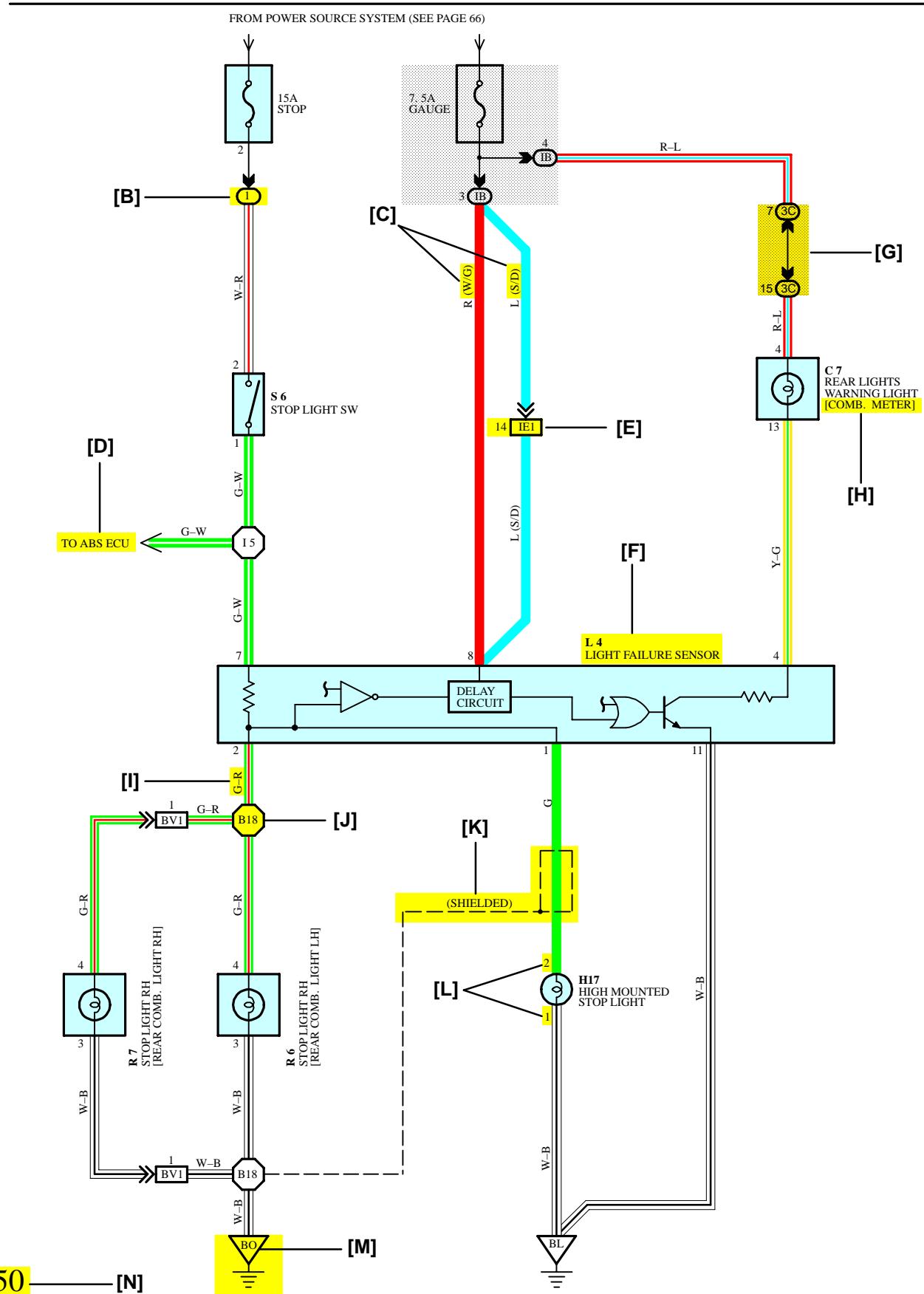
Wiring related to each system is indicated in each system circuit by arrows (from __, to __). When overall connections are required, see the Overall Electrical Wiring Diagram at the end of this manual.

B HOW TO USE THIS MANUAL

[A]

STOP LIGHT

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



[A] : System Title

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

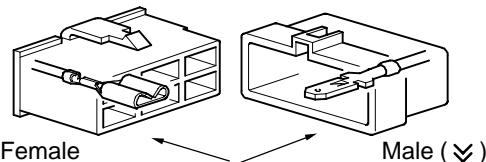
Example: ① Indicates Relay Block No.1

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

[D] : Indicates related system.

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

Outside numerals are pin numbers.



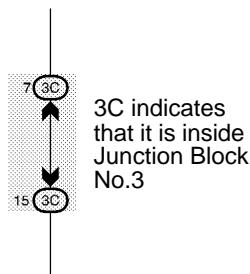
The first letter of the code for each wiring harness and wiring harness connector(s) indicates the component's location, e.g., "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

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

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

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

Example:



[H] : When 2 parts both use one connector in common, the parts connector name used in the wire routing section is shown in square brackets [].

[I] : 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

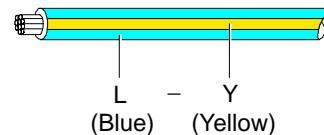
R = Red G = Green LG = Light Green

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



[J] : Indicates a wiring Splice Point (Codes are "E" for the Engine Room, "I" for the Instrument Panel, and "B" for the Body).

Example:



The Location of splice Point I 5 is indicated by the shaded section.

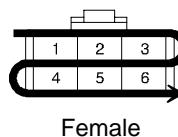
[K] : Indicates a shielded cable.



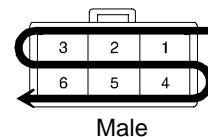
[L] : Indicates the pin number of the connector.

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



[M] : 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.

[N] : Page No.

B HOW TO USE THIS MANUAL

[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]

SERVICE HINTS

S6 STOP LIGHT SW

2-1 : Closed with the brake pedal depressed

L4 LIGHT FAILURE SENSOR

1, 2, 7-GROUND : Approx. 12 volts with the stop light SW on

4, 8-GROUND : Approx. 12 volts with the ignition SW at **ON** position

11-GROUND : Always continuity

[Q]

○ : PARTS LOCATION

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

[R]

□ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location) |
|------|----------|-------------------------------------|
| 1 | 18 | R/B No.1 (Instrument Panel Left) |

[S]

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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

[T]

□ : 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 Compartment Left) |

[U]

▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|----------|-------------------------------|
| BL | 50 | Under the Left Quarter Pillar |
| BO | 50 | Back Panel Center |

[V]

○ : SPLICE POINTS

| Code | See Page | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|----------|---------------------------------|
| I5 | 44 | Cowl Wire | B18 | 50 | Luggage Room Wire |

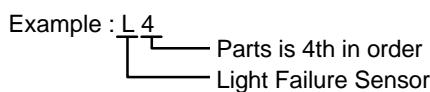
[O] : Explains the system outline.

[P] : Indicates values or explains the function for reference during troubleshooting.

[Q] : 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.



[R] : 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.

[S] : 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.

[T] : 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.

[U] : 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.

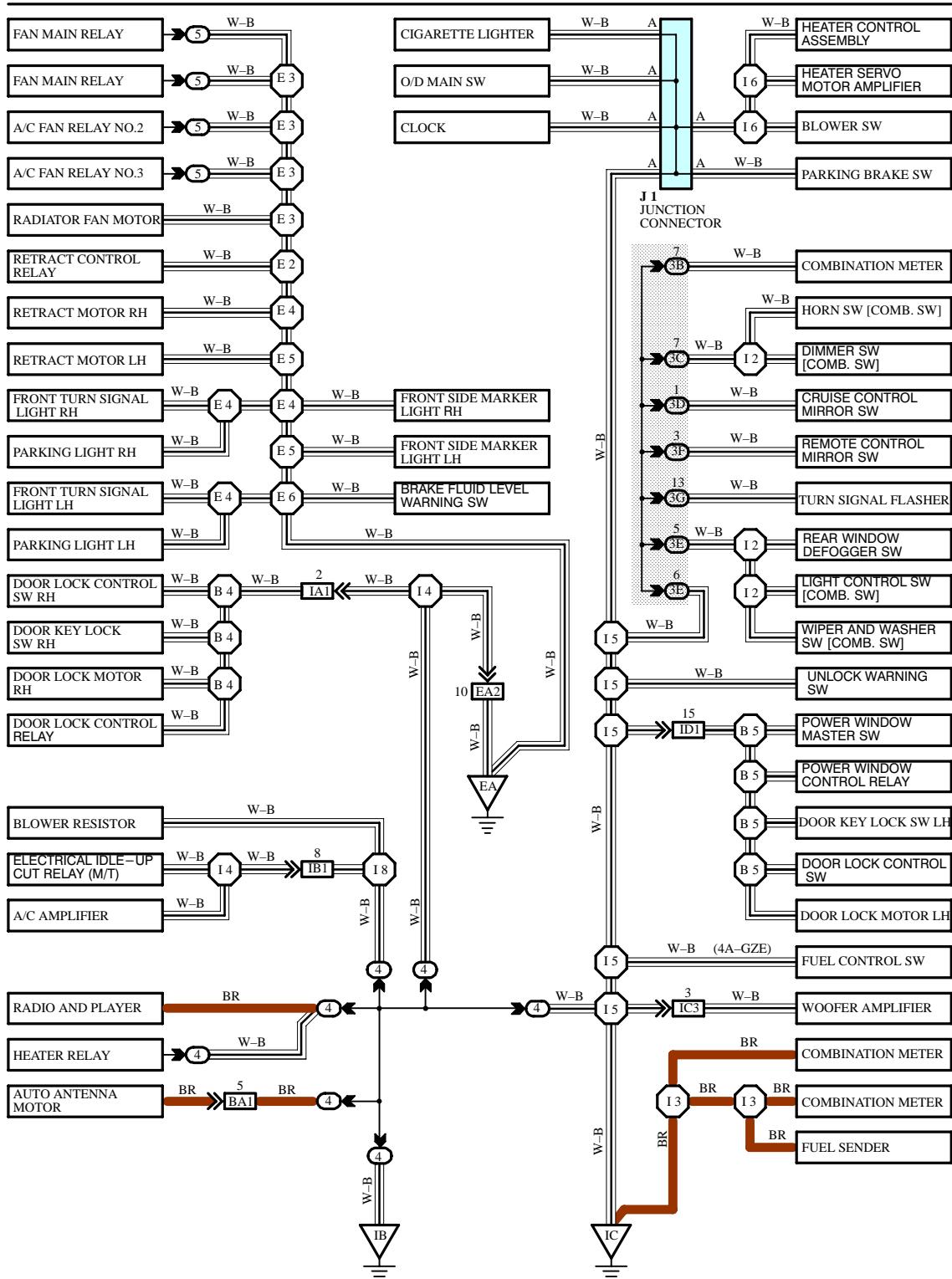
[V] : Indicates the reference page showing the position of the splice points on the vehicle.

Example : Splice point "I5" is on the Cowl Wire Harness and is described on page 44 of this manual.

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

I GROUND POINT

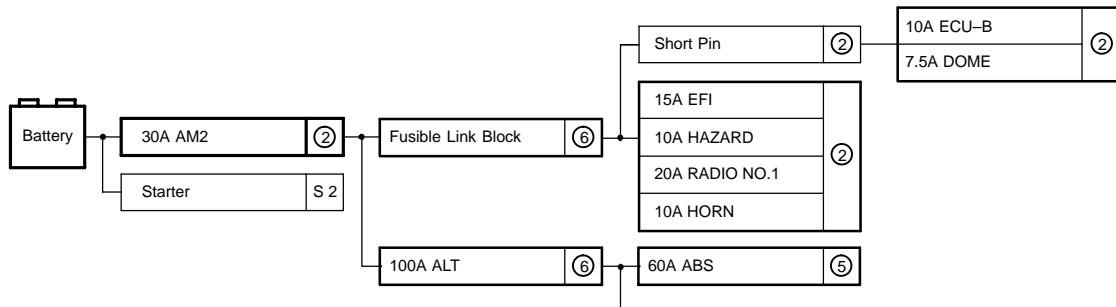


* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

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)

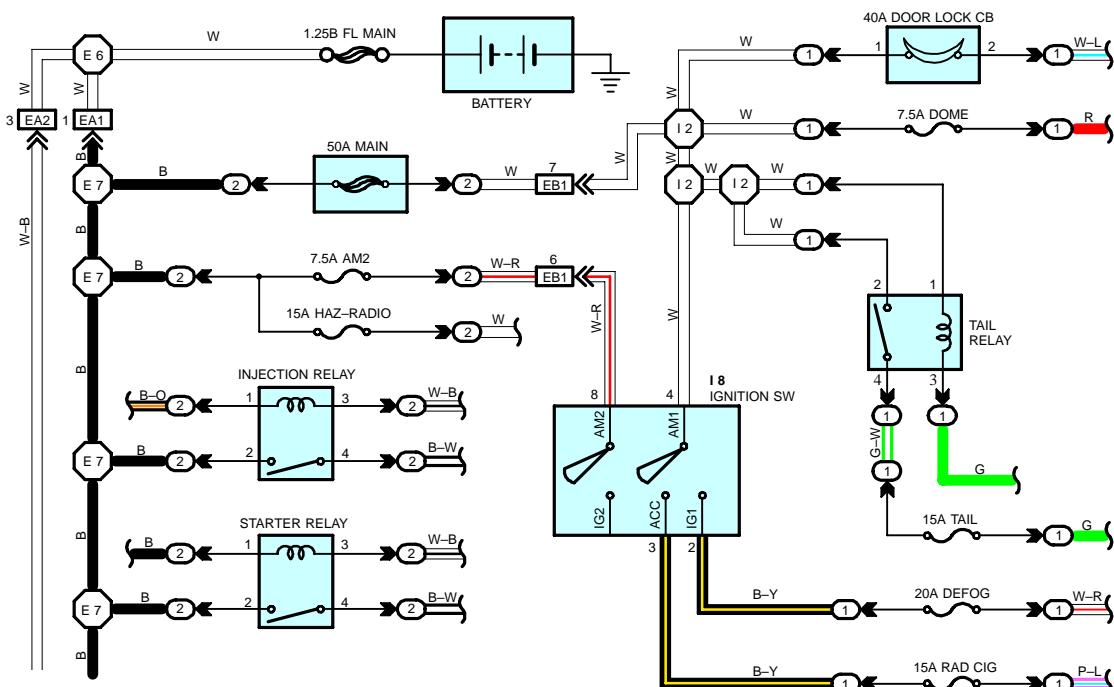
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other parts.



Engine Room R/B (See Page 20)

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

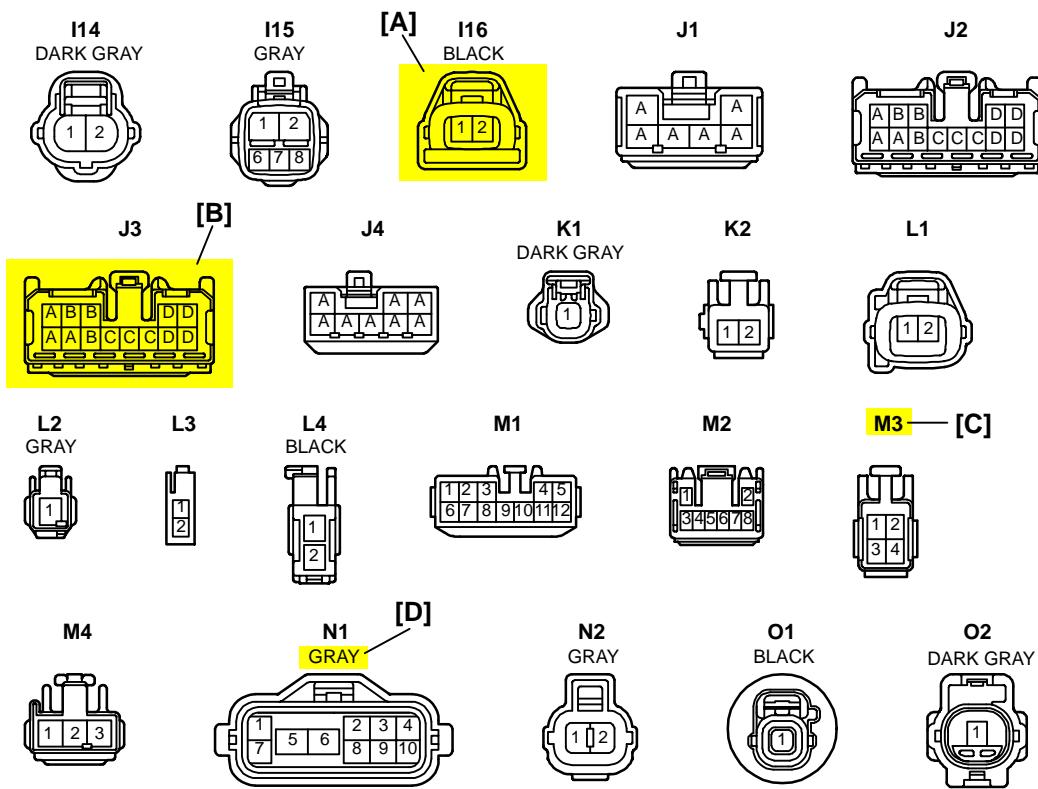
POWER SOURCE



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

B HOW TO USE THIS MANUAL

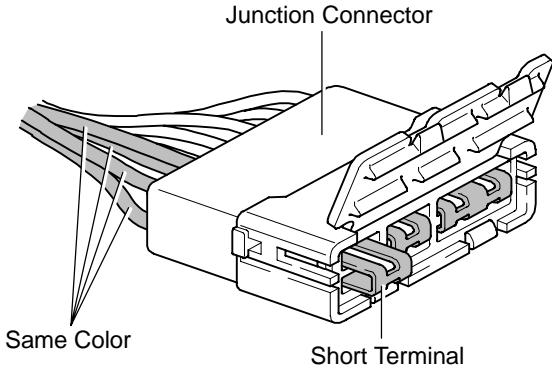
K CONNECTOR LIST



[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.

L PART NUMBER OF CONNECTORS

| Code | Part Name | Part Number | Code | Part Name | Part Number |
|------|--|-------------|------|---|-------------|
| A 1 | A/C Ambient Temp. Sensor | 90980-11070 | D 4 | Diode (Door Courtesy Light) | 90980-11608 |
| A 2 | A/C Condenser Fan Motor | 90980-11237 | D 5 | Diode (Key Off Operation) | 90980-10962 |
| A 3 | A/C Condenser Fan Relay | 90980-10940 | D 6 | Diode (Luggage Compartment Light) | 90980-11608 |
| A 4 | A/C Triple Pressure SW (A/C Dual and Single Pressure SW) | 90980-10943 | D 7 | Door Lock Control Relay | 90980-10848 |
| [A] | A/T Oil Temp. Sensor [B] | 90980-11143 | D 8 | Door Courtesy Light LH | 90980-11148 |
| A 6 | ABS Actuator | 90980-11151 | D 9 | Door Courtesy Light RH | |
| A 7 | ABS Actuator | 90980-11009 | D 10 | Door Courtesy SW LH | 90980-11097 |
| A 8 | ABS Speed Sensor Front LH | 90980-10941 | D 11 | Door Courtesy SW RH | |
| A 9 | ABS Speed Sensor Front RH | 90980-11002 | D 12 | Door Courtesy SW Front LH | |
| A 10 | Airbag Sensor Front LH | 90980-11856 | D 13 | Door Courtesy SW Front RH | |
| A 11 | Airbag Sensor Front RH | | D 14 | Door Courtesy SW Rear LH | 90980-11156 |
| A 12 | | 90980-11194 | D 15 | Door Courtesy SW Rear RH | |
| | | 90980-11194 | D 16 | Door Lock Control Relay Unlock SW LH | 90980-11170 |
| | | | | | RH |

[A] : Part Code

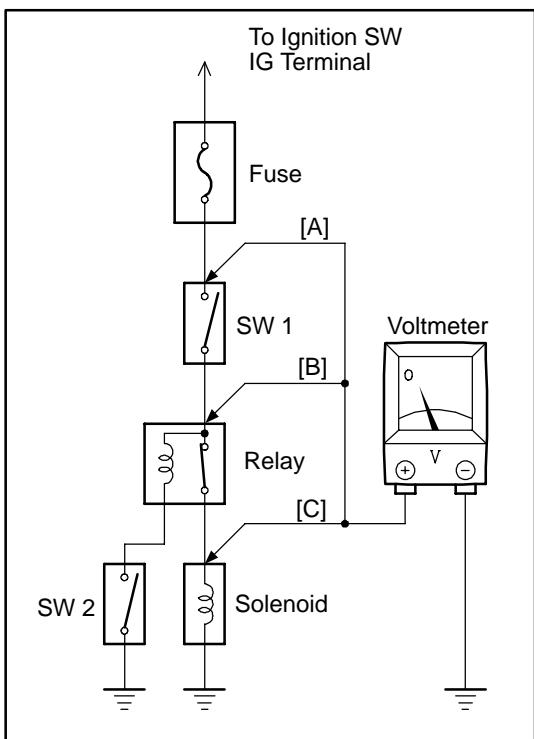
[B] : Part Name

[C] : Part Number

Toyota Part Number are indicated.

Not all of the above part numbers of the connector are established for the supply. In case of ordering a connector or terminal with wire, please confirm in advance if there is supply for it using "Parts Catalog News" (published by Parts Engineering Administration Dept.).

C TROUBLESHOOTING



VOLTAGE CHECK

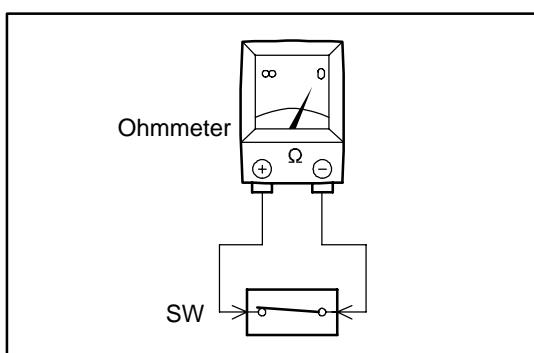
- (a) Establish conditions in which voltage is present at the check point.

Example:

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

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

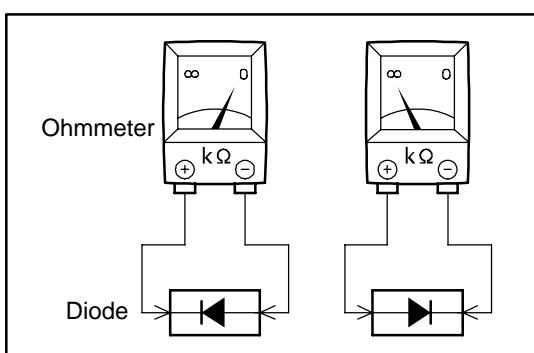
This check can be done with a test light instead of a voltmeter.



CONTINUITY AND RESISTANCE CHECK

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

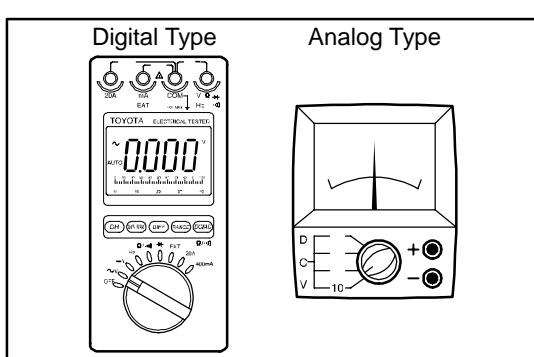
- (b) Contact the two leads of an ohmmeter to each of the check points.



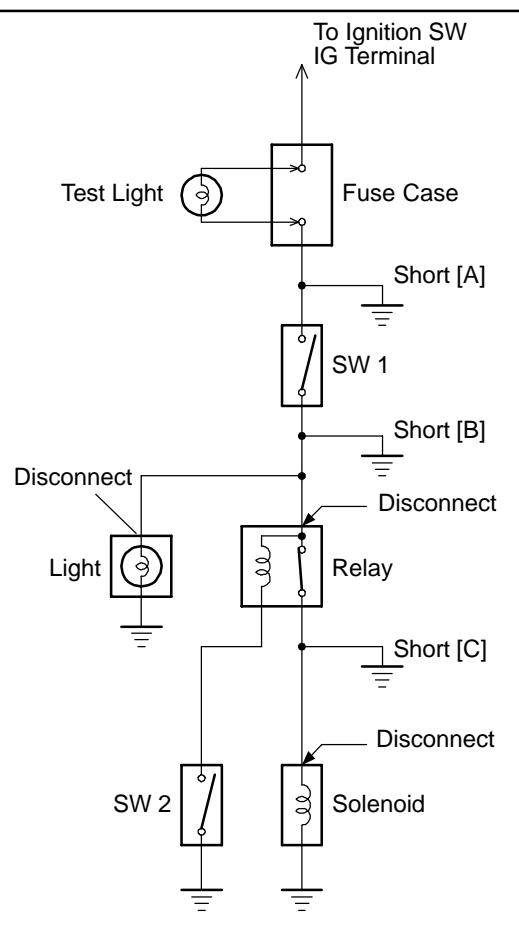
If the circuit has diodes, reverse the two leads and check again.

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

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



- (c) Use a volt/ohmmeter with high impedance ($10 \text{ k}\Omega/\text{V}$ minimum) for troubleshooting of the electrical circuit.



FINDING A SHORT CIRCUIT

- Remove the blown fuse and disconnect all loads of the fuse.
 - Connect a test light in place of the fuse.
 - 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)
- 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.
 - Find the exact location of the short by lightly shaking the problem wire along the body.

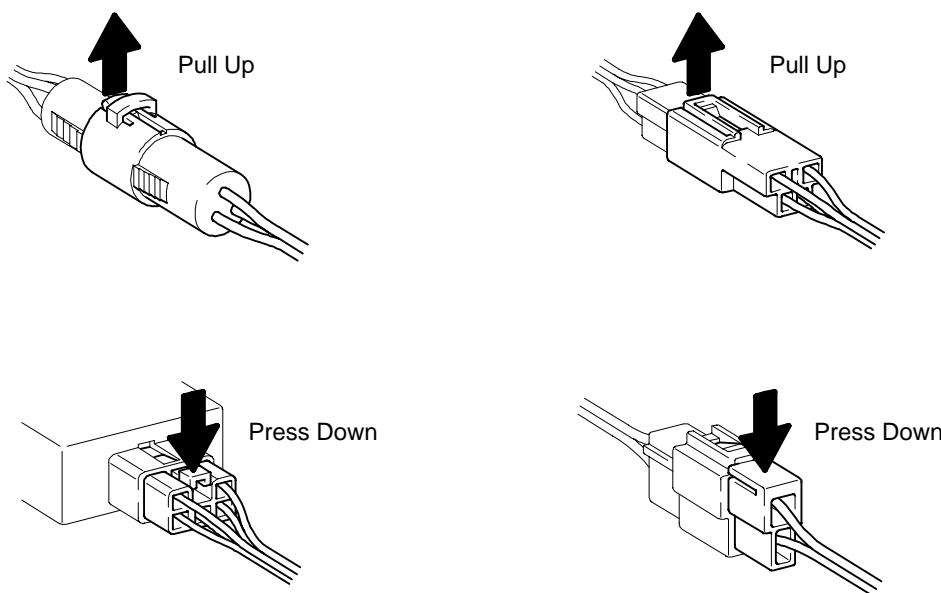
CAUTION:

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

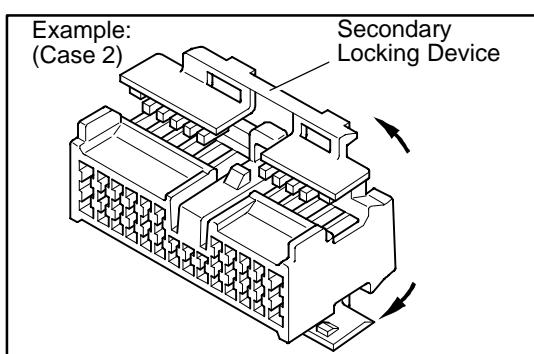
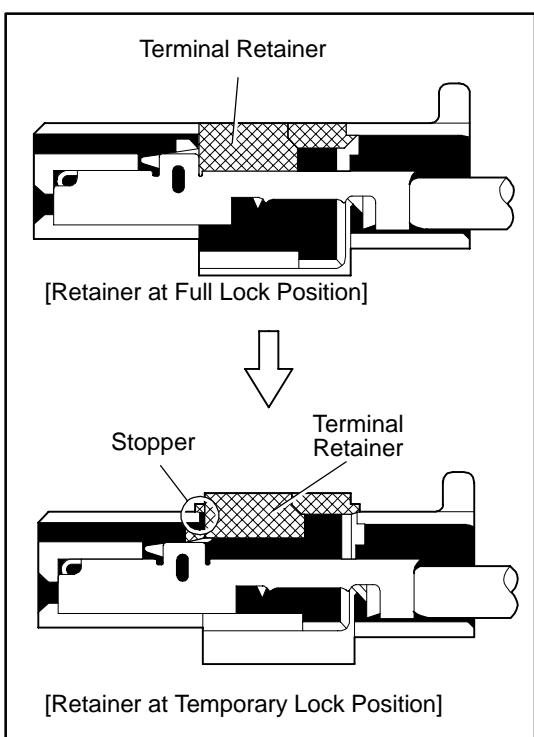
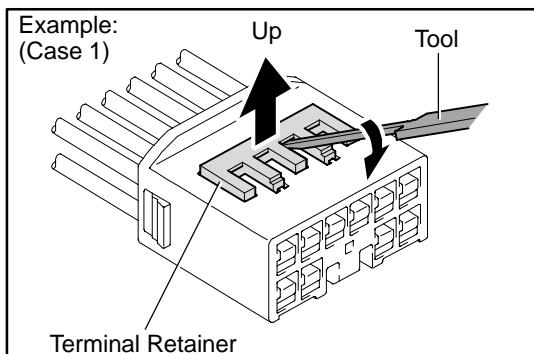
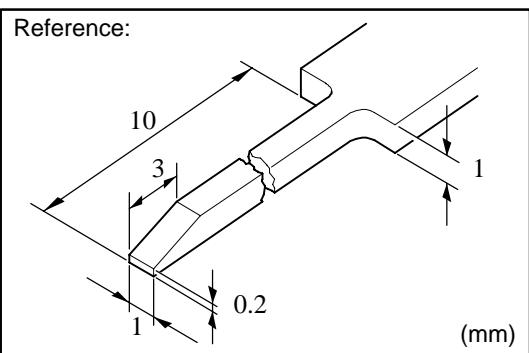
DISCONNECTION OF MALE AND FEMALE CONNECTORS

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

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



C TROUBLESHOOTING



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.

- Locking device must be disengaged before the terminal locking clip can be released and the terminal removed from the connector.
- Use a special tool or the terminal pick to unlock the secondary locking device or terminal retainer.

NOTICE:

Do not remove the terminal retainer from connector body.

[A] For Non-Waterproof Type Connector

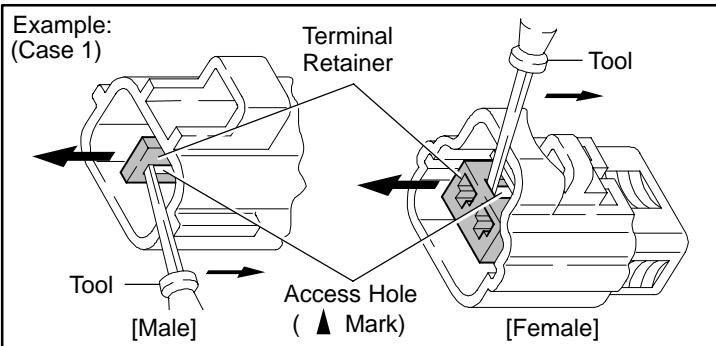
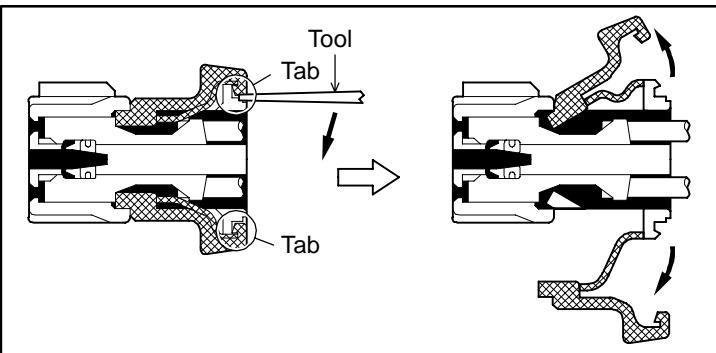
HINT : The needle insertion position varies according to the connector's shape (number of terminals etc.), so check the position before inserting it.

"Case 1"

Raise the terminal retainer up to the temporary lock position.

"Case 2"

Open the secondary locking device.



[B] For Waterproof Type Connector

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

Example:

Terminal Retainer : Connector Body

Black or White : Gray

Black or White : Dark Gray

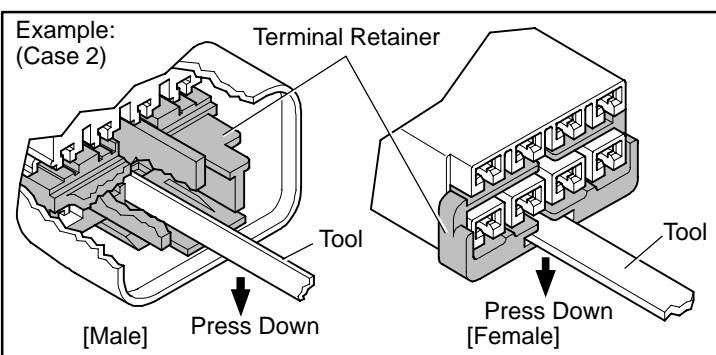
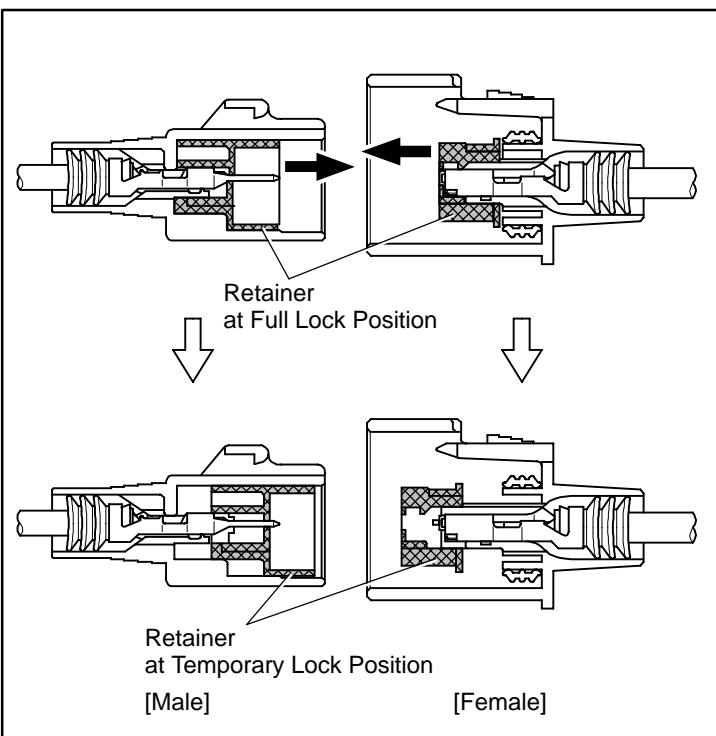
Gray or White : Black

"Case 1"

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

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

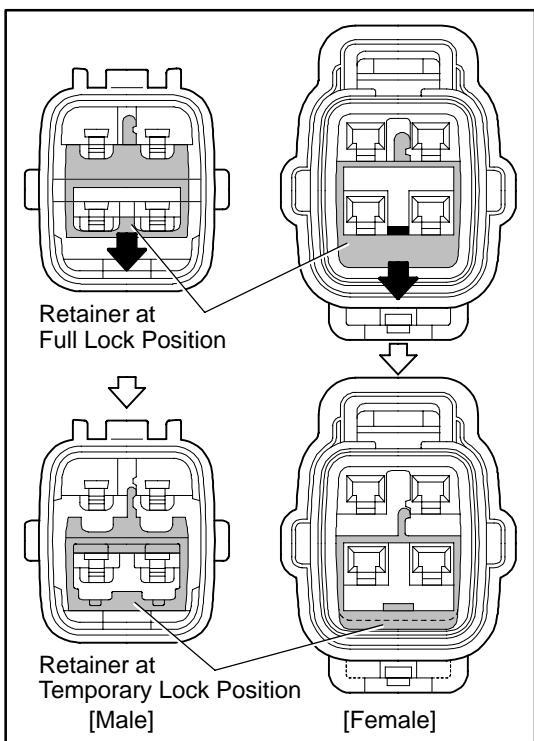
HINT: The needle insertion position varies according to the connector's shape (Number of terminals etc.), so check the position before inserting it.



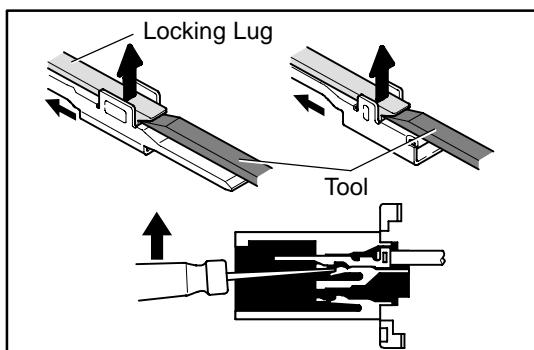
"Case 2"

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

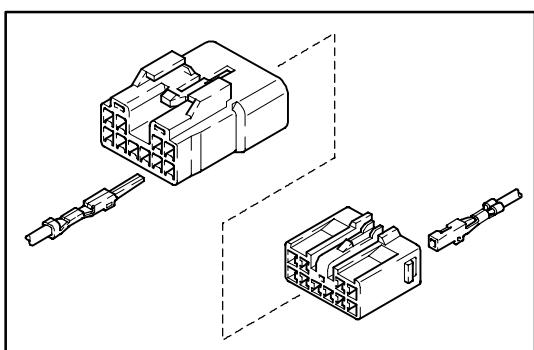
C TROUBLESHOOTING



Push the terminal retainer down to the temporary lock position.



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

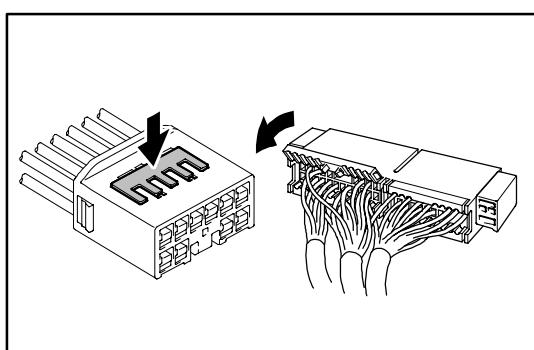


4. INSTALL TERMINAL TO CONNECTOR

(a) Insert the terminal.

HINT:

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



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

5. CONNECT CONNECTOR

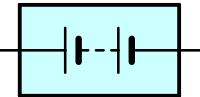
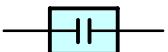
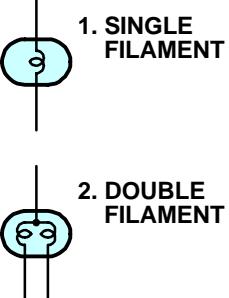
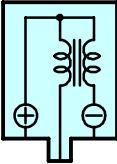
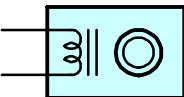
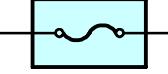
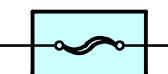
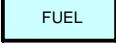
ABBREVIATIONS

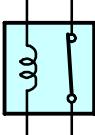
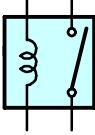
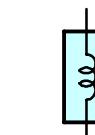
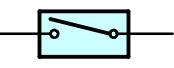
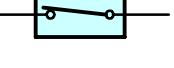
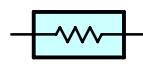
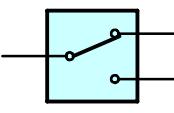
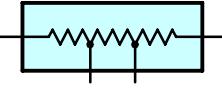
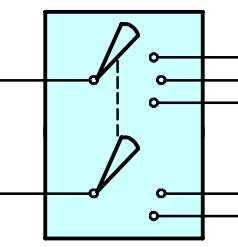
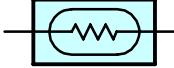
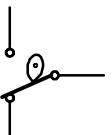
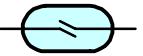
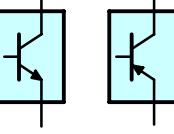
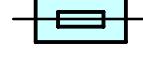
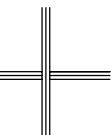
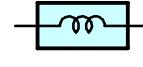
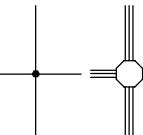
The following abbreviations are used in this manual.

| | | |
|-------|---|-------------------------------------|
| ABS | = | Anti-Lock Brake System |
| A/C | = | Air Conditioning |
| COMB. | = | Combination |
| DC | = | Direct Current |
| ECU | = | Electronic Control Unit |
| EMPS | = | Electric Motor Power Steering |
| ESA | = | Electronic Spark Advance |
| EVAP | = | Evaporative Emission |
| HV | = | Hybrid Vehicle |
| J/B | = | Junction Block |
| LH | = | Left-Hand |
| PTC | = | Positive Temperature Coefficient |
| R/B | = | Relay Block |
| RH | = | Right-Hand |
| SFI | = | Sequential Multiport Fuel Injection |
| SRS | = | Supplemental Restraint System |
| SW | = | Switch |
| TEMP. | = | Temperature |
| VSV | = | Vacuum Switching Valve |
| w/ | = | With |
| w/o | = | Without |

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

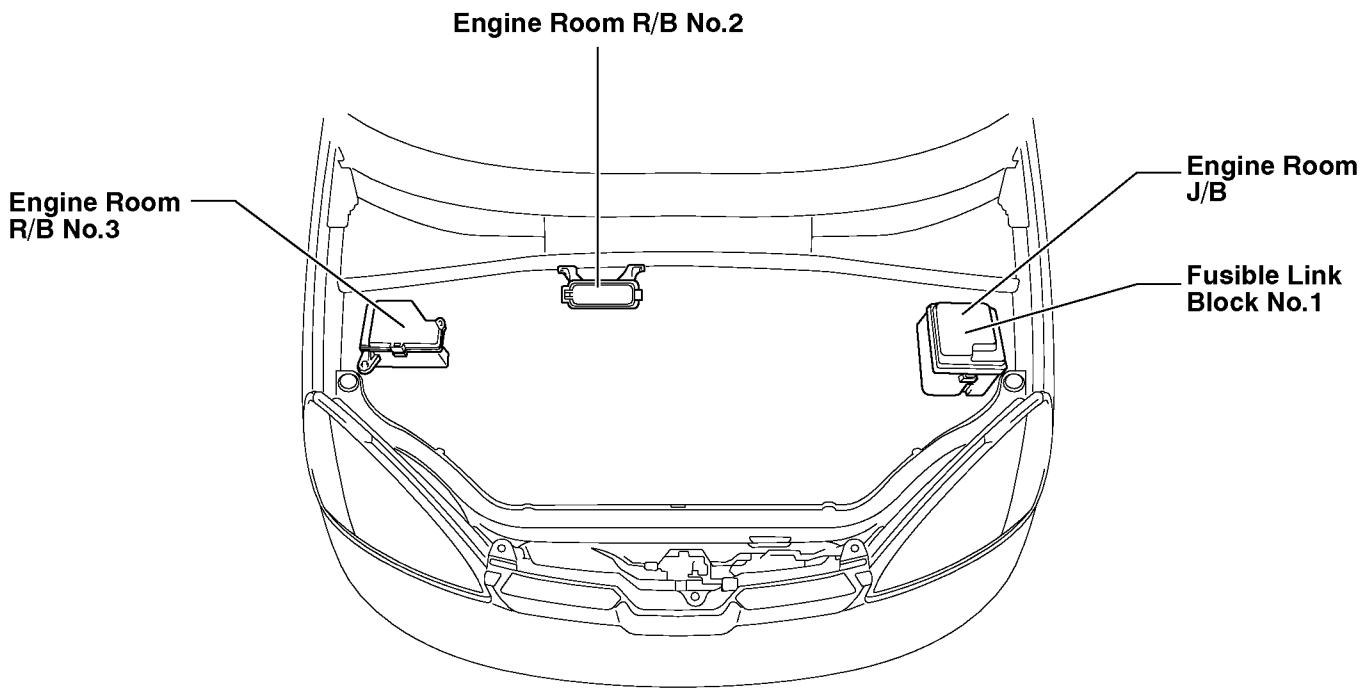
E GLOSSARY OF TERMS AND SYMBOLS

| | |
|--|--|
|  <p>BATTERY Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.</p> |  <p>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.</p> |
|  <p>CAPACITOR (Condenser) A small holding unit for temporary storage of electrical voltage.</p> |  <p>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</p> |
|  <p>CIGARETTE LIGHTER An electric resistance heating element.</p> |  <p>HORN An electric device which sounds a loud audible signal.</p> |
|  <p>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.</p> |  <p>IGNITION COIL Converts low-voltage DC current into high-voltage ignition current for firing the spark plugs.</p> |
|  <p>DIODE A semiconductor which allows current flow in only one direction.</p> |  <p>LIGHT Current flow through a filament causes the filament to heat up and emit light.</p> |
|  <p>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.</p> |  <p>PHOTODIODE The photodiode is a semiconductor which controls the current flow according to the amount of light.</p> |
|  <p>DISTRIBUTOR, IIA Channels high-voltage current from the ignition coil to the individual spark plugs.</p> |  <p>METER, ANALOG Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.</p> |
|  <p>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.</p>  <p>FUSIBLE LINK (for Medium Current Fuse) A heavy-gauge wire placed in high amperage circuits which burns through on overloads, thereby protecting the circuit. The numbers indicate the crosssection surface area of the wires.</p>  <p>(for High Current Fuse or Fusible Link)</p> |  <p>METER, DIGITAL Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.</p>  <p>MOTOR A power unit which converts electrical energy into mechanical energy, especially rotary motion.</p> |

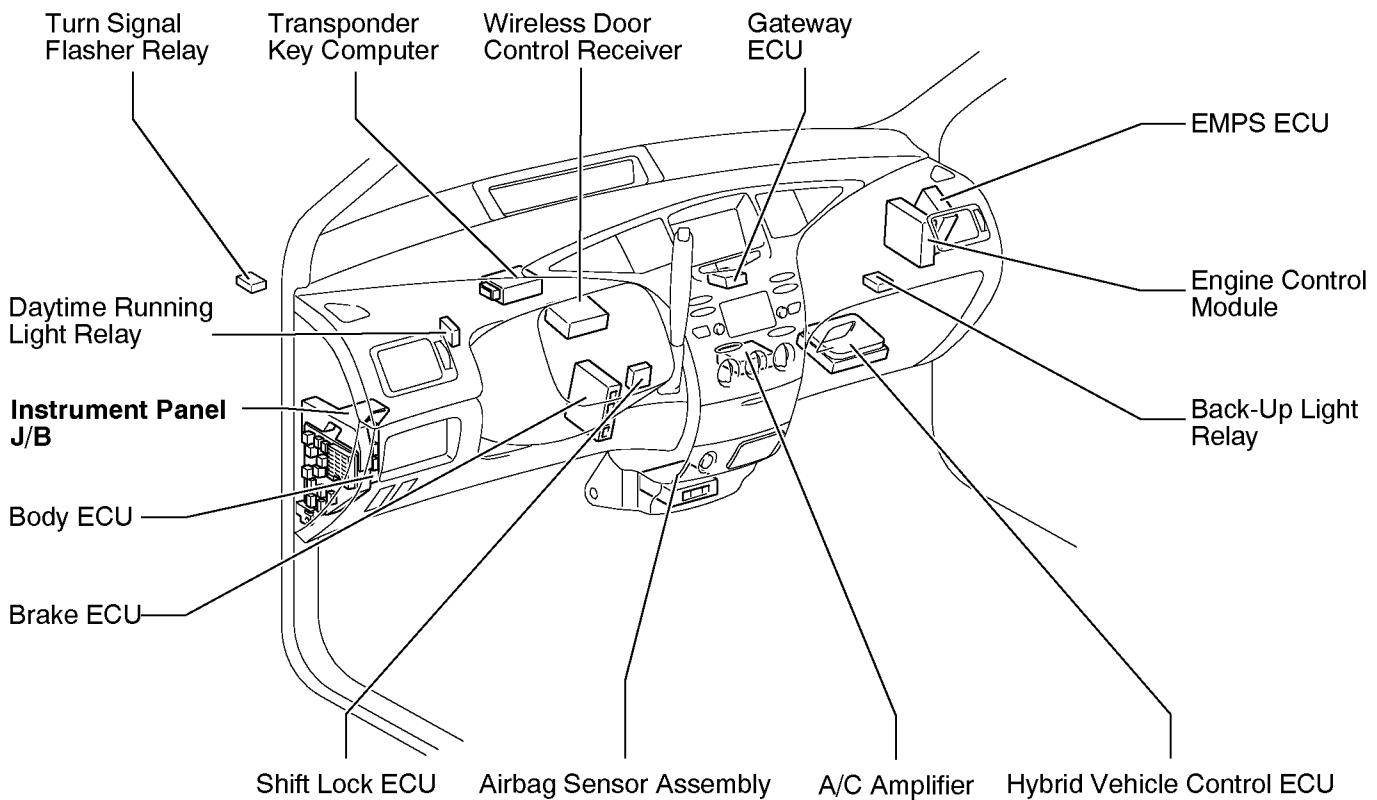
| | |
|---|---|
| <p>RELAY  1. NORMALLY CLOSED Basically, an electrically operated switch which may be normally closed (1) or open (2). Current flow through a small coil creates a magnetic field which either opens or closes an attached switch.  2. NORMALLY OPEN</p> | <p>SPEAKER  An electromechanical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

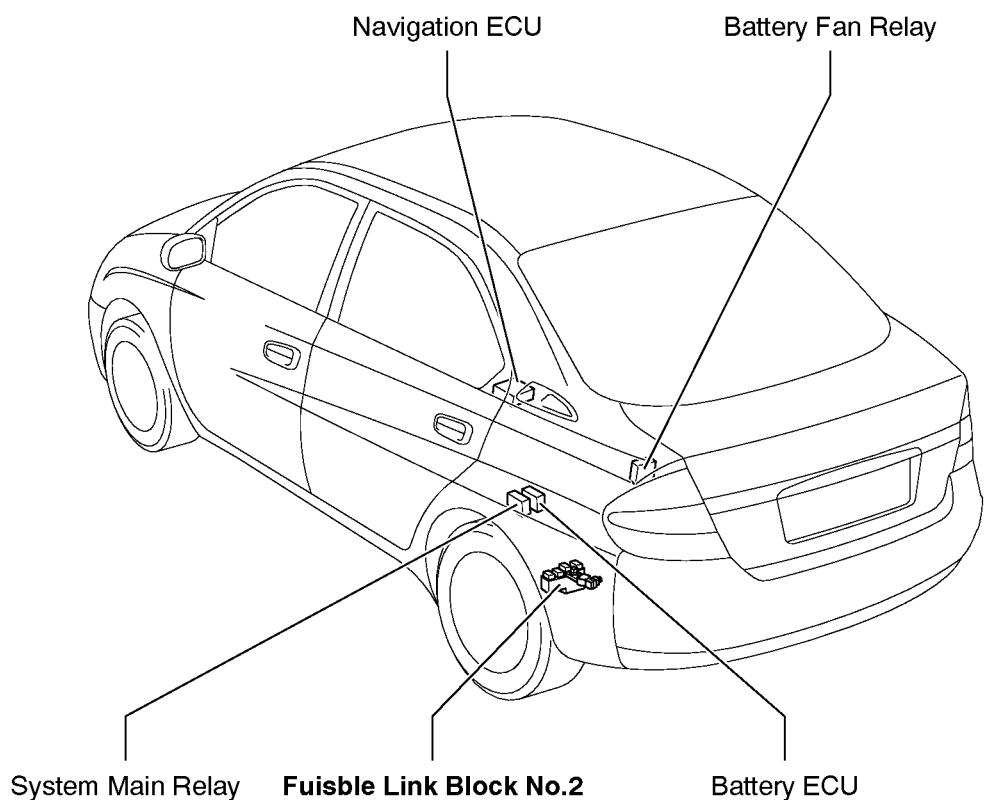
F RELAY LOCATIONS

[Engine Compartment]



[Instrument Panel]

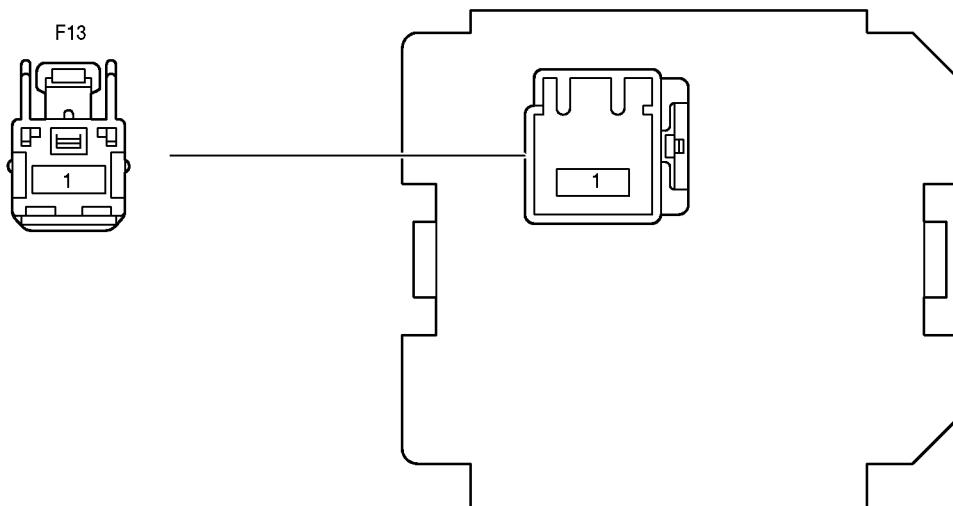
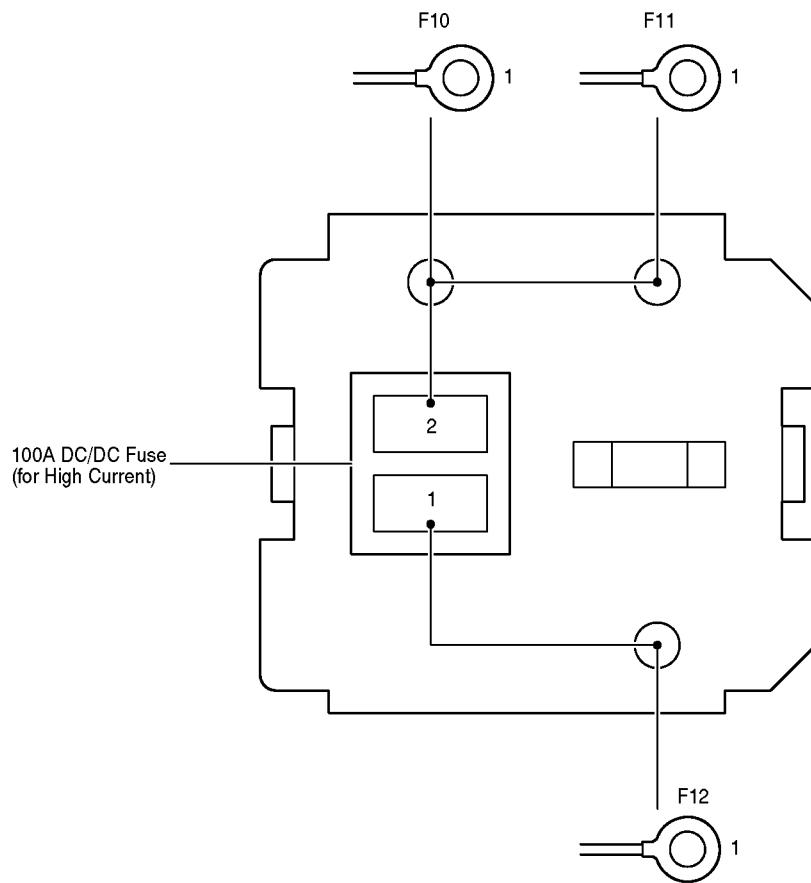


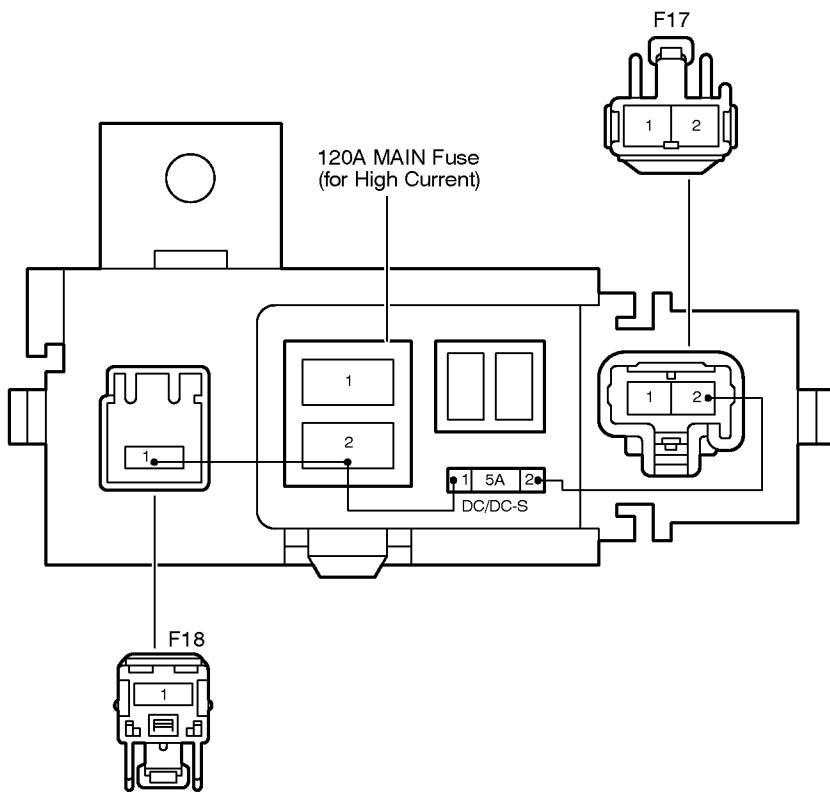
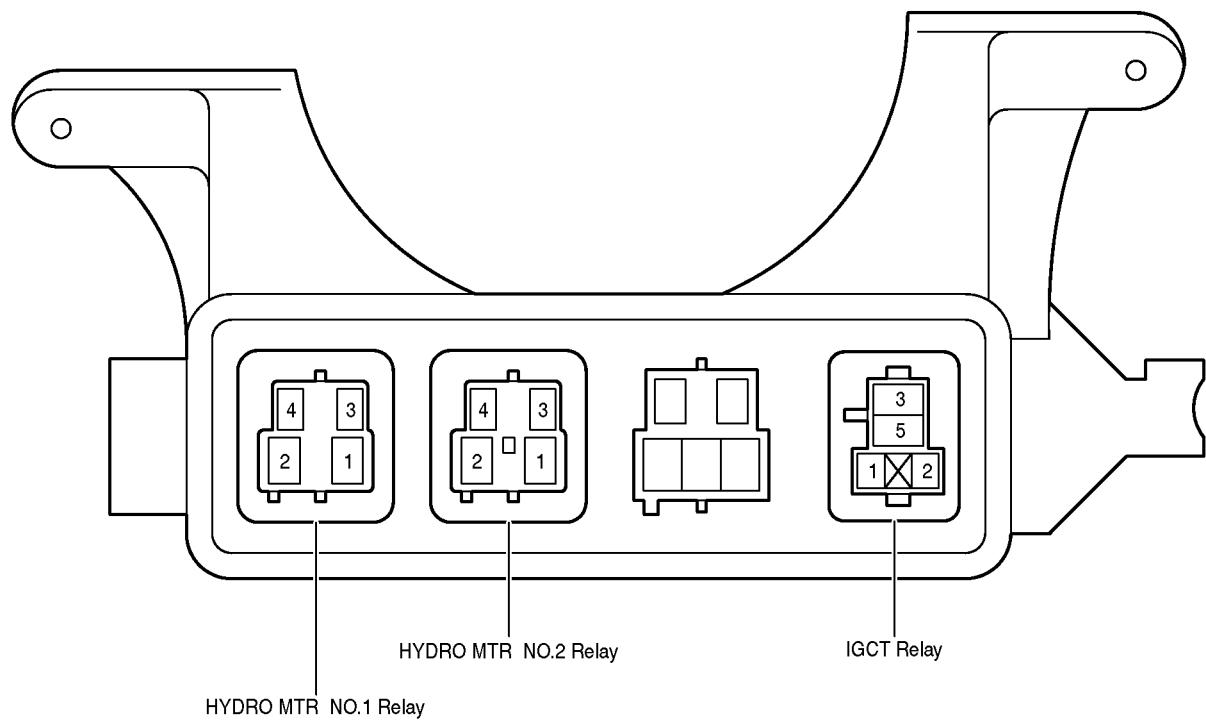
[Body]

F RELAY LOCATIONS

Fusible Link Block No.1

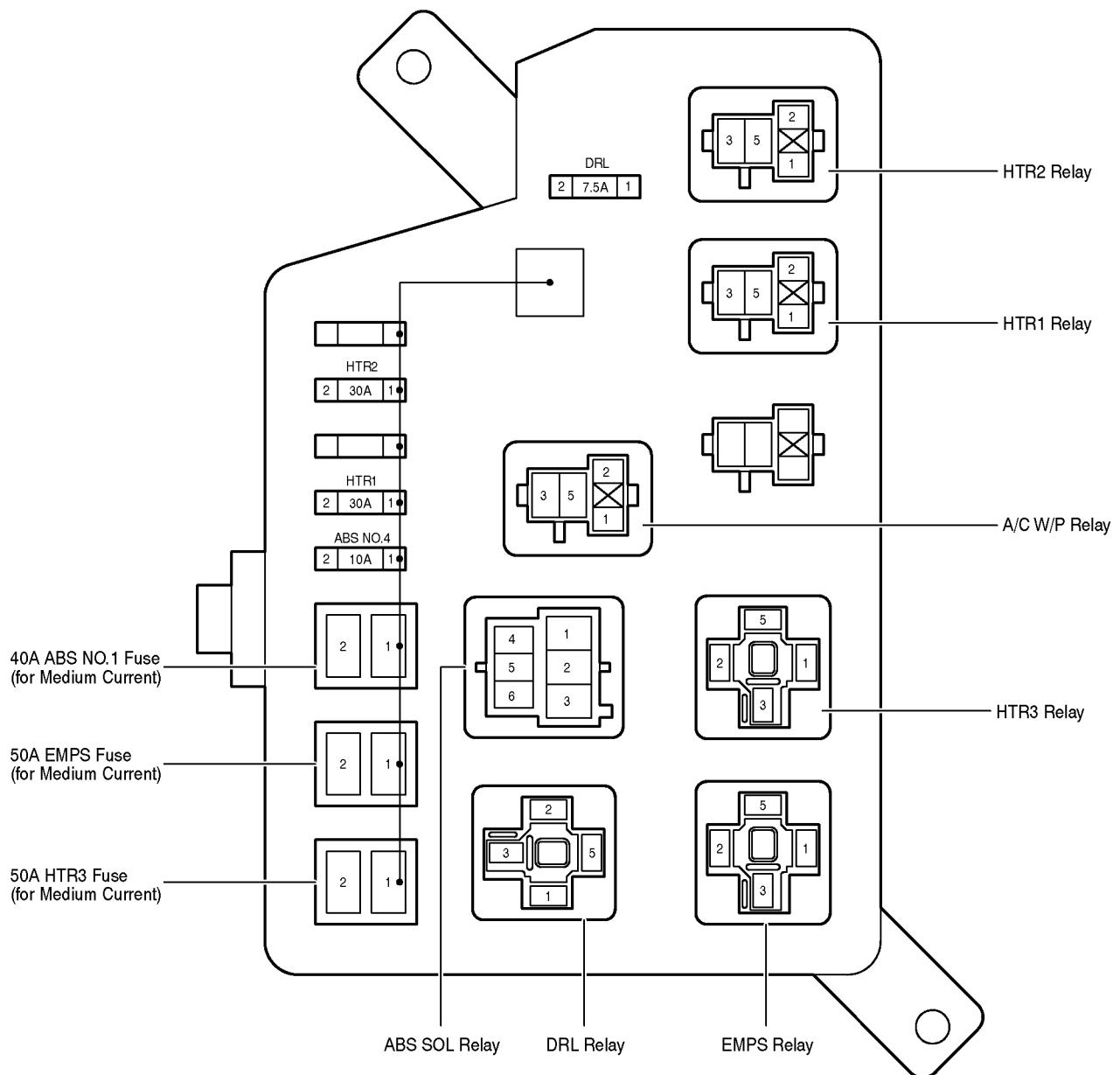
Engine Compartment Left (See Page 20)



Fusible Link Block No.2**Luggage Room Left (See Page 21)****(2) : Engine Room R/B No.2****Right Side of Reserve Tank (See Page 20)**

F RELAY LOCATIONS

③ : Engine Room R/B No.3 | **Engine Compartment Right (See Page 20)**

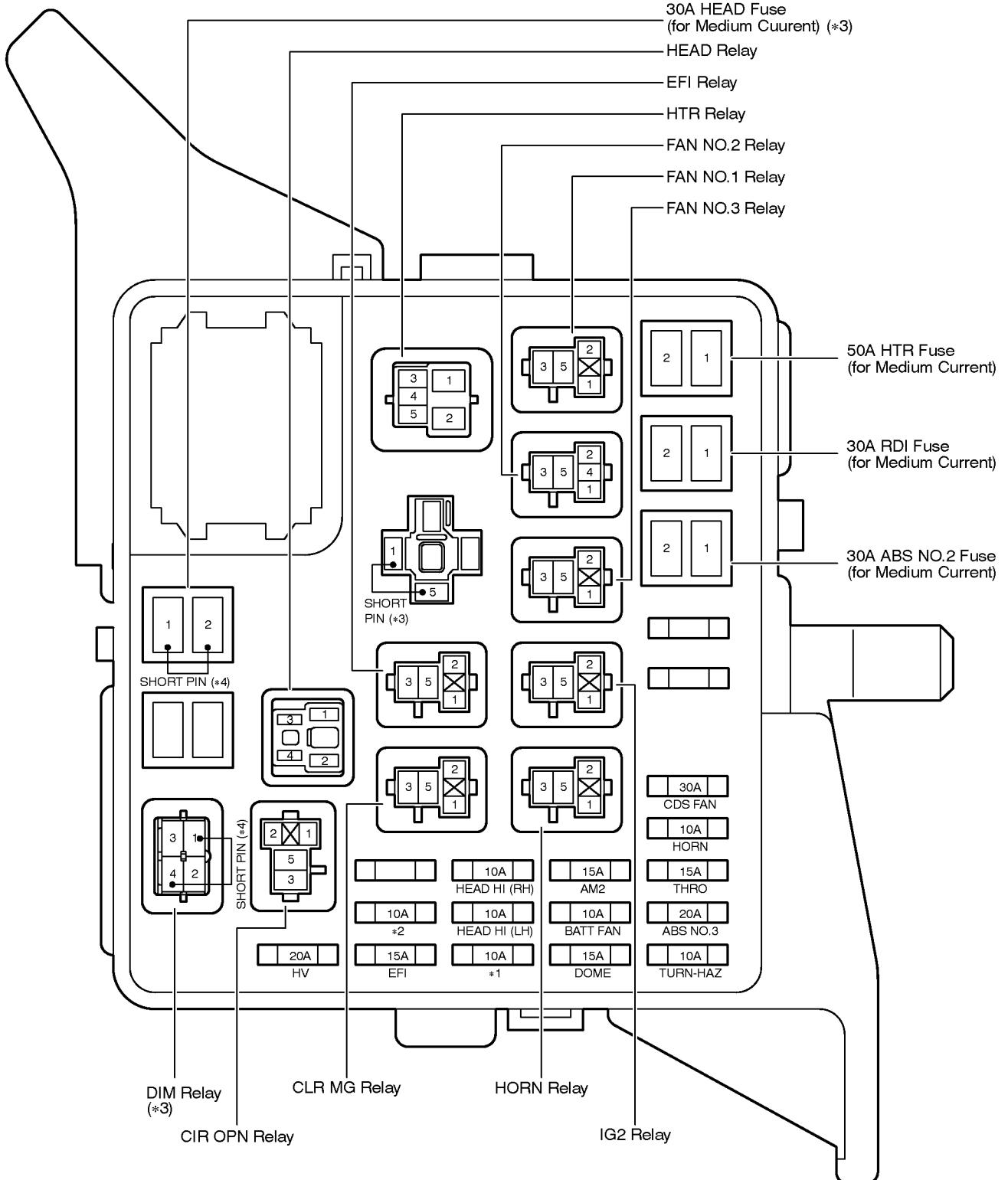


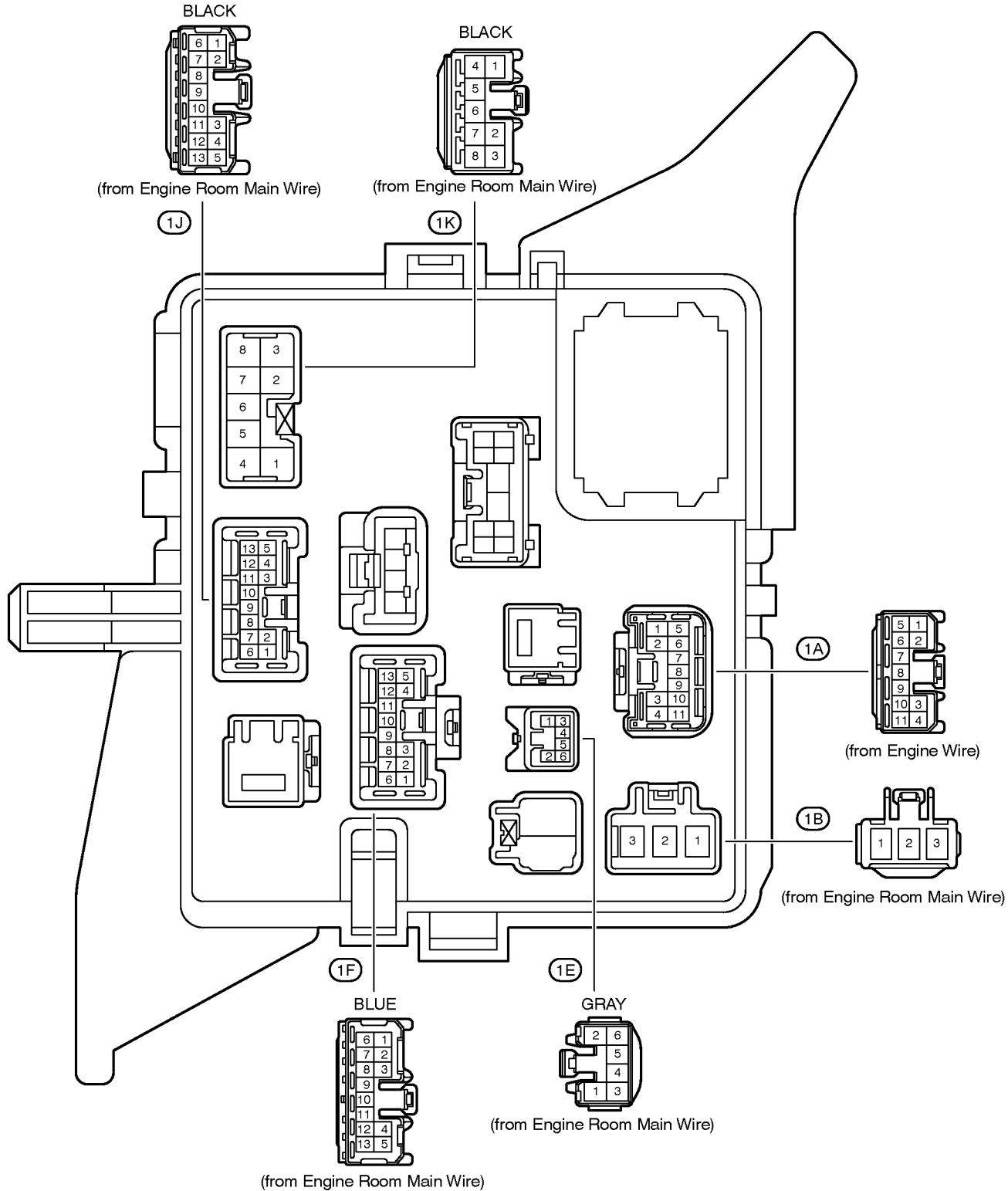
F RELAY LOCATIONS

 : Engine Room J/B

Engine Compartment Left (See Page 20)

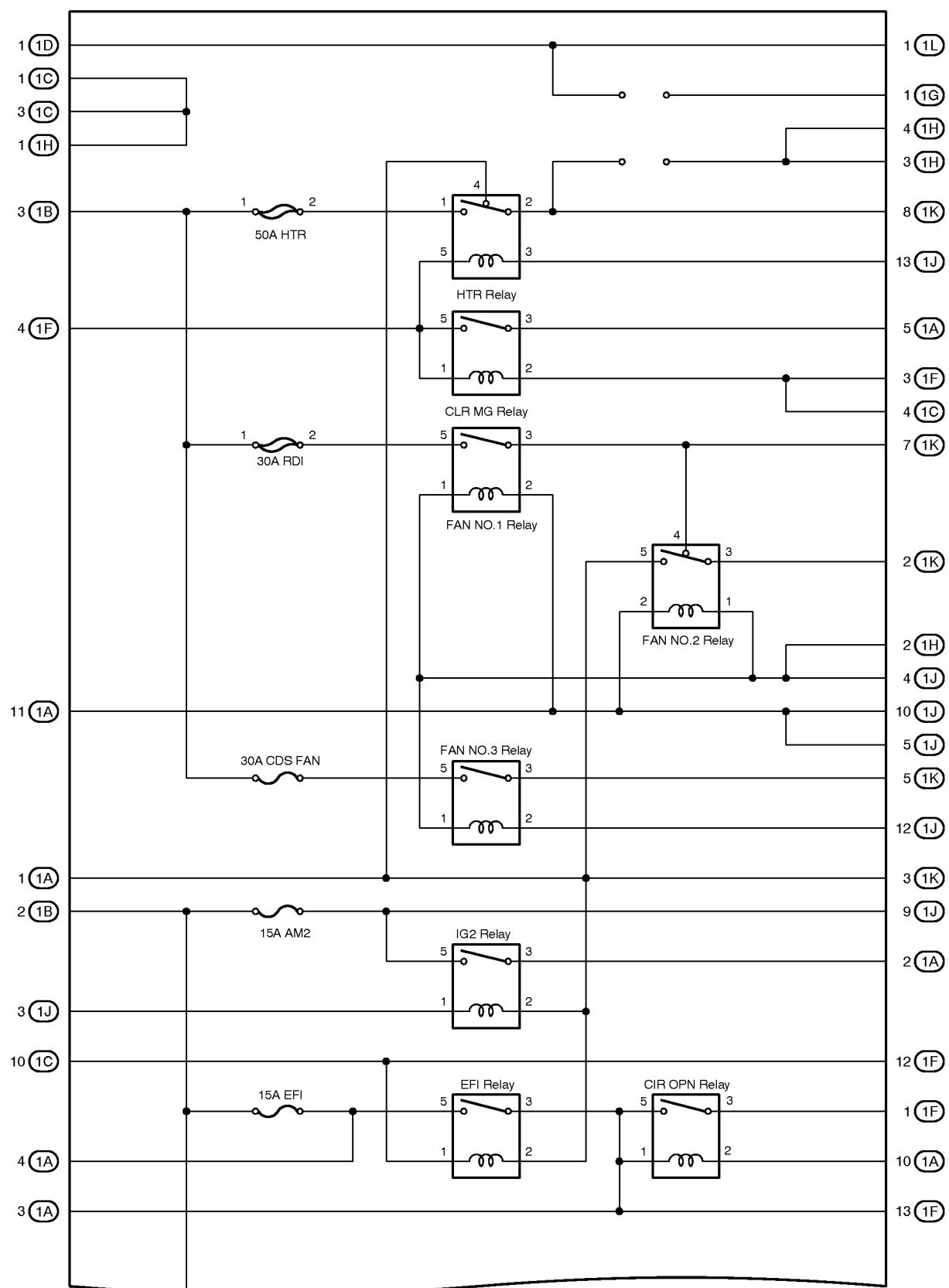
- *1 : HEAD LO (LH) (w/ Daytime Running Light)
HEAD (LH) (w/o Daytime Running Light)
- *2 : HEAD LO (RH) (w/ Daytime Running Light)
HEAD (RH) (w/o Daytime Running Light)
- *3 : w/ Daytime Running Light
- *4 : w/o Daytime Running Light





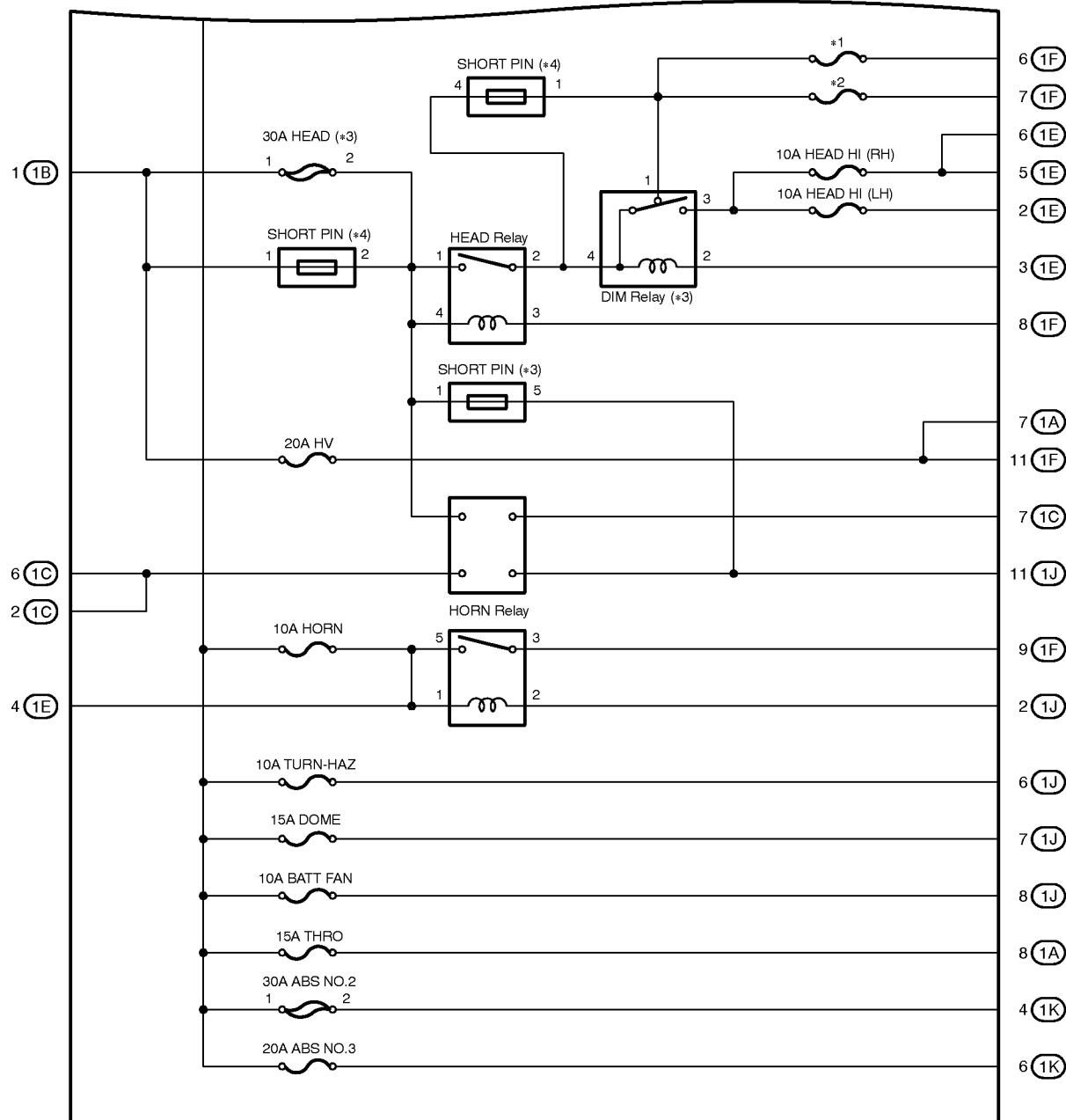
F RELAY LOCATIONS

[Engine Room J/B Inner Circuit]



(Cont. next page)

(Cont'd)



*1 : 10A HEAD LO (LH) (w/ Daytime Running Light)

10A HEAD (LH) (w/o Daytime Running Light)

*2 : 10A HEAD LO (RH) (w/ Daytime Running Light)

10A HEAD (RH) (w/o Daytime Running Light)

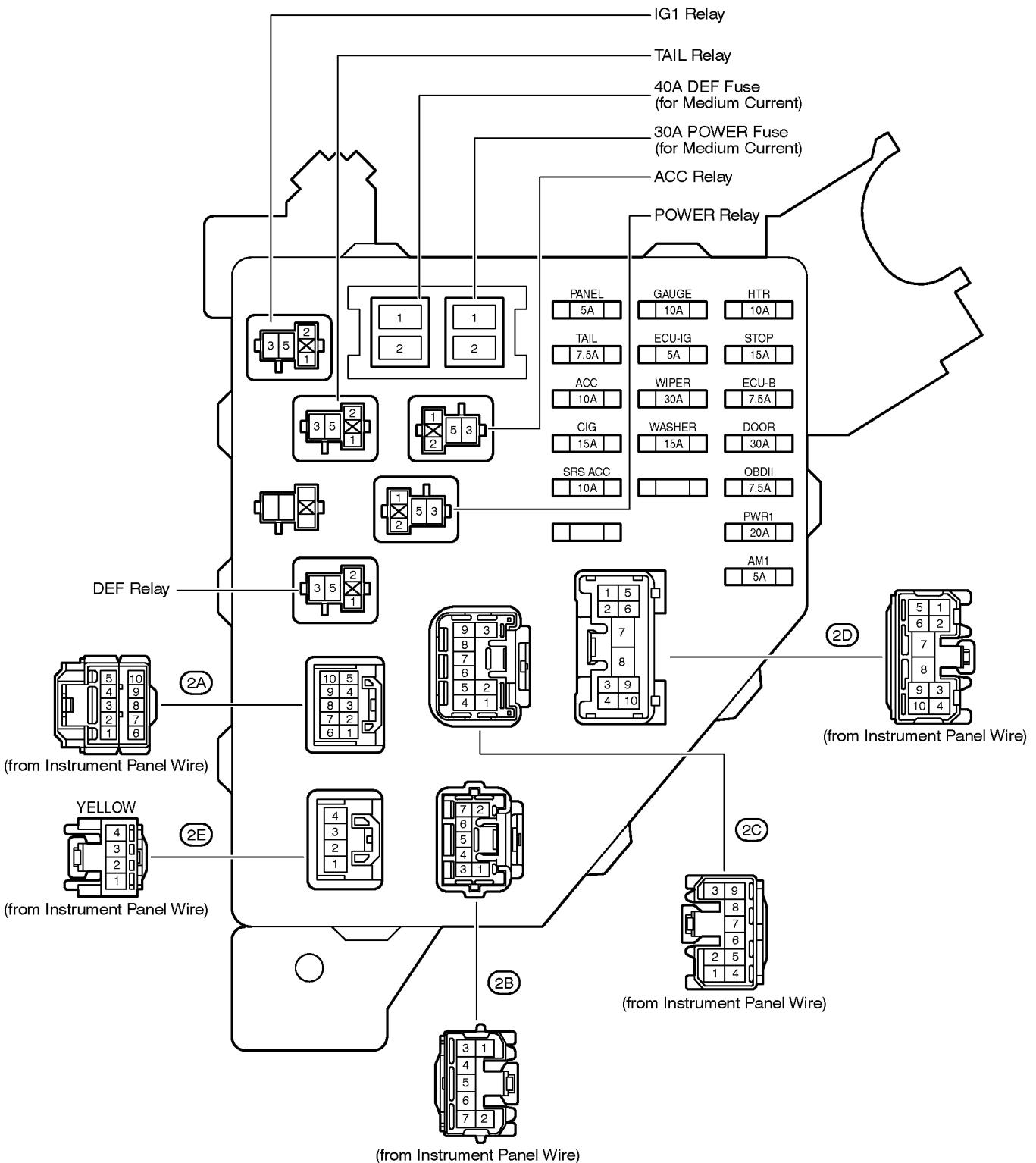
*3 : w/ Daytime Running Light

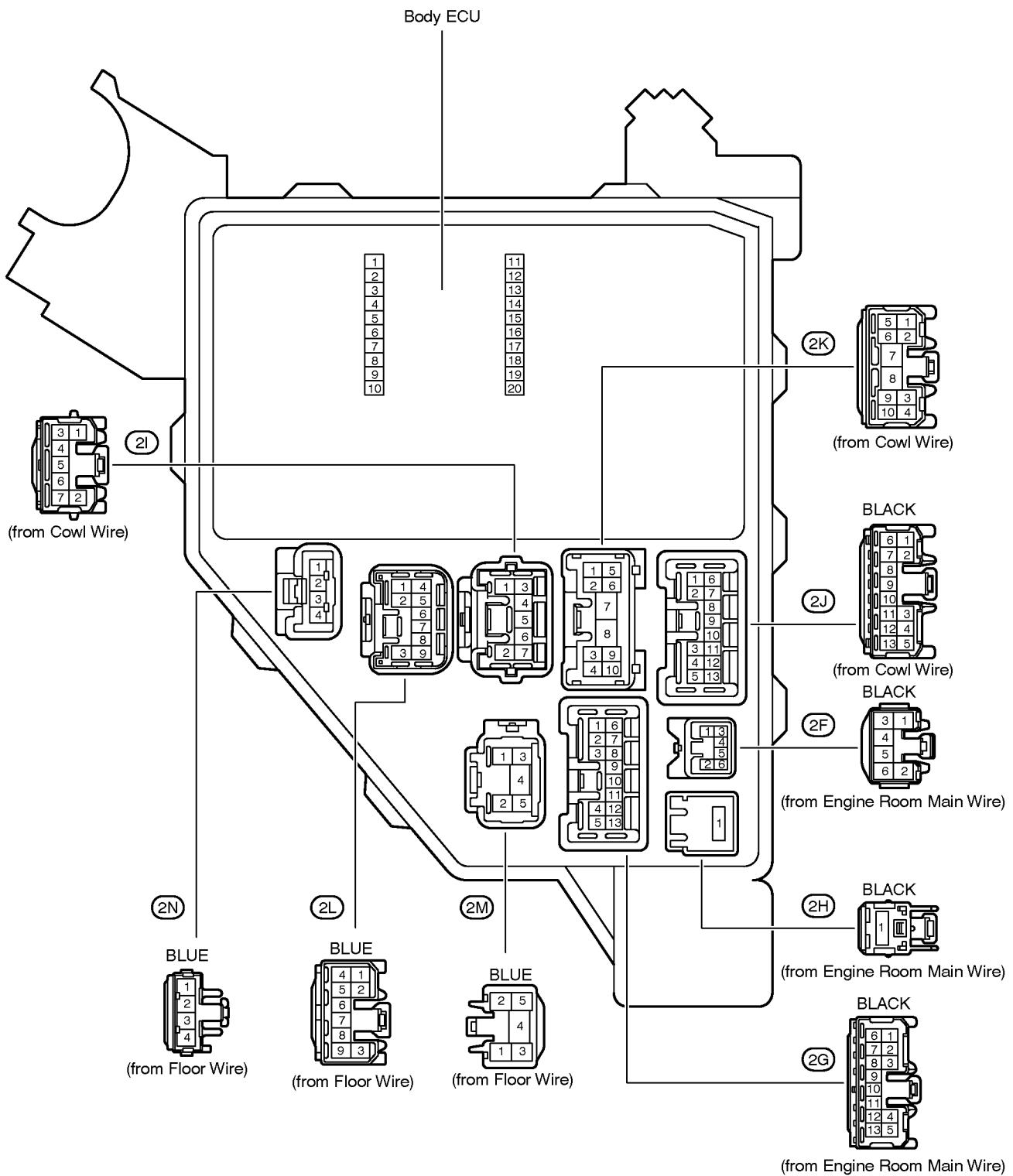
*4 : w/o Daytime Running Light

F RELAY LOCATIONS

 : Instrument Panel J/B

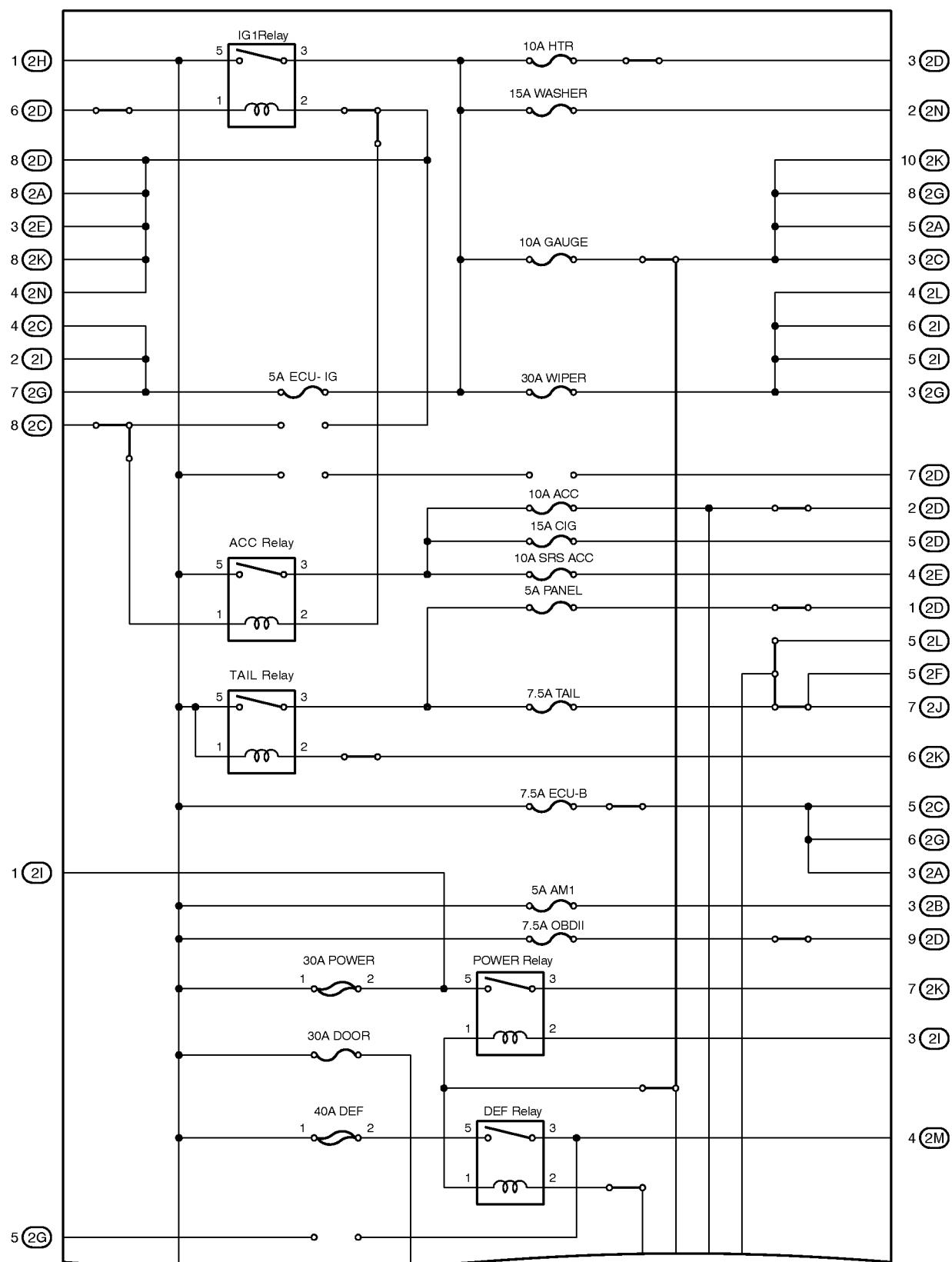
Cowl Side Panel LH (See Page 20)





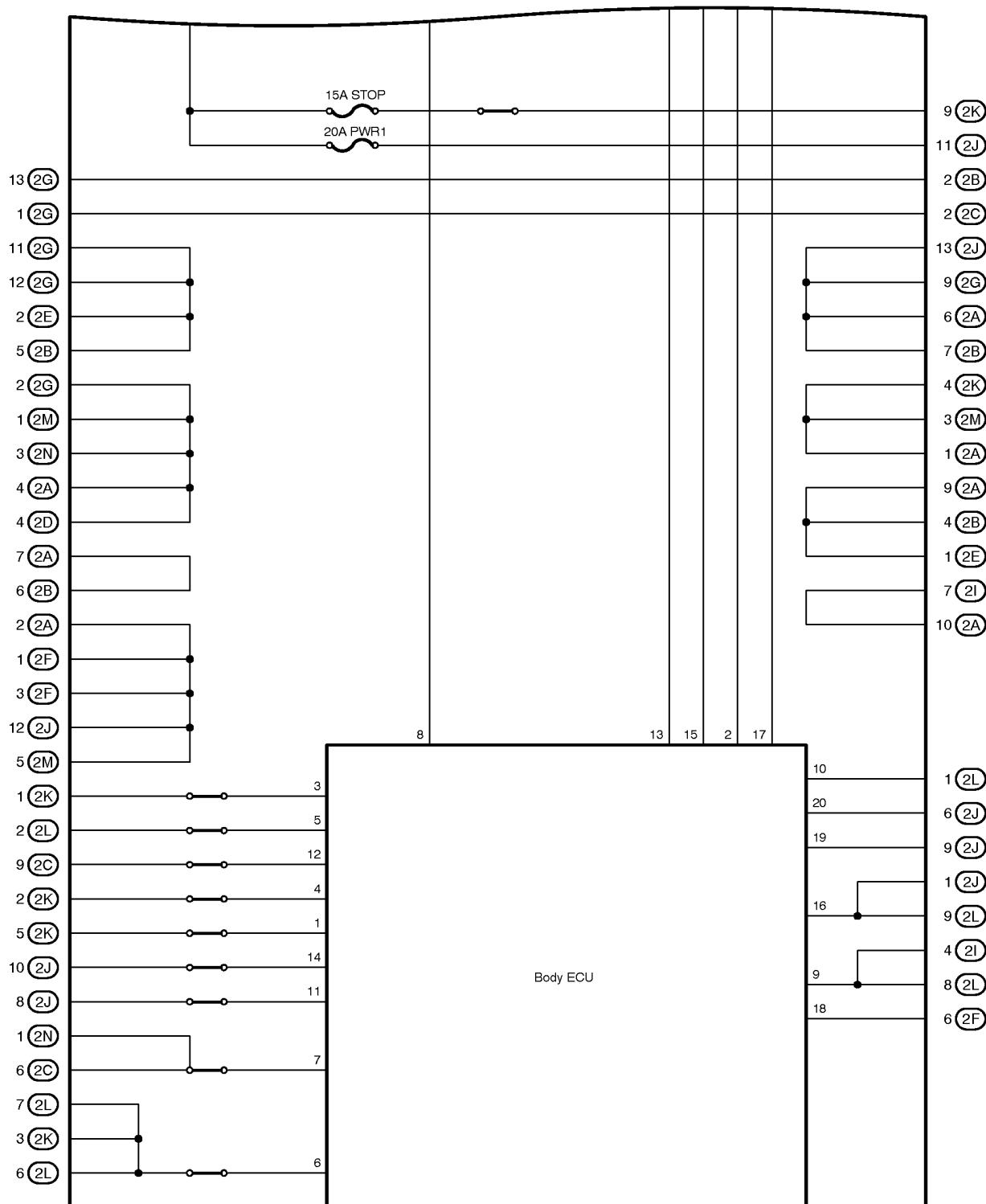
F RELAY LOCATIONS

[Instrument Panel J/B Inner Circuit]



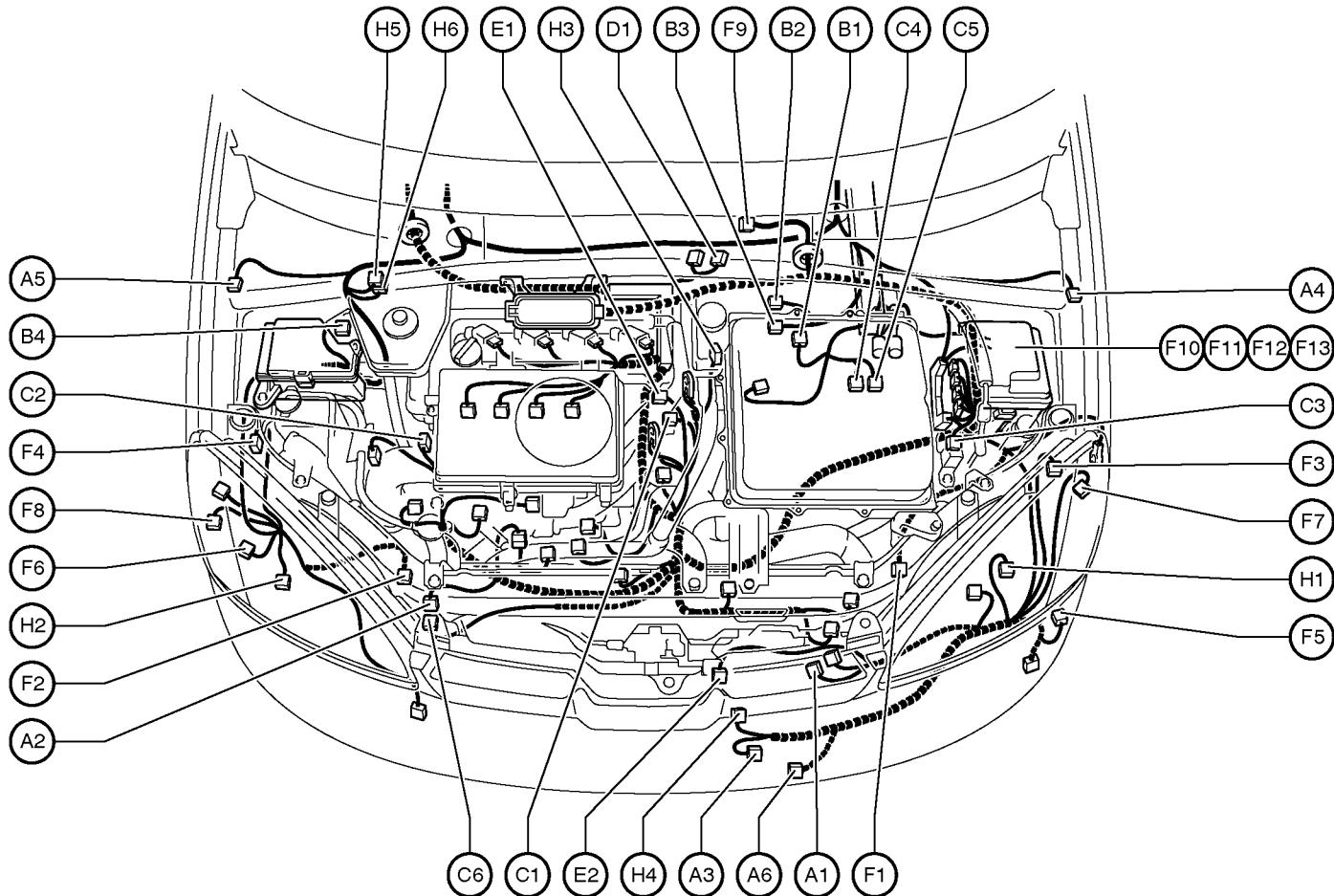
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G ELECTRICAL WIRING ROUTING

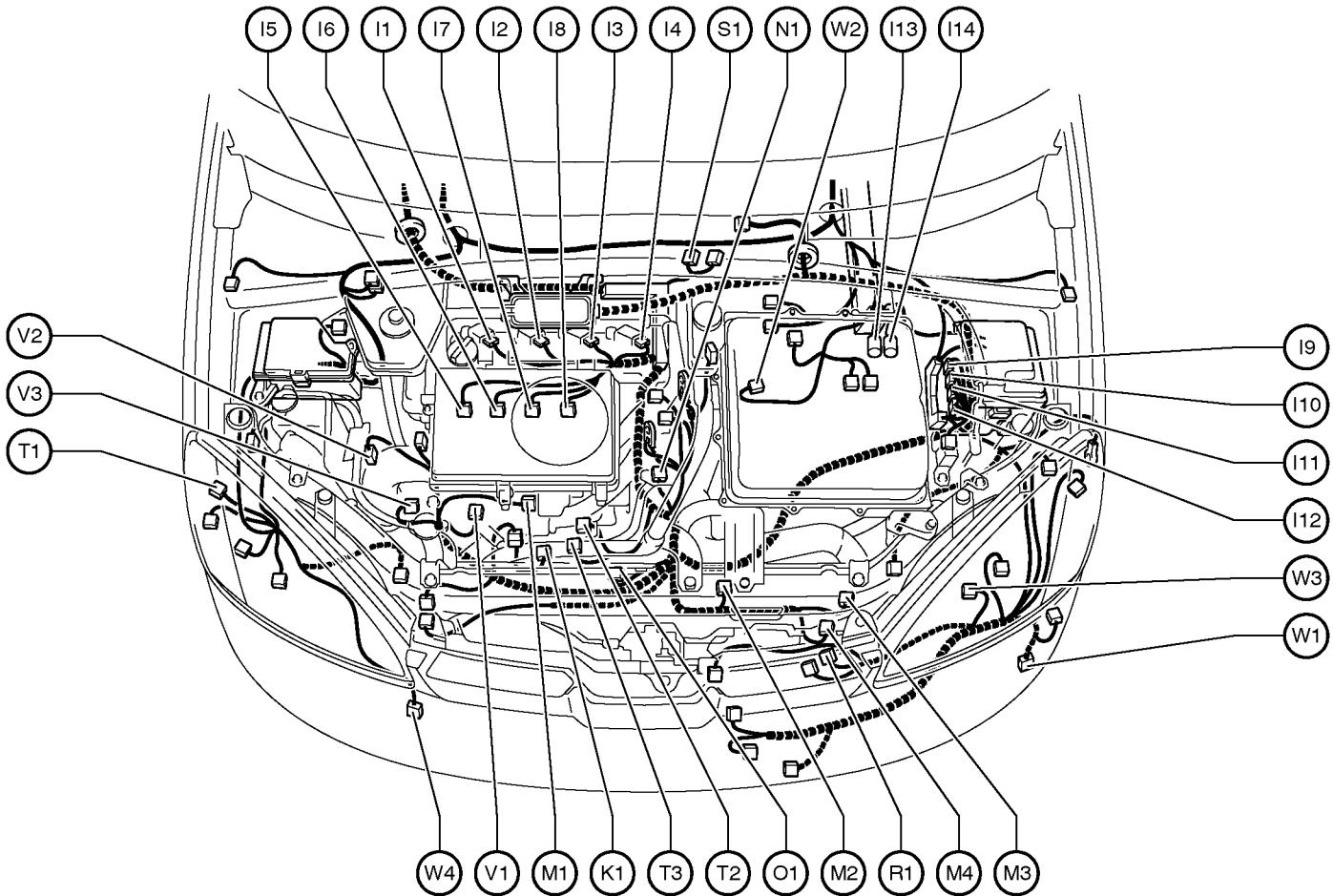
Position of Parts in Engine Compartment



- A 1 A/C Condenser Fan Motor
A 2 A/C Magnetic Clutch and Lock Sensor
A 3 A/C Triple Pressure SW
(A/C Dual and Single Pressure SW)
A 4 ABS Speed Sensor Front LH
A 5 ABS Speed Sensor Front RH
A 6 Ambient Temp. Sensor
- B 1 Brake Actuator
B 2 Brake Actuator
B 3 Brake Actuator
B 4 Brake Fluid Level Warning SW
- C 1 Camshaft Position Sensor
C 2 Camshaft Timing Oil Control Valve
C 3 Circuit Breaker Sensor
C 4 Converter
C 5 Converter
C 6 Crankshaft Position Sensor
- D 1 DC Motor
- E 1 Engine Coolant Temp. Sensor
E 2 Engine Hood Courtesy SW

- F 1 Front Airbag Sensor LH
F 2 Front Airbag Sensor RH
F 3 Front Parking Light LH
F 4 Front Parking Light RH
F 5 Front Side Marker Light LH
F 6 Front Side Marker Light RH
F 7 Front Turn Signal Light LH
F 8 Front Turn Signal Light RH
F 9 Front Wiper Motor
F 10 Fusible Link Block No.1
F 11 Fusible Link Block No.1
F 12 Fusible Link Block No.1
F 13 Fusible Link Block No.1
- H 1 Headlight LH
H 2 Headlight RH
H 3 Heated Oxygen Sensor (Bank 1 Sensor1)
H 4 Horn
H 5 Hydraulic Booster
H 6 Hydraulic Booster

Position of Parts in Engine Compartment



I 1 Ignition Coil and Igniter No.1
 I 2 Ignition Coil and Igniter No.2
 I 3 Ignition Coil and Igniter No.3
 I 4 Ignition Coil and Igniter No.4
 I 5 Injector No.1
 I 6 Injector No.2
 I 7 Injector No.3
 I 8 Injector No.4
 I 9 Inverter
 I 10 Inverter
 I 11 Inverter
 I 12 Inverter
 I 13 Inverter
 I 14 Inverter

K 1 Knock Sensor

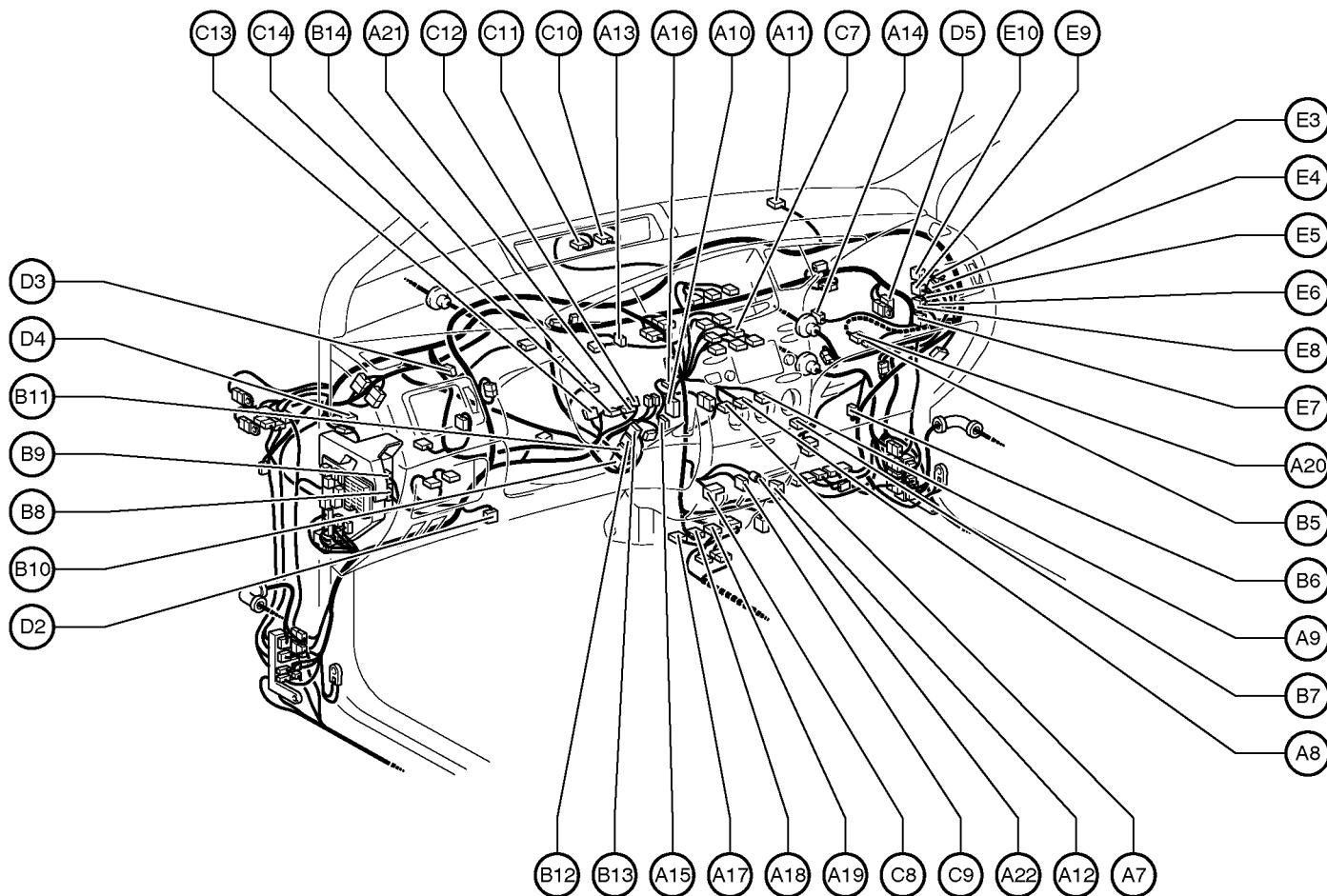
M 1 Mass Air Flow Meter
 M 2 Motor Generator No.1
 M 3 Motor Generator No.2
 M 4 Motor Generator No.2

N 1 Noise Filter (Ignition)
 O 1 Oil Pressure SW
 R 1 Radiator Fan Motor
 S 1 Steering Shaft Torque Sensor
 T 1 Theft Deterrent Horn
 T 2 Throttle Control Motor
 T 3 Throttle Position Sensor
 V 1 Vacuum Sensor (HC Adsorber and Catalyst System)
 V 2 VSV (EVAP)
 V 3 VSV (HC Adsorber and Catalyst System)

W 1 Washer Motor
 W 2 Water Pump Motor (A/C)
 W 3 Water Pump Motor (Inverter)
 W 4 Water Temp. SW

G ELECTRICAL WIRING ROUTING

Position of Parts in Instrument Panel



A 7 A/C Amplifier
 A 8 A/C Amplifier
 A 9 A/C Amplifier
 A10 A/C Room Temp. Sensor
 A11 A/C Solar Sensor
 A12 A/C Thermistor
 A13 Accel Position Sensor
 A14 Air Inlet Control Servo Motor
 A15 Air Mix Control Servo Motor
 A16 Air Vent Mode Control Servo Motor
 A17 Airbag Sensor Assembly
 A18 Airbag Sensor Assembly
 A19 Airbag Sensor Assembly
 A20 Airbag Squib (Front Passenger Airbag Assembly)
 A21 Airbag Squib (Steering Wheel Pad)
 A22 Ashtray Illumination

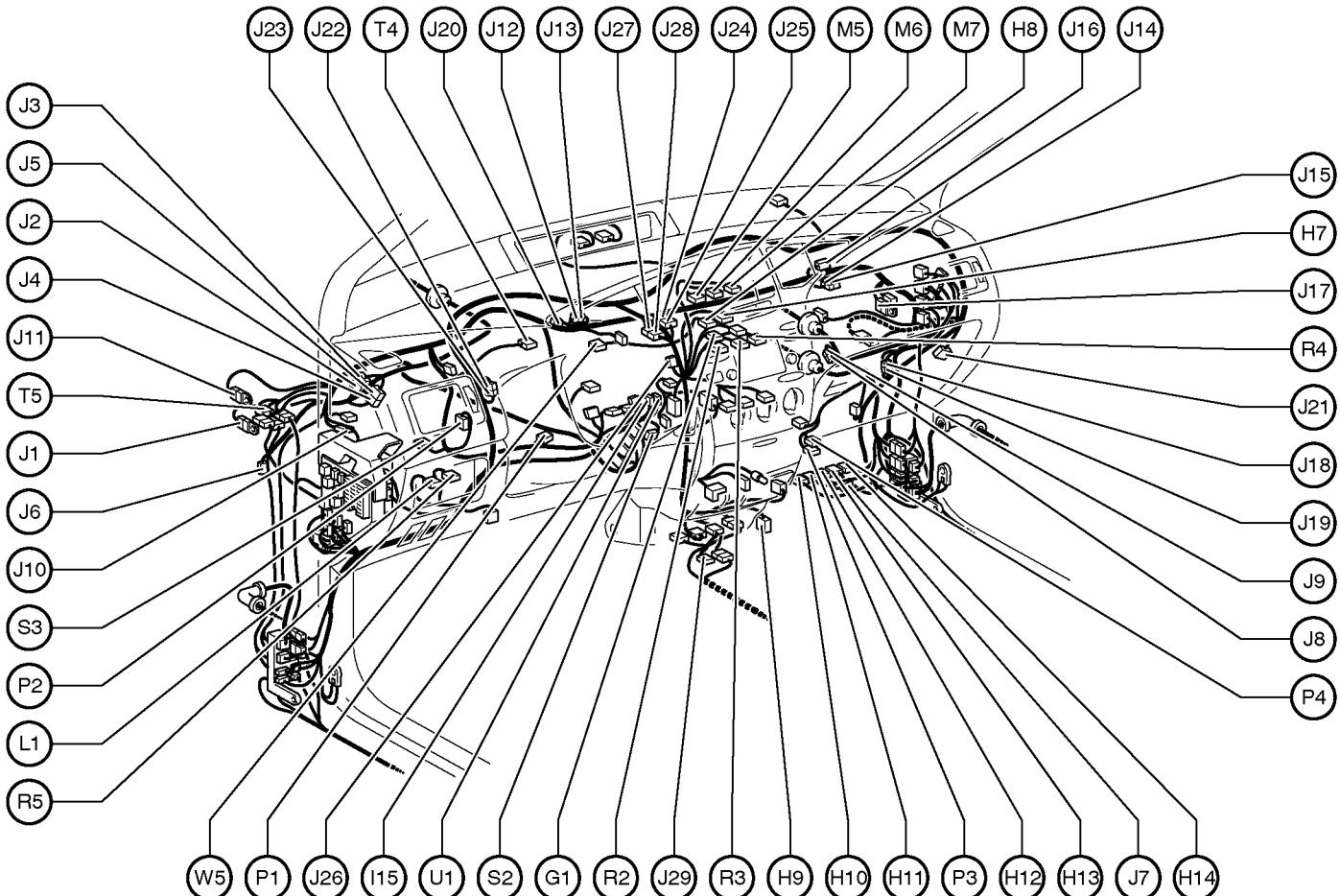
 B 5 Back-Up Light Relay
 B 6 Blower Motor
 B 7 Blower Motor Linear Controller
 B 8 Body ECU
 B 9 Body ECU
 B10 Brake ECU
 B11 Brake ECU
 B12 Brake ECU
 B13 Brake ECU
 B14 Brake Warning Buzzer

C 7 Center Cluster SW
 C 8 Cigarette Lighter
 C 9 Cigarette Lighter Illumination
 C10 Combination Meter
 C11 Combination Meter
 C12 Combination SW
 C13 Combination SW
 C14 Combination SW

 D 2 Data Link Connector 3
 D 3 Daytime Running Light Relay
 D 4 Diode (Door Courtesy)
 D 5 Diode (Daytime Running Light)

 E 3 EMPS ECU
 E 4 EMPS ECU
 E 5 EMPS ECU
 E 6 EMPS ECU
 E 7 Engine Control Module
 E 8 Engine Control Module
 E 9 Engine Control Module
 E10 Engine Control Module

Position of Parts in Instrument Panel



G 1 Gateway ECU

H 7 Hazard Warning SW
H 8 Hazard Warning SW
H 9 Heated Oxygen Sensor (Bank 1 Sensor 2)
H10 Hybrid Vehicle Control ECU
H11 Hybrid Vehicle Control ECU
H12 Hybrid Vehicle Control ECU
H13 Hybrid Vehicle Control ECU
H14 Hybrid Vehicle Control ECU

I 15 Ignition SW

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
J 9 Junction Connector
J 10 Junction Connector
J 11 Junction Connector
J 12 Junction Connector
J 13 Junction Connector
J 14 Junction Connector
J 15 Junction Connector
J 16 Junction Connector
J 17 Junction Connector
J 18 Junction Connector
J 19 Junction Connector
J 20 Junction Connector
J 21 Junction Connector

J 22 Junction Connector

J 23 Junction Connector

J 24 Junction Connector

J 25 Junction Connector

J 26 Junction Connector

J 27 Junction Connector

J 28 Junction Connector

J 29 Junction Connector

L 1 Light Control Rheostat

M 5 Multi Display

M 6 Multi Display

M 7 Multi Display

P 1 Park/Neutral Position SW

P 2 Parking Brake SW

P 3 PTC Heater

P 4 PTC Heater

R 2 Radio and Player

R 3 Radio and Player

R 4 Radio and Player

R 5 Remote Control Mirror SW

S 2 Shift Lock ECU

S 3 Stop Light SW

T 4 Transponder Key Computer

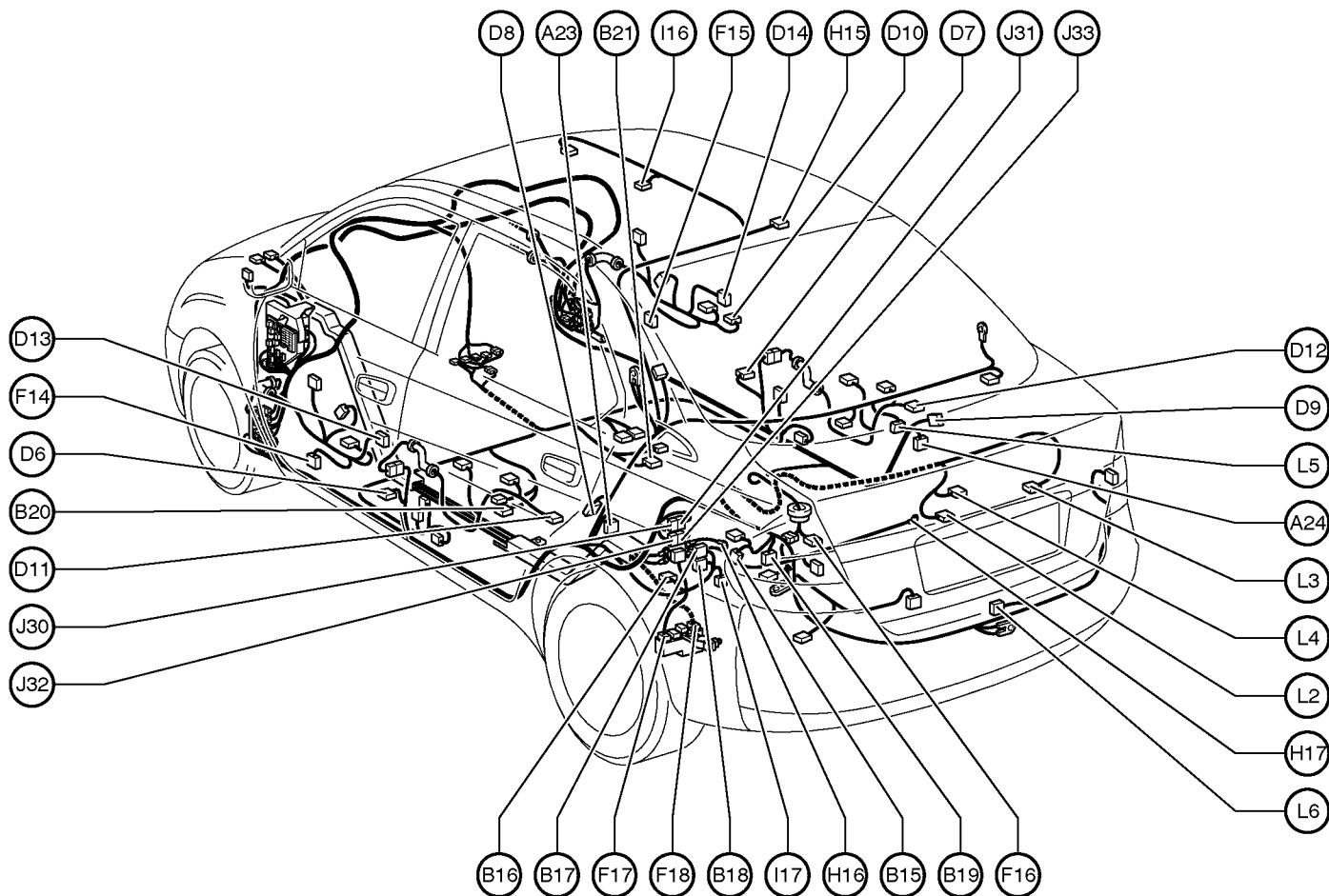
T 5 Turn Signal Flasher Relay

U 1 Unlock Warning SW and Key Interlock Solenoid

W 5 Wireless Door Control Receiver

G ELECTRICAL WIRING ROUTING

Position of Parts in Body



A23 ABS Speed Sensor Rear LH
A24 ABS Speed Sensor Rear RH

B15 Battery Blower Motor
B16 Battery Blower Motor Controller
B17 Battery ECU
B18 Battery ECU
B19 Battery Fan Relay
B20 Buckle SW and Tension Reducer LH
B21 Buckle SW RH and
Seat Belt Warning Occupant Detection Sensor

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

F14 Front Door Speaker LH
F15 Front Door Speaker RH
F16 Fuel Pump and Fuel Sender
F17 Fusible Link Block No.2
F18 Fusible Link Block No.2

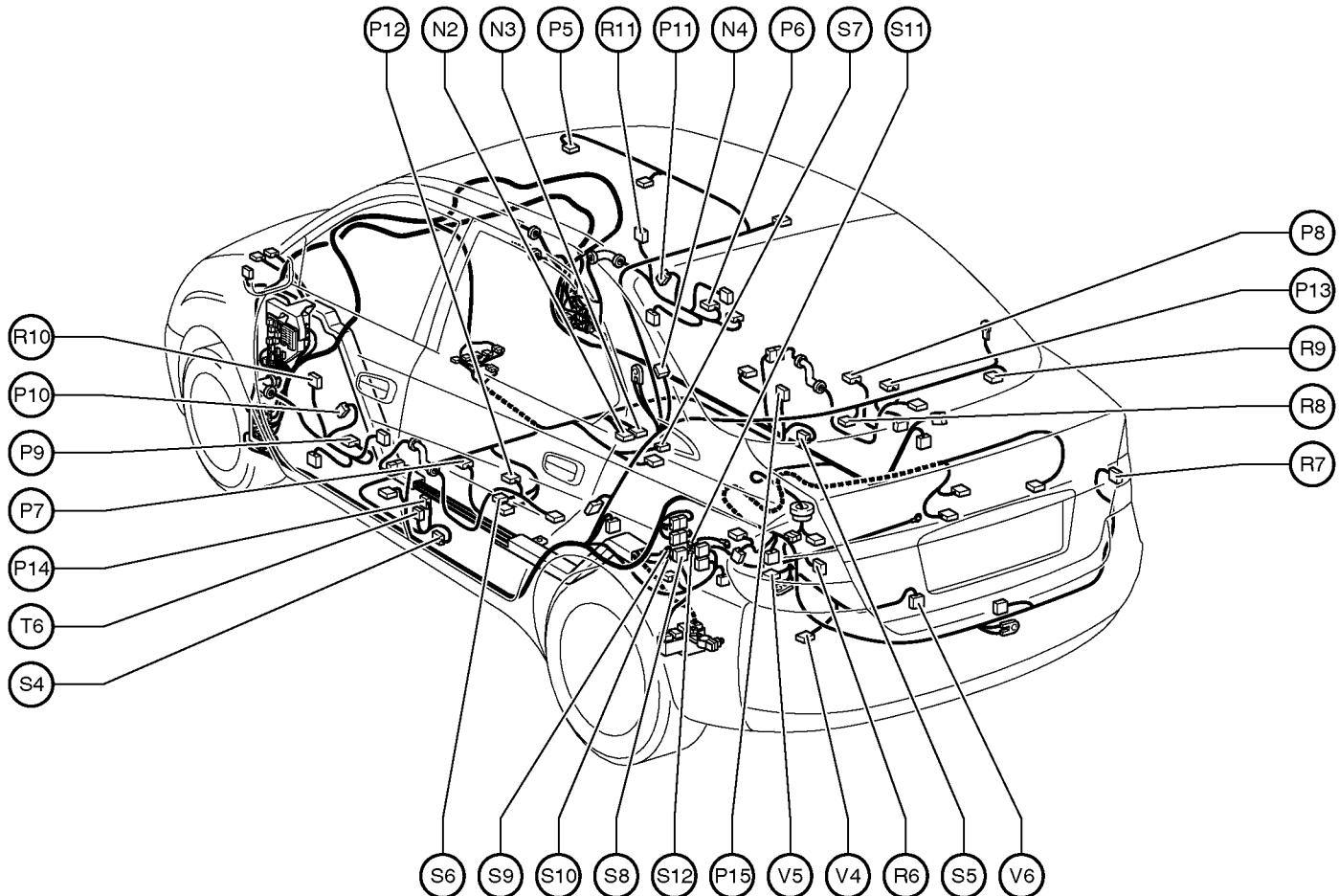
H15 High Mounted Stop Light
H16 Hybrid Vehicle Battery
H17 Hybrid Vehicle Battery

I 16 Interior Light
I 17 Interlock SW

J 30 Junction Connector
J 31 Junction Connector
J 32 Junction Connector
J 33 Junction Connector

L 2 License Plate Light LH
L 3 License Plate Light RH
L 4 Luggage Compartment Door Unlock SW
L 5 Luggage Compartment Light
L 6 Luggage Compartment Light SW

Position of Parts in Body



N 2 Navigation ECU
 N 3 Navigation ECU
 N 4 Noise Filter (Rear Window Defogger)

P 5 Personal Light
 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 Master SW
 P10 Power Window Motor Front LH
 P11 Power Window Motor Front RH
 P12 Power Window Motor Rear LH
 P13 Power Window Motor Rear RH
 P14 Pretensioner LH
 P15 Pretensioner RH

R 6 Rear Combination Light LH
 R 7 Rear Combination Light RH
 R 8 Rear Speaker LH
 R 9 Rear Speaker RH
 R10 Remote Control Mirror LH
 R11 Remote Control Mirror RH

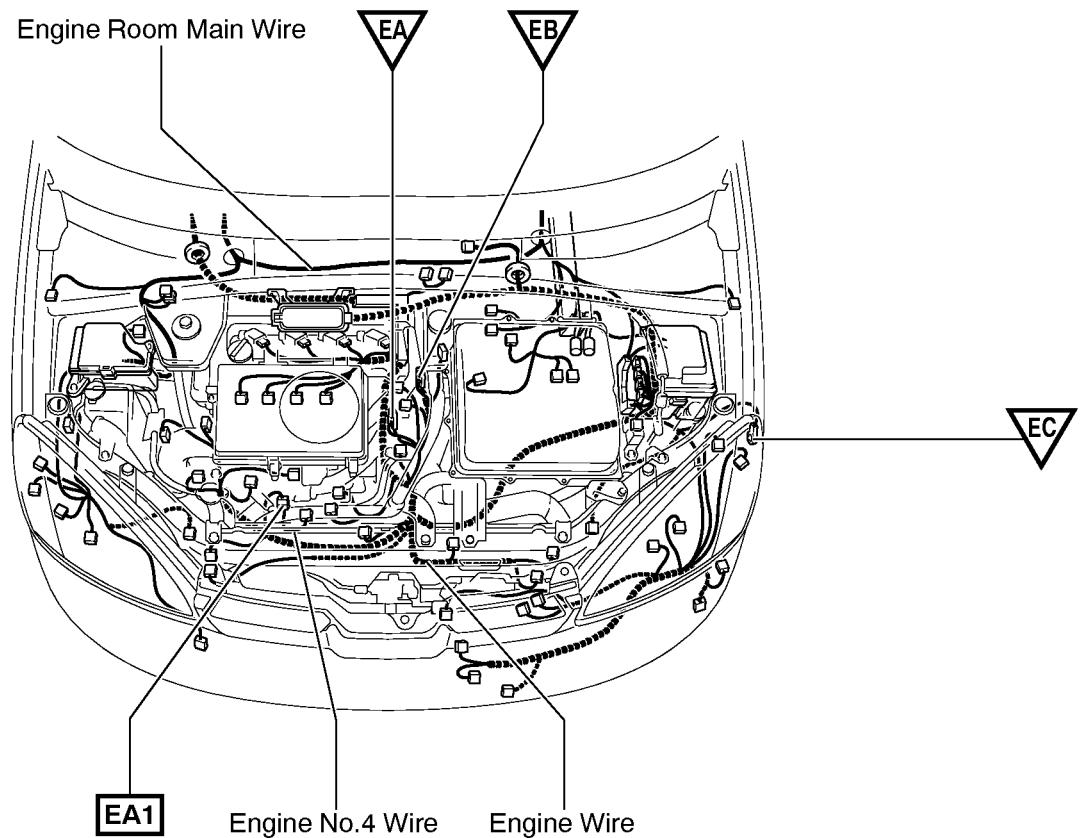
S 4 Side Airbag Sensor LH
 S 5 Side Airbag Sensor RH
 S 6 Side Airbag Squib LH
 S 7 Side Airbag Squib RH
 S 8 System Main Relay
 S 9 System Main Relay
 S10 System Main Relay
 S11 System Main Relay
 S12 System Main Relay

T 6 Tension Reducer Solenoid
 V 4 Vapor Pressure Sensor
 V 5 VSV (Canister Closed Valve)
 V 6 VSV (Purge Flow Switching Valve)

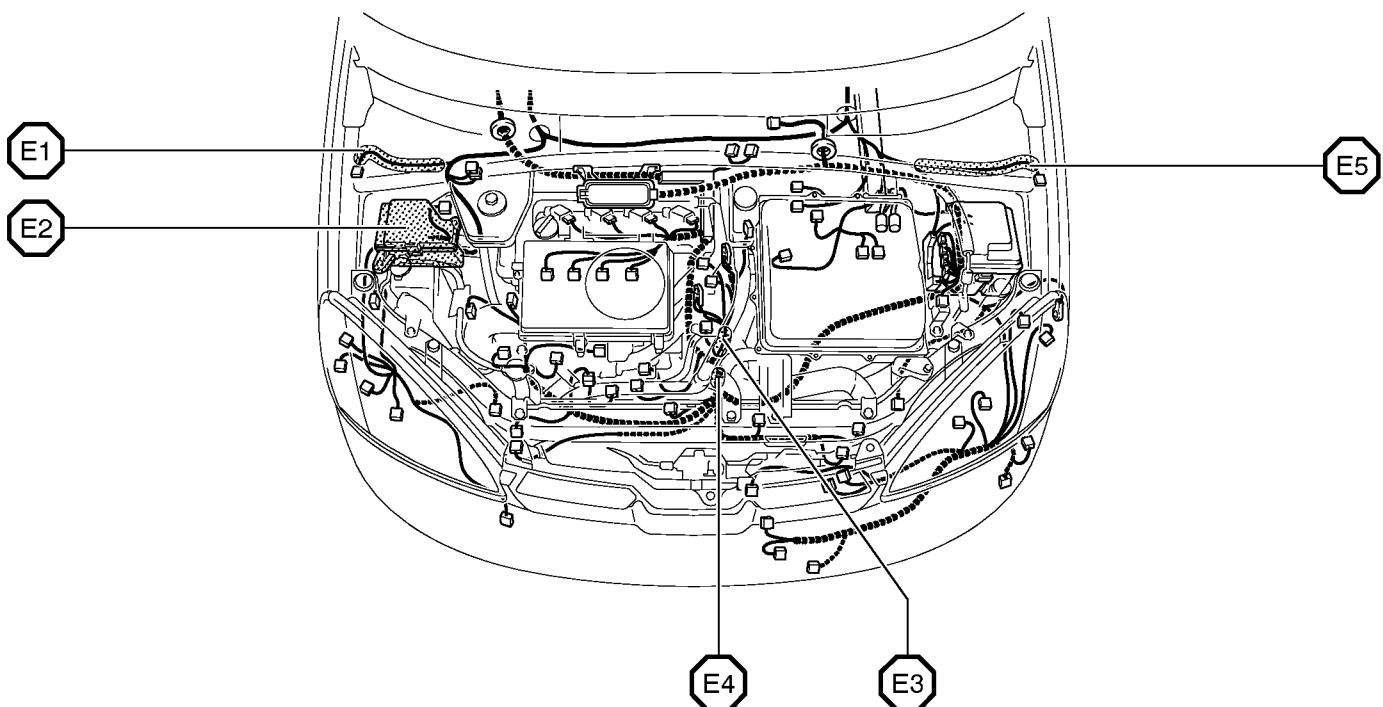
G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

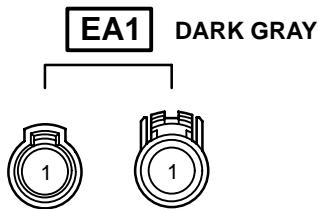
▽ : Location of Ground Points



○ : Location of Splice Points



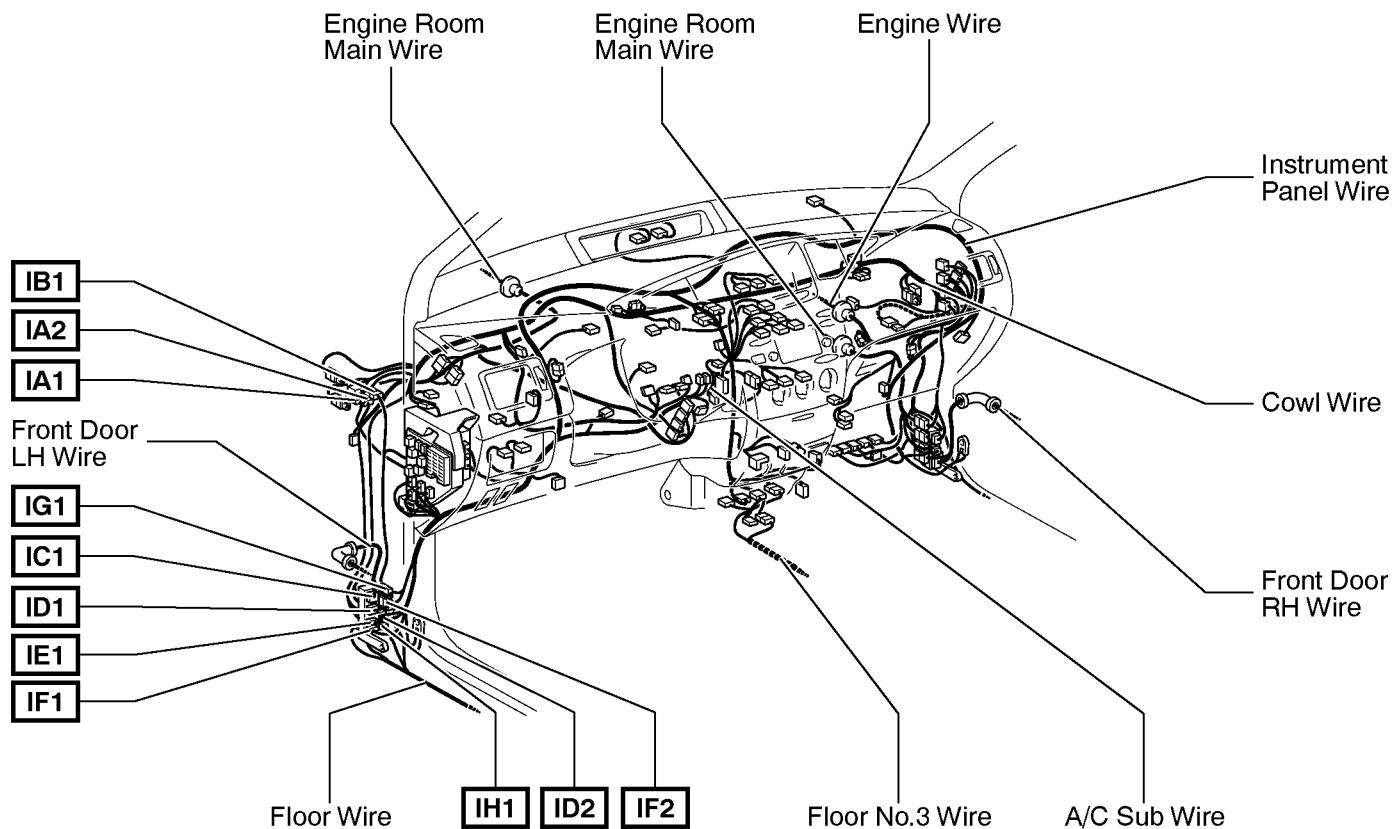
Connector Joining Wire Harness and Wire Harness



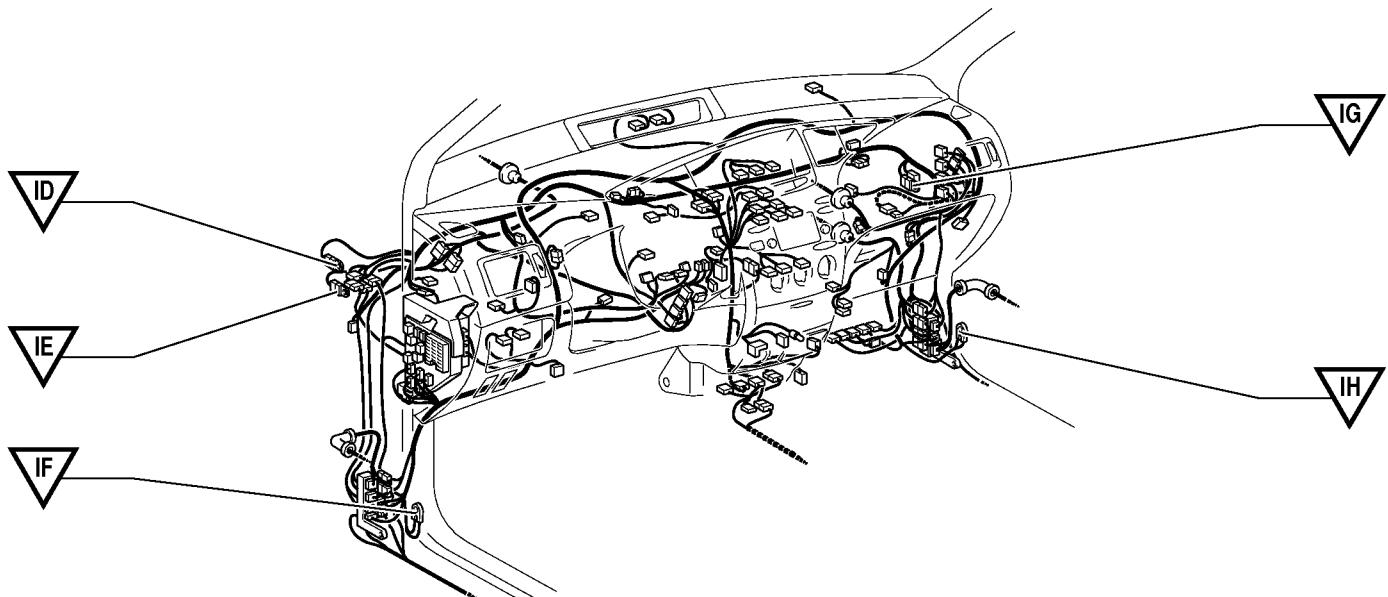
| | |
|------|--|
| Code | Joining Wire Harness and Wire Harness (Connector Location) |
| EA1 | Engine Wire and Engine No.4 Wire (Near the Radiator Fan) |

G ELECTRICAL WIRING ROUTING

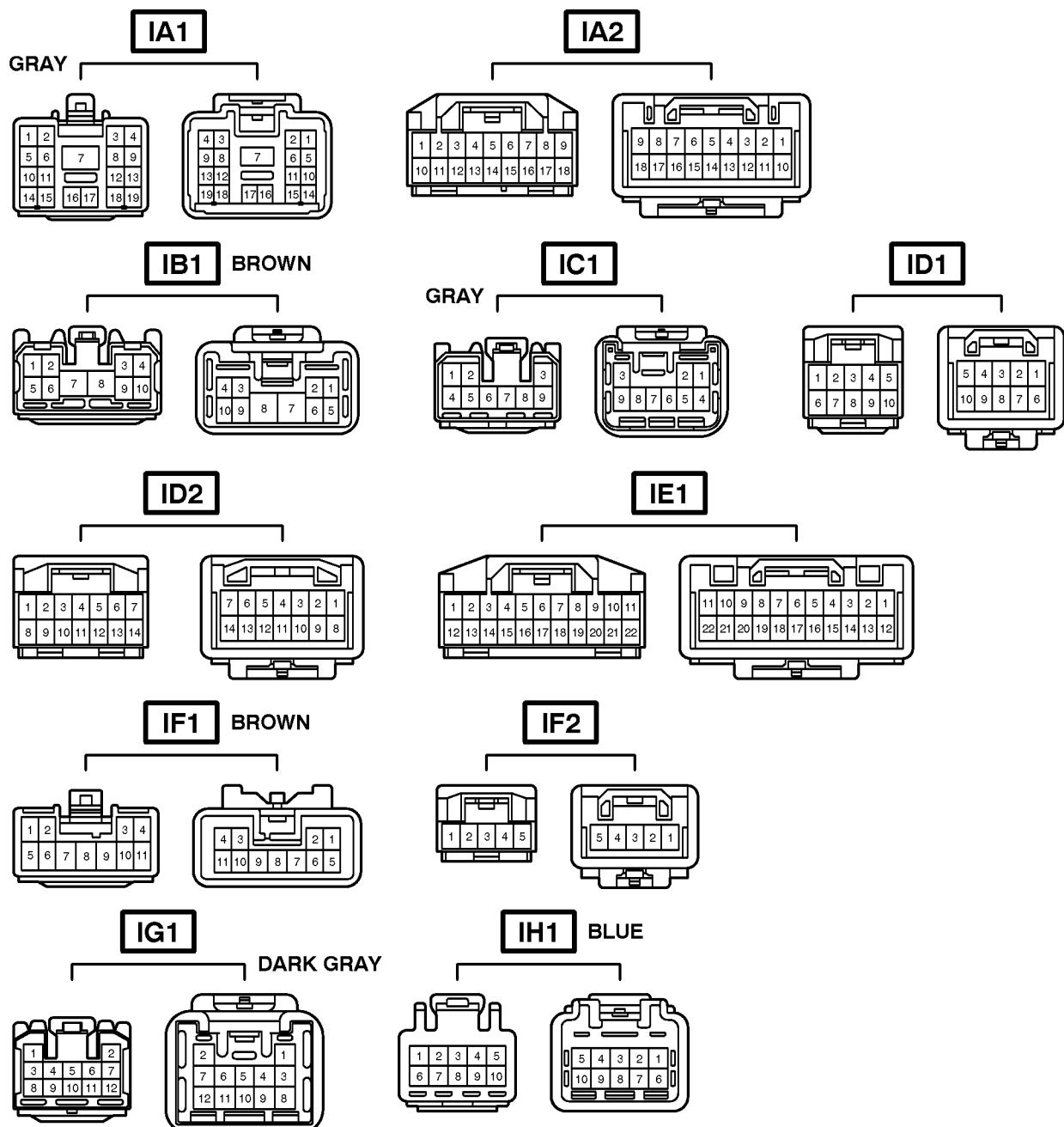
□ : Location of Connector Joining Wire Harness and Wire Harness



▽ : Location of Ground Points



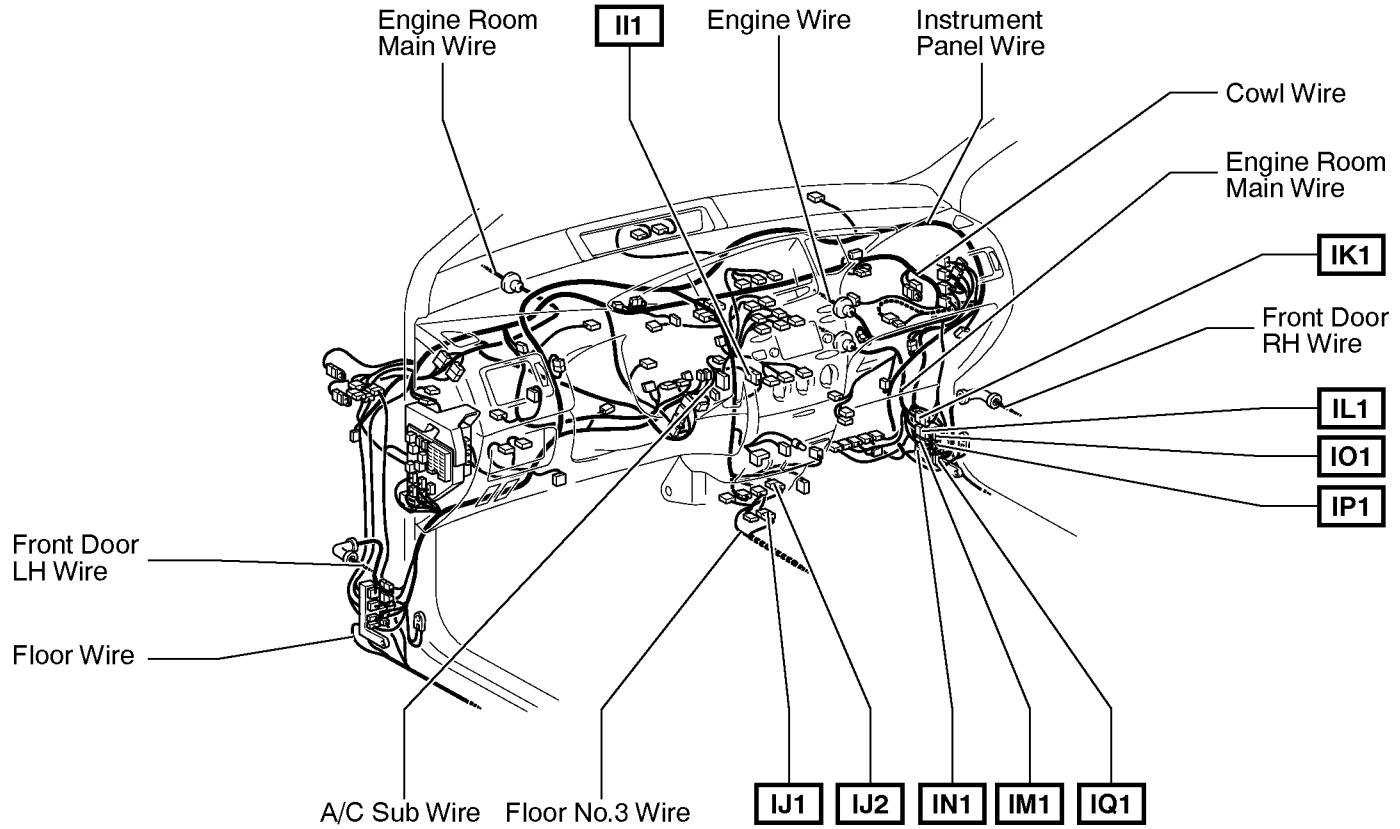
Connector Joining Wire Harness and Wire Harness



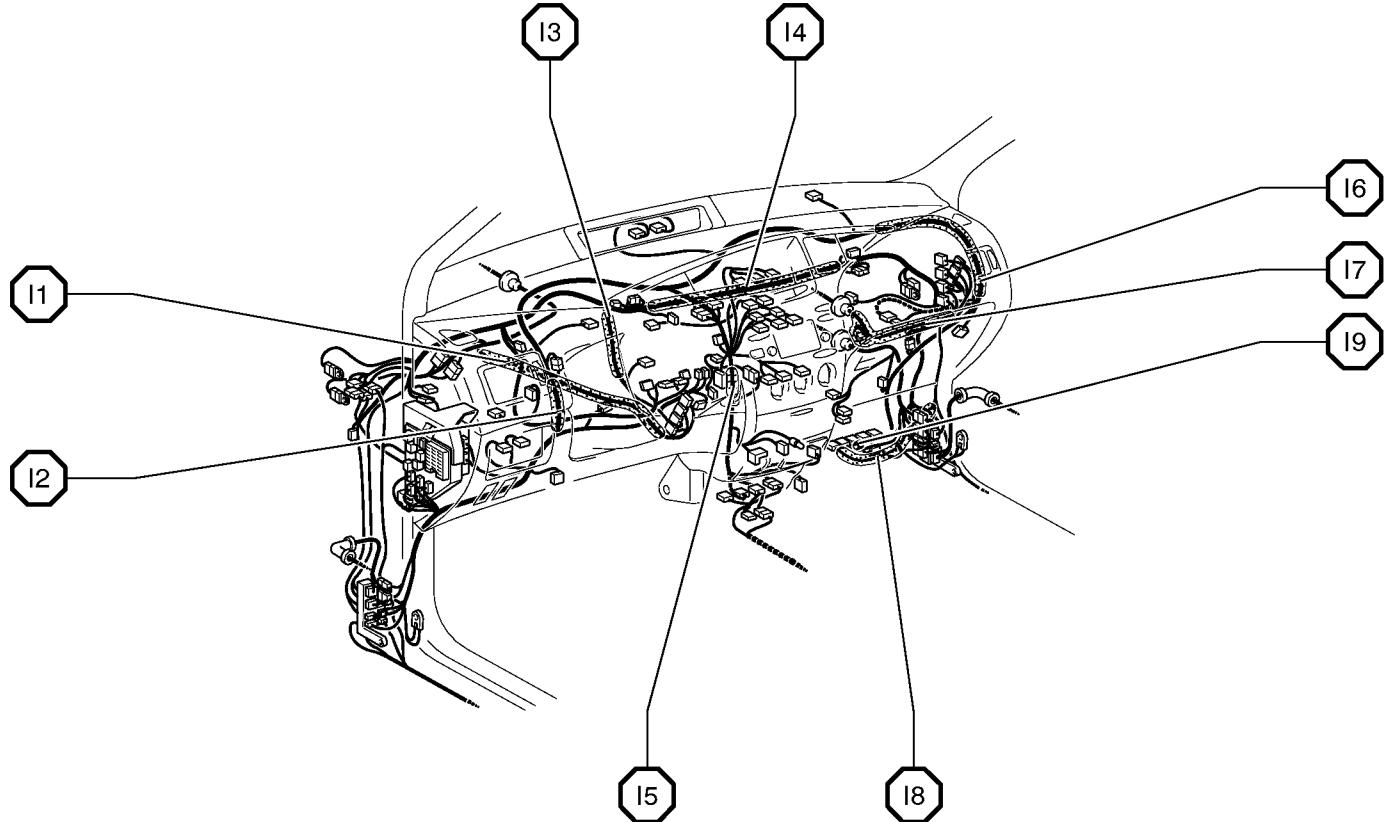
| Code | Joining Wire Harness and Wire Harness (Connector Location) |
|------|---|
| IA1 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| IA2 | |
| IB1 | Floor Wire and Cowl Wire (Cowl Side Panel LH) |
| IC1 | Front Door LH Wire and Cowl Wire (Left Kick Panel) |
| ID1 | |
| ID2 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |
| IE1 | Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel) |
| IF1 | |
| IF2 | Instrument Panel Wire and Floor Wire (Left Kick Panel) |
| IG1 | Front Door LH Wire and Instrument Panel Wire (Left Kick Panel) |
| IH1 | Floor Wire and Engine Room Main Wire (Left Kick Panel) |

G ELECTRICAL WIRING ROUTING

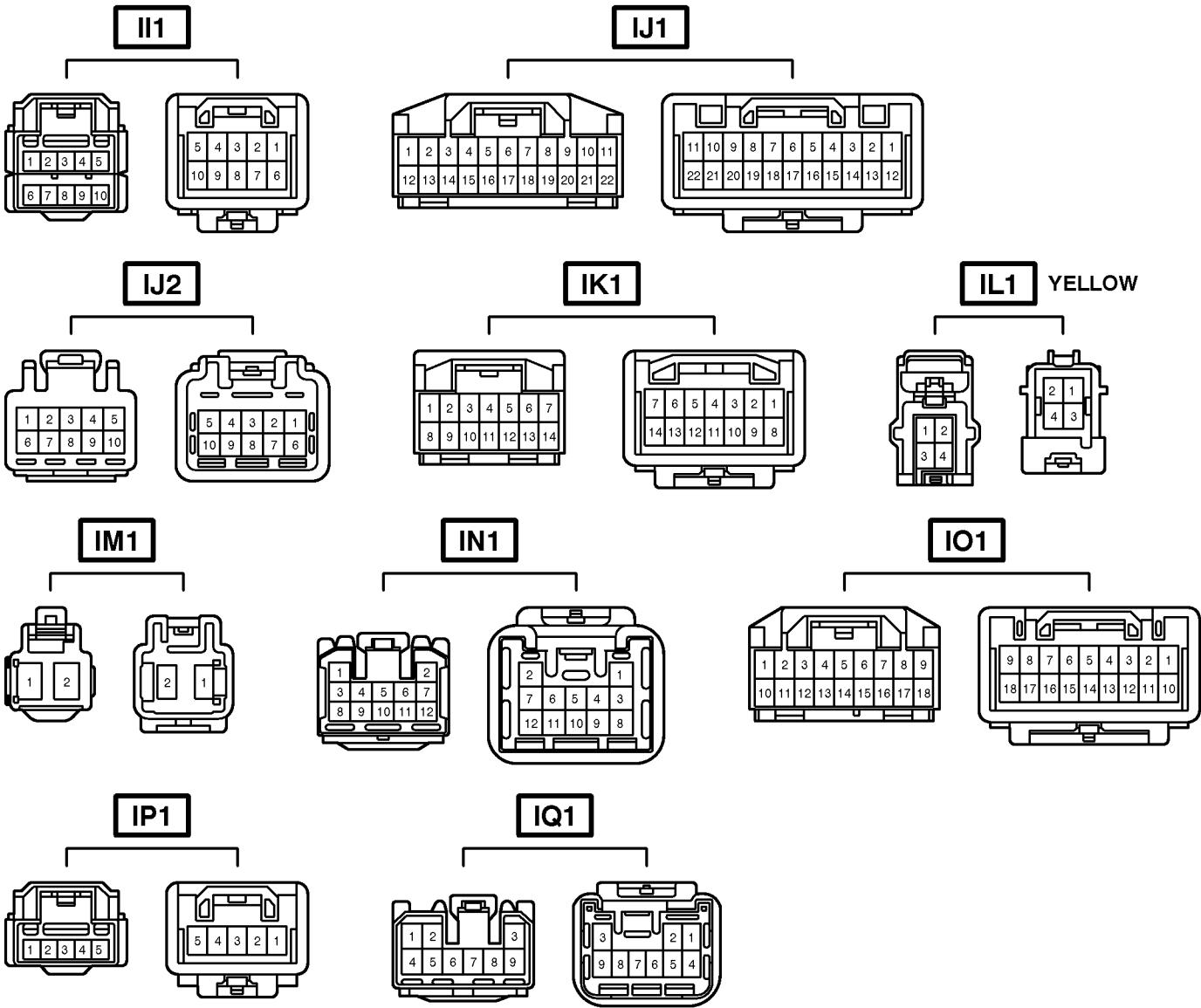
: Location of Connector Joining Wire Harness and Wire Harness



: Location of Splice Points



Connector Joining Wire Harness and Wire Harness

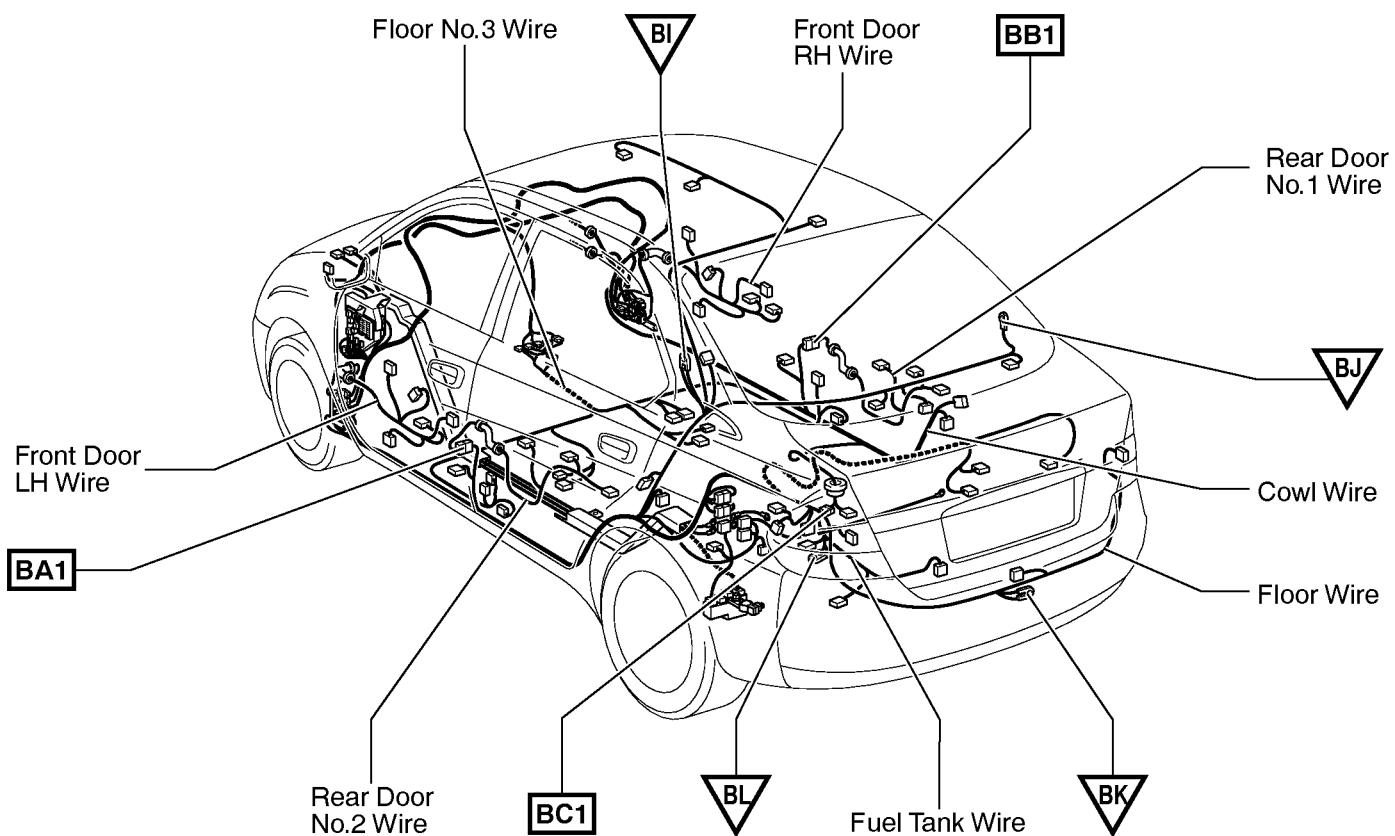


| Code | Joining Wire Harness and Wire Harness (Connector Location) |
|------|---|
| II1 | Instrument Panel Wire and A/C Sub Wire (Instrument Panel Brace LH) |
| IJ1 | Floor No.3 Wire and Instrument Panel Wire (Under the Instrument Panel Center) |
| IJ2 | |
| IK1 | Engine Wire and Engine Room Main Wire (Right Kick Panel) |
| IL1 | Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel) |
| IM1 | Engine Room Main Wire and Cowl Wire (Right Kick Panel) |
| IN1 | Front Door RH Wire and Instrument Panel Wire (Right Kick Panel) |
| IO1 | Engine Wire and Cowl Wire (Right Kick Panel) |
| IP1 | Instrument Panel Wire and Cowl Wire (Right Kick Panel) |
| IQ1 | Front Door RH Wire and Cowl Wire (Right Kick Panel) |

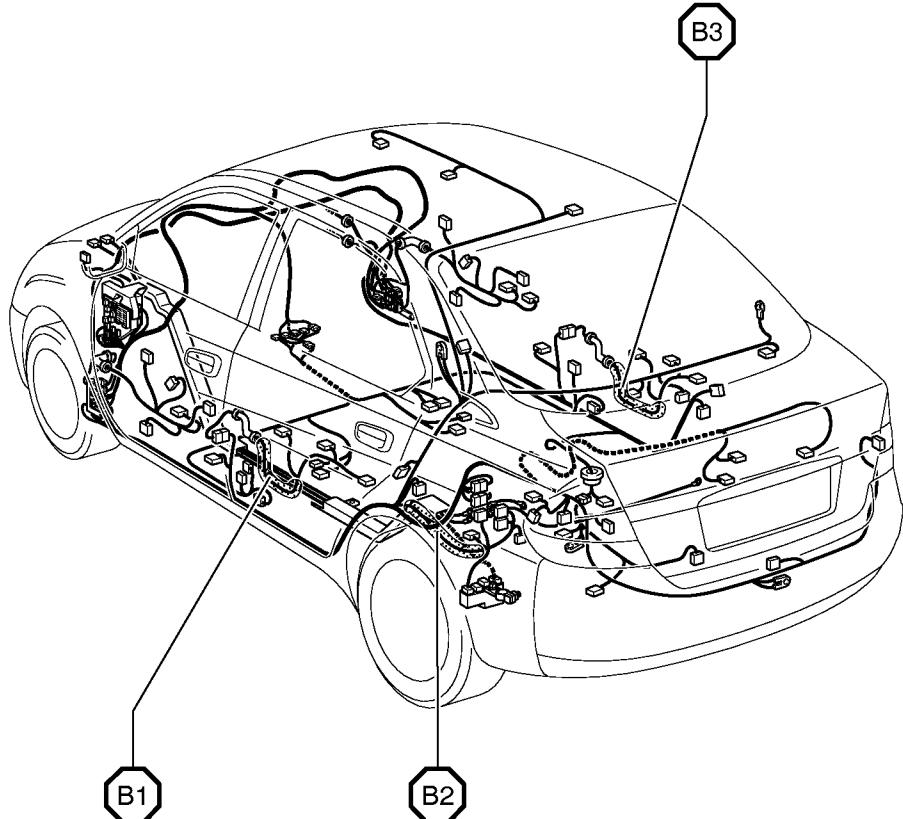
G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

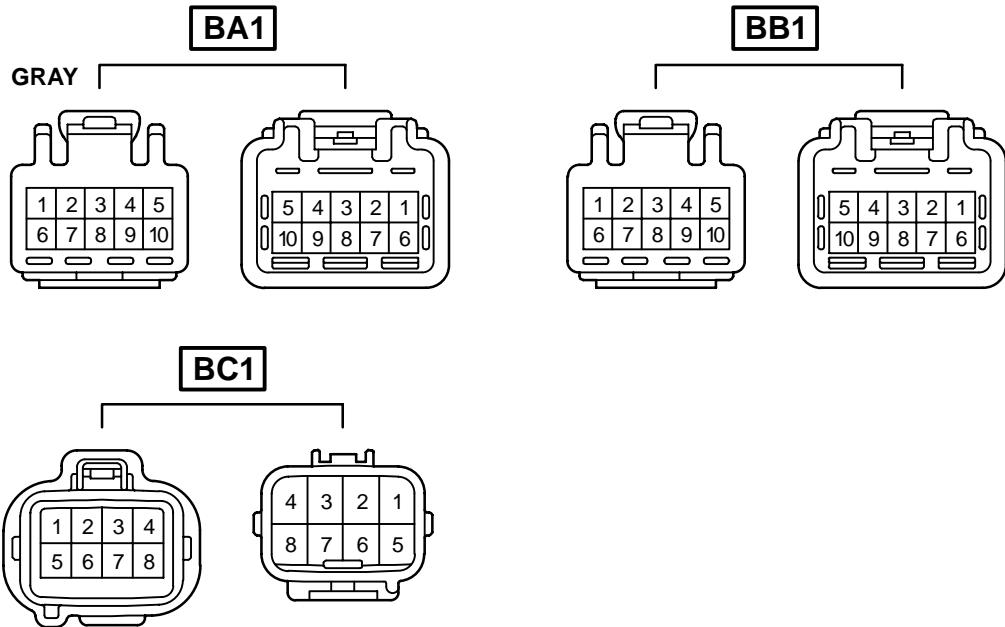
▽ : Location of Ground Points



○ : Location of Splice Points

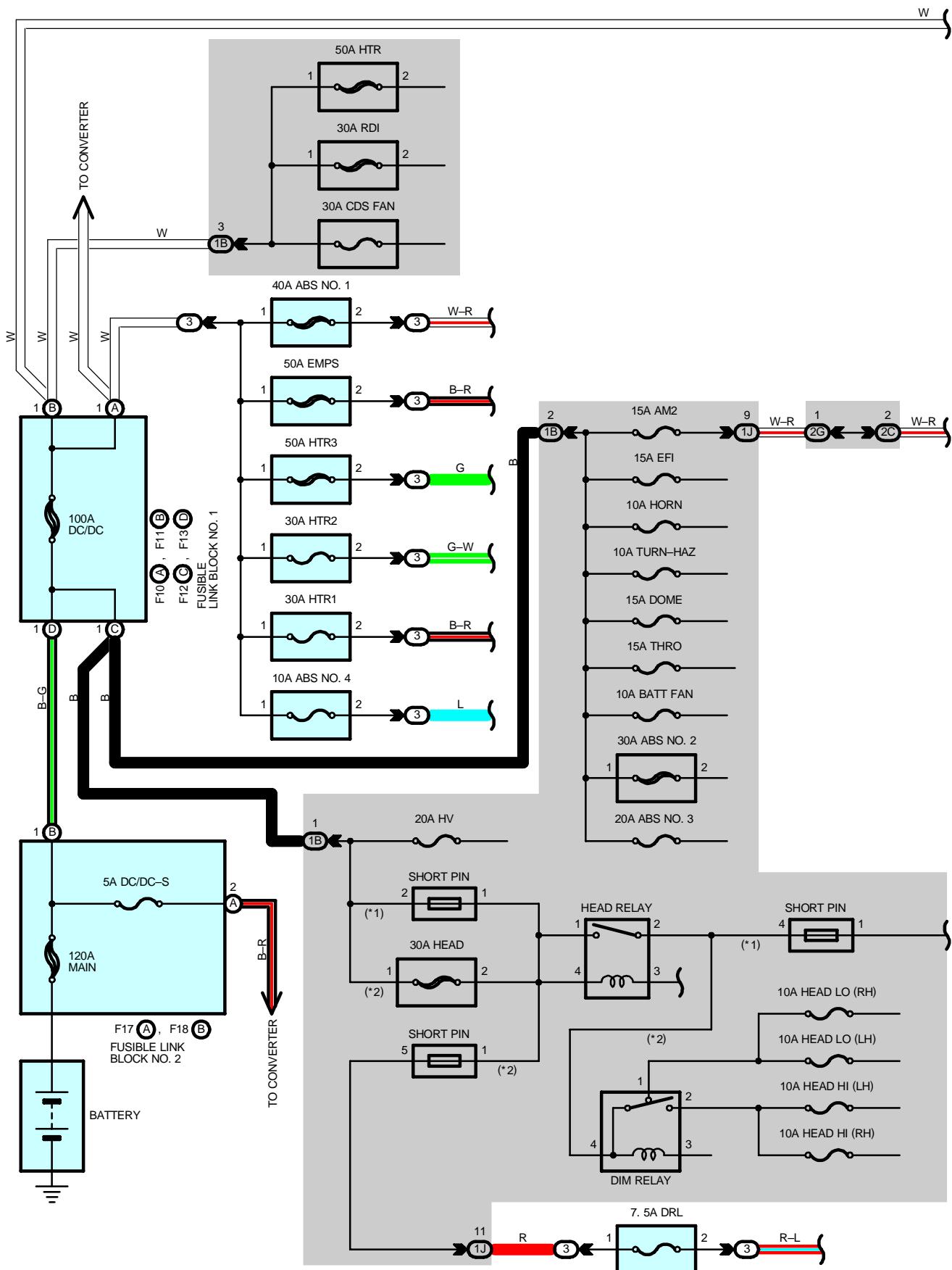


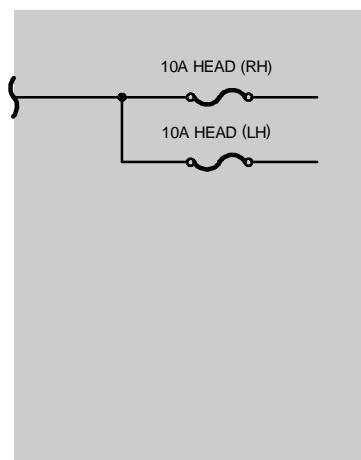
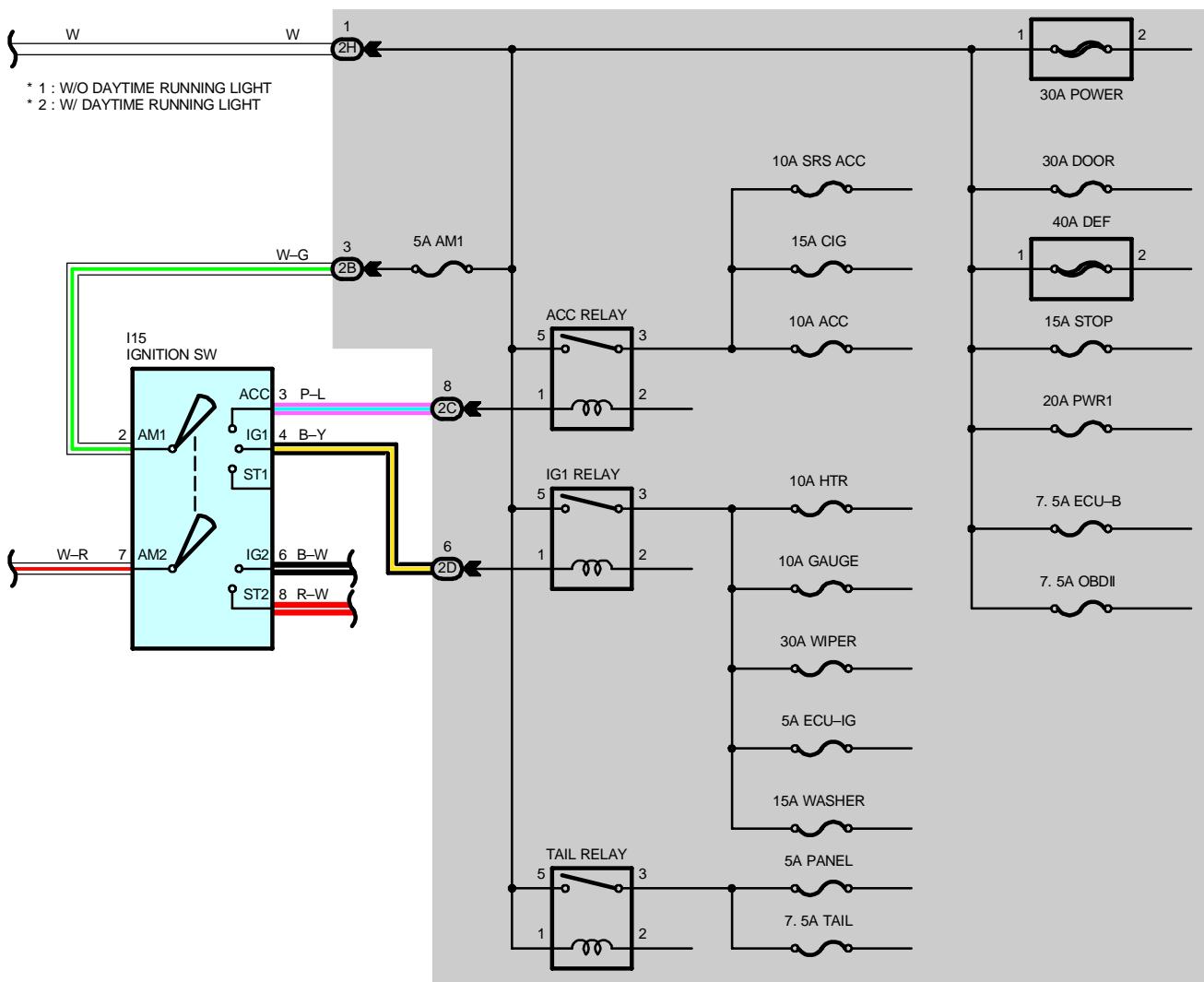
Connector Joining Wire Harness and Wire Harness



| | |
|------|--|
| Code | Joining Wire Harness and Wire Harness (Connector Location) |
| BA1 | Rear Door No.2 Wire and Floor Wire (Center Pillar LH) |
| BB1 | Rear Door No.1 Wire and Cowl Wire (Center Pillar RH) |
| BC1 | Cowl Wire and Fuel Tank Wire (Near the Fuel Tank) |

POWER SOURCE





POWER SOURCE

SERVICE HINTS

HEAD RELAY

2–1 : Closed with the light control SW at **HEAD** position or the dimmer SW at **FLASH** position
Closed with the engine running and the parking brake pedal released (Parking brake SW off) [w/ Daytime running light]

TAIL RELAY

5–3 : Closed with the light control SW at **TAIL** or **HEAD** position

I15 IGNITION SW

2–3 : Closed with the ignition key at **ACC** or **ON** position
2–4 : Closed with the ignition key at **ON** or **ST** position
7–6 : Closed with the ignition key at **ON** or **ST** position
7–8 : Closed with the ignition key at **ST** position

○ : PARTS LOCATION

| Code | | See Page | Code | | See Page | Code | See Page |
|------|---|----------|------|---|----------|------|----------|
| F10 | A | 34 | F13 | D | 34 | I15 | 37 |
| F11 | B | 34 | F17 | A | 38 | | |
| F12 | C | 34 | F18 | B | 38 | | |

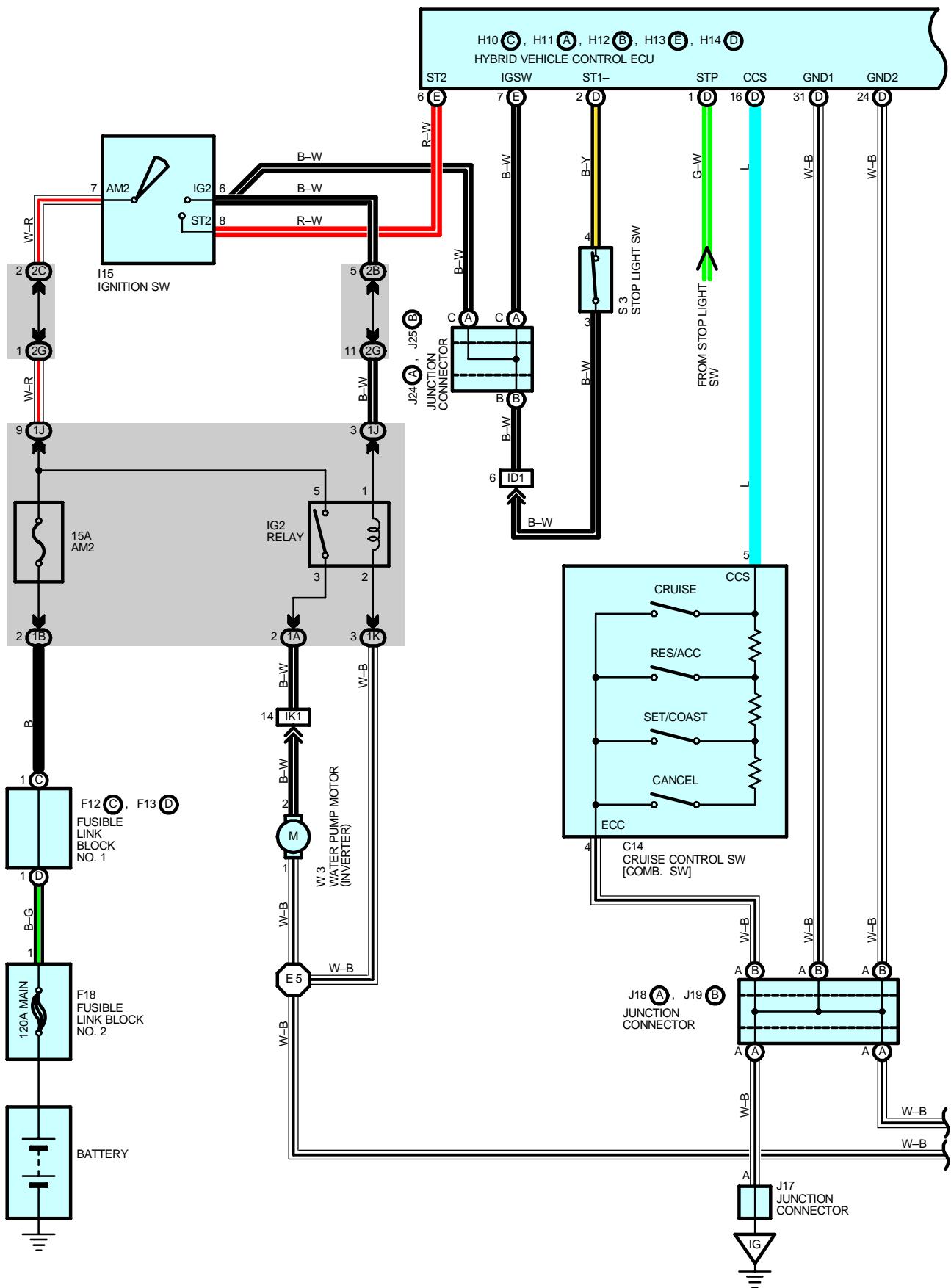
□ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location) |
|------|----------|---|
| 3 | 24 | Engine Room R/B No.3 (Engine Compartment Right) |

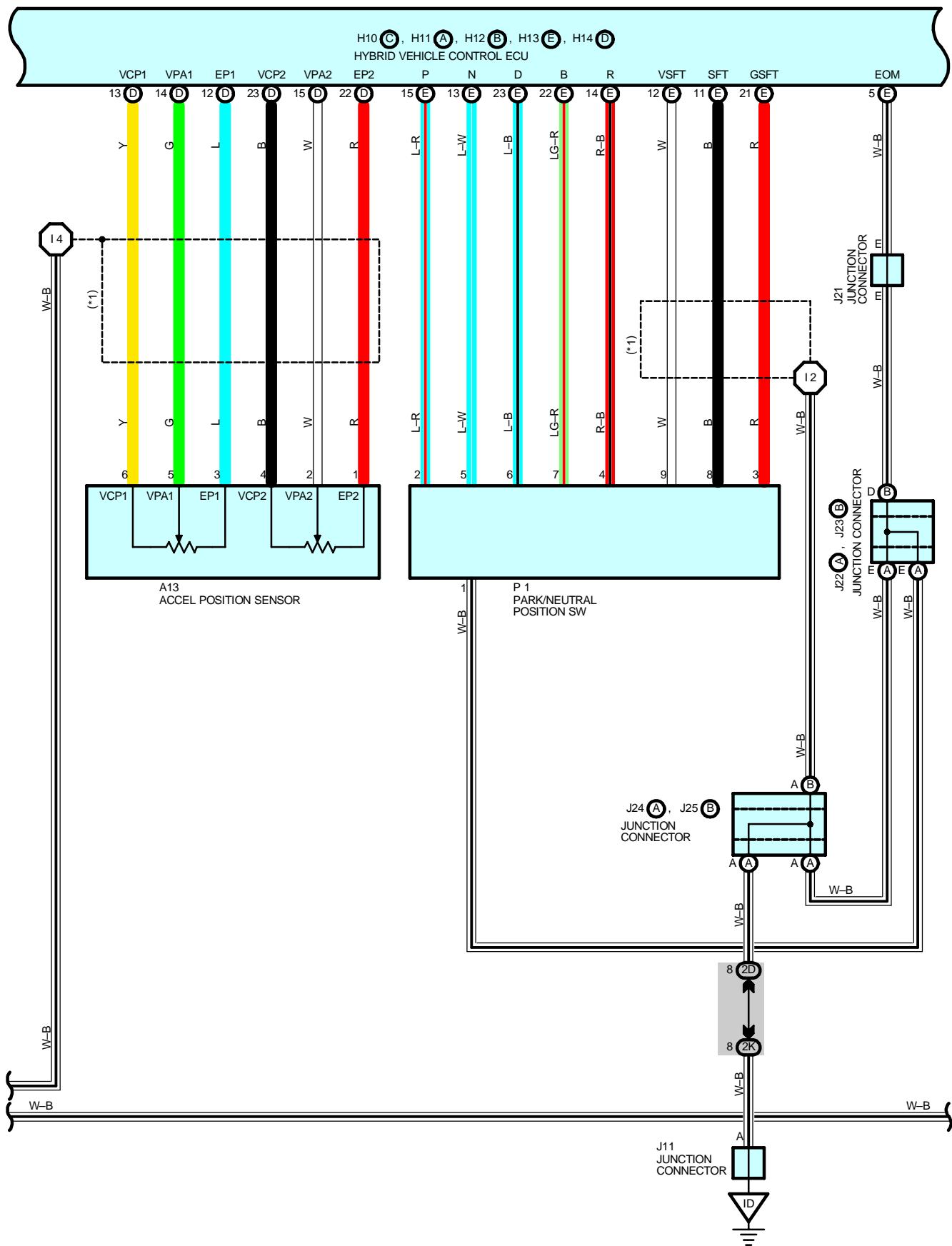
◎ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1B | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 1J | | |
| 2B | | |
| 2C | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2D | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2H | | |

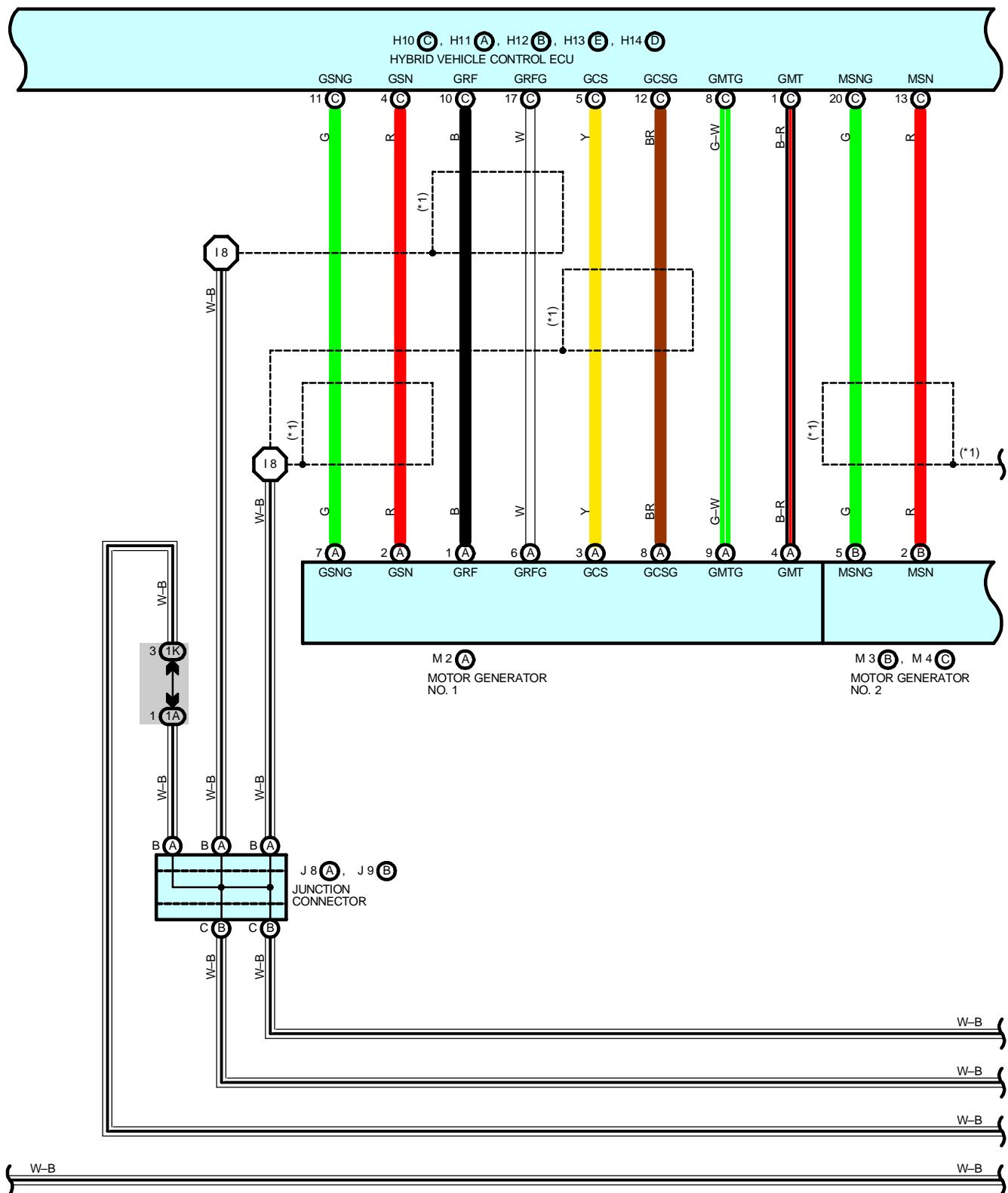
TOYOTA HYBRID SYSTEM



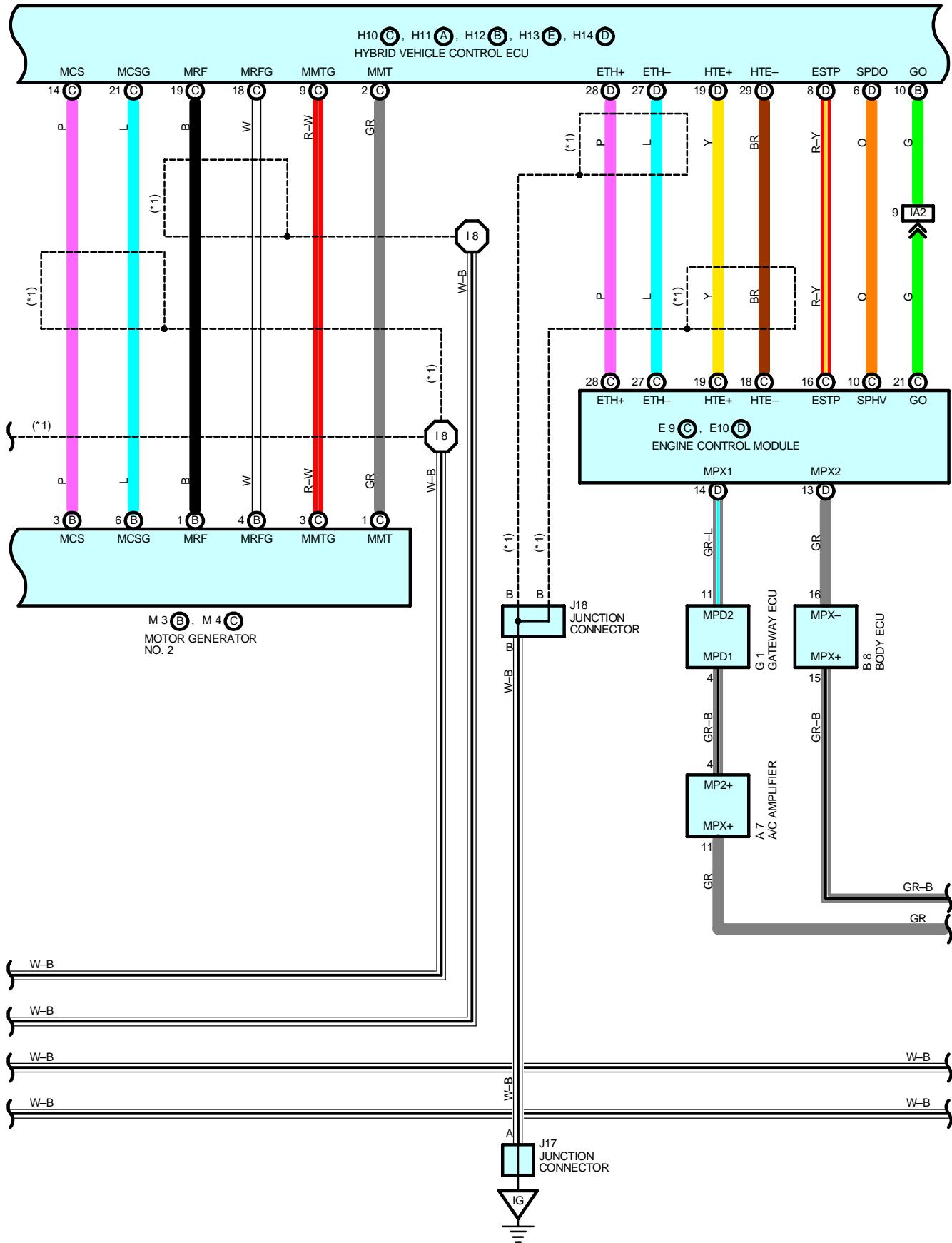
* 1 : SHIELDED



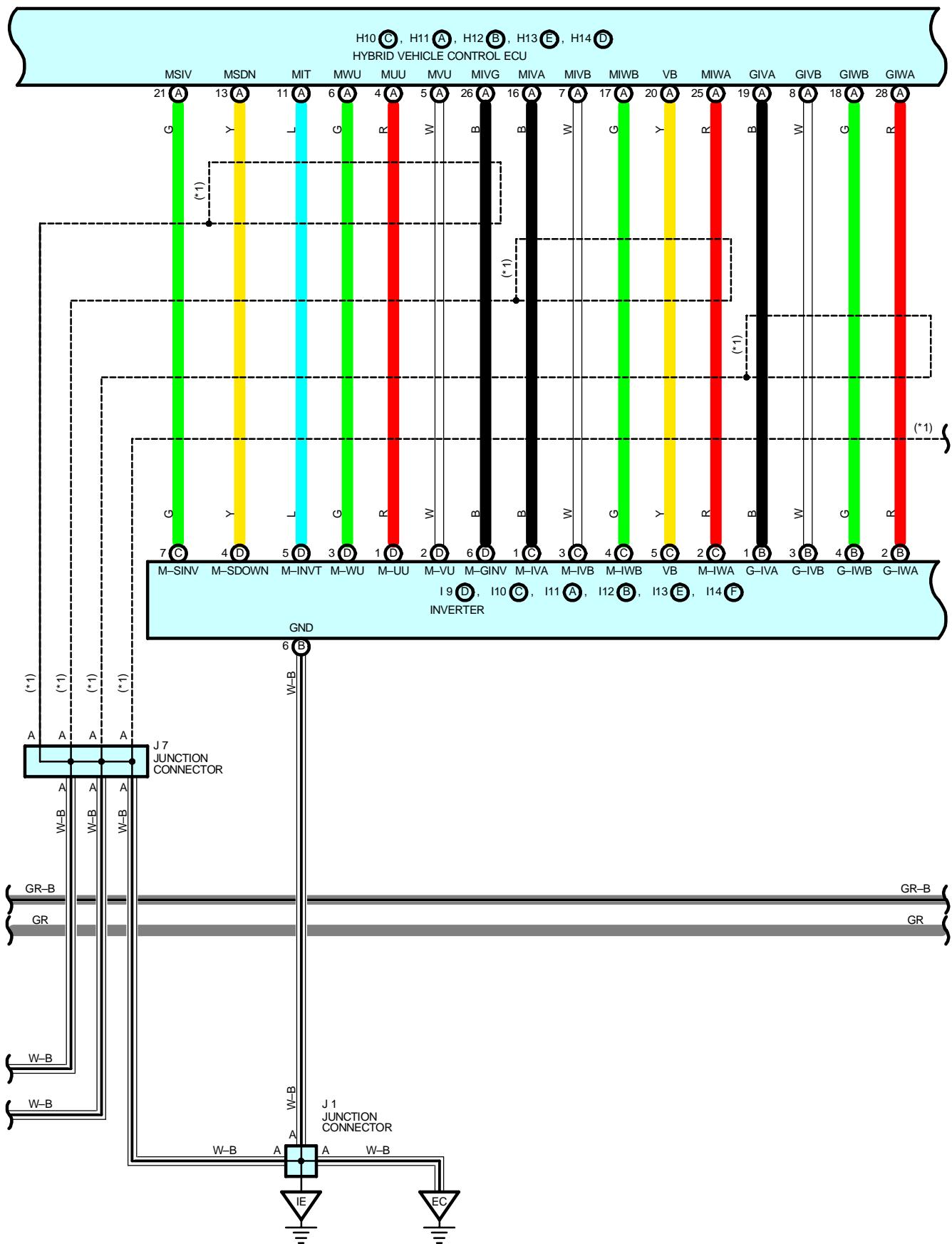
TOYOTA HYBRID SYSTEM

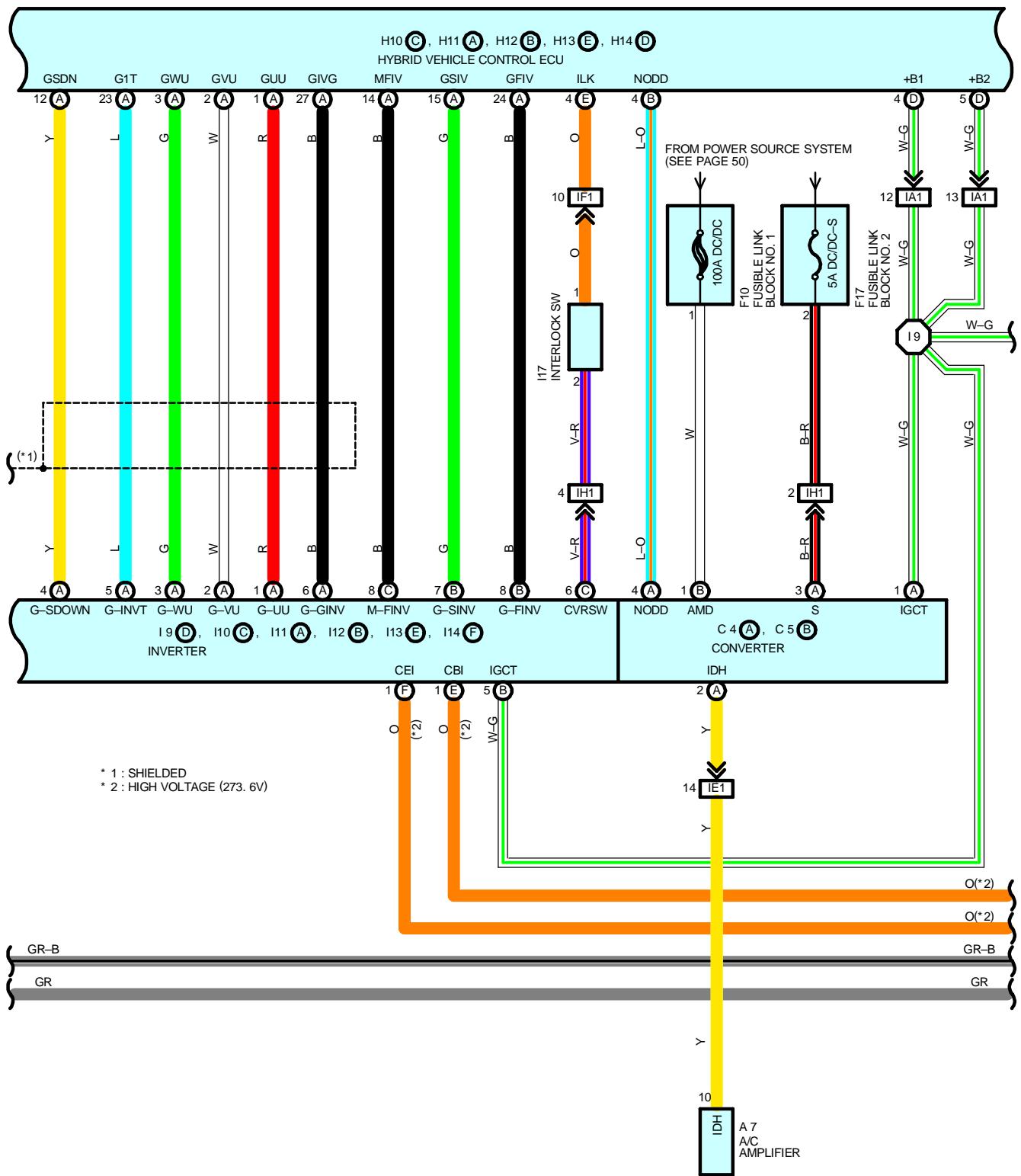


* 1 : SHIELDED

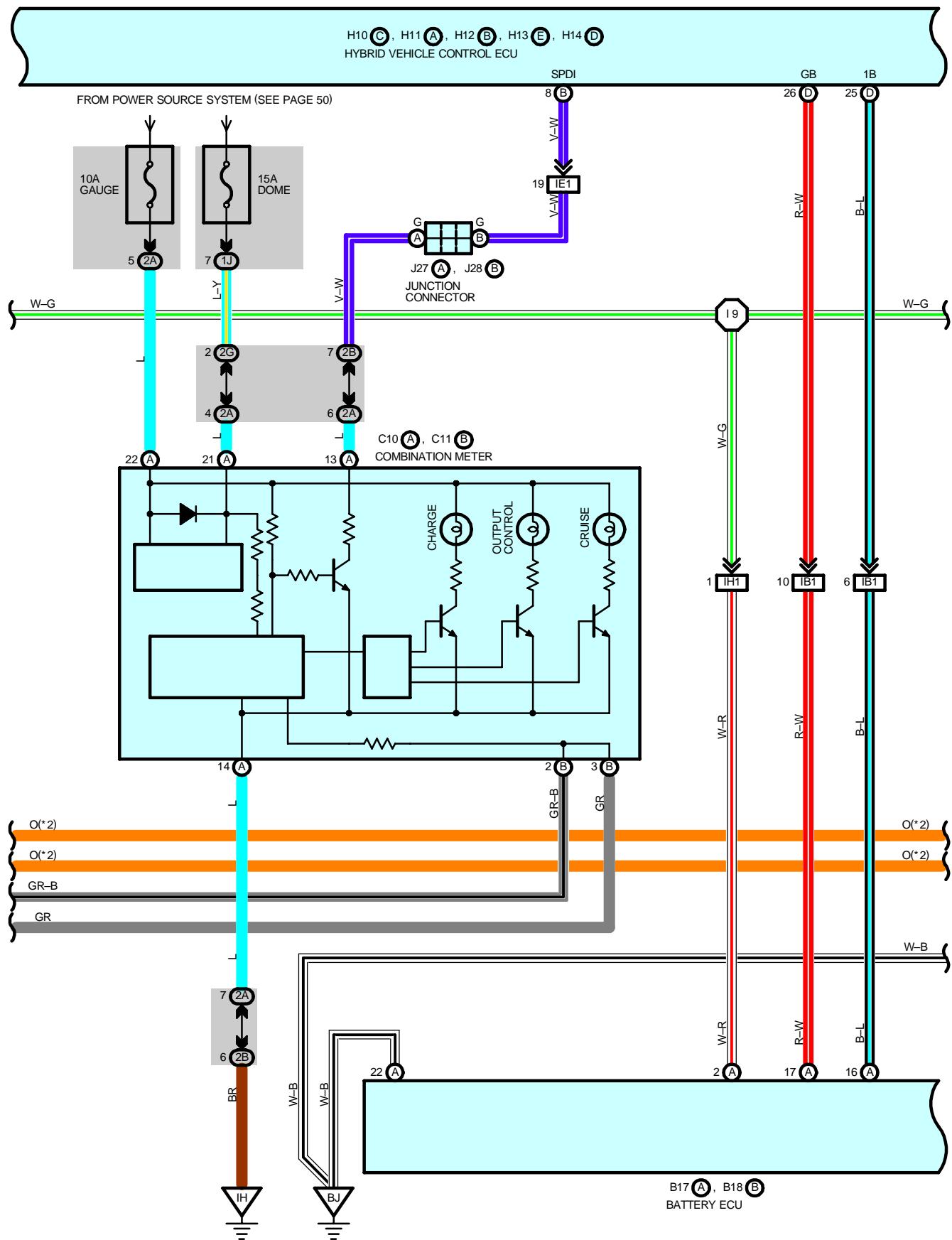


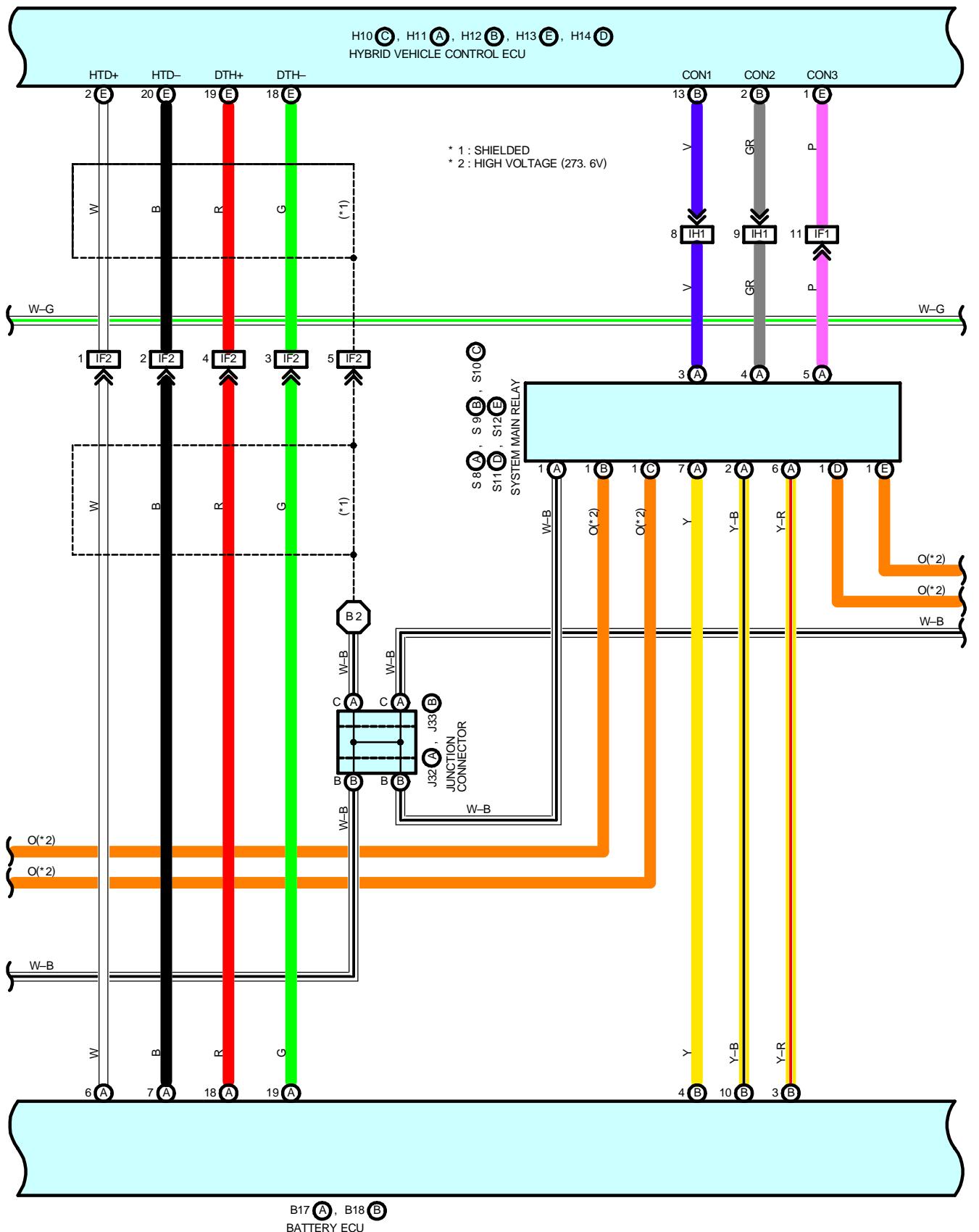
TOYOTA HYBRID SYSTEM



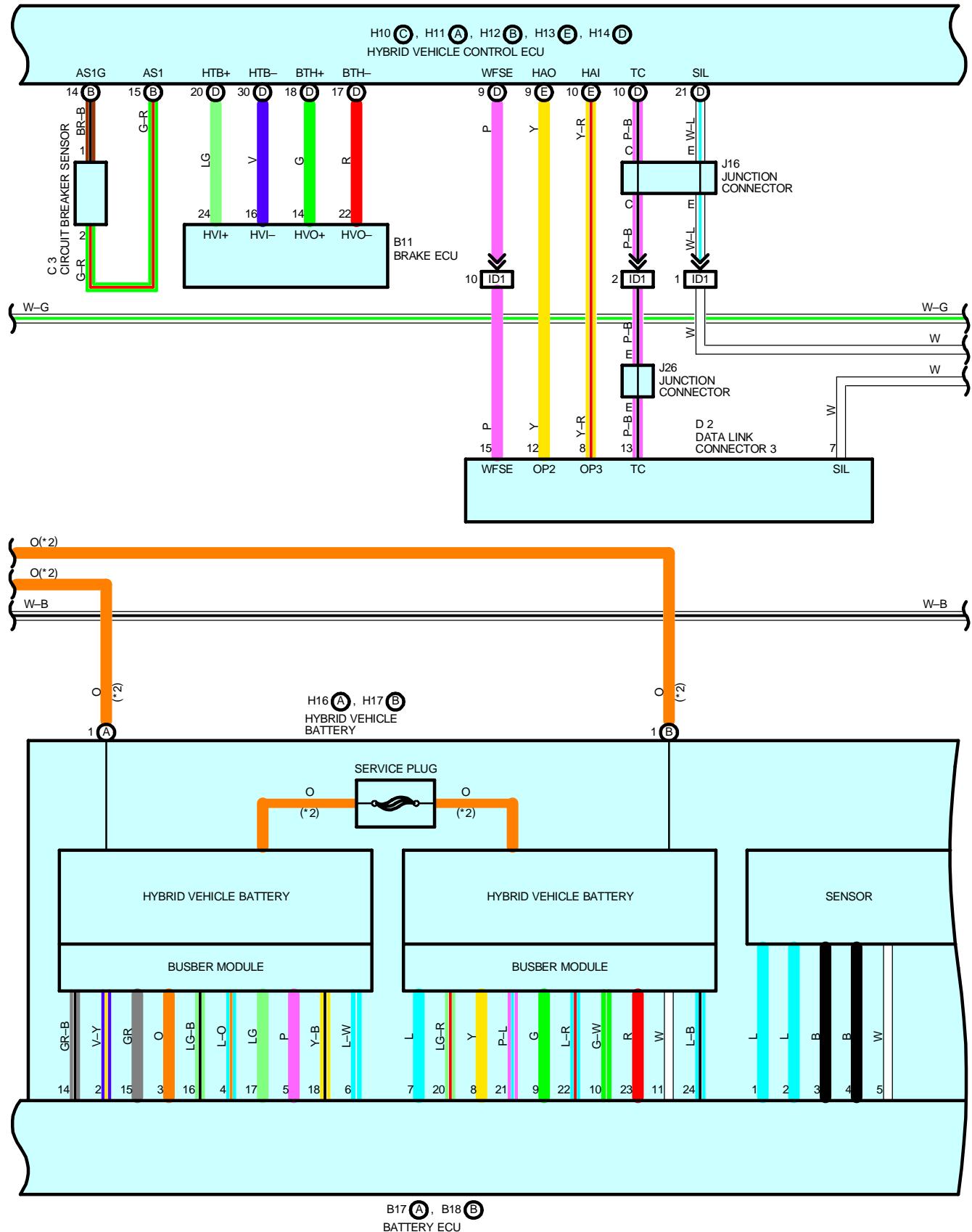


TOYOTA HYBRID SYSTEM

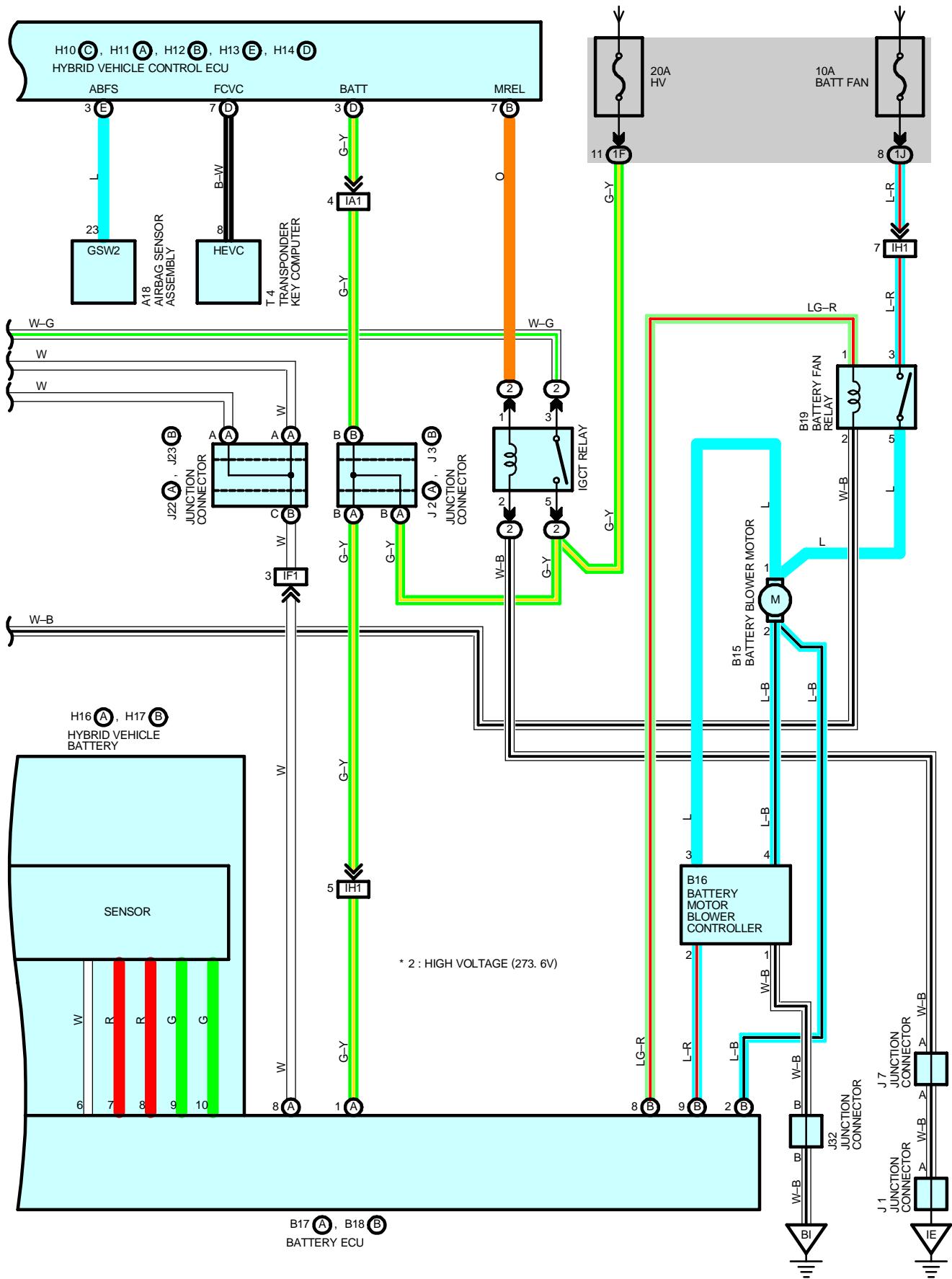




TOYOTA HYBRID SYSTEM



FROM POWER SOURCE SYSTEM (SEE PAGE 50)



TOYOTA HYBRID SYSTEM

SYSTEM OUTLINE

FEATURES OF TOYOTA HYBRID SYSTEM

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

(1) Supply of electrical power from the HV battery to motor generator no.2 provides force to drive the wheels.

(2) While the tires are driven by the engine via the planetary gears, motor generator no.1 is driven via the planetary gears to supply electricity to motor generator no.2 to drive the wheels.

(3) When the vehicle is decelerating, kinetic energy from the wheels is recovered and converted into electrical energy and used to recharge the HV battery by means of motor generator no.2.

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

CRUISE CONTROL OPERATION

Cruise control is the speed control device, which sets the desired speed by just operating the switch on the control panel without pressing the accelerator pedal. This device is used when you would like to drive the vehicle at the fixed speed.

1. SET CONTROL

If you operate the SET/COAST switch when driving (The available range of set speed: between about 40 and 200 km/h) with the main switch is ON (When power indicator comes on), the device memorizes vehicle's speed when switch is off and controls the fixed speed.

2. SET SPEED CONTROL

This device compares the vehicle's running speed and the memorized speed, and controls the driving power of the motor and the engine by calculating the cruise control requirements so that both speed become equivalent.

3. COAST CONTROL

If the SET/COAST switch is continued to be ON during the running with the cruise control, the device recognizes the cruise control requirement is at 0 and decelerates the vehicle's speed. Then the device memorizes the speed when the switch is off in order to control the fixed speed.

In each time you operate SET/COAST switch momentarily (For about 0.5 second), the memorized speed is decreased in about 1.5 km/h. However, in case of the tap-down operation with more than 5-km/h gap between the memorized speed and vehicle's running speed, the device memorizes the vehicle's speed when the switch is off and controls the fixed speed.

4. ACCEL CONTROL

If the RESUME/ACCEL switch is continued to be ON during the running with the cruise control, the device recognizes the cruise control is on the acceleration side and accelerates the vehicle's speed. Then the running speed when the switch is off is memorized to control the fixed speed.

In each time you operate RESUME/ACCEL switch momentarily (For about 0.5 second), the memorized speed is increased in about 1.5 km/h. However, if there is more than 5-km/h gap between the memorized speed and vehicle's running speed, this operation does not change the memorized speed. (Tap-up operation is not available.)

5. RESUME CONTROL

If the running speed is faster than the low speed limit after the cruise control is canceled manually, the fixed speed is controlled by the OFF-ON operation of RESUME/ACCEL switch, so that the vehicle's speed returns to the memorized speed at the time the cruise control is released.

6. MANUAL CANCEL CONTROL

When each of the following signals is input during driving with cruise control, the cruise control is released with turning the cruise control requirement to 0. (The memorized speed is maintained when following signals except the signal, main switch OFF is input.)

- * Stop light switch ON (Pressing the brake pedal)
- * Control switch's cancel switch ON
- * Main switch OFF

7. AUTO CANCEL FUNCTION

A) The memorized speed is erased and the control is canceled if the following conditions occur. The power indicator blinks at that time until the main switch is turned ON. The speed control is unavailable unless the main switch is turned ON again.

- * When the stop light switch breaks or short-circuits.
- * When sudden change of the running speed signal occur.

B) The memorized speed is erased and the control is canceled if the following conditions occur.

- * When the malfunction of the stop light switch input circuit occurs.
- * When the running speed becomes slower than 40km/h.
- * When the running speed becomes slower than the speed that 16 km/h subtracted from the memorized speed.

8. REGENERATIVE SYSTEM OPERATION

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

SERVICE HINTS

C14 CRUISE CONTROL SW [COMB. SW]

5-4 : Approx. **1540 Ω** with CANCEL SW on

Approx. **240 Ω** with RES/ACC SW on

Approx. **630 Ω** with SET/COAST SW on

○ : PARTS LOCATION

| Code | See Page | Code | | See Page | Code | | See Page | |
|------|----------|------|-----|----------|------|-----|----------|----|
| A7 | 36 | H10 | C | 37 | J18 | A | 37 | |
| A13 | 36 | H11 | A | 37 | J19 | B | 37 | |
| A18 | 36 | H12 | B | 37 | J21 | | 37 | |
| B8 | 36 | H13 | E | 37 | J22 | A | 37 | |
| B11 | 36 | H14 | D | 37 | J23 | B | 37 | |
| B15 | 38 | H16 | A | 38 | J24 | A | 37 | |
| B16 | 38 | H17 | B | 38 | J25 | B | 37 | |
| B17 | A | I9 | D | 35 | J26 | | 37 | |
| B18 | B | I10 | C | 35 | J27 | A | 37 | |
| B19 | 38 | I11 | A | 35 | J28 | B | 37 | |
| C3 | 34 | I12 | B | 35 | J32 | | 38 | |
| C4 | A | I13 | E | 35 | A | | 38 | |
| C5 | B | I14 | F | 35 | J33 | B | 38 | |
| C10 | A | 36 | I15 | | M2 | A | 35 | |
| C11 | B | 36 | I17 | | M3 | B | 35 | |
| C14 | 36 | J1 | | 37 | M4 | C | 35 | |
| D2 | 36 | J2 | A | 37 | P1 | | 37 | |
| E9 | C | 36 | J3 | B | 37 | S3 | | 37 |
| E10 | D | 36 | J7 | | S8 | A | 39 | |
| F10 | 34 | J8 | A | 37 | S9 | B | 39 | |
| F12 | C | 34 | J9 | B | 37 | S10 | C | 39 |
| F13 | D | 34 | J11 | | S11 | D | 39 | |
| F17 | 38 | J16 | | 37 | S12 | E | 39 | |
| F18 | 38 | J17 | | 37 | T4 | | 37 | |
| G1 | 37 | J18 | | 37 | W3 | | 35 | |

TOYOTA HYBRID SYSTEM

 : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location) |
|------|----------|---|
| 2 | 23 | Engine Room R/B No.2 (Right Side of Reserve Tank) |

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1A | 27 | Engine Wire and Engine Room J/B (Engine Compartment Left) |
| 1B | | |
| 1F | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 1J | | |
| 1K | | |
| 2A | | |
| 2B | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2C | | |
| 2D | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|---|
| IA1 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| IA2 | | |
| IB1 | 42 | Floor Wire and Cowl Wire (Cowl Side Panel LH) |
| ID1 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |
| IE1 | 42 | Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel) |
| IF1 | 42 | Instrument Panel Wire and Floor Wire (Left Kick Panel) |
| IF2 | | |
| IH1 | 42 | Floor Wire and Engine Room Main Wire (Left Kick Panel) |
| IK1 | 44 | Engine Wire and Engine Room Main Wire (Right Kick Panel) |

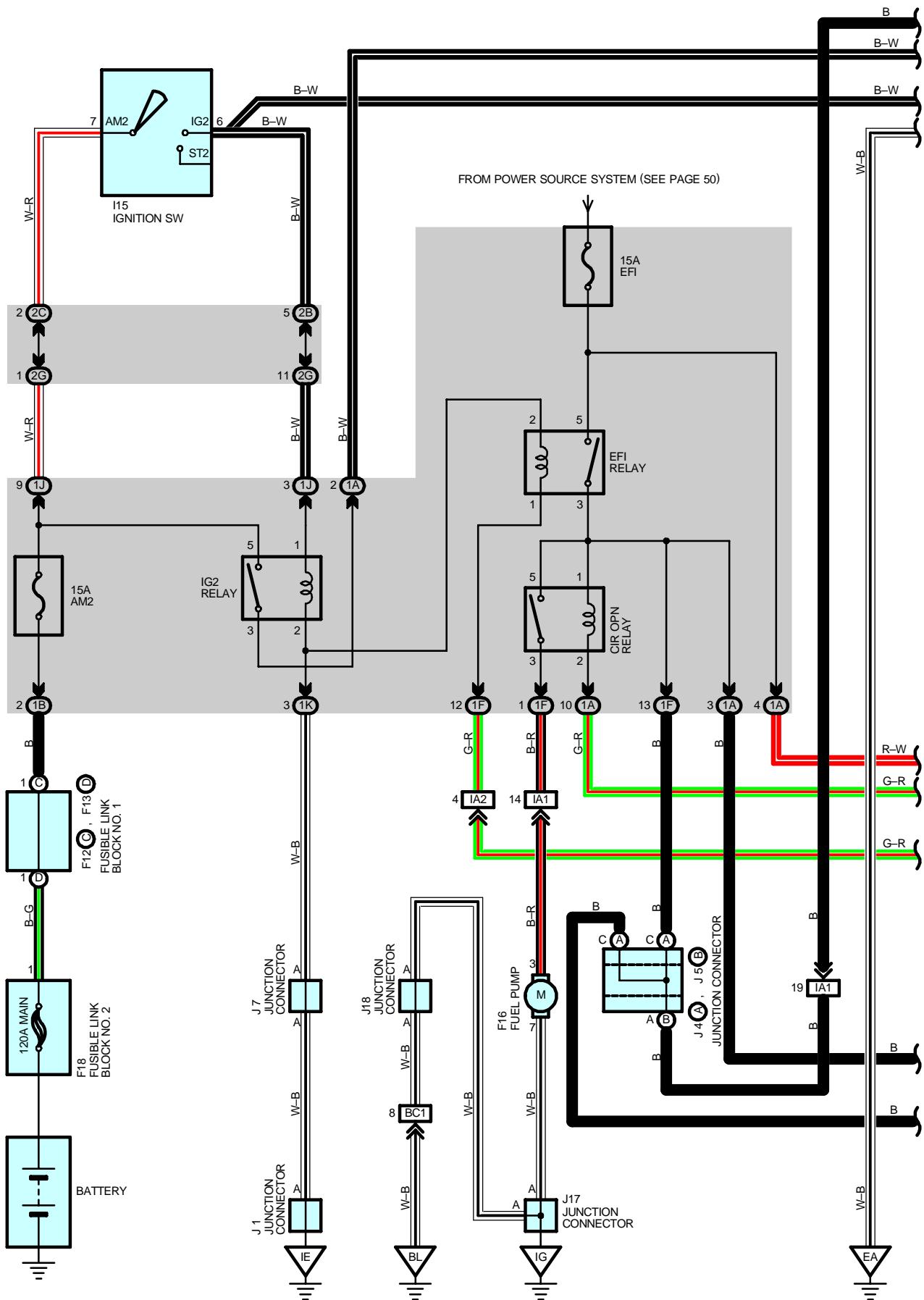
 : GROUND POINTS

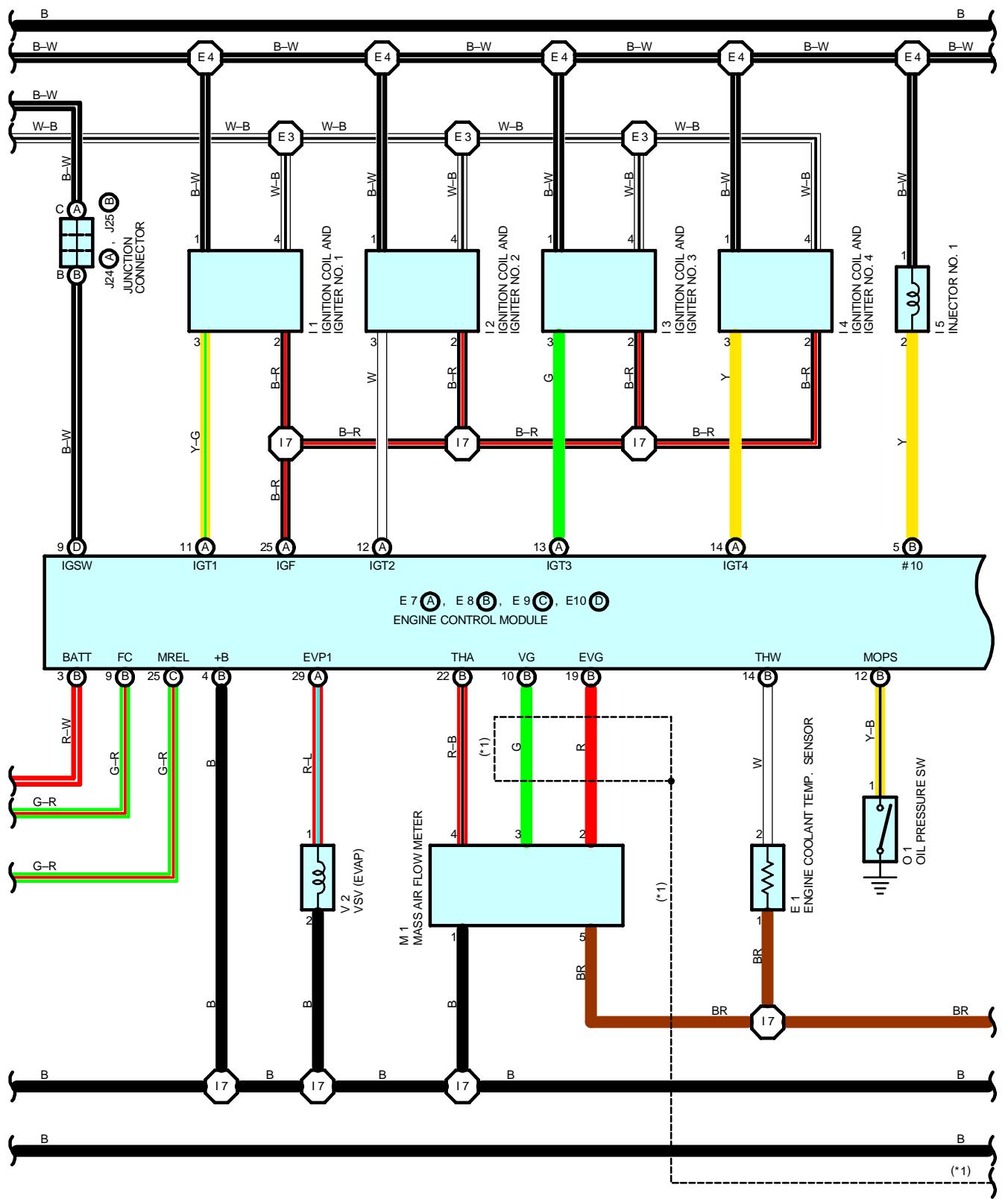
| Code | See Page | Ground Points Location |
|------|----------|---------------------------|
| EC | 40 | Engine Compartment Left |
| ID | | |
| IE | 42 | Cowl Side Panel LH |
| IG | 42 | Cowl Side Panel RH |
| IH | 42 | Right Kick Panel |
| BI | 46 | Left Side of Rear Pillar |
| BJ | 46 | Right Side of Rear Pillar |

 : SPLICE POINTS

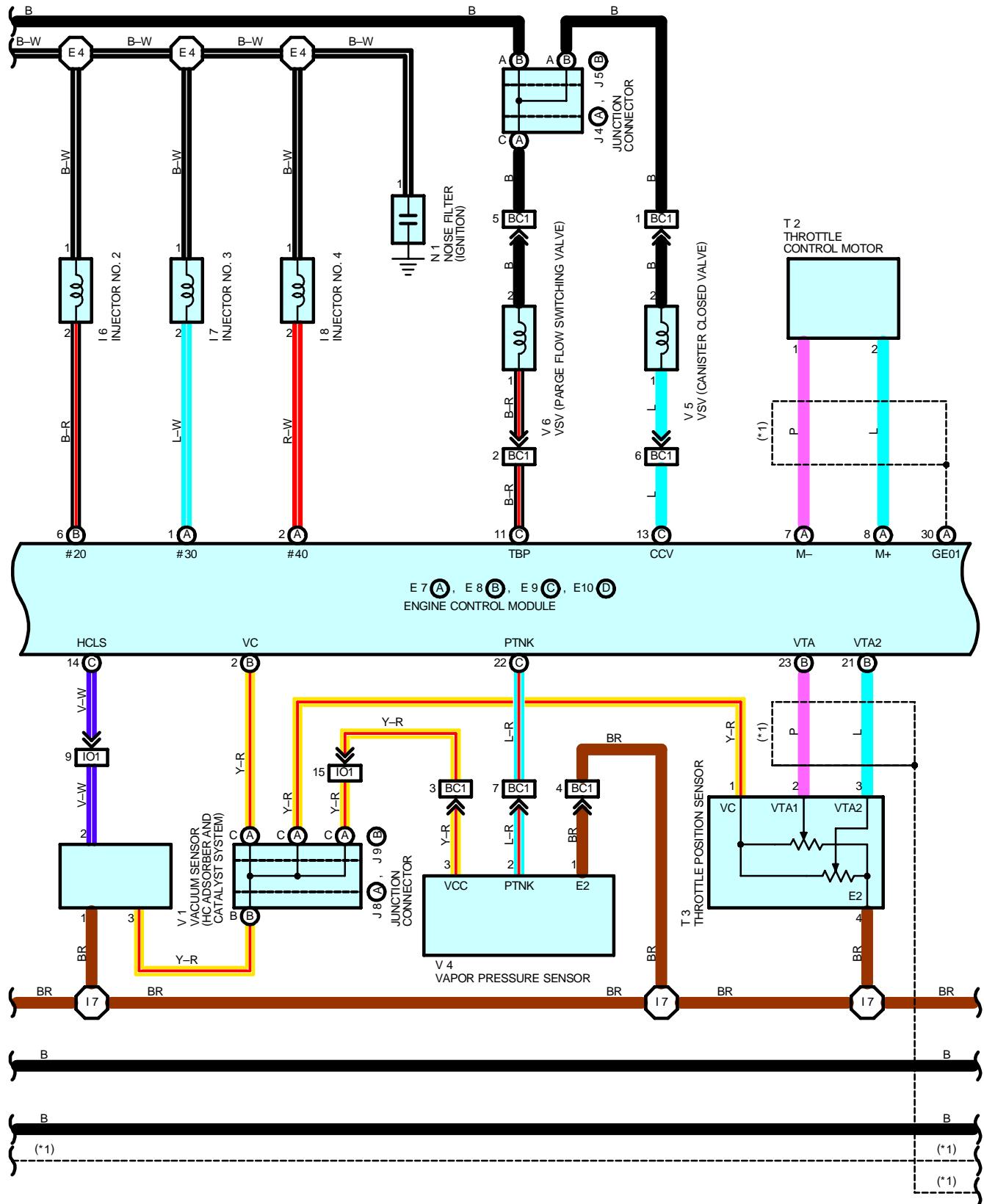
| Code | See Page | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|----------|---------------------------------|
| E5 | 40 | Engine Room Main Wire | I8 | 44 | Engine Wire |
| I2 | 44 | Instrument Panel Wire | I9 | 44 | Engine Room Main Wire |
| I4 | 44 | Cowl Wire | B2 | 46 | Floor Wire |

ENGINE CONTROL



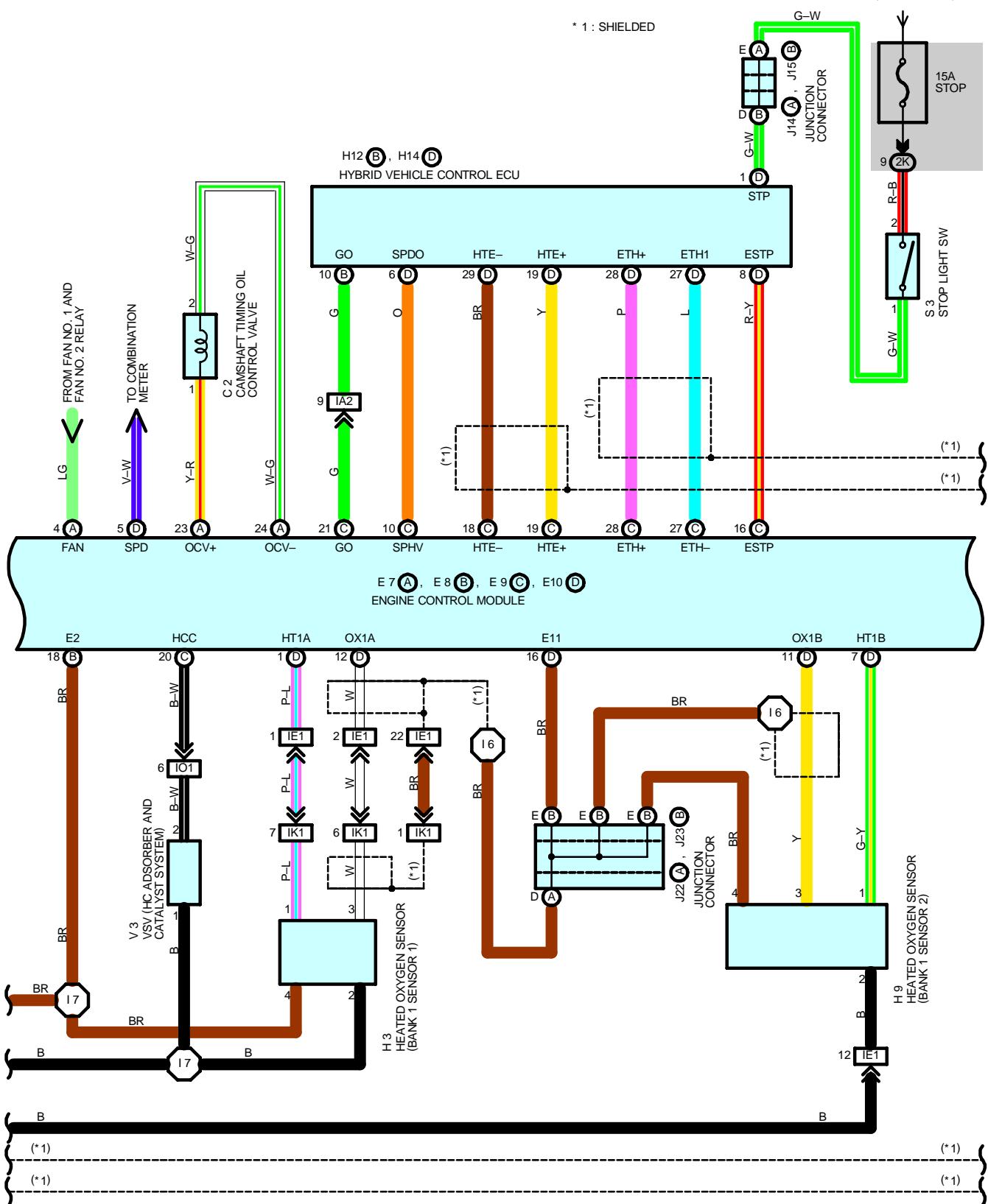


ENGINE CONTROL



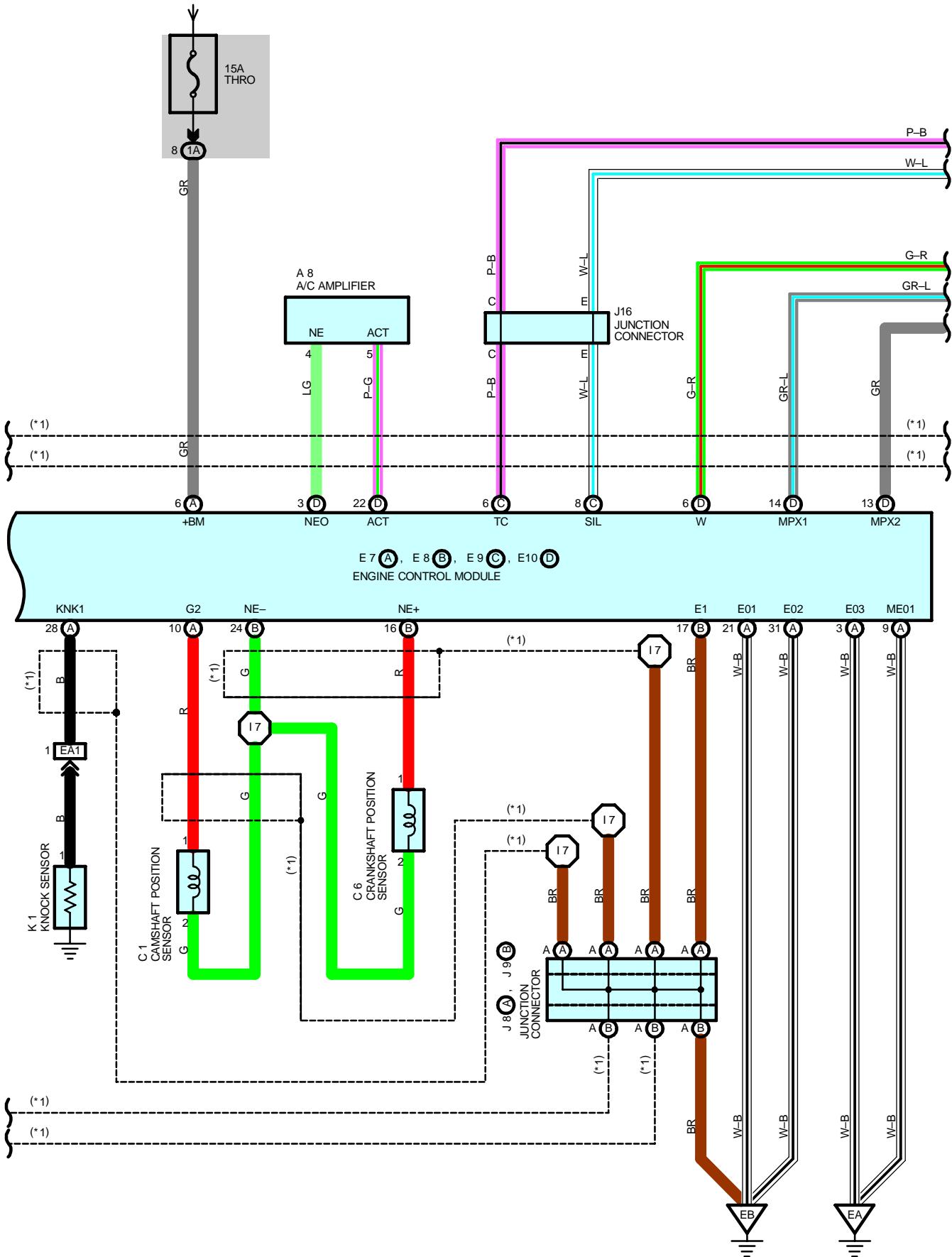
FROM POWER SOURCE SYSTEM (SEE PAGE 50)

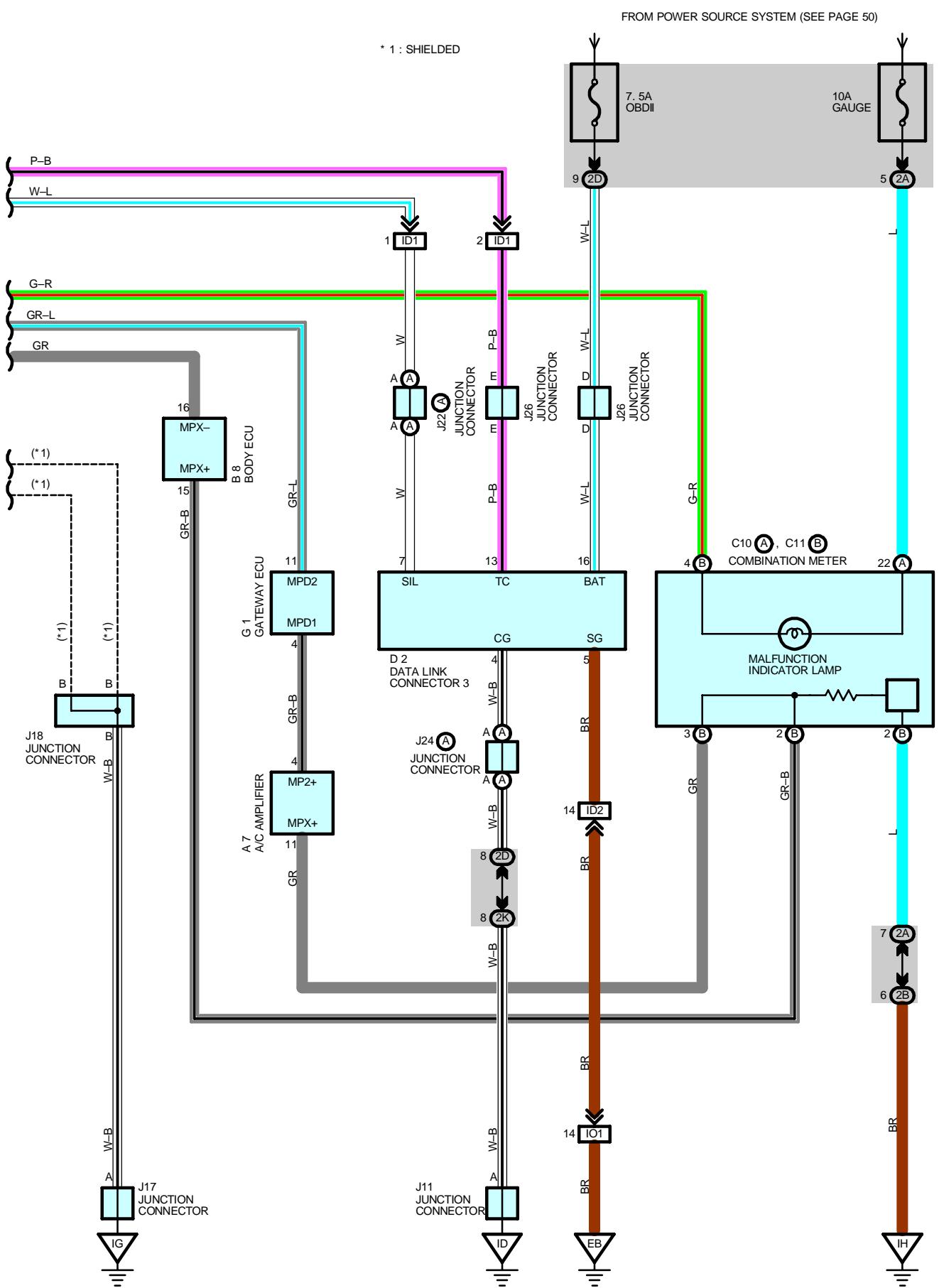
* 1 : SHIELDED



ENGINE CONTROL

FROM POWER SOURCE SYSTEM (SEE PAGE 50)





ENGINE CONTROL

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 TERMINALS VTA and VTA2 of the engine control module.

(6) Vehicle speed signal circuit

The vehicle speed signal from brake ECU, detects the vehicle speed and inputs a control signal into TERMINAL SPD of the engine control module via the combination meter.

(7) 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 TERMINAL +B of the engine control module via EFI relay.

(8) 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.

* Fuel pump control system

The engine control module operation outputs to TERMINAL FC and controls the CIR 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.

SERVICE HINTS

E7 (A), E8 (B), E9 (C), E10 (D) ENGINE CONTROL MODULE

BATT-E1 : Always approx. **9–14** volts

+B-E1 : **9–14** volts with the ignition SW on and the engine stopping

VC-E2 : **4.5–5.5** volts with the ignition SW on and the engine stopping

IGF-E1 : Pulse generation with the engine idling

THA-E2 : **0.5–3.4** volts with the engine idling and the intake air temp. **20 °C (68 °F)**

THW-E2 : **0.2–1.0** volts with the engine idling and the engine coolant temp. **80 °C (176 °F)**

W-E1 : **9–14** volts with the engine idling

: **0–3** volts with the ignition SW on and the engine coolant temp. sensor connector disconnects

ESTP-E1 : **9–14** volts with the brake pedal depressed

FC-E01 : **9–14** volts with the ignition SW on and the engine stopping

: **0–3** volts with the engine idling

+BM-E1 : Always approx. **9–14** volts

MREL-E1 : **9–14** volts with the ignition SW on and the engine stopping

EVP1-E1 : **9–14** volts with the ignition SW on and the engine stopping

HT1A, HT1B : **9–14** volts with the ignition SW on and the engine stopping

TC-E1 : **9–14** volts with the ignition SW on and the engine stopping

KNK1-E2 : Pulse generation with the engine idling

NE+, G2-NE-: Pulse generation with the engine idling

OCV+ – OCV-: Pulse generation with the ignition SW on and the engine stopping

IGT1, IGT2, IGT3, IGT4-E1 : Pulse generation with the engine idling

#10, #20, #30, #40-E01 : Pulse generation with the engine idling

E01, E02, E03, E1, E2, ME01-GROUND : Always continuity

E1 ENGINE COOLANT TEMP. SENSOR

2–1 : Approx. **14.96 kΩ (–20 °C, –4 °F)**

Approx. **2.44 kΩ (20 °C, 68 °F)**

Approx. **0.31 kΩ (80 °C, 176 °F)**

Approx. **0.14 kΩ (110 °C, 230 °F)**

○ : PARTS LOCATION

| Code | See Page | Code | | See Page | Code | | See Page | |
|------|----------|------|----|----------|------|----|----------|----|
| A7 | 36 | H12 | B | 37 | J17 | | 37 | |
| A8 | 36 | H14 | D | 37 | J18 | | 37 | |
| B8 | 36 | I1 | | 35 | J22 | A | 37 | |
| C1 | 34 | I2 | | 35 | J23 | B | 37 | |
| C2 | 34 | I3 | | 35 | J24 | A | 37 | |
| C6 | 34 | I4 | | 35 | J25 | B | 37 | |
| C10 | A | I5 | | 35 | J26 | | 37 | |
| C11 | B | I6 | | 35 | K1 | | 35 | |
| D2 | 36 | I7 | | 35 | M1 | | 35 | |
| E1 | 34 | I8 | | 35 | N1 | | 35 | |
| E7 | A | I15 | | 37 | O1 | | 35 | |
| E8 | B | J1 | | 37 | S3 | | 37 | |
| E9 | C | 36 | J4 | A | 37 | T2 | | 35 |
| E10 | D | 36 | J5 | B | 37 | T3 | | 35 |
| F12 | C | 34 | J7 | | 37 | V1 | | 35 |
| F13 | D | 34 | J8 | A | 37 | V2 | | 35 |
| F16 | 38 | J9 | B | 37 | V3 | | 35 | |
| F18 | 38 | J11 | | 37 | V4 | | 39 | |
| G1 | 37 | J14 | A | 37 | V5 | | 39 | |
| H3 | 34 | J15 | B | 37 | V6 | | 39 | |
| H9 | 37 | J16 | | 37 | | | | |

ENGINE CONTROL



: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1A | 27 | Engine Wire and Engine Room J/B (Engine Compartment Left) |
| 1B | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 1F | | |
| 1J | | |
| 1K | | |
| 2A | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2B | | |
| 2C | | |
| 2D | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |



: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|---|
| EA1 | 40 | Engine Wire and Engine No.4 Wire (Near the Radiator Fan) |
| IA1 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| IA2 | | |
| ID1 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |
| ID2 | | |
| IE1 | 42 | Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel) |
| IK1 | 44 | Engine Wire and Engine Room Main Wire (Right Kick Panel) |
| IO1 | 44 | Engine Wire and Cowl Wire (Right Kick Panel) |
| BC1 | 46 | Cowl Wire and Fuel Tank Wire (Near the Fuel Tank) |



: GROUND POINTS

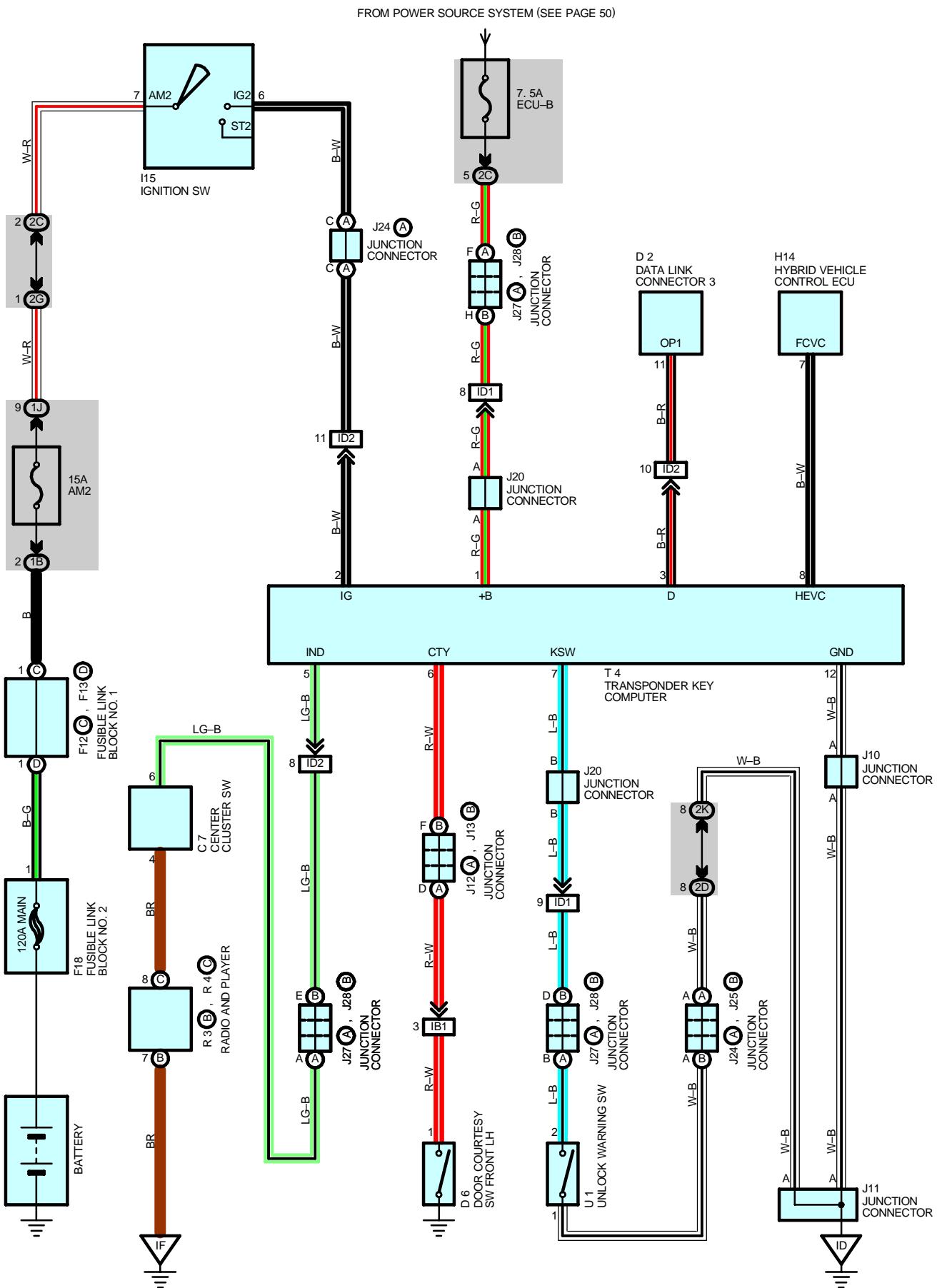
| Code | See Page | Ground Points Location |
|------|----------|------------------------|
| EA | 40 | Engine Block |
| EB | | |
| ID | 42 | Cowl Side Panel LH |
| IE | | |
| IG | 42 | Cowl Side Panel RH |
| IH | 42 | Right Kick Panel |
| BL | 46 | Near the Fuel Tank |



: SPLICE POINTS

| Code | See Page | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|----------|---------------------------------|
| E3 | 40 | Engine Wire | I6 | 44 | Instrument Panel Wire |
| E4 | | | I7 | 44 | Engine Wire |

HYBRID VEHICLE IMMOBILISER SYSTEM



SERVICE HINTS**T4 TRANSPONDER KEY COMPUTER**

1-GROUND : Always approx. **12** volts
 12-GROUND : Always continuity

U1 UNLOCK WARNING SW

1-2 : Closed with the ignition key in cylinder

 : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------------------|------|----------------------|------|----------------------|
| C7 | 36 | I15 | 37 | J25 | B 37 |
| D2 | 36 | J10 | 37 | J27 | A 37 |
| D6 | 38 | J11 | 37 | J28 | B 37 |
| F12 | C 34 | J12 | A 37 | R3 | B 37 |
| F13 | D 34 | J13 | B 37 | R4 | C 37 |
| F18 | 38 | J20 | 37 | T4 | 37 |
| H14 | 37 | J24 | A 37 | U1 | 37 |

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|--------------------|---|
| 1B | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 1J | | |
| 2C | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2D | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

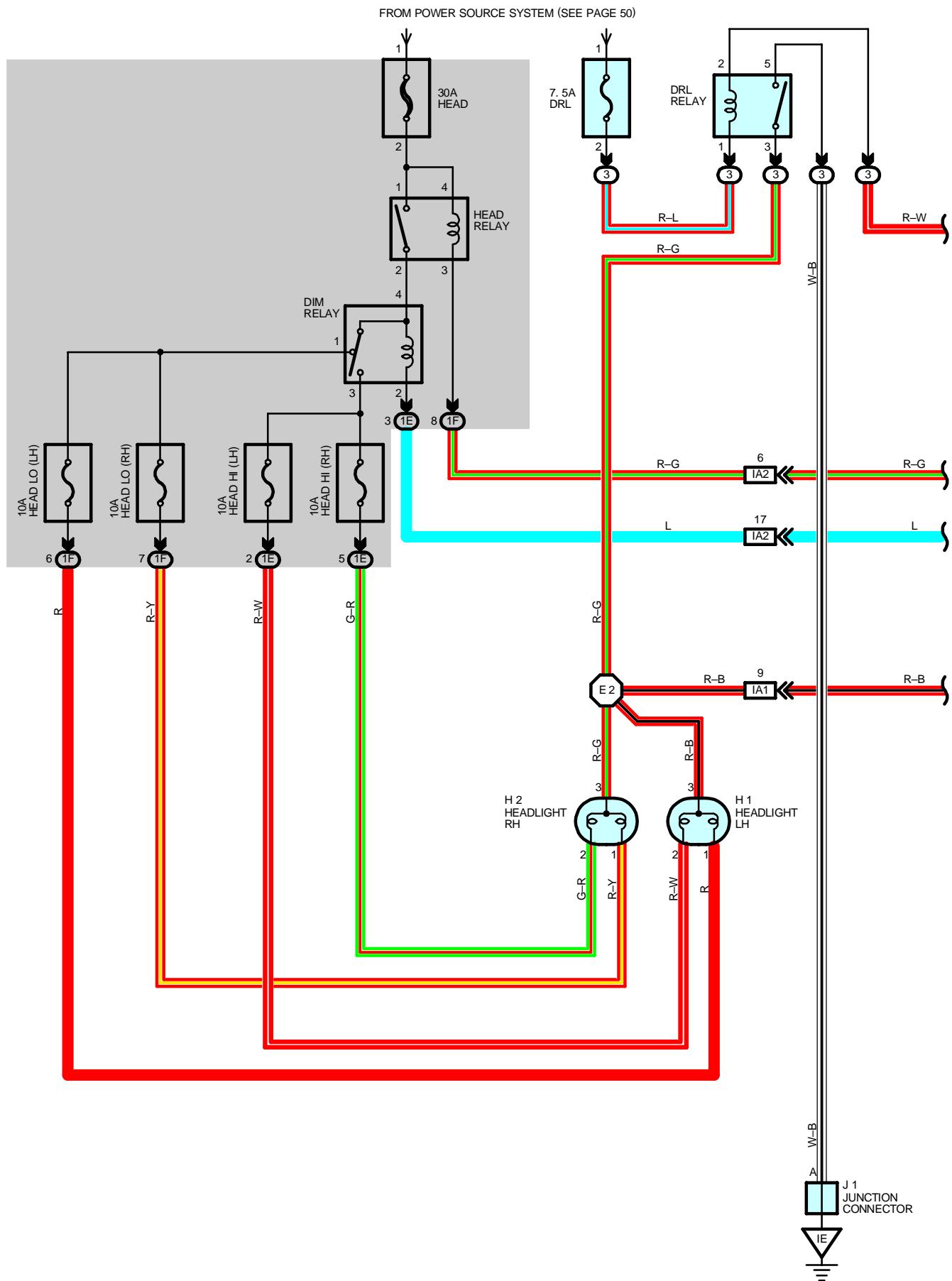
 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

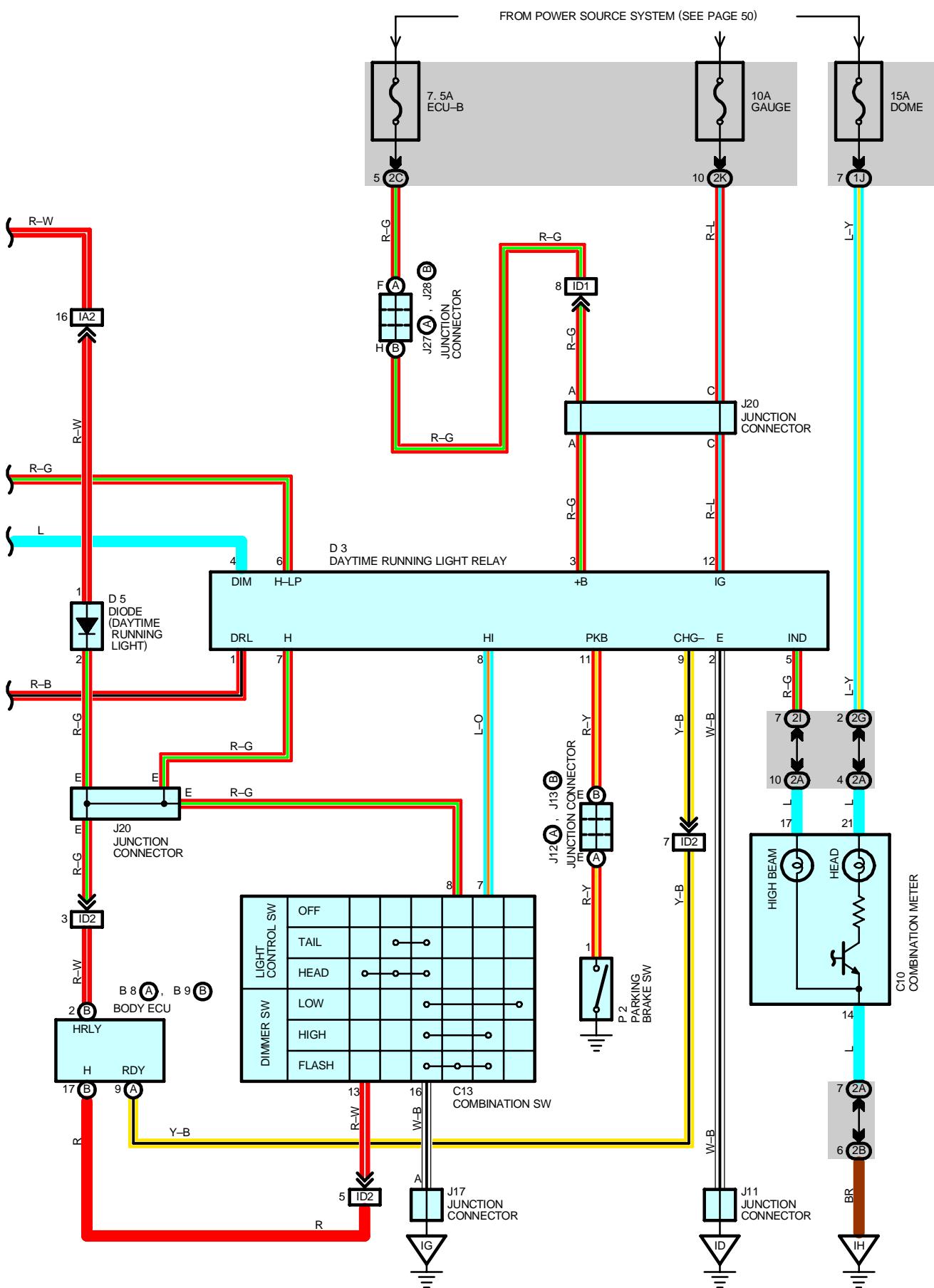
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|--------------------|--|
| IB1 | 42 | Floor Wire and Cowl Wire (Cowl Side Panel LH) |
| ID1 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |
| ID2 | | |

 : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|--------------------|------------------------|
| ID | 42 | Cowl Side Panel LH |
| IF | 42 | Left Kick Panel |

HEADLIGHT (w/ DAYTIME RUNNING LIGHT)





HEADLIGHT (w/ DAYTIME RUNNING LIGHT)

SYSTEM OUTLINE

When the ignition SW is turned on ST position and "READY" signal from engine control module is sent to the daytime running light relay via body ECU. If the parking brake pedal is depressed (Parking brake SW is on) at that time, the daytime running light system does not operate. If the parking brake pedal is released (Parking brake SW is off), the daytime running light system operates and the low beam headlight comes on.

SERVICE HINTS

HEAD RELAY

- 1-2 : Closed with the light control SW at **HEAD** position or the dimmer SW at **FLASH** position
Closed with the engine running and the parking brake lever is released (Parking brake SW off)

D3 DAYTIME RUNNING LIGHT RELAY

- 12-GROUND : Approx. **12** volts with the ignition SW at **ON** position
3-GROUND : Always approx. **12** volts
11-GROUND : Continuity with the parking brake lever pulled up
2-GROUND : Always continuity
8-GROUND : Continuity with the dimmer SW at **HIGH** or **FLASH** position

○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| B8 | A | 36 | H1 | 34 | J17 |
| B9 | B | 36 | H2 | 34 | J20 |
| C10 | | 36 | J1 | 37 | J27 |
| C13 | | 36 | J11 | 37 | A |
| D3 | | 36 | J12 | 37 | J28 |
| D5 | | 36 | J13 | B | P2 |
| | | | | | 37 |

○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location) |
|------|----------|---|
| 3 | 24 | Engine Room R/B No.3 (Engine Compartment Right) |

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1E | | |
| 1F | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 1J | | |
| 2A | | |
| 2B | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2C | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2I | 31 | |
| 2K | | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|--|
| IA1 | | |
| IA2 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| ID1 | | |
| ID2 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |

▽ : GROUND POINTS

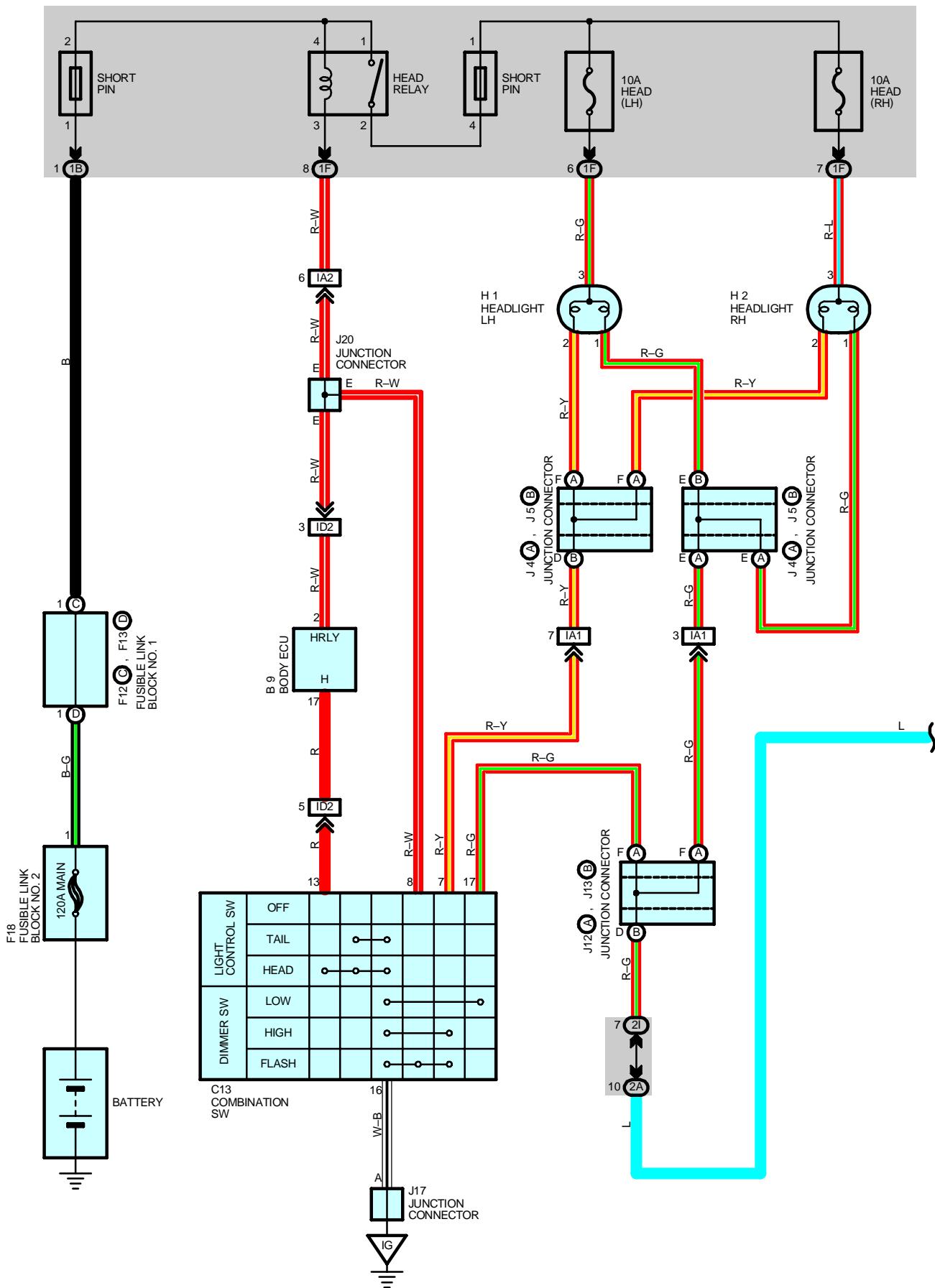
| Code | See Page | Ground Points Location |
|------|----------|------------------------|
| ID | | |
| IE | 42 | Cowl Side Panel LH |
| IG | 42 | Cowl Side Panel RH |
| IH | 42 | Right Kick Panel |



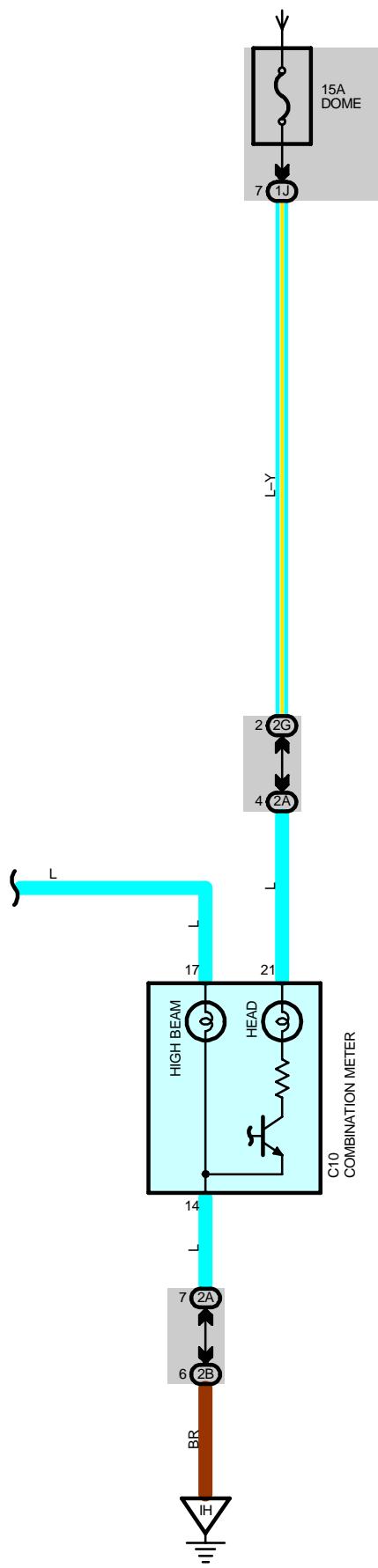
: SPLICE POINTS

| Code | See Page | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|----------|---------------------------------|
| E2 | 40 | Engine Room Main Wire | | | |

HEADLIGHT (w/o DAYTIME RUNNING LIGHT)



FROM POWER SOURCE SYSTEM (SEE PAGE 50)



HEADLIGHT (w/o DAYTIME RUNNING LIGHT)

SERVICE HINTS

HEAD RELAY

1–2 : Closed with the light control SW at **HEAD** position or the dimmer SW at **FLASH** position

C13 COMBINATION SW

13–16 : Continuity with the light control SW at **HEAD** position

8–16 : Continuity with the dimmer SW at **FLASH** position

7–16 : Continuity with the dimmer SW at **HIGH** or **FLASH** position

: PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|-------|--------------------|------|--------------------|------|----------------------|
| B9 | 36 | F18 | 38 | J12 | A 37 |
| C10 | 36 | H1 | 34 | J13 | B 37 |
| C13 | 36 | H2 | 34 | J17 | 37 |
| F12 C | 34 | J4 A | 37 | J20 | 37 |
| F13 D | 34 | J5 B | 37 | | |

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|--------------------|---|
| 1B | | |
| 1F | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 1J | | |
| 2A | | |
| 2B | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2I | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

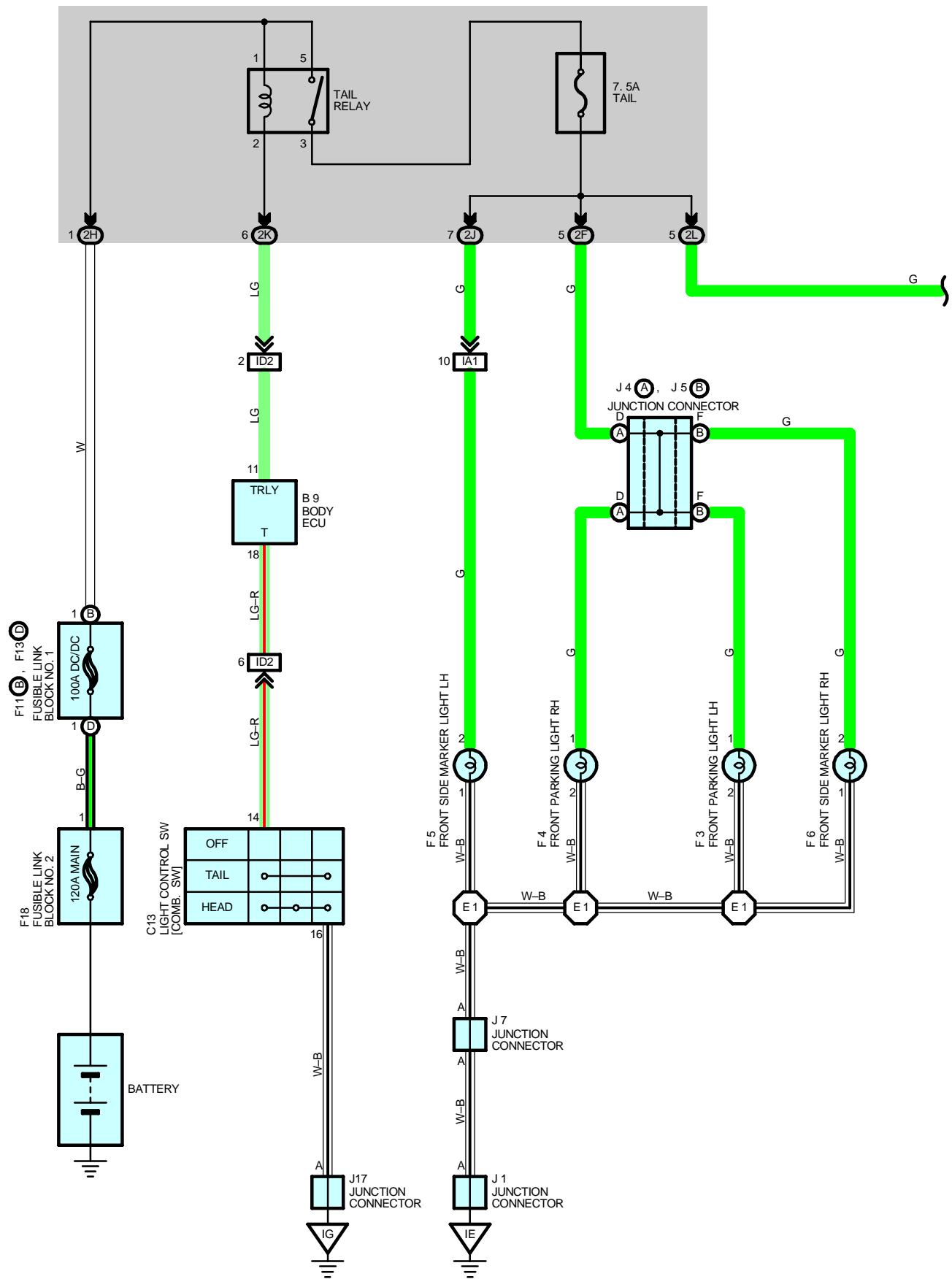
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

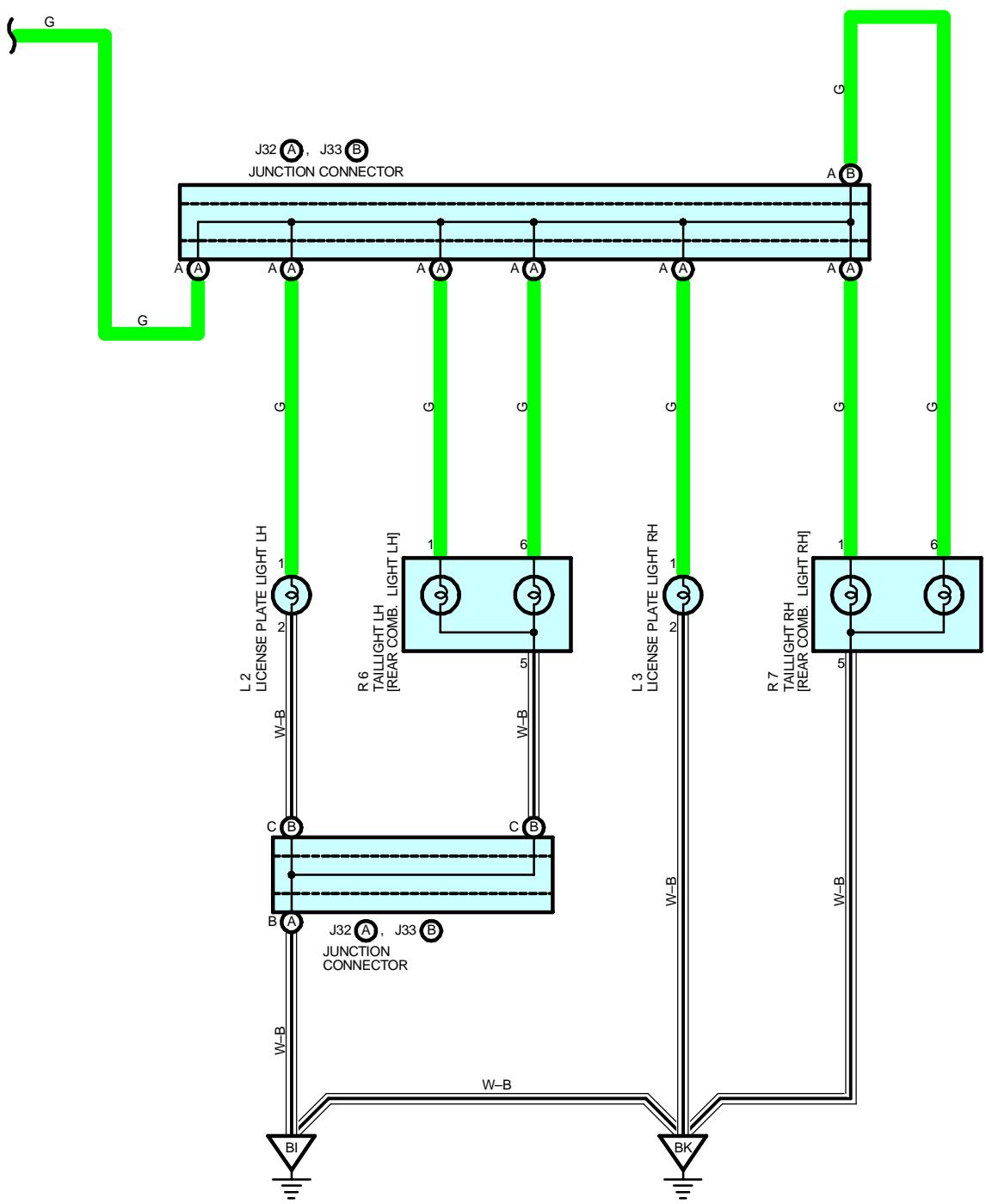
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|--------------------|--|
| IA1 | | |
| IA2 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| ID2 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |

: GROUND POINTS

| Code | See Page | Ground Points Location |
|------|--------------------|------------------------|
| IG | 42 | Cowl Side Panel RH |
| IH | 42 | Right Kick Panel |

TAILLIGHT





TAILLIGHT

SERVICE HINTS

TAIL RELAY

5–3 : Closed with the light control SW at **TAIL** or **HEAD** position

○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|-------|----------|-------|----------|-------|----------|
| B9 | 36 | F13 D | 34 | J32 A | 38 |
| C13 | 36 | F18 | 38 | J33 B | 38 |
| F3 | 34 | J1 | 37 | L2 | 38 |
| F4 | 34 | J4 A | 37 | L3 | 38 |
| F5 | 34 | J5 B | 37 | R6 | 39 |
| F6 | 34 | J7 | 37 | R7 | 39 |
| F11 B | 34 | J17 | 37 | | |

□ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 2F | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2H | | |
| 2J | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | | |
| 2L | 31 | Floor Wire and Instrument Panel J/B (Cowl Side Panel LH) |

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|--|
| IA1 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| ID2 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |

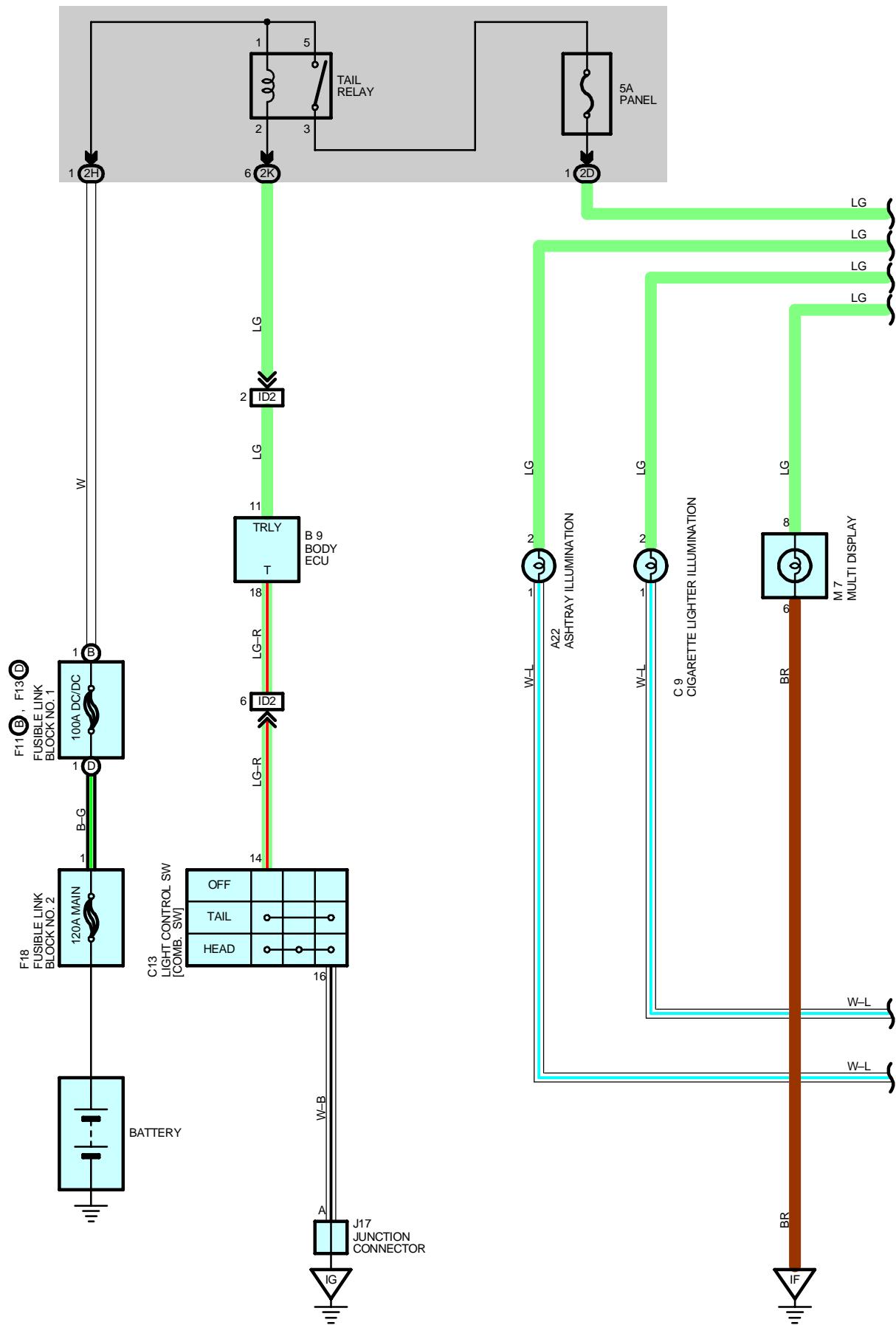
▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|----------|--------------------------|
| IE | 42 | Cowl Side Panel LH |
| IG | 42 | Cowl Side Panel RH |
| BI | 46 | Left Side of Rear Pillar |
| BK | 46 | Back Panel Center |

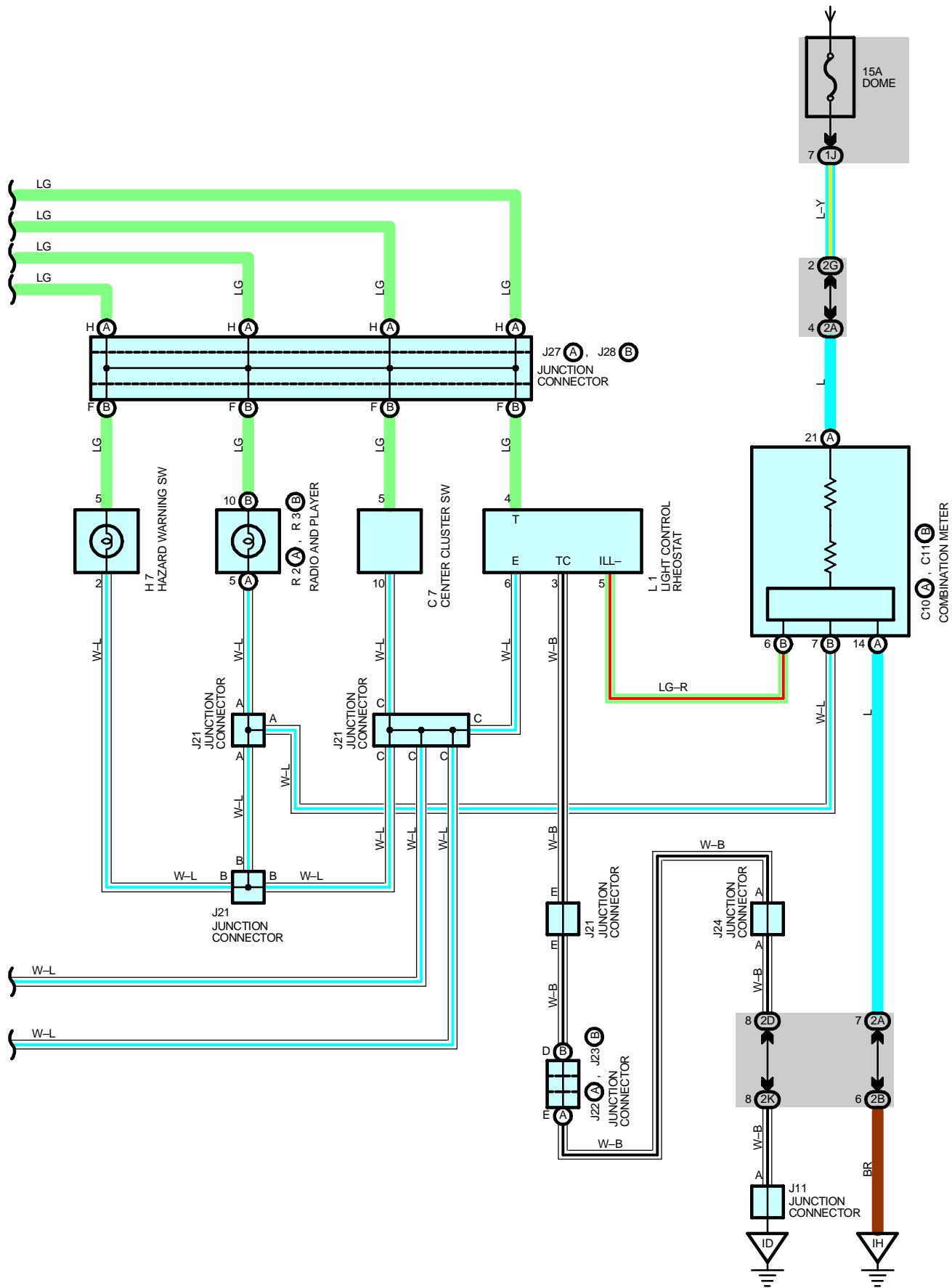
○ : SPLICE POINTS

| Code | See Page | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|----------|---------------------------------|
| E1 | 40 | Engine Room Main Wire | | | |

ILLUMINATION



FROM POWER SOURCE SYSTEM (SEE PAGE 50)



ILLUMINATION

SERVICE HINTS

TAIL RELAY

5–3 : Closed with the light control SW at **TAIL** or **HEAD** position

C13 COMBINATION SW

14–16 : Closed with the light control SW at **TAIL** or **HEAD** position

: PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|-------|----------|-------|----------|-------|----------|
| A22 | 36 | F13 D | 34 | J24 | 37 |
| B9 | 36 | F18 | 38 | J27 A | 37 |
| C7 | 36 | H7 | 37 | J28 B | 37 |
| C9 | 36 | J11 | 37 | L1 | 37 |
| C10 A | 36 | J17 | 37 | M7 | 37 |
| C11 B | 36 | J21 | 37 | R2 A | 37 |
| C13 | 36 | J22 A | 37 | R3 B | 37 |
| F11 B | 34 | J23 B | 37 | | |

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2A | | |
| 2B | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2D | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2H | | |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

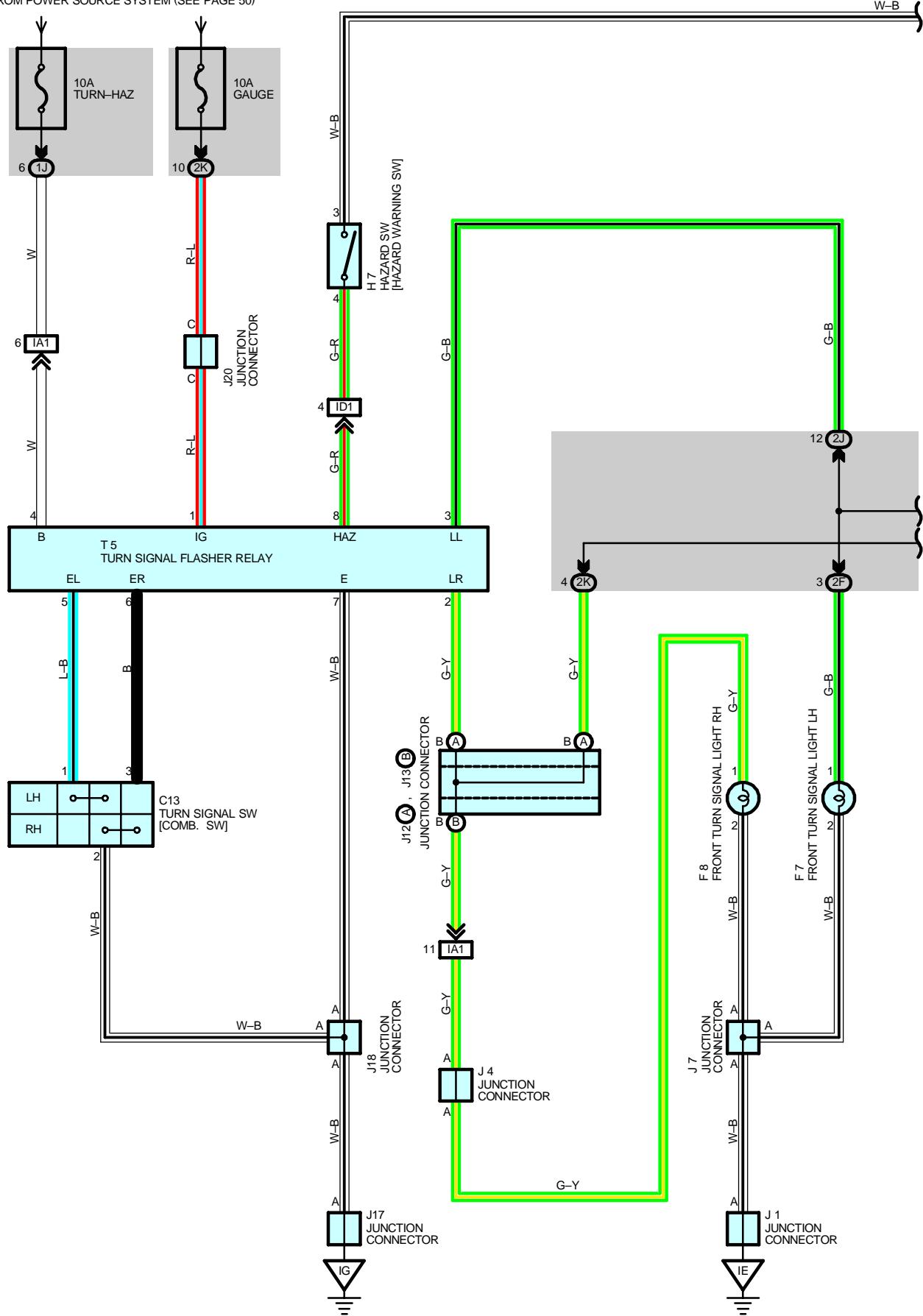
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|--|
| ID2 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |

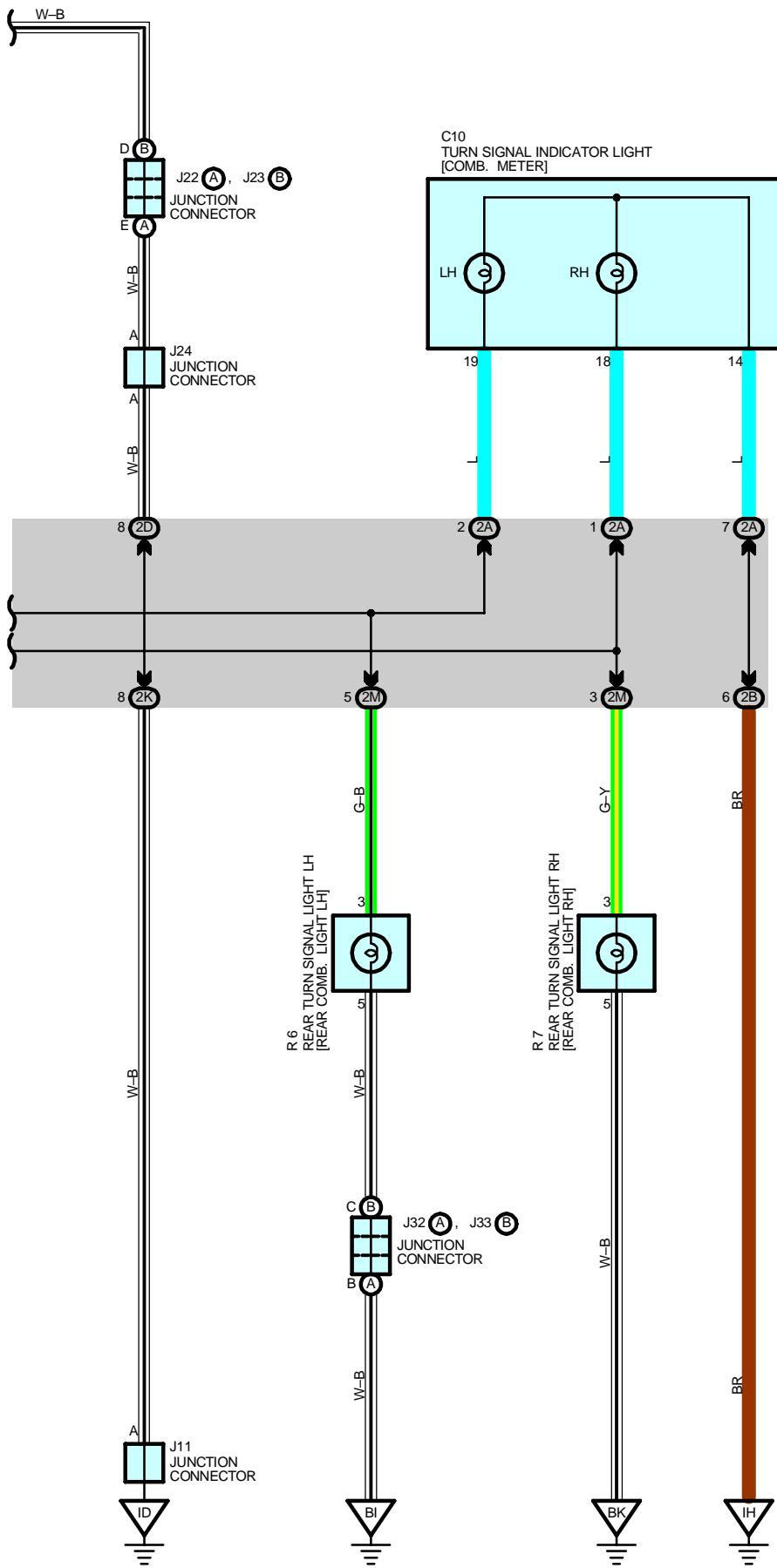
: GROUND POINTS

| Code | See Page | Ground Points Location |
|------|----------|------------------------|
| ID | 42 | Cowl Side Panel LH |
| IF | 42 | Left Kick Panel |
| IG | 42 | Cowl Side Panel RH |
| IH | 42 | Right Kick Panel |

TURN SIGNAL AND HAZARD WARNING LIGHT

FROM POWER SOURCE SYSTEM (SEE PAGE 50)





TURN SIGNAL AND HAZARD WARNING LIGHT

SERVICE HINTS

T5 TURN SIGNAL FLASHER RELAY

- 1-GROUND : Approx. **12** volts with the ignition SW at **ON** position
- 4-GROUND : Always approx. **12** volts
- 2, 3-GROUND : Changes from approx. **12** to **0** volts with the ignition SW at **ON** position and the turn signal SW at **LEFT** or **RIGHT** position or the hazard SW at **ON** position
- 5-GROUND : Continuity with the ignition SW at **ON** position and the turn signal SW at **LEFT** position
- 6-GROUND : Continuity with the ignition SW at **ON** position and the turn signal SW at **RIGHT** position
- 8-GROUND : Continuity with the hazard SW at **ON** position
- 7-GROUND : Always continuity

: PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|--------------------|------|--------------------|--------------------|--------------------|
| C10 | 36 | J11 | 37 | J24 | 37 |
| C13 | 36 | J12 | A | J32 | A |
| F7 | 34 | J13 | B | J33 | B |
| F8 | 34 | J17 | 37 | R6 | 39 |
| H7 | 37 | J18 | 37 | R7 | 39 |
| J1 | 37 | J20 | 37 | T5 | 37 |
| J4 | 37 | J22 | A | | |
| J7 | 37 | J23 | B | 37 | |

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|--------------------|---|
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2A | | |
| 2B | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2D | | |
| 2F | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2J | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | | |
| 2M | 31 | Floor Wire and Instrument Panel J/B (Cowl Side Panel LH) |

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

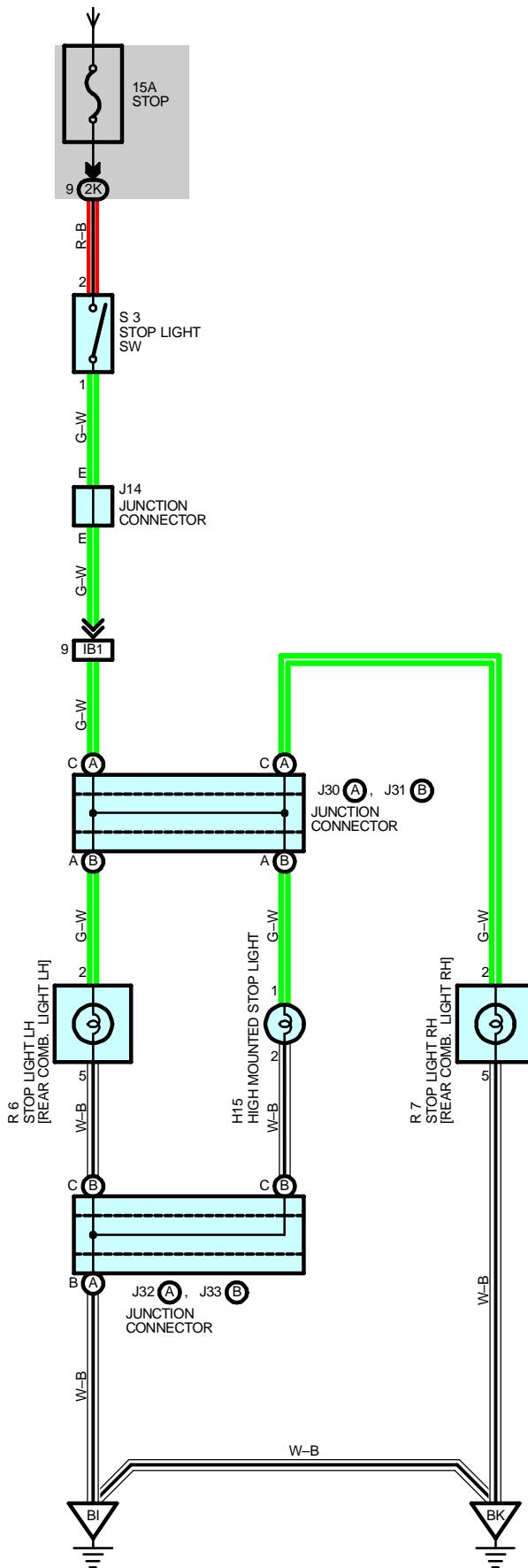
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|--------------------|--|
| IA1 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| ID1 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |

: GROUND POINTS

| Code | See Page | Ground Points Location |
|------|--------------------|--------------------------|
| ID | 42 | Cowl Side Panel LH |
| IE | | |
| IG | 42 | Cowl Side Panel RH |
| IH | 42 | Right Kick Panel |
| BI | 46 | Left Side of Rear Pillar |
| BK | 46 | Back Panel Center |

STOP LIGHT

FROM POWER SOURCE SYSTEM (SEE PAGE 50)



SERVICE HINTS**S3 STOP LIGHT SW**

2-1 : Closed with the brake pedal depressed

O : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| H15 | 38 | J31 | B | 38 | 39 |
| J14 | 37 | J32 | A | 38 | 39 |
| J30 | A | J33 | B | 38 | 37 |

O : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

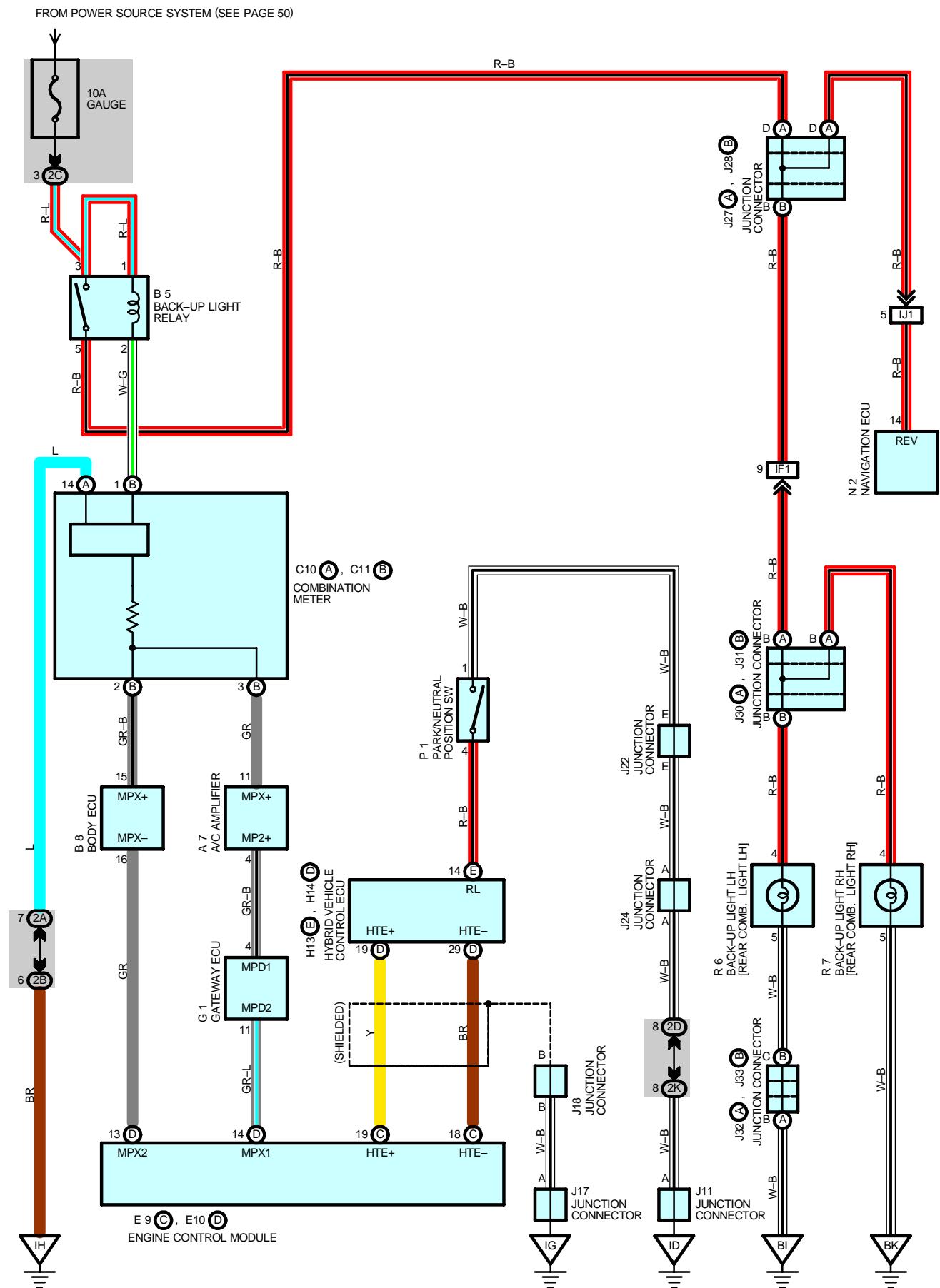
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|--|
| IB1 | 42 | Floor Wire and Cowl Wire (Cowl Side Panel LH) |

▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|----------|--------------------------|
| BI | 46 | Left Side of Rear Pillar |
| BK | 46 | Back Panel Center |

BACK-UP LIGHT



SERVICE HINTS**P1 PARK/NEUTRAL POSITION SW**4-1 : Closed with the shift lever at **R** position**B5 BACK-UP LIGHT RELAY**3-5 : Closed with the shift lever at **R** position**O : PARTS LOCATION**

| Code | See Page | Code | See Page | Code | See Page |
|-------|----------|-------|----------|-------|----------|
| A7 | 36 | H14 D | 37 | J31 B | 38 |
| B5 | 36 | J11 | 37 | J32 A | 38 |
| B8 | 36 | J17 | 37 | J33 B | 38 |
| C10 A | 36 | J18 | 37 | N2 | 39 |
| C11 B | 36 | J22 | 37 | P1 | 37 |
| E9 C | 36 | J24 | 37 | R6 | 39 |
| E10 D | 36 | J27 A | 37 | R7 | 39 |
| G1 | 37 | J28 B | 37 | | |
| H13 E | 37 | J30 A | 38 | | |

O : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 2A | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2B | | |
| 2C | | |
| 2D | | |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

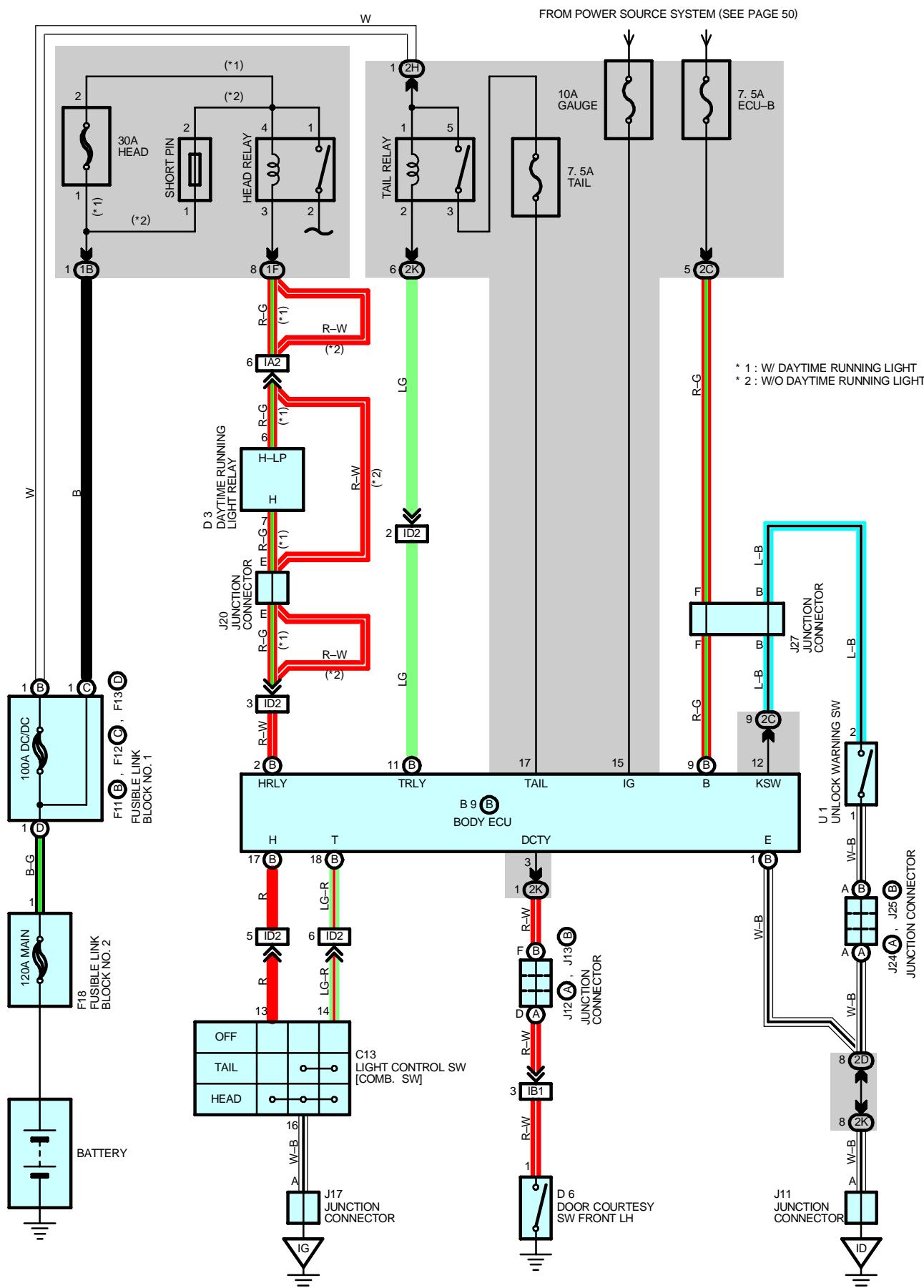
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|---|
| IF1 | 42 | Instrument Panel Wire and Floor Wire (Left Kick Panel) |
| IJ1 | 44 | Floor No.3 Wire and Instrument Panel Wire (Under the Instrument Panel Center) |

▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|----------|--------------------------|
| ID | 42 | Cowl Side Panel LH |
| IG | 42 | Cowl Side Panel RH |
| IH | 42 | Right Kick Panel |
| BI | 46 | Left Side of Rear Pillar |
| BK | 46 | Back Panel Center |

LIGHT AUTO TURN OFF



SYSTEM OUTLINE

With the ignition SW turned on, the current flows to TERMINAL 15 of the body ECU through GAUGE fuse. Voltage is applied at all times to TERMINAL (A) 11 of the body ECU through the TAIL relay. Coil side, and to TERMINAL (A) 2 through the HEAD relay coil side (w/o daytime running light) or through the daytime running light relay (w/ daytime running light).

1. NORMAL LIGHTING OPERATION

<Turn taillight on>

With the light control SW turned to TAIL position, a signal is input into TERMINAL (A) 18 of the body ECU. Due to this signal, the current flowing to TERMINAL (A) 11 of the body ECU flows to TERMINAL (A) 18 to TERMINAL 14 of the light control SW to TERMINAL 16 to GROUND, and taillight relay causes taillights to turn on.

<Turn headlight on>

With the light control SW turned to HEAD position, a signal is input into TERMINALS (A) 17 and (A) 18 of the body ECU. Due to this signal, the current flowing to TERMINAL (A) 2 of the body ECU flows to TERMINAL (A) 17 to TERMINAL 13 of the light control SW to TERMINAL 16 to GROUND in the headlight circuit, and causes taillight and HEAD relay to turn the lights on. The taillight circuit is same as above.

2. LIGHT AUTO TURN OFF OPERATION

With light on and ignition SW turned off (Input signal goes to TERMINAL 15 of the body ECU), when the driver's door is opened (Input signal goes to TERMINAL 3 of the body ECU), the ECU operates and the current is cut off which flows from TERMINAL (A) 11 of the body ECU to TERMINAL (A) 18 in taillight circuit and from TERMINAL (A) 2 to TERMINAL (A) 17 in headlight circuit.

As a result, all lights are turned off automatically.

SERVICE HINTS

HEAD RELAY

2-1 : Closed with the light control SW at **HEAD** position or the dimmer SW at **FLASH** position

Closed with the engine running and the parking brake lever released (Parking brake SW off) [w/ daytime running light]

TAIL RELAY

3-5 : Closed with the light control SW at **TAIL** or **HEAD** position

D6 DOOR COURTESY SW LH

1-GROUND : Continuity with the front LH door open

B8 (A), B9 (B) BODY ECU

15-GROUND : Approx. **12** volts with the ignition SW at **ON** position

3-GROUND : Continuity with the front LH door open

(B) 9-GROUND : Always approx. **12** volts

(A) 1-GROUND : Always continuity

(A) 2-GROUND : Continuity with the light control SW at **HEAD** position

(A) 11-GROUND : Continuity with the light control SW at **TAIL** or **HEAD** position

○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| B9 | B | 36 | F13 | D | 34 |
| C13 | | 36 | F18 | 38 | J20 |
| D3 | | 36 | J11 | 37 | A |
| D6 | | 38 | J12 | A | 37 |
| F11 | B | 34 | J13 | B | U1 |
| F12 | C | 34 | J17 | 37 | |

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1B | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 1F | | |
| 2C | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2D | | |
| 2H | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

LIGHT AUTO TURN OFF

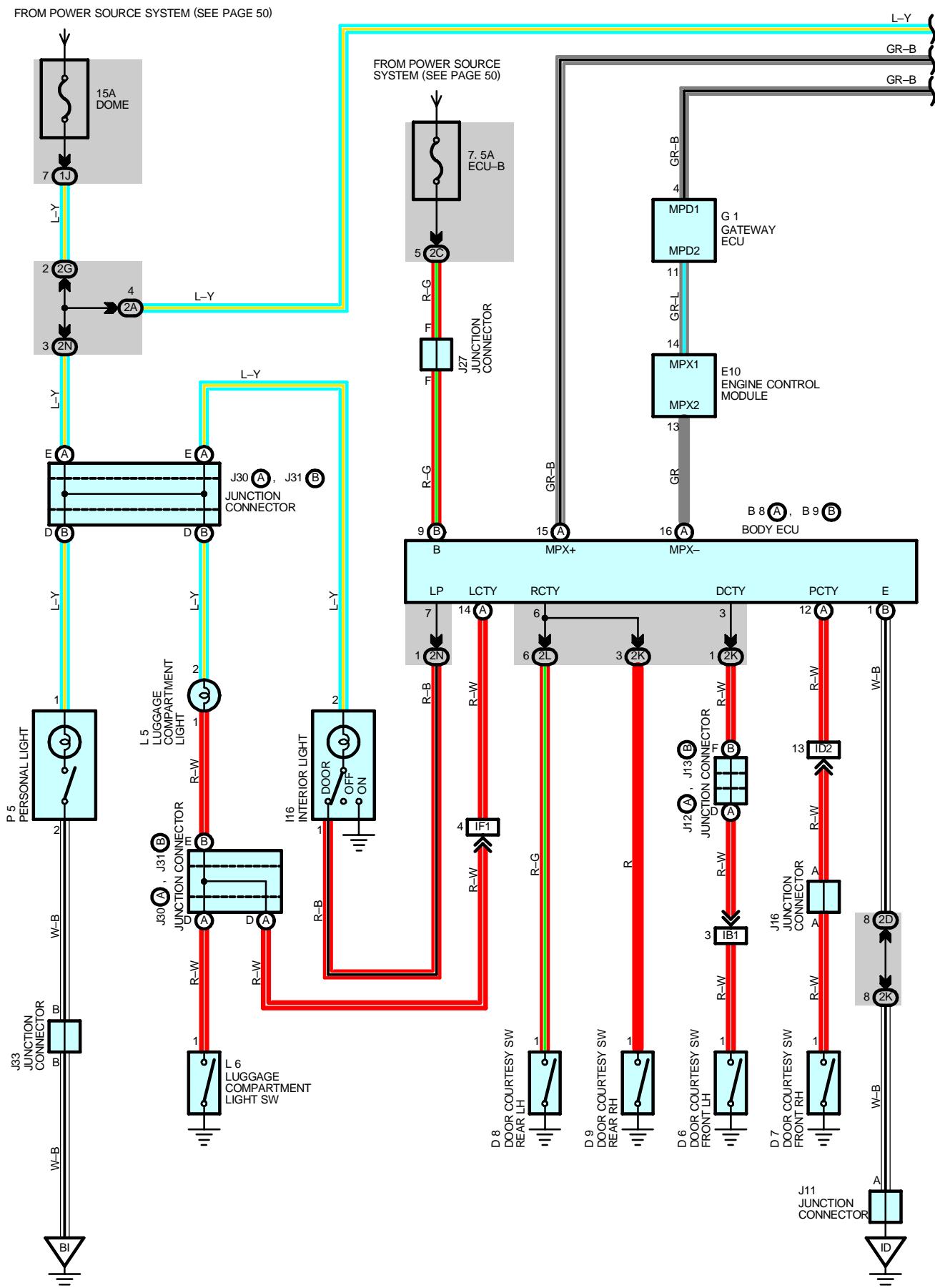
 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

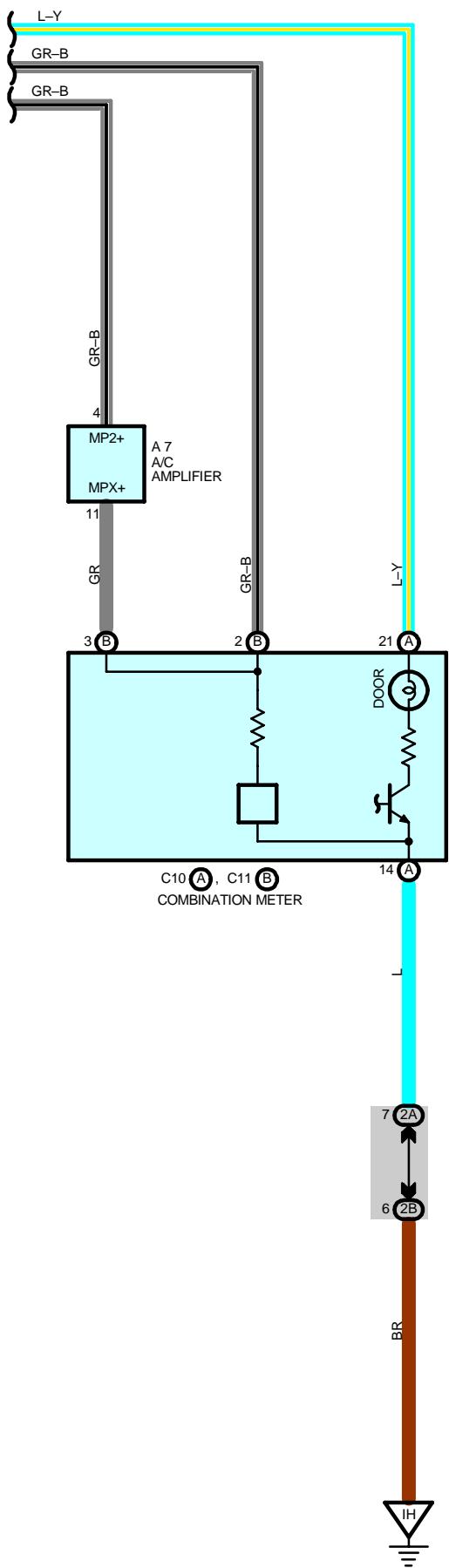
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|--------------------|--|
| IA2 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| IB1 | 42 | Floor Wire and Cowl Wire (Cowl Side Panel LH) |
| ID2 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |

 : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|--------------------|------------------------|
| ID | 42 | Cowl Side Panel LH |
| IG | 42 | Cowl Side Panel RH |

INTERIOR LIGHT





INTERIOR LIGHT

SERVICE HINTS

B8 (A), B9 (B) BODY ECU

3-GROUND : Continuity with front LH door open

6-GROUND : Continuity with rear LH, RH door open

(A)14-GROUND : Continuity with front RH door open

(B) 9-GROUND : Always approx. 12 volts

L6 LUGGAGE COMPARTMENT LIGHT SW

1-GROUND : Closed with the luggage compartment door open

○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| A7 | 36 | D9 | 38 | J27 | 37 |
| B8 | A | E10 | 36 | J30 | A |
| B9 | B | G1 | 37 | J31 | B |
| C10 | A | I16 | 38 | J33 | 38 |
| C11 | B | J11 | 37 | L5 | 38 |
| D6 | 38 | J12 | A | L6 | 38 |
| D7 | 38 | J13 | B | P5 | 39 |
| D8 | 38 | J16 | 37 | | |

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2A | | |
| 2B | | |
| 2C | | |
| 2D | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2L | | |
| 2N | 31 | Floor Wire and Instrument Panel J/B (Cowl Side Panel LH) |

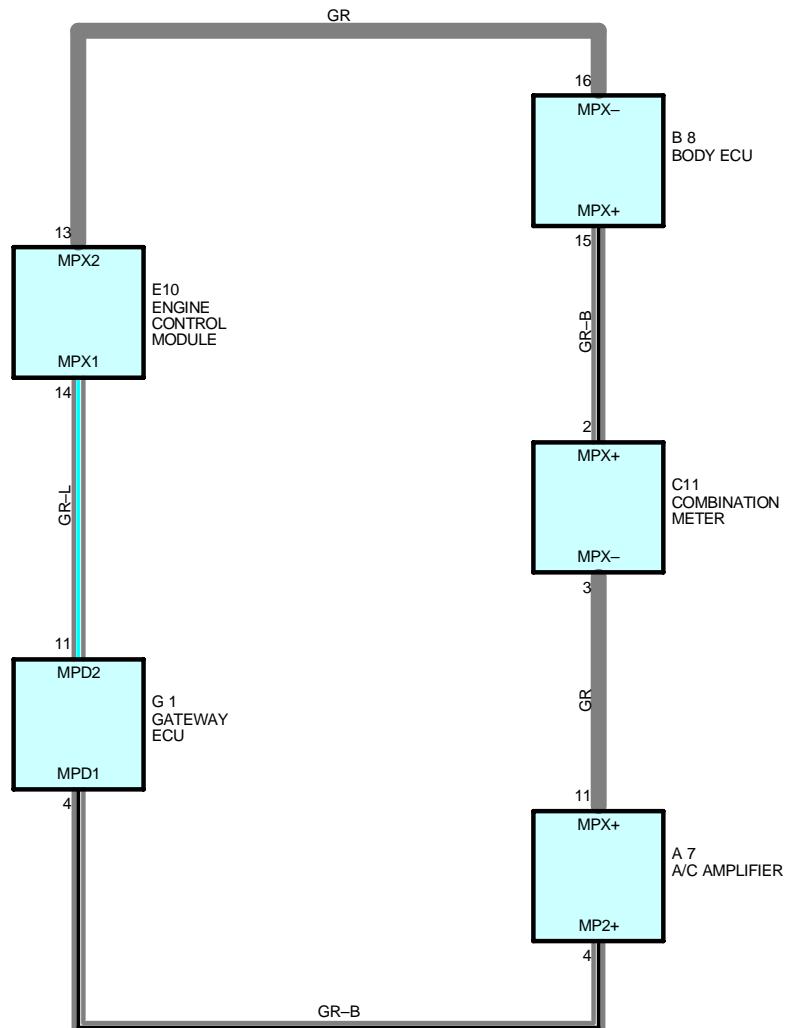
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|--|
| IB1 | 42 | Floor Wire and Cowl Wire (Cowl Side Panel LH) |
| ID2 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |
| IF1 | 42 | Instrument Panel Wire and Floor Wire (Left Kick Panel) |

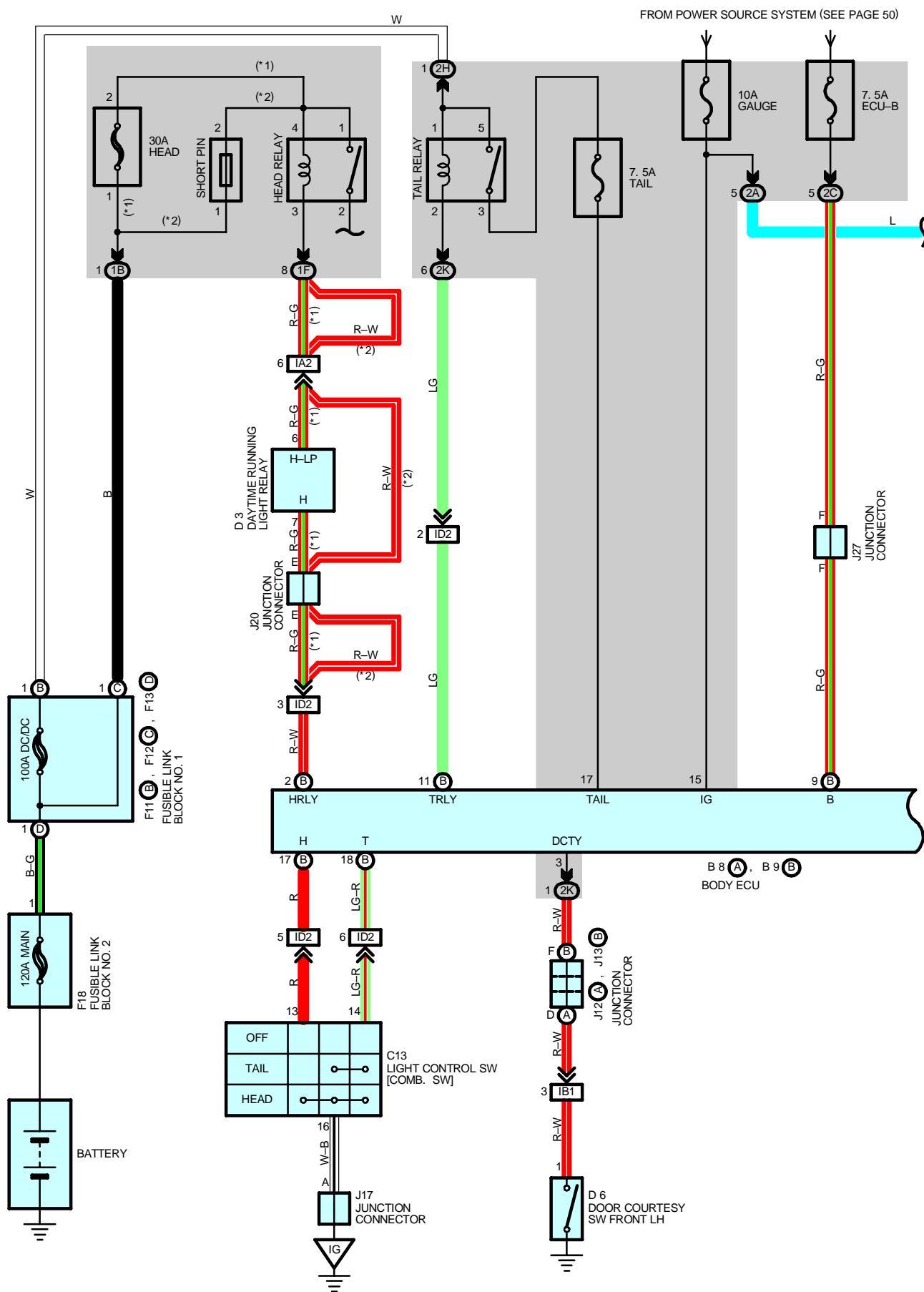
▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|----------|--------------------------|
| ID | 42 | Cowl Side Panel LH |
| IH | 42 | Right Kick Panel |
| BI | 46 | Left Side of Rear Pillar |

MULTIPLEX COMMUNICATION SYSTEM (COMMUNICATION BUS)

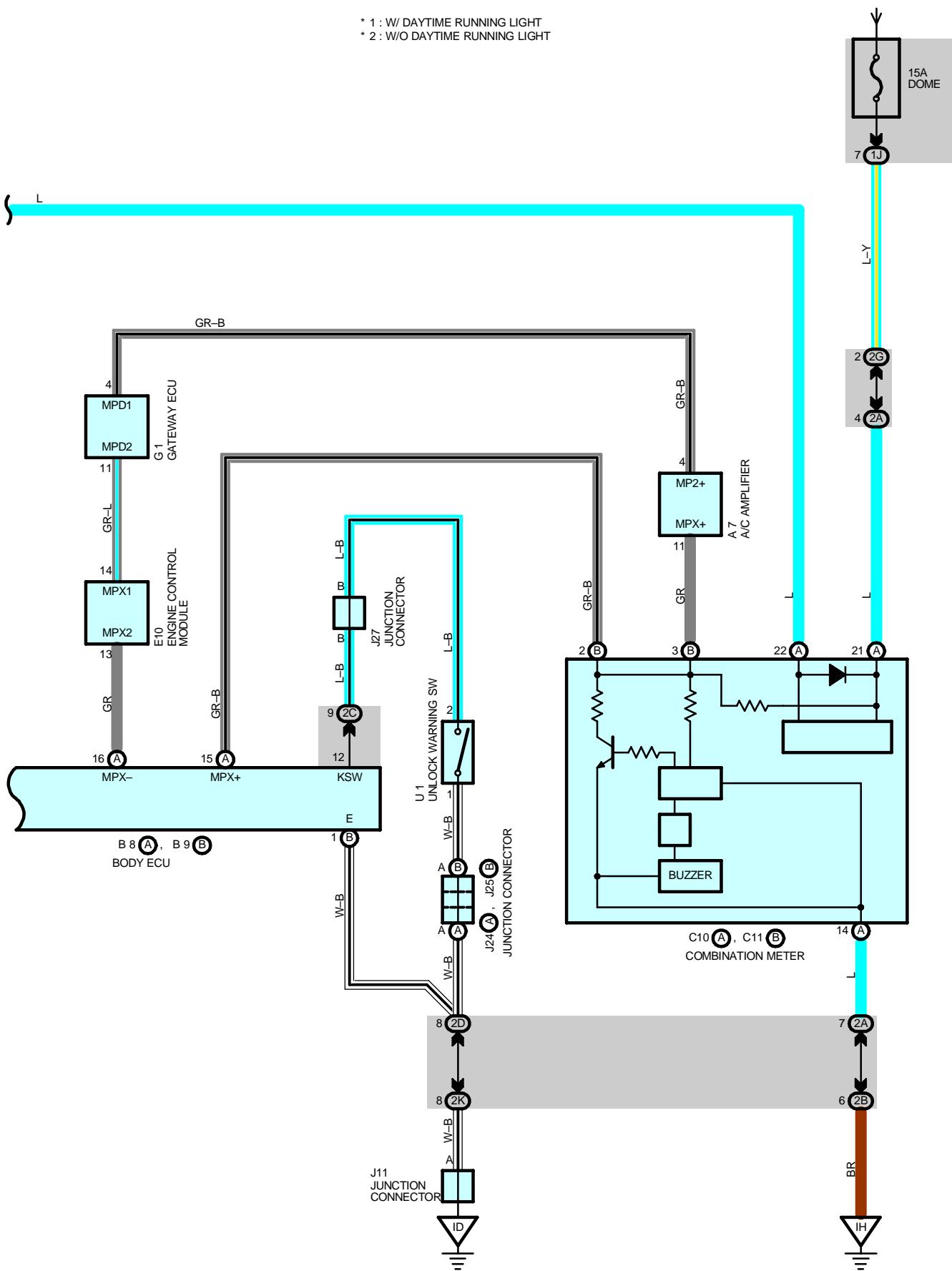


KEY REMINDER AND LIGHT REMINDER BUZZER



FROM POWER SOURCE SYSTEM (SEE PAGE 50)

* 1 : W/ DAYTIME RUNNING LIGHT
 * 2 : W/O DAYTIME RUNNING LIGHT



KEY REMINDER AND LIGHT REMINDER BUZZER

SYSTEM OUTLINE

The current always flows from GAUGE fuse to body ECU TERMINAL 15.

1. LIGHT REMINDER BUZZER SYSTEM

If you open the door of the driver's side when either headlight or taillight is on with ignition SW being off, the buzzer comes on.

2. KEY REMINDER BUZZER SYSTEM

If you open the door of the driver's side when the ignition key is inserted in ignition SW being off, the buzzer comes on.

SERVICE HINTS

B8 (A), B9 (B) BODY ECU

(B) 9-GROUND : Always approx. **12** volts

(A) 1-GROUND : Always continuity

12-GROUND : Continuity with the ignition key in cylinder

D6 DOOR COURTESY SW FRONT LH

1-GROUND : Closed with the driver's door open

C10 (A) COMBINATION METER

(A)22-GROUND : Approx. **12** volts with the ignition SW at **ON** position

(A)21-GROUND : Always approx. **12** volts

(A)14-GROUND : Always continuity

○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|-------|----------|-------|----------|------|----------|
| A7 | 36 | E10 | 36 | J13 | B 37 |
| B8 A | 36 | F11 B | 34 | J17 | 37 |
| B9 B | 36 | F12 C | 34 | J20 | 37 |
| C10 A | 36 | F13 D | 34 | J24 | A 37 |
| C11 B | 36 | F18 | 38 | J25 | B 37 |
| C13 | 36 | G1 | 37 | J27 | 37 |
| D3 | 36 | J11 | 37 | U1 | 37 |
| D6 | 38 | J12 A | 37 | | |

□ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1B | | |
| 1F | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 1J | | |
| 2A | | |
| 2B | | |
| 2C | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2D | | |
| 2G | | |
| 2H | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

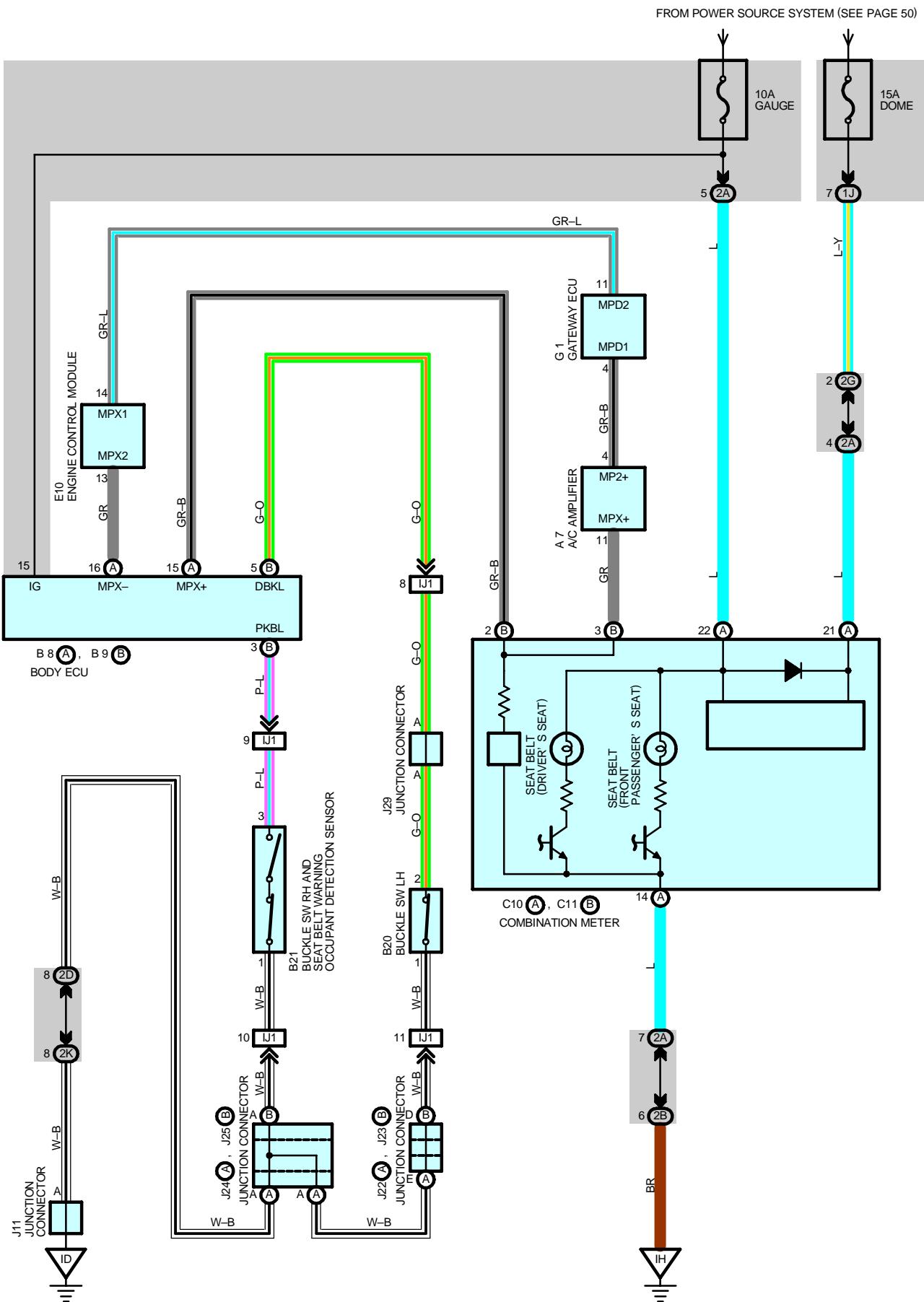
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|--|
| IA2 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| IB1 | 42 | Floor Wire and Cowl Wire (Cowl Side Panel LH) |
| ID2 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |



: GROUND POINTS

| Code | See Page | Ground Points Location |
|------|--------------------|------------------------|
| ID | 42 | Cowl Side Panel LH |
| IG | 42 | Cowl Side Panel RH |
| IH | 42 | Right Kick Panel |

SEAT BELT WARNING



SYSTEM OUTLINE

When the driver has not fastened the seat belt while the ignition SW is ON, the driver seat belt warning light blinks, and a warning buzzer comes on.
Also, in the front passenger seat, a sensor recognizes a passenger, and when the passenger has not fastened the seat belt, the front passenger seat belt warning light blinks.

SERVICE HINTS

B20 BUCKLE SW LH

1–2 : Closed with driver's seat belt in use

○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| A7 | 36 | C10 | A | 36 | J22 A 37 |
| B8 | A 36 | C11 | B | 36 | J23 B 37 |
| B9 | B 36 | E10 | 36 | J24 | A 37 |
| B20 | 38 | G1 | 37 | J25 | B 37 |
| B21 | 38 | J11 | 37 | J29 | 37 |

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2A | | |
| 2B | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2D | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

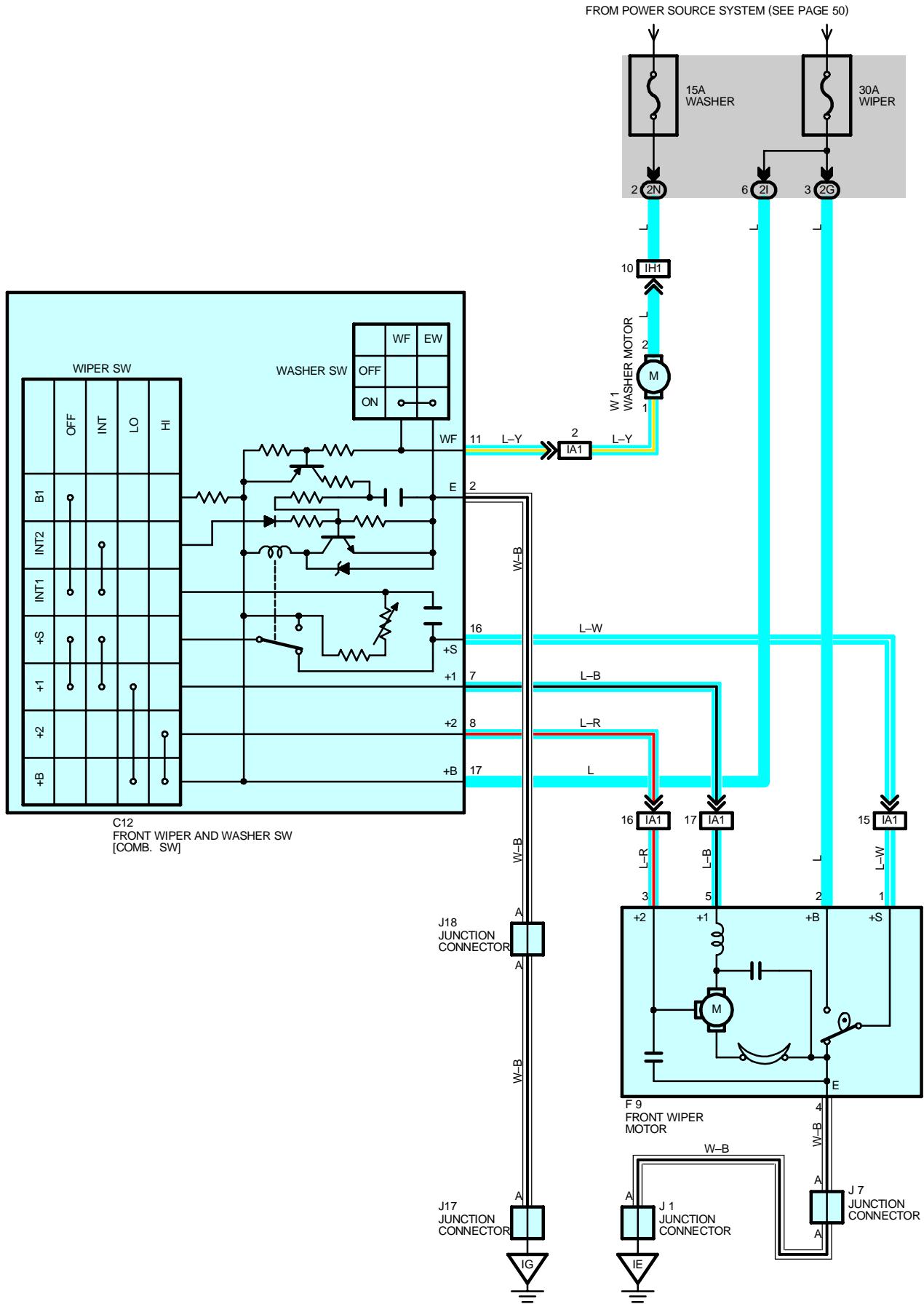
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|---|
| IJ1 | 44 | Floor No.3 Wire and Instrument Panel Wire (Under the Instrument Panel Center) |

▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|----------|------------------------|
| ID | 42 | Cowl Side Panel LH |
| IH | 42 | Right Kick Panel |

WIPER AND WASHER



SYSTEM OUTLINE

When the ignition SW is turned ON, the current flows from WIPER fuse to wiper and washer SW TERMINAL 17 and front wiper motor TERMINAL 2 or the current flows from WASHER fuse to washer motor TERMINAL 2.

1. LO POSITION

When the wiper and washer SW is at LO position, the current flows from wiper and washer SW TERMINAL 17 to TERMINAL 7 to front wiper motor TERMINAL 5 to TERMINAL 4 to GROUND, and the front wiper motor runs at low speed.

2. HI POSITION

When the wiper and washer SW is at HI position, the current flows from wiper and washer SW TERMINAL 17 to TERMINAL 8 to front wiper motor TERMINAL 3 to TERMINAL 4 to GROUND, and the front wiper motor runs at high speed.

3. INT POSITION

When the wiper and washer SW is at INT position, the wiper relay is activated and the current flows from wiper and washer SW TERMINAL 17 to TERMINAL 2 to GROUND. This current activates the intermittent circuit, and the current flows from wiper and washer SW TERMINAL 17 to TERMINAL 7 to front wiper motor TERMINAL 5 to TERMINAL 4 to GROUND, and operates the front wipers.

4. WASHER CONTINUOUS OPERATION

When the wiper and washer SW is pulled to WASHER position (Washer SW ON position), the current from the WASHER fuse flows to washer motor TERMINAL 2 to TERMINAL 1 to wiper and washer SW TERMINAL 11 to TERMINAL 2 to GROUND, and operates the washer motor to emit a water spray. At the same time, the current flows from the WIP fuse to wiper and washer SW TERMINAL 17 to TERMINAL 7 to front wiper motor TERMINAL 5 to TERMINAL 4 to GROUND, and operates the front wiper motor.

SERVICE HINTS

C12 FRONT WIPER AND WASHER SW

2-GROUND : Always continuity

7-GROUND : Approx. 12 volts with the front wiper and washer SW at **LO** position

 Approx. 2 to 12 seconds intermittently with the front wiper and washer SW at **INT** position

8-GROUND : Approx. 12 volts with the front wiper and washer SW at **HI** position

16-GROUND : Approx. 12 volts with the ignition SW on unless the front wiper motor at **STOP** position

17-GROUND : Approx. 12 volts the ignition SW at **ON** or **ST** position

F9 FRONT WIPER MOTOR

2-1 : Closed unless the wiper motor at **STOP** position

○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| C12 | 36 | J7 | 37 | W1 | 35 |
| F9 | 34 | J17 | 37 | | |
| J1 | 37 | J18 | 37 | | |

□ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2I | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2N | 31 | Floor Wire and Instrument Panel J/B (Cowl Side Panel LH) |

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

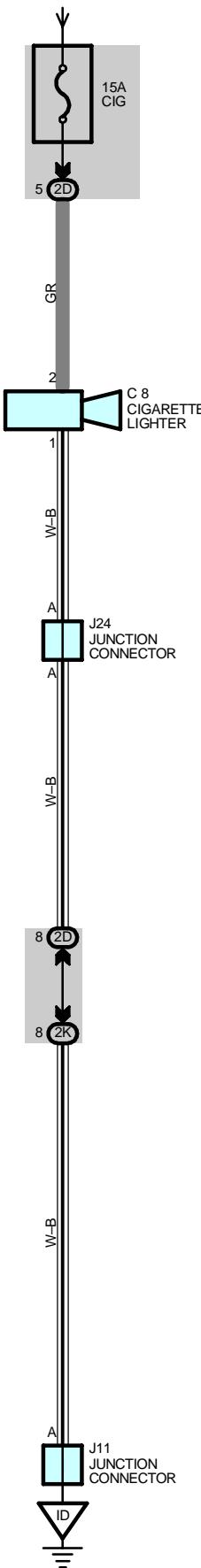
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|--|
| IA1 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| IH1 | 42 | Floor Wire and Engine Room Main Wire (Left Kick Panel) |

▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|----------|------------------------|
| IE | 42 | Cowl Side Panel LH |
| IG | 42 | Cowl Side Panel RH |

CIGARETTE LIGHTER

FROM POWER SOURCE SYSTEM (SEE PAGE 50)



SERVICE HINTS**C8 CIGARETTE LIGHTER**2-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position

1-GROUND : Always continuity

O : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|--------------------|------|--------------------|------|--------------------|
| C8 | 36 | J11 | 37 | J24 | 37 |

O : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

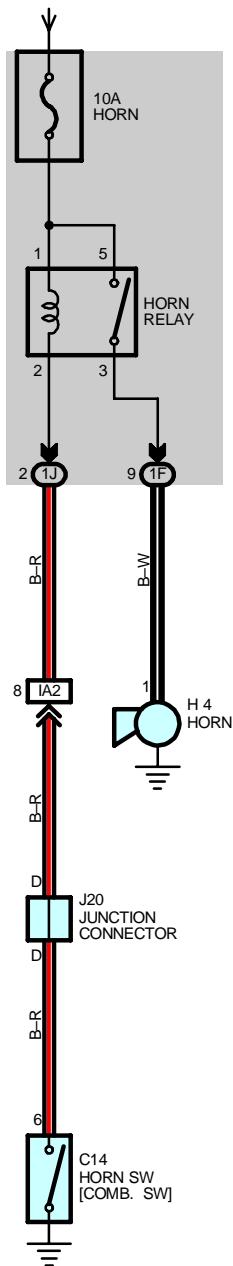
| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|--------------------|---|
| 2D | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|--------------------|------------------------|
| ID | 42 | Cowl Side Panel LH |

HORN

FROM POWER SOURCE SYSTEM (SEE PAGE 50)



SERVICE HINTS**HORN RELAY**

5–3 : Closed with the horn SW on

 : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|--------------------|------|--------------------|------|--------------------|
| C14 | 36 | H4 | 34 | J20 | 37 |

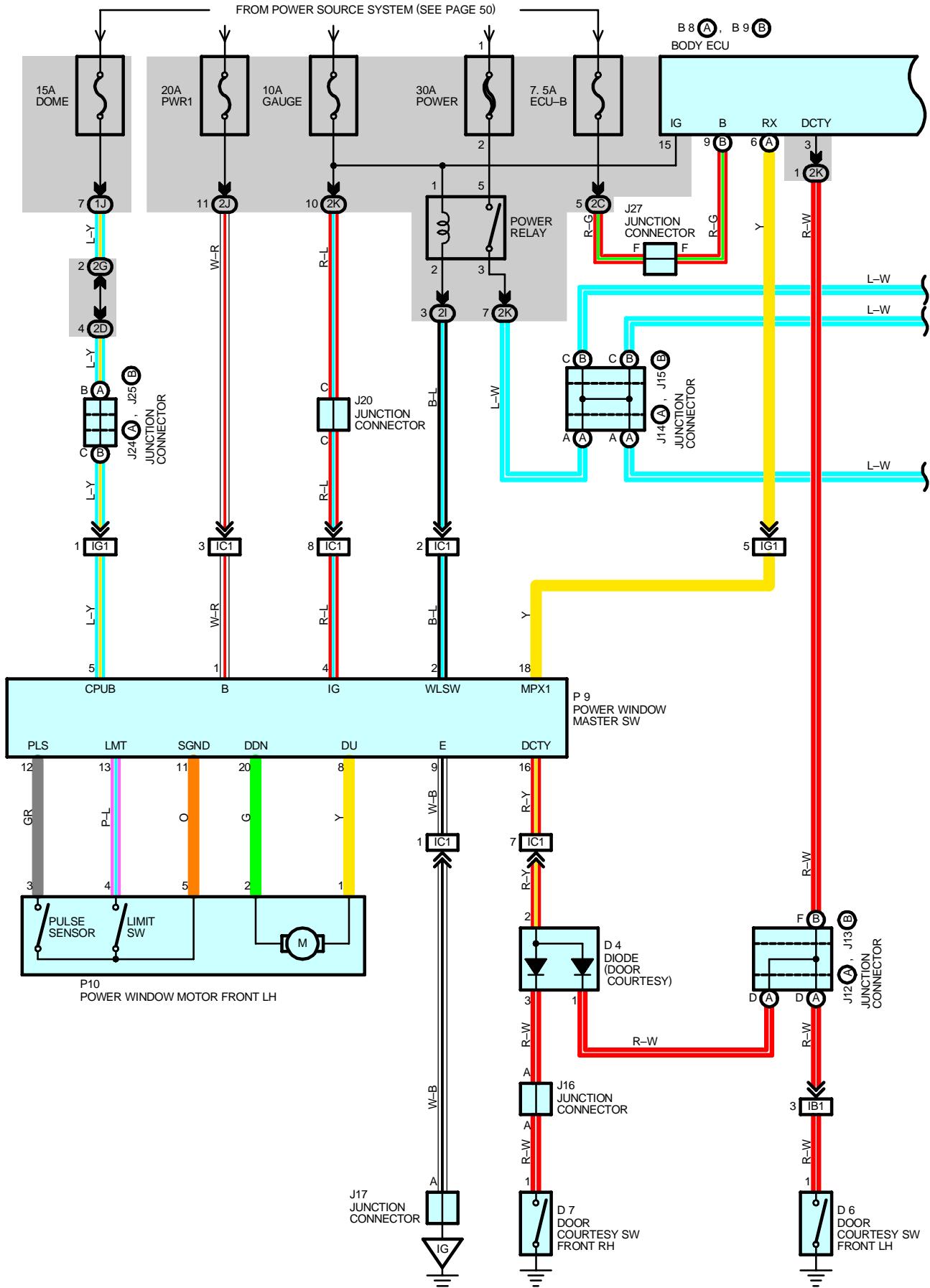
 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

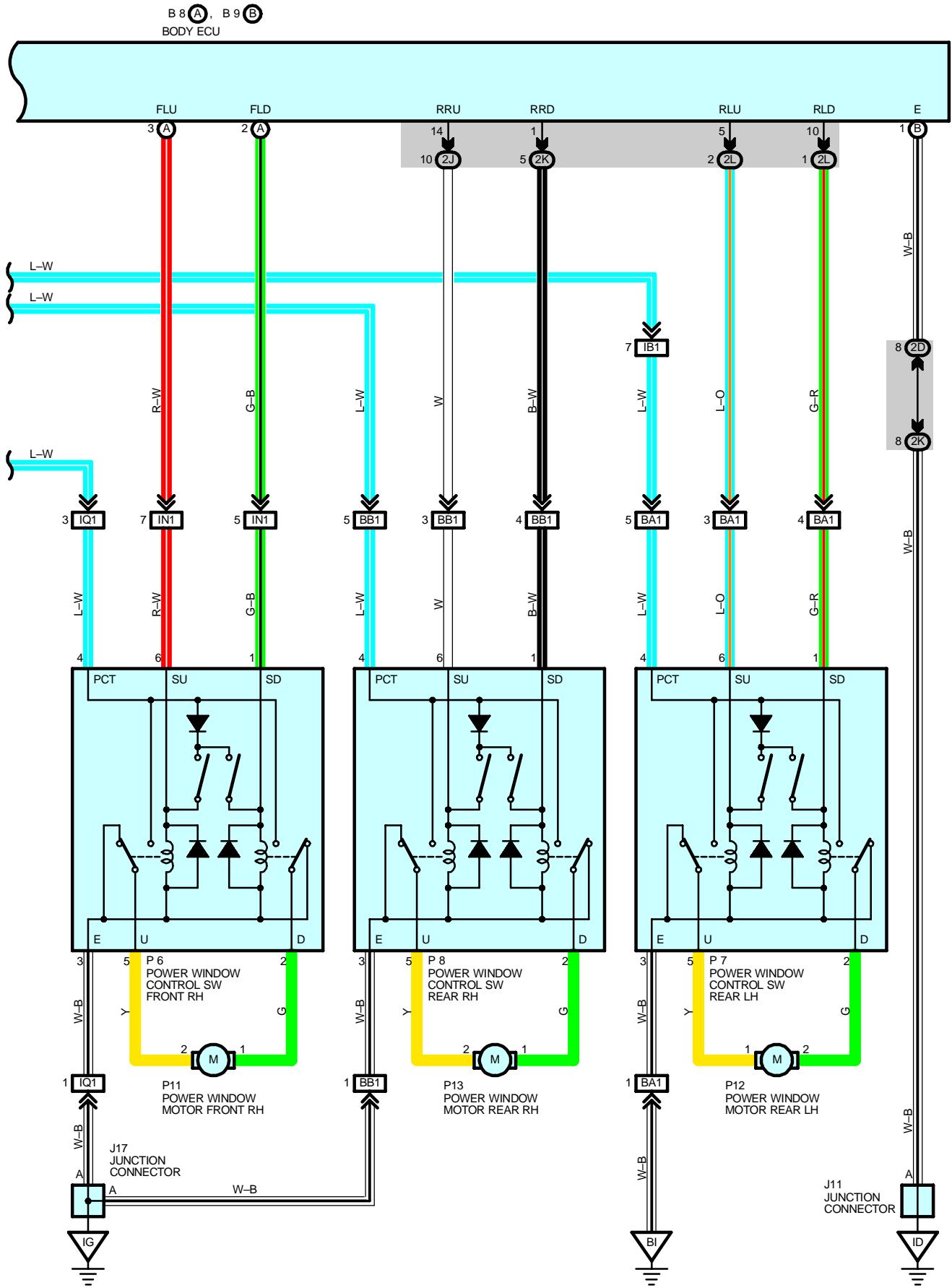
| | | |
|------|--------------------|---|
| Code | See Page | Junction Block and Wire Harness (Connector Location) |
| 1F | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| | | |
|------|--------------------|--|
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
| IA2 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |

POWER WINDOW





POWER WINDOW

SYSTEM OUTLINE

Communication between power window master SW and body ECU is controlled and body ECU recognizes the conditions of each SW to control the operation of windows.

1. MANUAL UP OR DOWN OPERATION (DRIVER'S WINDOW, PASSENGER'S WINDOW)

During you are pushing power window master SW (Driver side) halfway down, the motor operates and the window on the driver's side opens. During you are pulling power window master SW (Driver side) halfway up, the motor operates and the windows on the driver's side closes. The window on the passenger's side opens or closes by pushing down or pulling up power window master SW (Front passenger, rear passenger) or power window SW front RH, rear LH, RH.

2. AUTO UP OR DOWN OPERATION (DRIVER'S WINDOW)

When the power window master SW (Driver side) is fully pushed down, the motor operates and the window on the driver's side automatically opens. When the power window master SW (Driver side) is fully pulled up, the motor operates and the window on the driver's side automatically closes.

3. STOPPING AUTOMATIC WINDOW OPERATION

If you push the power window master SW (Driver side) halfway down during the window on the driver's side is raising automatically, the motor's operation stops. And if you pull the power window master SW (Driver side) halfway up during the window on the driver's side is lowering automatically, the motor's operation stops.

4. KEY OFF POWER WINDOW OPERATION

After the Ignition SW is turned off, the windows can be operated for about 43 seconds. However, the window operation stops when either front doors opens.

5. JAM PROTECTION FUNCTION (DRIVER'S WINDOW)

When any foreign object gets caught during power window UP operation, the motor rotates in the opposite direction to open the window.

SERVICE HINTS

P9 POWER WINDOW MASTER SW

- 1-GROUND : Always approx. 12 volts
- 4-GROUND : Approx. 12 volts with the ignition SW at **ON** position
- 9-GROUND : Always continuity

B8 (A), B9 (B) BODY ECU

- 15-GROUND : Approx. 12 volts with the ignition SW at **ON** position
- (B)9-GROUND : Always approx. 12 volts

○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| B8 | A | 36 | J15 | B | 37 |
| B9 | B | 36 | J16 | | 37 |
| D4 | | 36 | J17 | | 37 |
| D6 | | 38 | J20 | | 37 |
| D7 | | 38 | J24 | A | 37 |
| J12 | A | 37 | J25 | B | 37 |
| J13 | B | 37 | J27 | | 37 |
| J14 | A | 37 | P6 | | 39 |

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2C | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2D | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2I | | |
| 2J | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | | |
| 2L | 31 | Floor Wire and Instrument Panel J/B (Cowl Side Panel LH) |

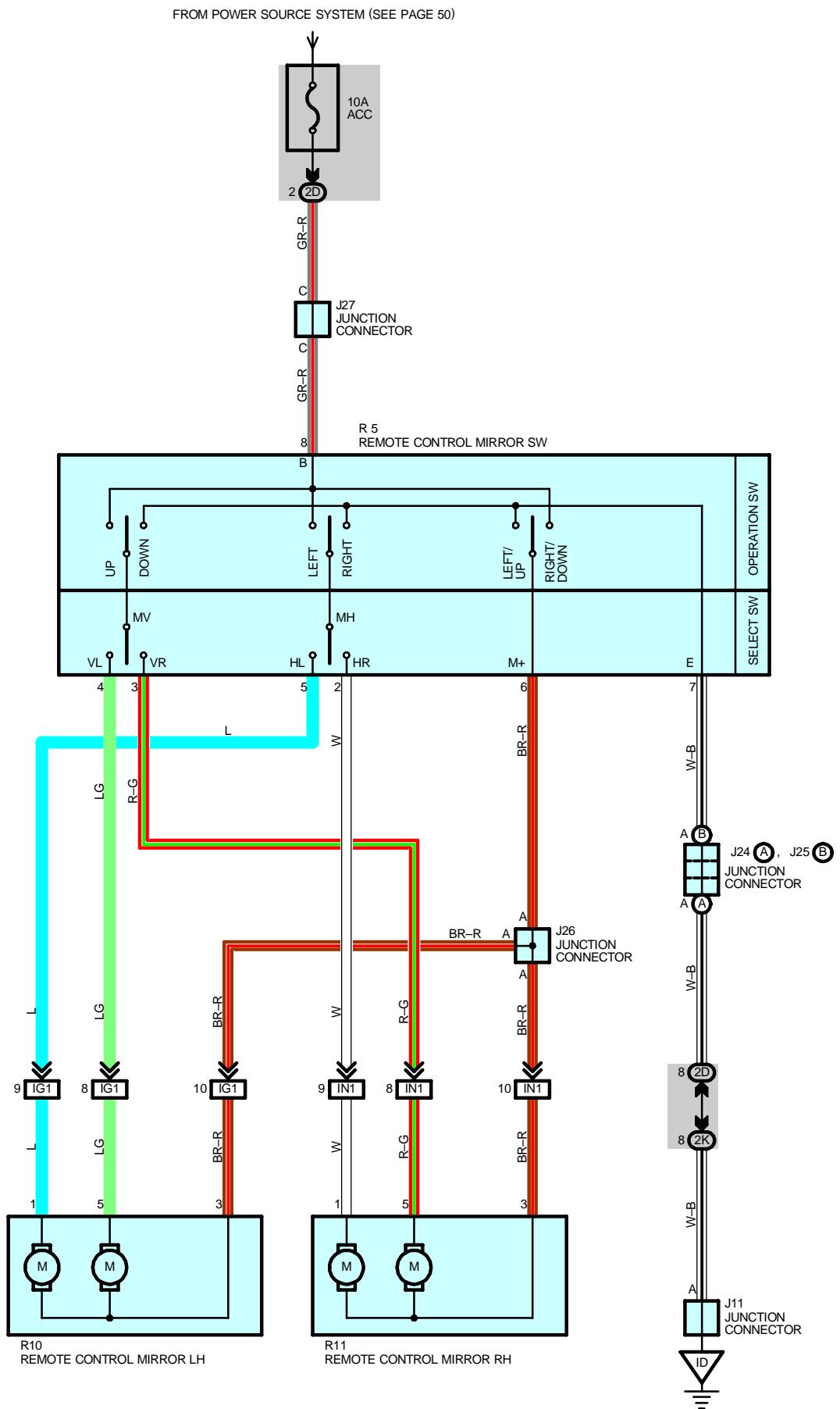
 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|--------------------|---|
| IB1 | 42 | Floor Wire and Cowl Wire (Cowl Side Panel LH) |
| IC1 | 42 | Front Door LH Wire and Cowl Wire (Left Kick Panel) |
| IG1 | 42 | Front Door LH Wire and Instrument Panel Wire (Left Kick Panel) |
| IN1 | 44 | Front Door RH Wire and Instrument Panel Wire (Right Kick Panel) |
| IQ1 | 44 | Front Door RH Wire and Cowl Wire (Right Kick Panel) |
| BA1 | 46 | Rear Door No.2 Wire and Floor Wire (Center Pillar LH) |
| BB1 | 46 | Rear Door No.1 Wire and Cowl Wire (Center Pillar RH) |

 : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|--------------------|--------------------------|
| IG | 42 | Cowl Side Panel RH |
| BI | 46 | Left Side of Rear Pillar |

REMOTE CONTROL MIRROR



SERVICE HINTS**R5 REMOTE CONTROL MIRROR SW**8-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position6-7 : Continuity with the operation SW at **UP** or **LEFT** position8-6 : Continuity with the operation SW at **DOWN** or **RIGHT** position**(○) : PARTS LOCATION**

| Code | See Page | Code | See Page | Code | See Page | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|
| J11 | 37 | J26 | 37 | R10 | 39 | |
| J24 | A | 37 | J27 | 37 | R11 | 39 |
| J25 | B | 37 | R5 | 37 | | |

(□) : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| | | |
|------|-----------|---|
| Code | See Page | Junction Block and Wire Harness (Connector Location) |
| 2D | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

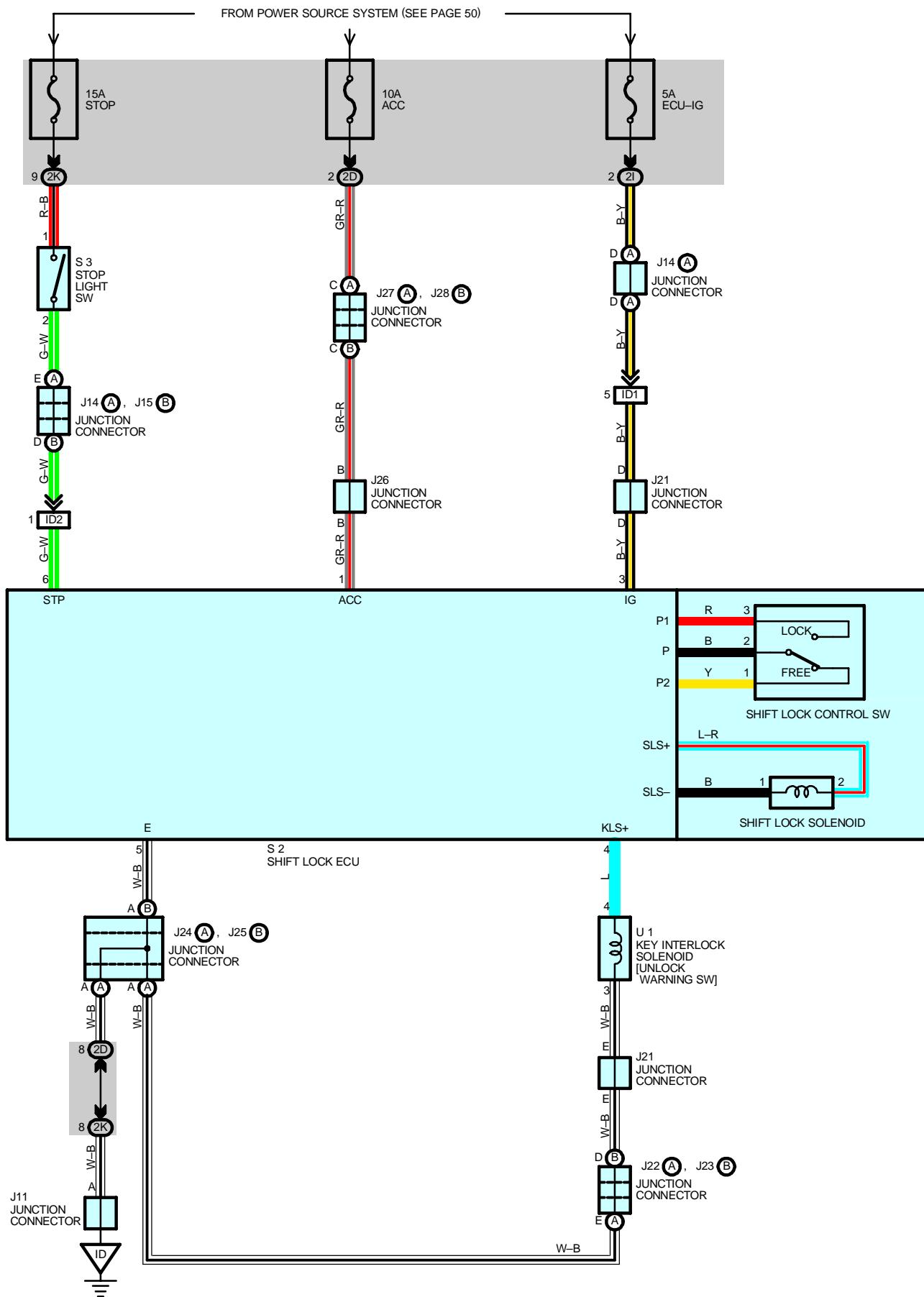
(□) : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| | | |
|------|-----------|---|
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
| IG1 | 42 | Front Door LH Wire and Instrument Panel Wire (Left Kick Panel) |
| IN1 | 44 | Front Door RH Wire and Instrument Panel Wire (Right Kick Panel) |

(▽) : GROUND POINTS

| | | |
|------|-----------|------------------------|
| Code | See Page | Ground Points Location |
| ID | 42 | Cowl Side Panel LH |

SHIFT LOCK



SYSTEM OUTLINE

When the ignition SW is turned to ACC position the current from the ACC fuse flows to TERMINAL 1 of the shift lock ECU, in the ON position, the current from the ECU-IG fuse flows to TERMINAL 3 of the ECU.

1. SHIFT LOCK MECHANISM

With the ignition SW on, 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 between P1 and P of the shift lock control SW) is input to the ECU, the ECU operates and current flows from TERMINAL 3 of the ECU to TERMINAL SLS+ of the shift lock solenoid to solenoid to TERMINAL SLS- to TERMINAL 5 of the ECU to GROUND. This causes the shift lock solenoid to turn on (Plate stopper disengages) and the shift lever can shift into position other than the P.

2. KEY INTERLOCK MECHANISM

With the ignition SW ON or ACC position, when the shift lever is put in P position (No continuity between P2 and P of shift lock control SW), the current flowing from TERMINAL 4 of the ECU to the key interlock solenoid is cut off. This causes the key interlock solenoid to turn off (Lock lever disengages from LOCK position) and the ignition key can be turned from ACC to LOCK position.

SERVICE HINTS

S2 SHIFT LOCK ECU

1-GROUND : Approx. 12 volts with the ignition SW at **ACC** or **ON** position

3-GROUND : Approx. 12 volts with the ignition SW at **ON** position

5-GROUND : Always continuity

6-GROUND : Approx. 12 volts with the brake pedal depressed

S3 STOP LIGHT SW

2-1 : Closed with the brake pedal depressed

○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| J11 | 37 | J23 | B | 37 | J28 |
| J14 | A | 37 | J24 | A | 37 |
| J15 | B | 37 | J25 | B | 37 |
| J21 | 37 | J26 | 37 | U1 | 37 |
| J22 | A | 37 | J27 | A | 37 |

□ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| | | |
|------|----------|---|
| Code | See Page | Junction Block and Wire Harness (Connector Location) |
| 2D | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2I | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | | |

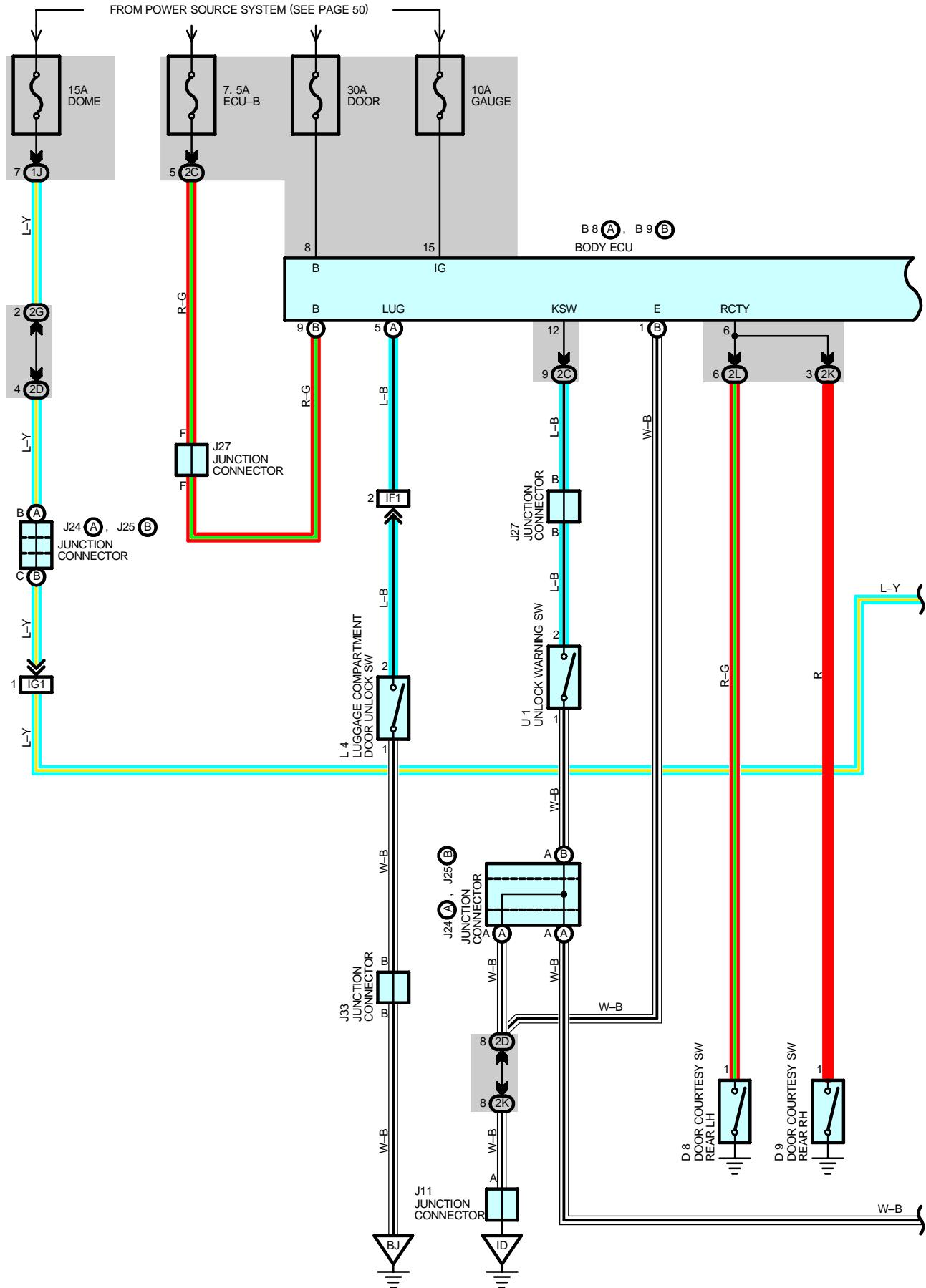
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

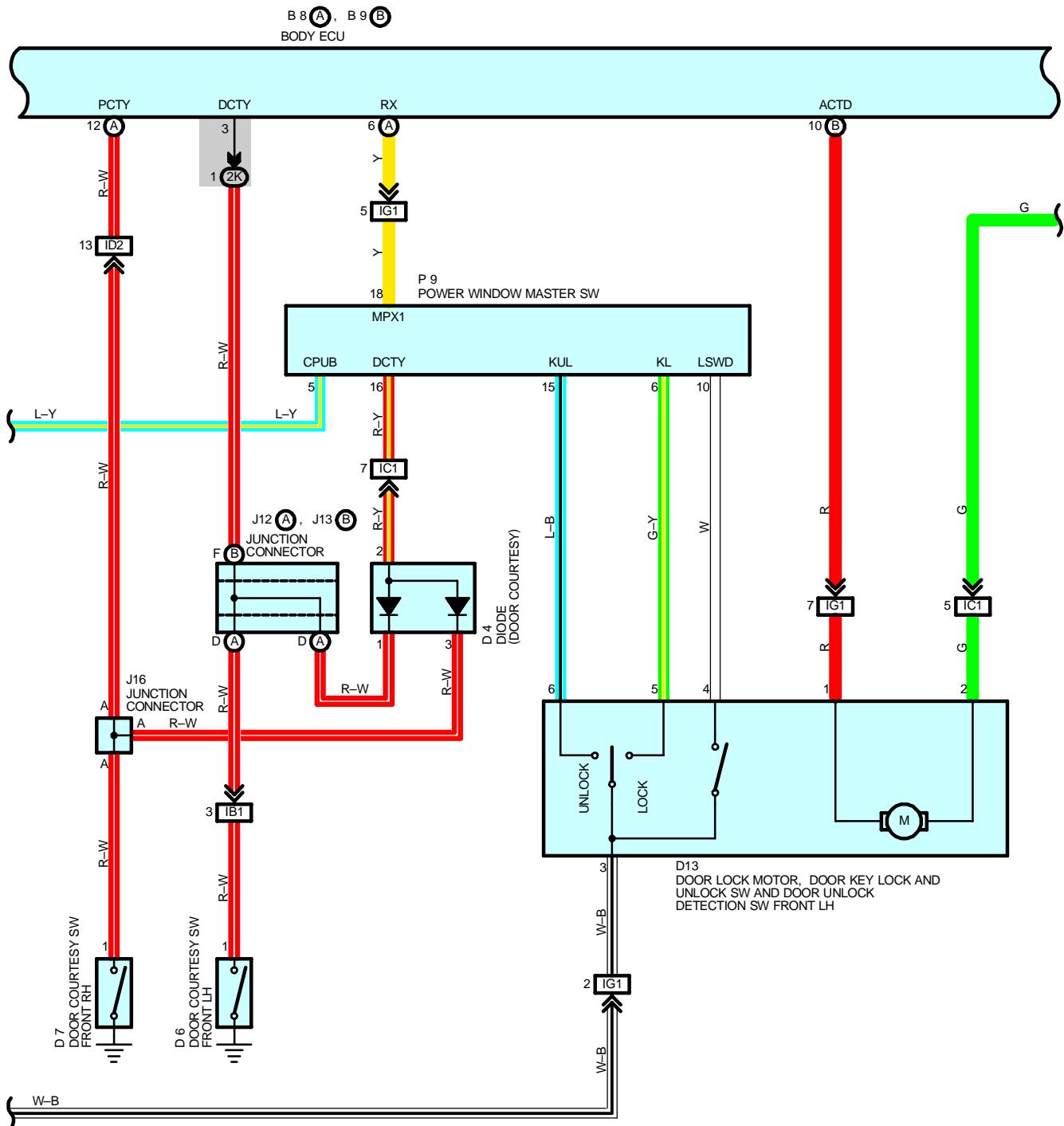
| | | |
|------|----------|--|
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
| ID1 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |
| ID2 | | |

▽ : GROUND POINTS

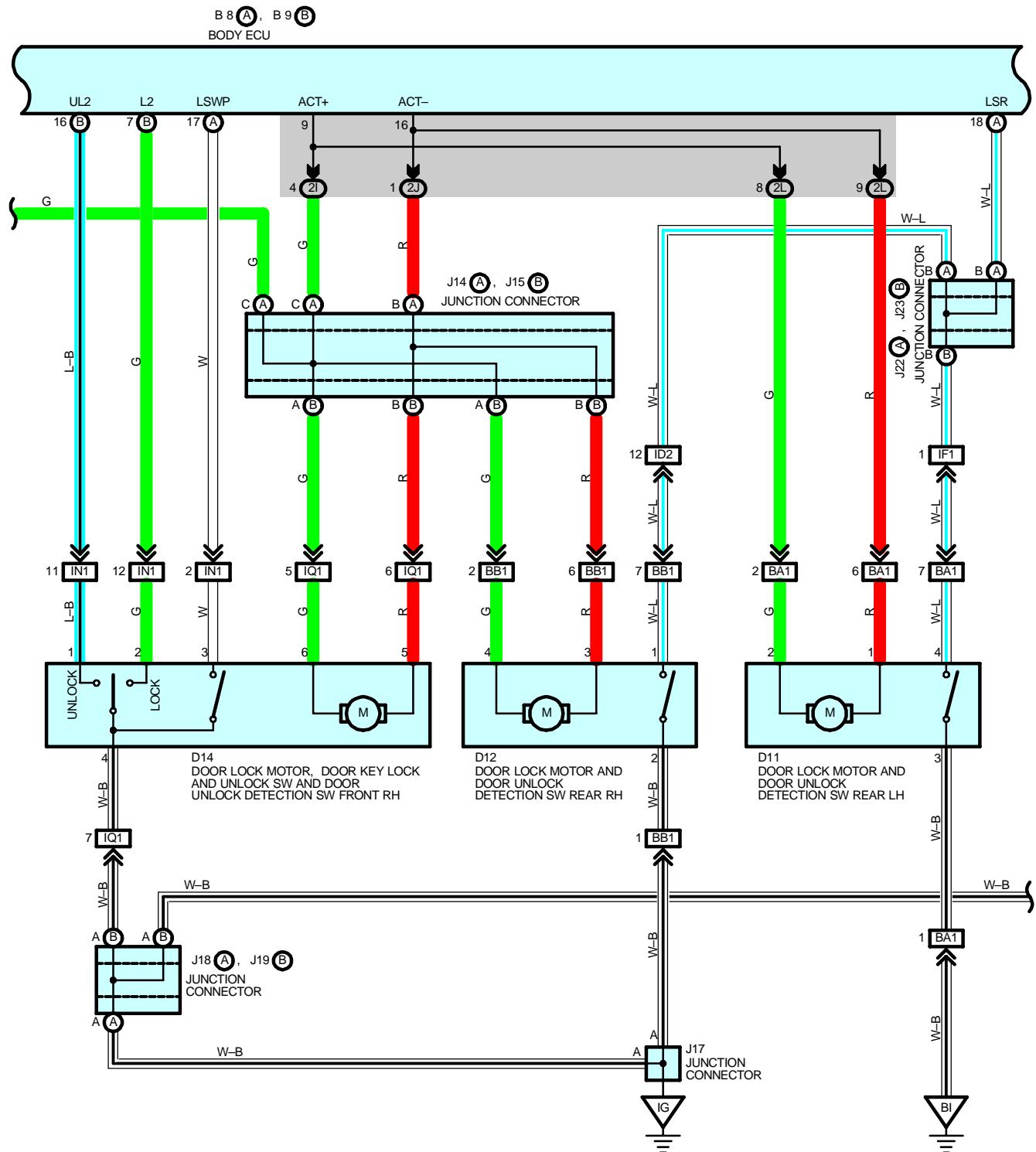
| | | |
|------|----------|------------------------|
| Code | See Page | Ground Points Location |
| ID | 42 | Cowl Side Panel LH |

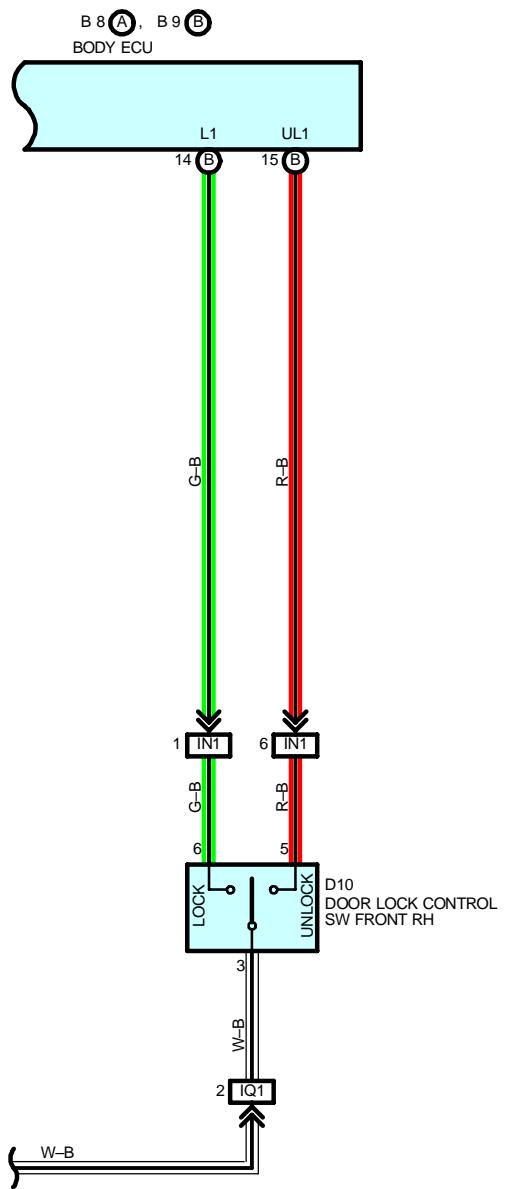
DOOR LOCK CONTROL





DOOR LOCK CONTROL





DOOR LOCK CONTROL

SYSTEM OUTLINE

The current is always sent from DOOR fuse to TERMINAL B of body ECU. When ignition SW is turned on, the current is sent from GAUGE fuse to TERMINAL IG of the body ECU.

1. MANUAL LOCK OPERATION

When the door lock control SW (Power window master SW) is turned to LOCK position, the lock signal from TERMINAL MPX1 of power window master SW is input to TERMINAL RX of body ECU to operate ECU. The current is sent from TERMINAL ACT+ of ECU to each motor and the motor locks the doors by the current sent from TERMINAL ACT- of ECU to GROUND.

2. MANUAL UNLOCK OPERATION

When the door lock control SW (Power window master SW) is turned to UNLOCK position, the unlock signal from TERMINAL MPX1 of power window master SW is input to TERMINAL RX of body ECU to operate ECU. The current is sent from TERMINAL ACT- of ECU to each motor and the motor unlocks the doors by the current sent from TERMINAL ACT+ of ECU to GROUND.

3. DOOR KEY LOCK AND UNLOCK OPERATION

* Lock operation from the driver's side door

When the driver's side door is locked using the ignition key, all the doors are locked.

* Unlock operation from the driver's side door

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

* Lock operation from the front passenger's side door

When the front passenger's side door is locked using the ignition key, all the doors are locked.

* Unlock operation from the front passenger's side door

When the front passenger's side door is unlocked using the ignition key, all the doors are unlocked

SERVICE HINTS

B8 (A), B9 (B) BODY ECU

15-GROUND : Approx. **12** volts with the ignition SW at **ON** position

8-GROUND : Always approx. **12** volts

(B) 1-GROUND : Always continuity

D6, D7, D8, D9 DOOR COURTESY SW FRONT LH, RH, REAR LH, RH

1-GROUND : Closed with each of the door open

U1 UNLOCK WARNING SW

1-2 : Closed with the ignition key in the cylinder

○ : PARTS LOCATION

| Code | | See Page | Code | | See Page | Code | | See Page | |
|------|-----|--------------------|------|-----|--------------------|--------------------|-----|--------------------|--------------------|
| B8 | A | 36 | | D13 | 38 | J19 | B | 37 | |
| B9 | B | 36 | | D14 | 38 | J22 | A | 37 | |
| | D4 | 36 | | J11 | 37 | J23 | B | 37 | |
| | D6 | 38 | | J12 | A | 37 | J24 | A | 37 |
| | D7 | 38 | | J13 | B | 37 | J25 | B | 37 |
| | D8 | 38 | | J14 | A | 37 | J27 | | 37 |
| | D9 | 38 | | J15 | B | 37 | J33 | | 38 |
| | D10 | 38 | | J16 | | 37 | L4 | | 38 |
| | D11 | 38 | | J17 | | 37 | P9 | | 39 |
| | D12 | 38 | | J18 | A | 37 | U1 | | 37 |



: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2C | | |
| 2D | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2I | | |
| 2J | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | | |
| 2L | 31 | Floor Wire and Instrument Panel J/B (Cowl Side Panel LH) |



: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

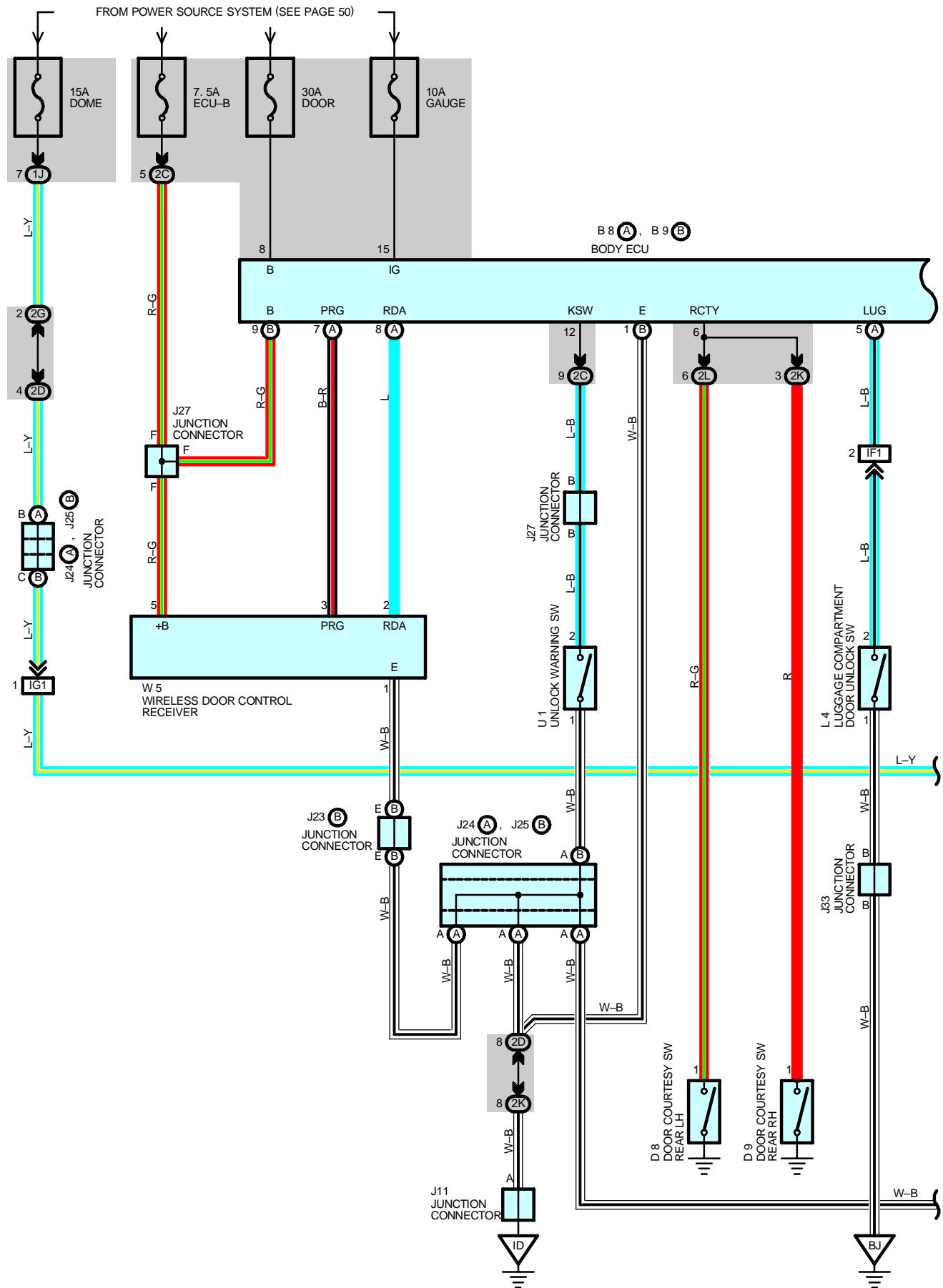
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|---|
| IB1 | 42 | Floor Wire and Cowl Wire (Cowl Side Panel LH) |
| IC1 | 42 | Front Door LH Wire and Cowl Wire (Left Kick Panel) |
| ID2 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |
| IF1 | 42 | Instrument Panel Wire and Floor Wire (Left Kick Panel) |
| IG1 | 42 | Front Door LH Wire and Instrument Panel Wire (Left Kick Panel) |
| IN1 | 44 | Front Door RH Wire and Instrument Panel Wire (Right Kick Panel) |
| IQ1 | 44 | Front Door RH Wire and Cowl Wire (Right Kick Panel) |
| BA1 | 46 | Rear Door No.2 Wire and Floor Wire (Center Pillar LH) |
| BB1 | 46 | Rear Door No.1 Wire and Cowl Wire (Center Pillar RH) |

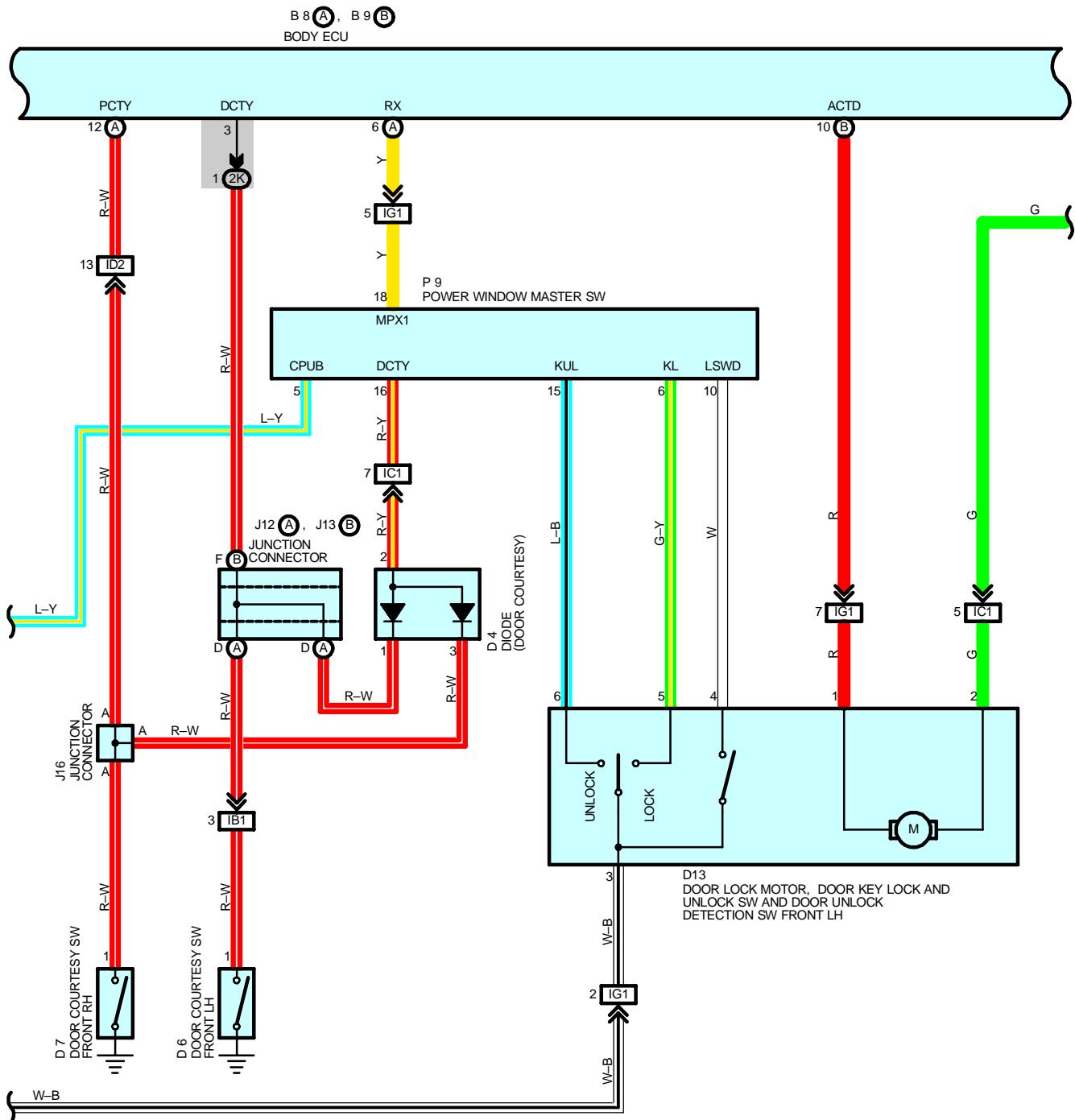


: GROUND POINTS

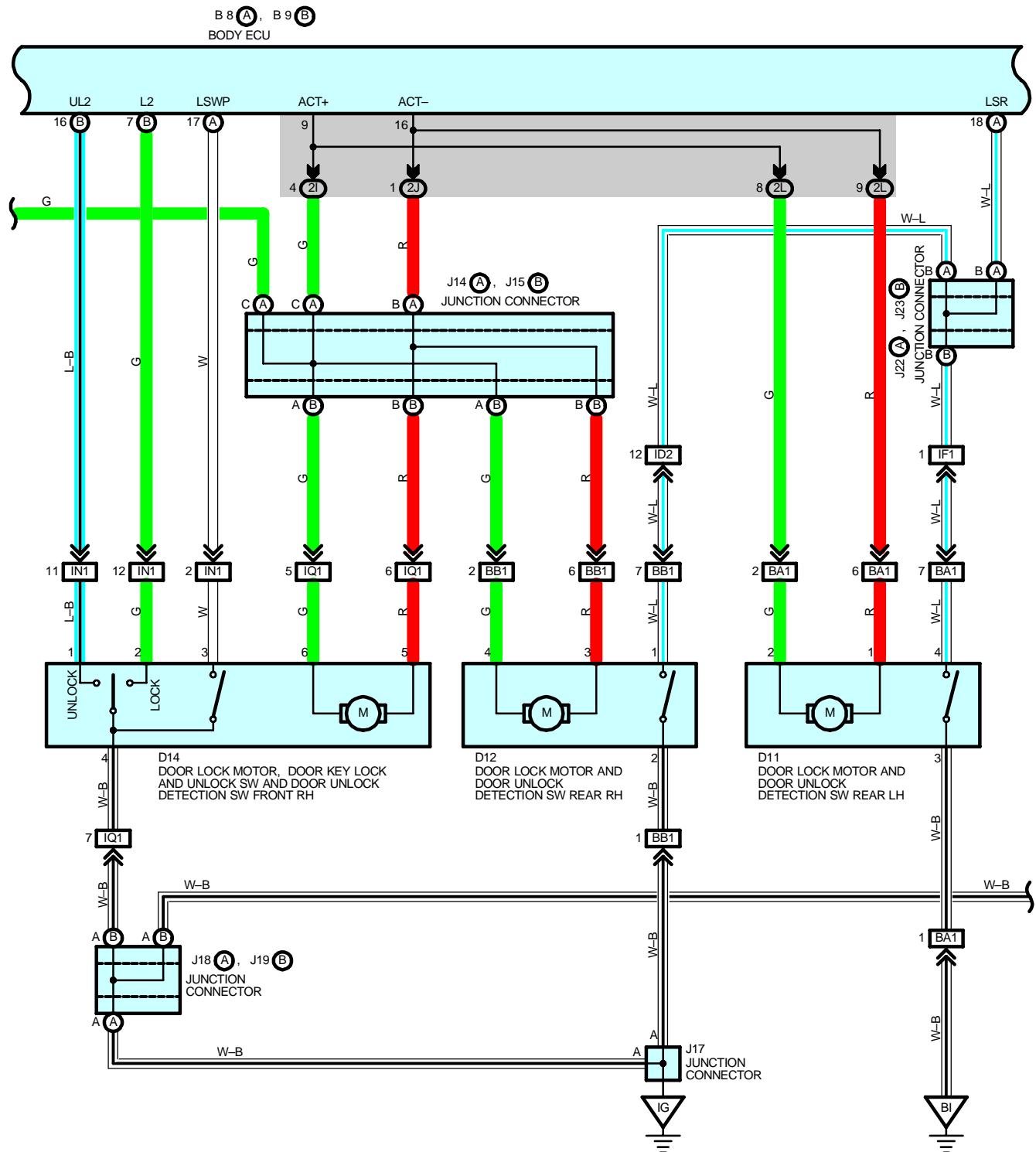
| Code | See Page | Ground Points Location |
|------|----------|---------------------------|
| ID | 42 | Cowl Side Panel LH |
| IG | 42 | Cowl Side Panel RH |
| BI | 46 | Left Side of Rear Pillar |
| BJ | 46 | Right Side of Rear Pillar |

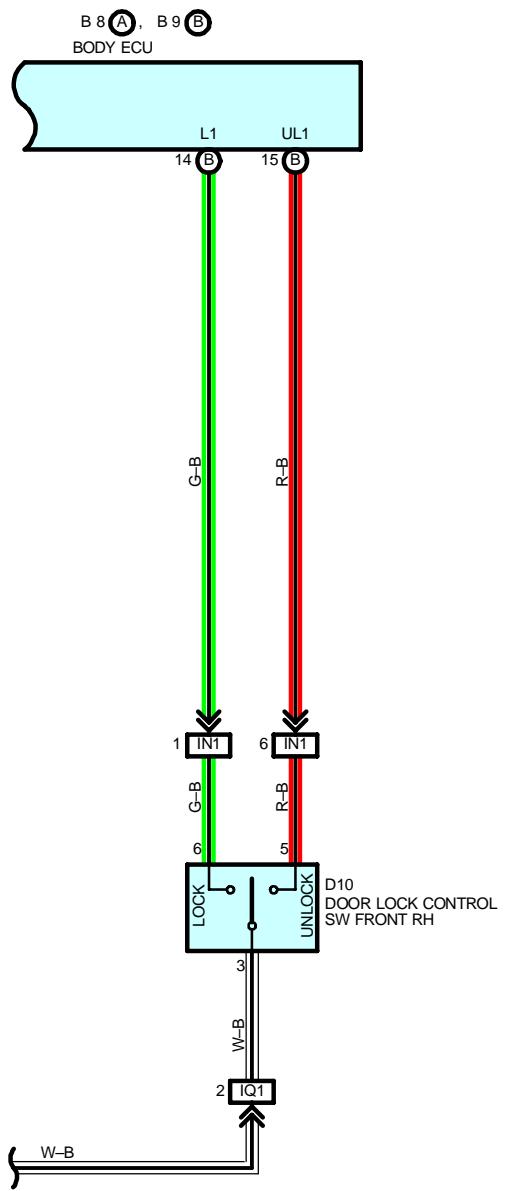
WIRELESS DOOR LOCK CONTROL





WIRELESS DOOR LOCK CONTROL





WIRELESS DOOR LOCK CONTROL

SYSTEM OUTLINE

The current is always sent from DOOR fuse to TERMINAL B of body ECU. At the same time, the current is always sent from DOME fuse to TERMINAL CPUB of power window master SW, and from ECU-B fuse to wireless door lock receiver. When ignition SW is turned on, the current is sent from GAUGE fuse to TERMINAL IG of body ECU.

1. WIRELESS DOOR LOCK OR UNLOCK NORMAL OPERATION

- * Lock operation
When the LOCK SW of the transmitter is pushed, all the doors are locked.
- * Unlock operation
When the UNLOCK SW of the transmitter is pushed, all the doors are unlocked.

2. AUTOMATIC LOCK OPERATION

After all the doors are unlocked by pushing the UNLOCK SW of the transmitter, unless each of the doors is opened or the ignition key is inserted, all the doors are locked again.

3. VISUAL CONFIRMATION OF LOCK OR UNLOCK FUNCTION

When doors are locked by using the transmitter, the taillight and parking lights blink once. When doors are unlocked by using the transmitter, the taillights and parking lights blink twice. If UNLOCK SW of the transmitter is pushed while all the doors are locked, doors are unlocked and the room lights are turned on simultaneously.

4. WIRELESS CONTROL STOP FUNCTION

If the following situations occur, wireless door lock function does not operate.

- * When each of the doors opens. (Door courtesy SW is on)
- * When ignition key is inserted to ignition SW. (Unlock warning SW is on)
- * When ignition SW is on.

5. REPEAT FUNCTION

If the doors are not locked after the lock signal is output from transmitter by pushing LOCK SW, the lock signal is sent again to lock the doors.

6. PANIC MODE FUNCTION

When the panic SW of the transmitter is pushed, the horn comes on, and the headlight and taillight flashes.

SERVICE HINTS

B8 (A), B9 (B) BODY ECU

15-GROUND : Approx. **12** volts with the ignition SW at **ON** position

8-GROUND : Always approx. **12** volts

(B) 1-GROUND : Always continuity

W5 WIRELESS DOOR LOCK CONTROL RECEIVER

5-GROUND : Always approx. **12** volts

1-GROUND : Always continuity

U1 UNLOCK WARNING SW

2-1 : Closed with the ignition key in the cylinder

O : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|--------------------|-------|--------------------|-------|--------------------|
| B8 A | 36 | D14 | 38 | J23 B | 37 |
| B9 B | 36 | J11 | 37 | J24 A | 37 |
| D4 | 36 | J12 A | 37 | J25 B | 37 |
| D6 | 38 | J13 B | 37 | J27 | 37 |
| D7 | 38 | J14 A | 37 | J33 | 38 |
| D8 | 38 | J15 B | 37 | L4 | 38 |
| D9 | 38 | J16 | 37 | P9 | 39 |
| D10 | 38 | J17 | 37 | U1 | 37 |
| D11 | 38 | J18 A | 37 | W5 | 37 |
| D12 | 38 | J19 B | 37 | | |
| D13 | 38 | J22 A | 37 | | |



: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2C | | |
| 2D | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2I | | |
| 2J | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | | |
| 2L | 31 | Floor Wire and Instrument Panel J/B (Cowl Side Panel LH) |



: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

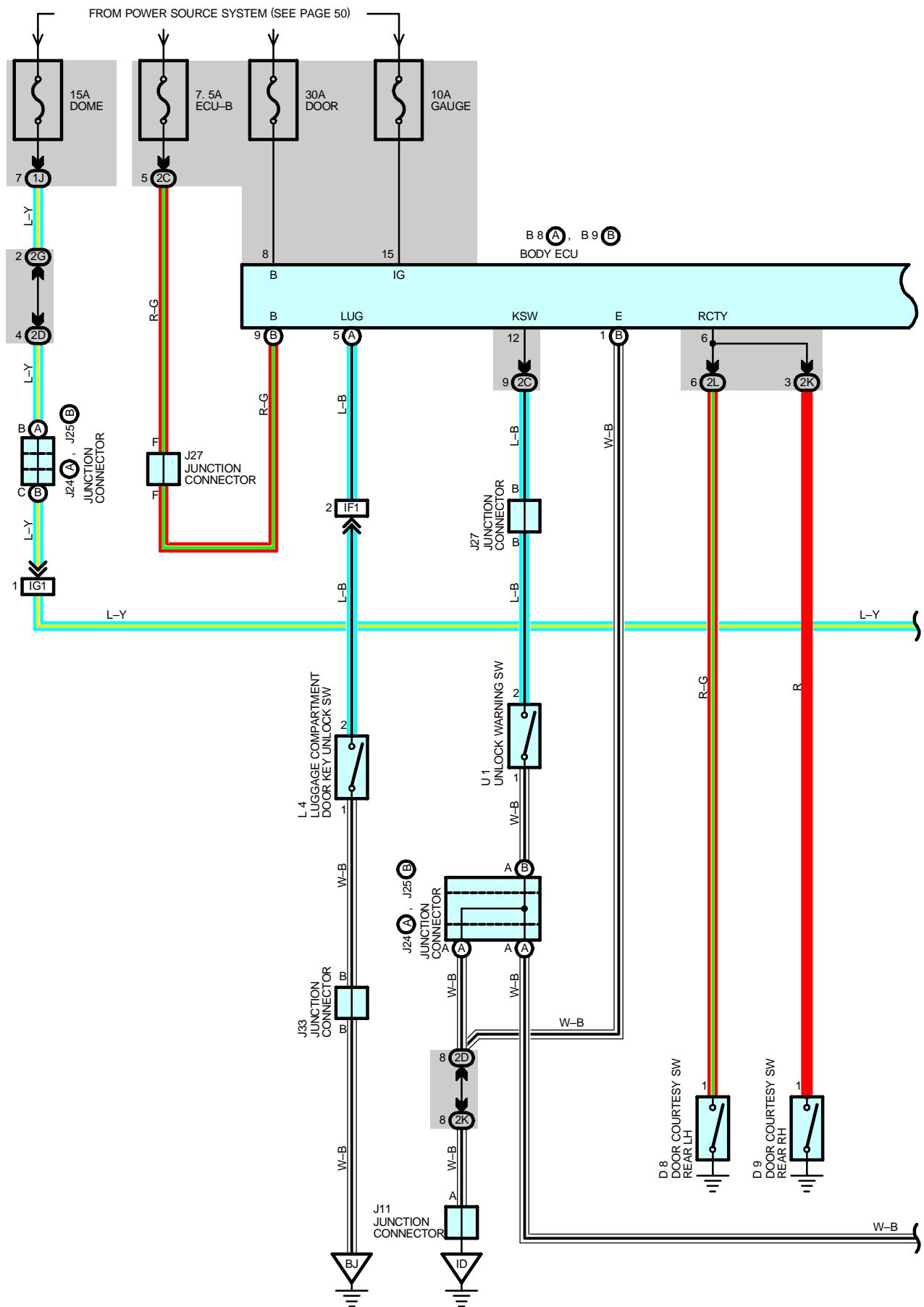
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|---|
| IB1 | 42 | Floor Wire and Cowl Wire (Cowl Side Panel LH) |
| IC1 | 42 | Front Door LH Wire and Cowl Wire (Left Kick Panel) |
| ID2 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |
| IF1 | 42 | Instrument Panel Wire and Floor Wire (Left Kick Panel) |
| IG1 | 42 | Front Door LH Wire and Instrument Panel Wire (Left Kick Panel) |
| IN1 | 44 | Front Door RH Wire and Instrument Panel Wire (Right Kick Panel) |
| IQ1 | 44 | Front Door RH Wire and Cowl Wire (Right Kick Panel) |
| BA1 | 46 | Rear Door No.2 Wire and Floor Wire (Center Pillar LH) |
| BB1 | 46 | Rear Door No.1 Wire and Cowl Wire (Center Pillar RH) |

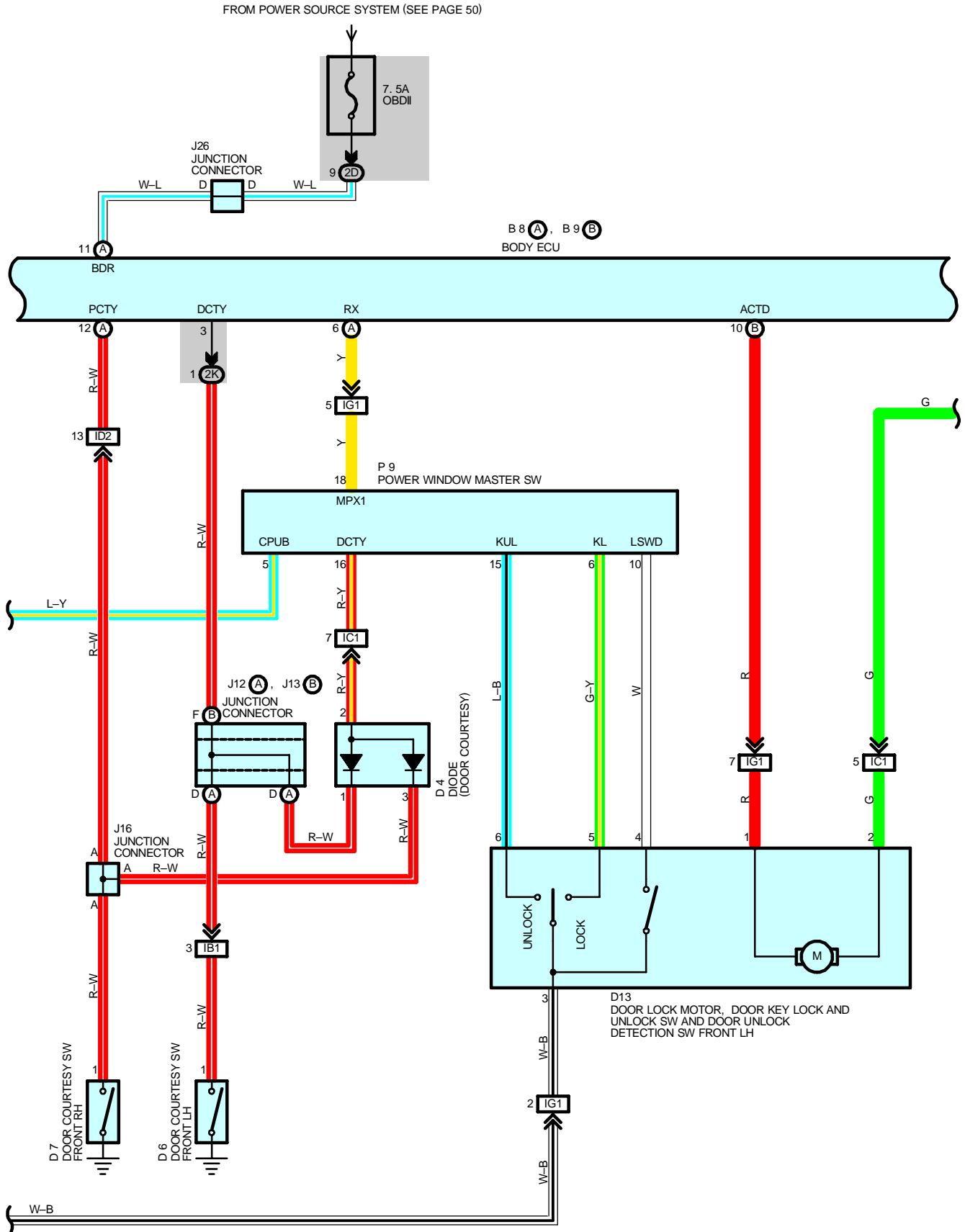


: GROUND POINTS

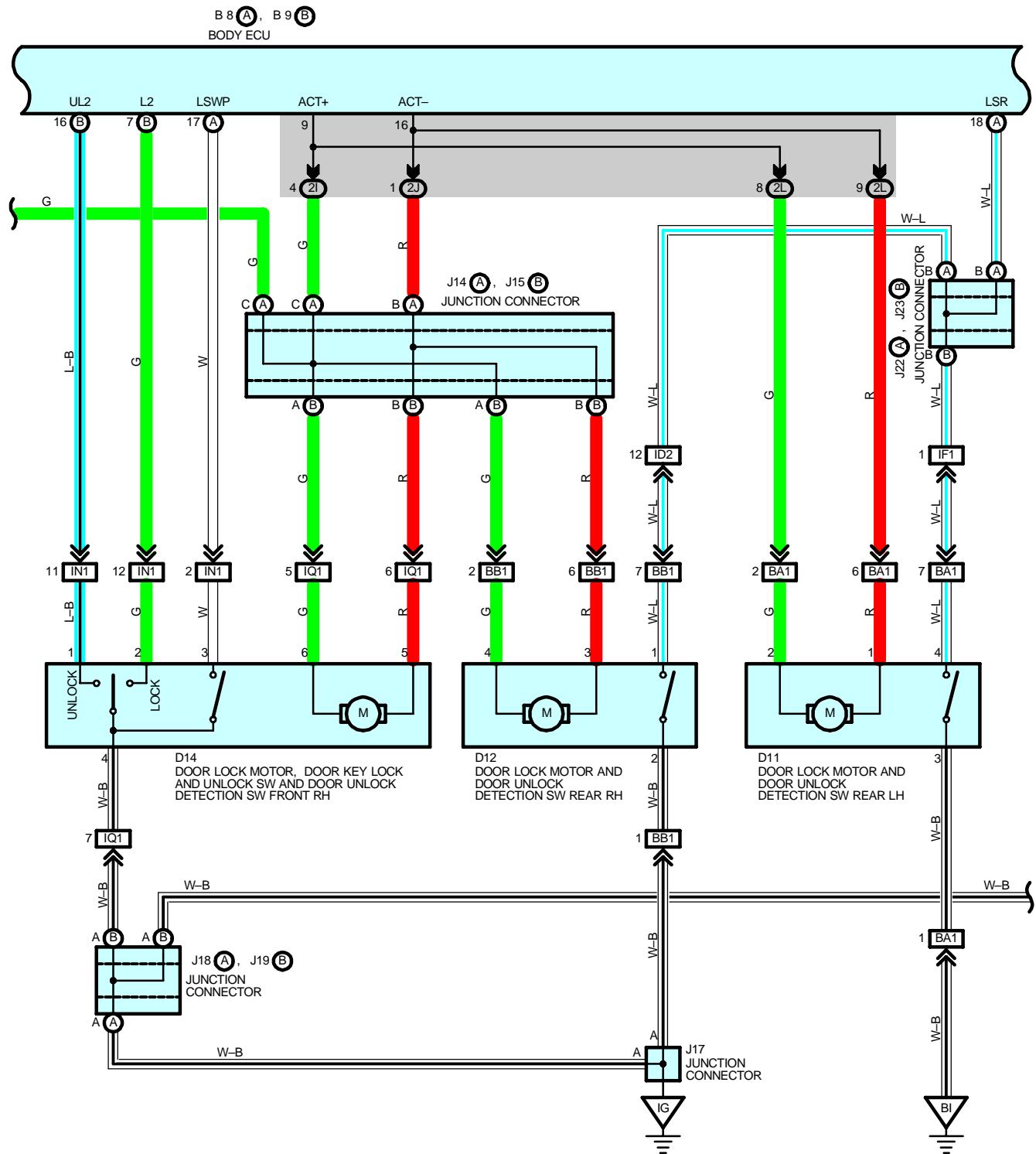
| Code | See Page | Ground Points Location |
|------|----------|---------------------------|
| ID | 42 | Cowl Side Panel LH |
| IG | 42 | Cowl Side Panel RH |
| BI | 46 | Left Side of Rear Pillar |
| BJ | 46 | Right Side of Rear Pillar |

THEFT DETERRENT

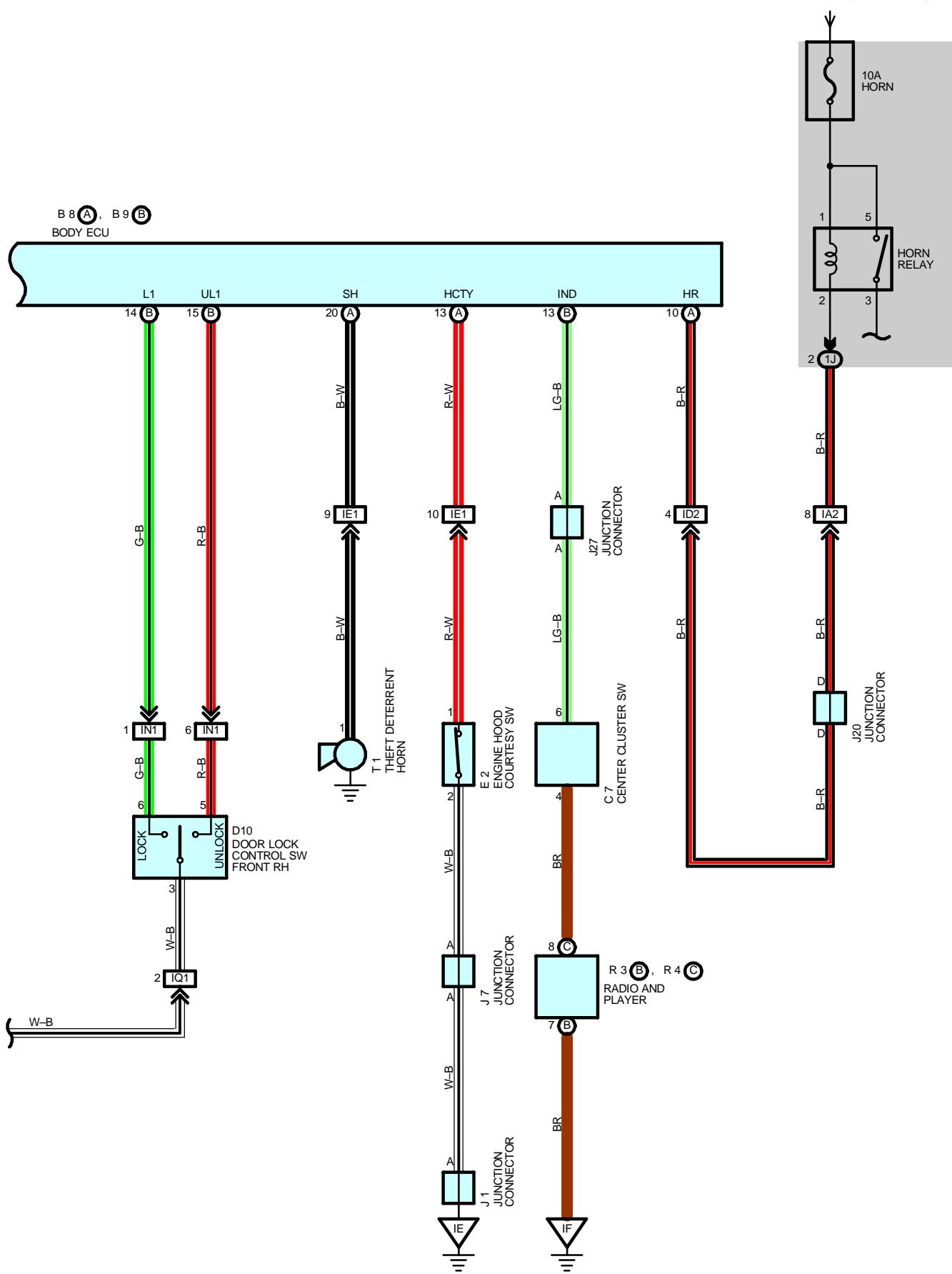




THEFT DETERRENT



FROM POWER SOURCE SYSTEM (SEE PAGE 50)



THEFT DETERRENT

SERVICE HINTS

D13 DOOR KEY LOCK AND UNLOCK SW AND DOOR UNLOCK DETECTION SW FRONT LH

6-3 : Closed with door lock cylinder unlocked with key
5-3 : Closed with door lock cylinder locked with key

D14 DOOR KEY LOCK AND UNLOCK SW AND DOOR UNLOCK DETECTION SW FRONT RH

1-4 : Closed with door lock cylinder unlocked with key
2-4 : Closed with door lock cylinder locked with key

E2 ENGINE HOOD COURTESY SW

2-1 : Open with engine hood open

U1 UNLOCK WARNING SW

2-1 : Closed with ignition key in cylinder

L4 LUGGAGE COMPARTMENT DOOR KEY UNLOCK SW

2-1 : Closed with luggage compartment door lock cylinder unlock

B8 (A), B9 (B) BODY ECU

(A)17-GROUND : Continuity with front RH door unlocked
(B) 1-GROUND : Always continuity
(A) 5-GROUND : Continuity with luggage compartment door unlocked
(A)13-GROUND : Continuity with engine hood closed
(A) 5-GROUND : Continuity with luggage compartment door open
(A)12-GROUND : Continuity with front RH door open
(B) 9-GROUND : Always approx. **12** volts
8-GROUND : Always approx. **12** volts
15-GROUND : Approx. **12** volts with the ignition SW at **ON** position
6-GROUND : Continuity with rear LH, RH door open
3-GROUND : Continuity with front LH door open

○ : PARTS LOCATION

| Code | | See Page | Code | | See Page | Code | | See Page |
|------|---|--------------------|------|-----|----------------------|--------------------|-----|----------------------|
| B8 | A | 36 | | E2 | 34 | | J22 | A 37 |
| B9 | B | 36 | | J1 | 37 | | J23 | B 37 |
| C7 | | 36 | | J7 | 37 | | J24 | A 37 |
| D4 | | 36 | | J11 | 37 | | J25 | B 37 |
| D6 | | 38 | | J12 | A 37 | | J26 | 37 |
| D7 | | 38 | | J13 | B 37 | | J27 | 37 |
| D8 | | 38 | | J14 | A 37 | | J33 | 38 |
| D9 | | 38 | | J15 | B 37 | | L4 | 38 |
| D10 | | 38 | | J16 | | 37 | P9 | 39 |
| D11 | | 38 | | J17 | | 37 | R3 | B 37 |
| D12 | | 38 | | J18 | A 37 | | R4 | C 37 |
| D13 | | 38 | | J19 | B 37 | | T1 | 35 |
| D14 | | 38 | | J20 | | 37 | U1 | 37 |

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|--------------------|---|
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2C | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2D | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2I | | |
| 2J | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | | |
| 2L | 31 | Floor Wire and Instrument Panel J/B (Cowl Side Panel LH) |

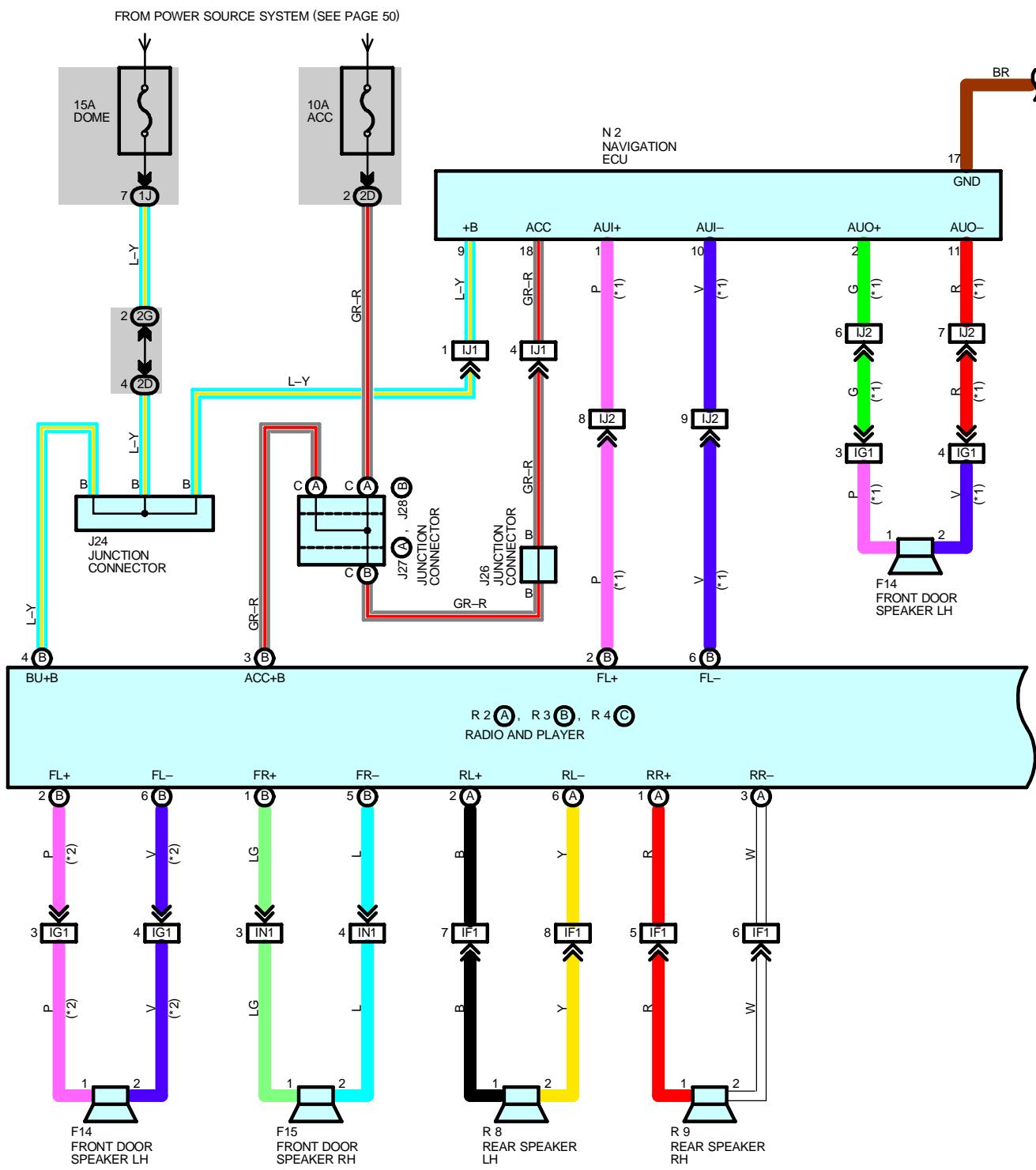
 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|--------------------|---|
| IA2 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| IB1 | 42 | Floor Wire and Cowl Wire (Cowl Side Panel LH) |
| IC1 | 42 | Front Door LH Wire and Cowl Wire (Left Kick Panel) |
| ID2 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |
| IE1 | 42 | Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel) |
| IF1 | 42 | Instrument Panel Wire and Floor Wire (Left Kick Panel) |
| IG1 | 42 | Front Door LH Wire and Instrument Panel Wire (Left Kick Panel) |
| IN1 | 44 | Front Door RH Wire and Instrument Panel Wire (Right Kick Panel) |
| IQ1 | 44 | Front Door RH Wire and Cowl Wire (Right Kick Panel) |
| BA1 | 46 | Rear Door No.2 Wire and Floor Wire (Center Pillar LH) |
| BB1 | 46 | Rear Door No.1 Wire and Cowl Wire (Center Pillar RH) |

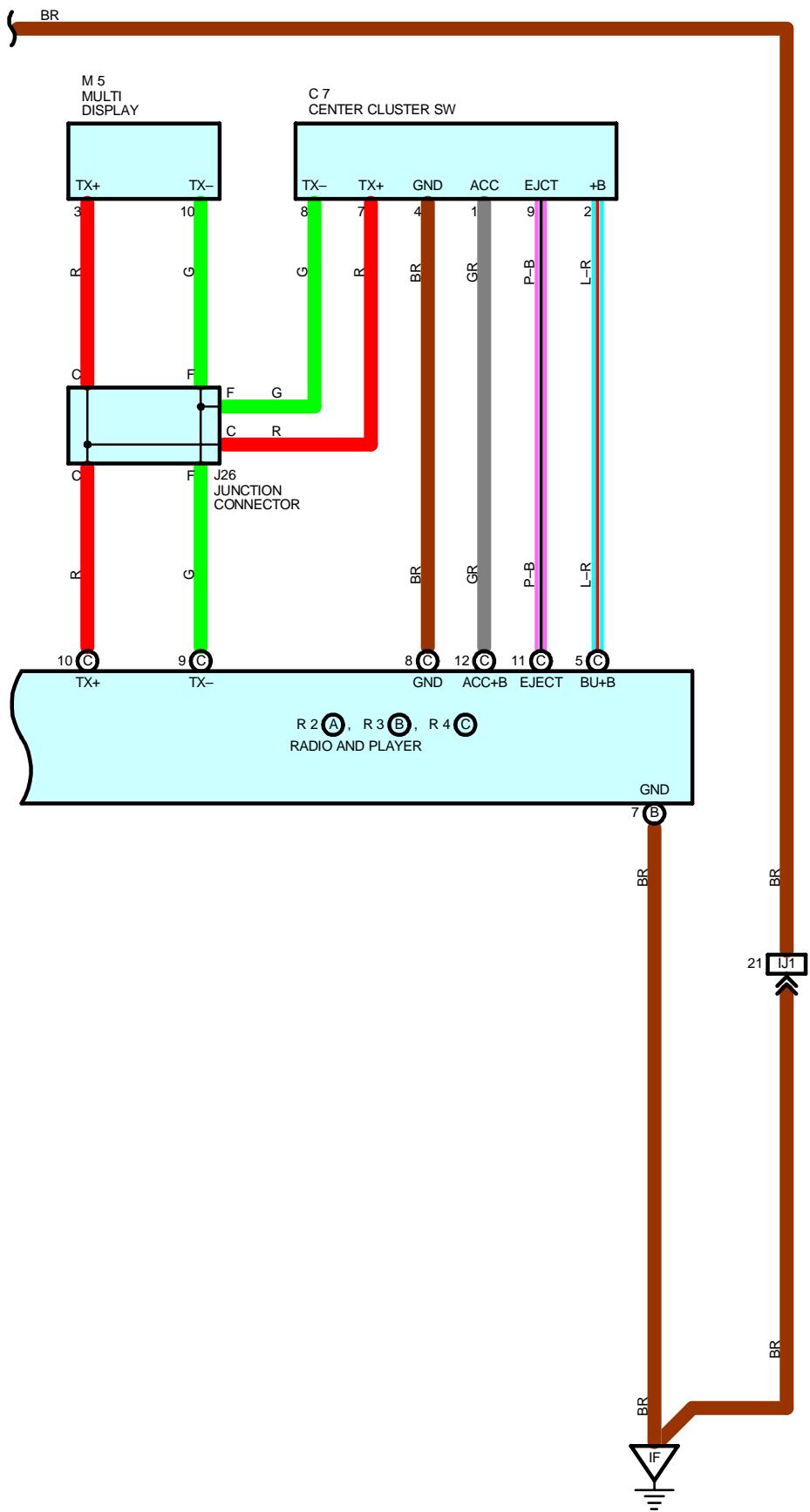
 : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|--------------------|---------------------------|
| ID | 42 | Cowl Side Panel LH |
| IE | | |
| IF | 42 | Left Kick Panel |
| IG | 42 | Cowl Side Panel RH |
| BI | 46 | Left Side of Rear Pillar |
| BJ | 46 | Right Side of Rear Pillar |

RADIO AND PLAYER



* 1 : W/ NAVIGATION SYSTEM
* 2 : W/O NAVIGATION SYSTEM



RADIO AND PLAYER

SERVICE HINTS

R3 (B) RADIO AND PLAYER

- (B)4-GROUND : Always approx. **12** volts
- (B)3-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ACC** position
- (B)7-GROUND : Always continuity

N2 NAVIGATION ECU

- 9-GROUND : Always approx. **12** volts
- 18-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ACC** position
- 17-GROUND : Always continuity

○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|--------------------|------|----------|--------------------|-------------------------|
| C7 | 36 | J27 | A | 37 | R3 B 37 |
| F14 | 38 | J28 | B | 37 | R4 C 37 |
| F15 | 38 | M5 | | 37 | R8 39 |
| J24 | 37 | N2 | | 39 | R9 39 |
| J26 | 37 | R2 | A | 37 | |

□ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|--------------------|---|
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2D | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |

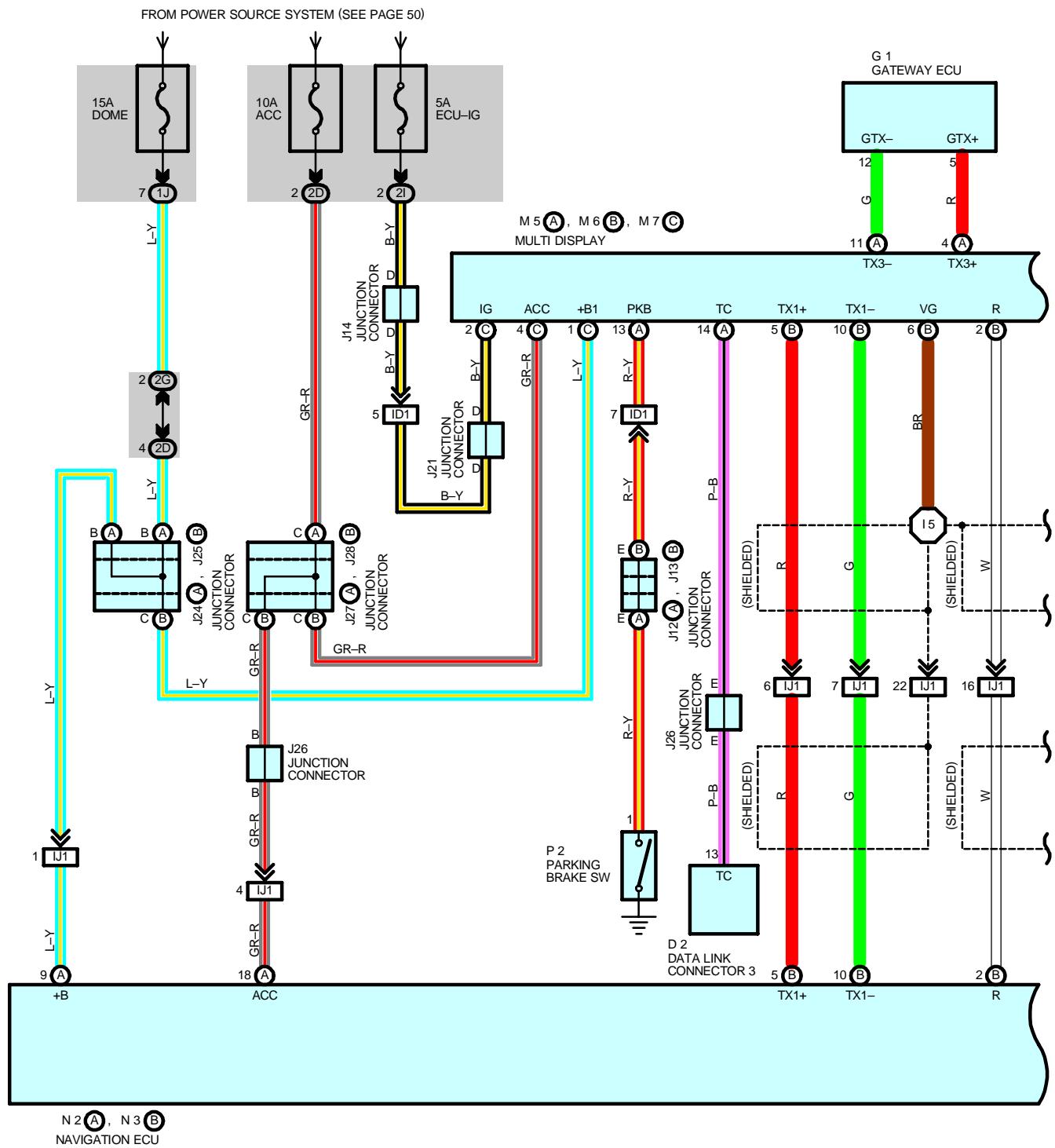
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

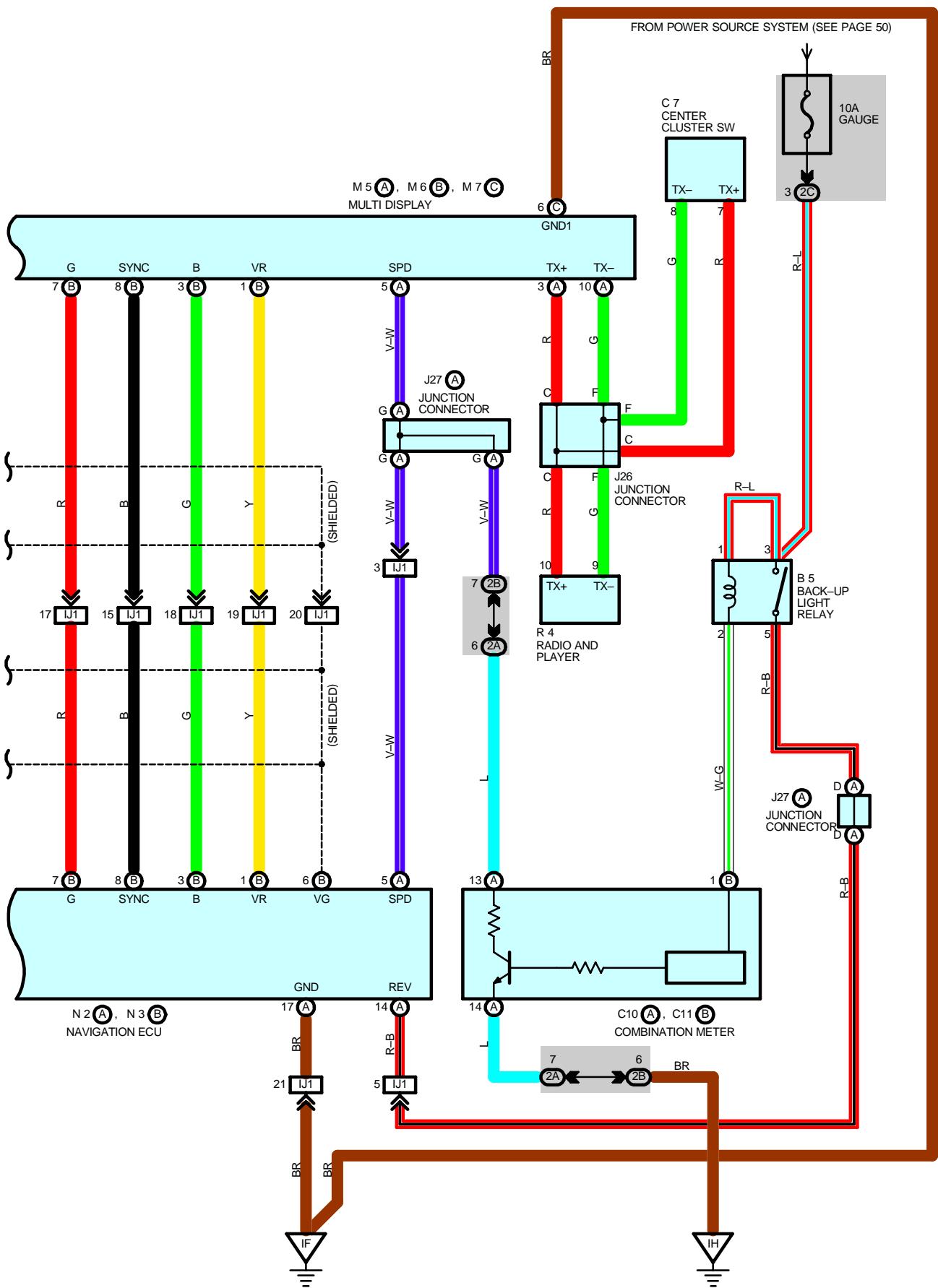
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|--------------------|---|
| IF1 | 42 | Instrument Panel Wire and Floor Wire (Left Kick Panel) |
| IG1 | 42 | Front Door LH Wire and Instrument Panel Wire (Left Kick Panel) |
| IJ1 | 44 | Floor No.3 Wire and Instrument Panel Wire (Under the Instrument Panel Center) |
| IJ2 | | |
| IN1 | 44 | Front Door RH Wire and Instrument Panel Wire (Right Kick Panel) |

▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|--------------------|------------------------|
| IF | 42 | Left Kick Panel |

NAVIGATION SYSTEM





NAVIGATION SYSTEM

SERVICE HINTS

N2 (A) NAVIGATION ECU

- (A) 9-GROUND : Always approx. **12** volts
- (A)18-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ACC** position
- (A)17-GROUND : Always continuity

M7 (C) MULTI DISPLAY

- (C)2-GROUND : Approx. **12** volts with the ignition SW at **ON** position
- (C)4-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ACC** position
- (C)6-GROUND : Always continuity

○ : PARTS LOCATION

| Code | | See Page | Code | | See Page | | Code | | See Page |
|------|---|----------|------|---|----------|----|------|----|----------|
| B5 | | 36 | J14 | | 37 | M6 | | B | 37 |
| C7 | | 36 | J21 | | 37 | M7 | | C | 37 |
| C10 | A | 36 | J24 | A | 37 | N2 | A | 39 | |
| C11 | B | 36 | J25 | B | 37 | N3 | B | 39 | |
| D2 | | 36 | J26 | | 37 | P2 | | | 37 |
| G1 | | 37 | J27 | A | 37 | R4 | | | 37 |
| J12 | A | 37 | J28 | B | 37 | | | | |
| J13 | B | 37 | M5 | A | 37 | | | | |

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2A | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2B | | |
| 2C | | |
| 2D | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2I | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|---|
| ID1 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |
| IJ1 | 44 | Floor No.3 Wire and Instrument Panel Wire (Under the Instrument Panel Center) |

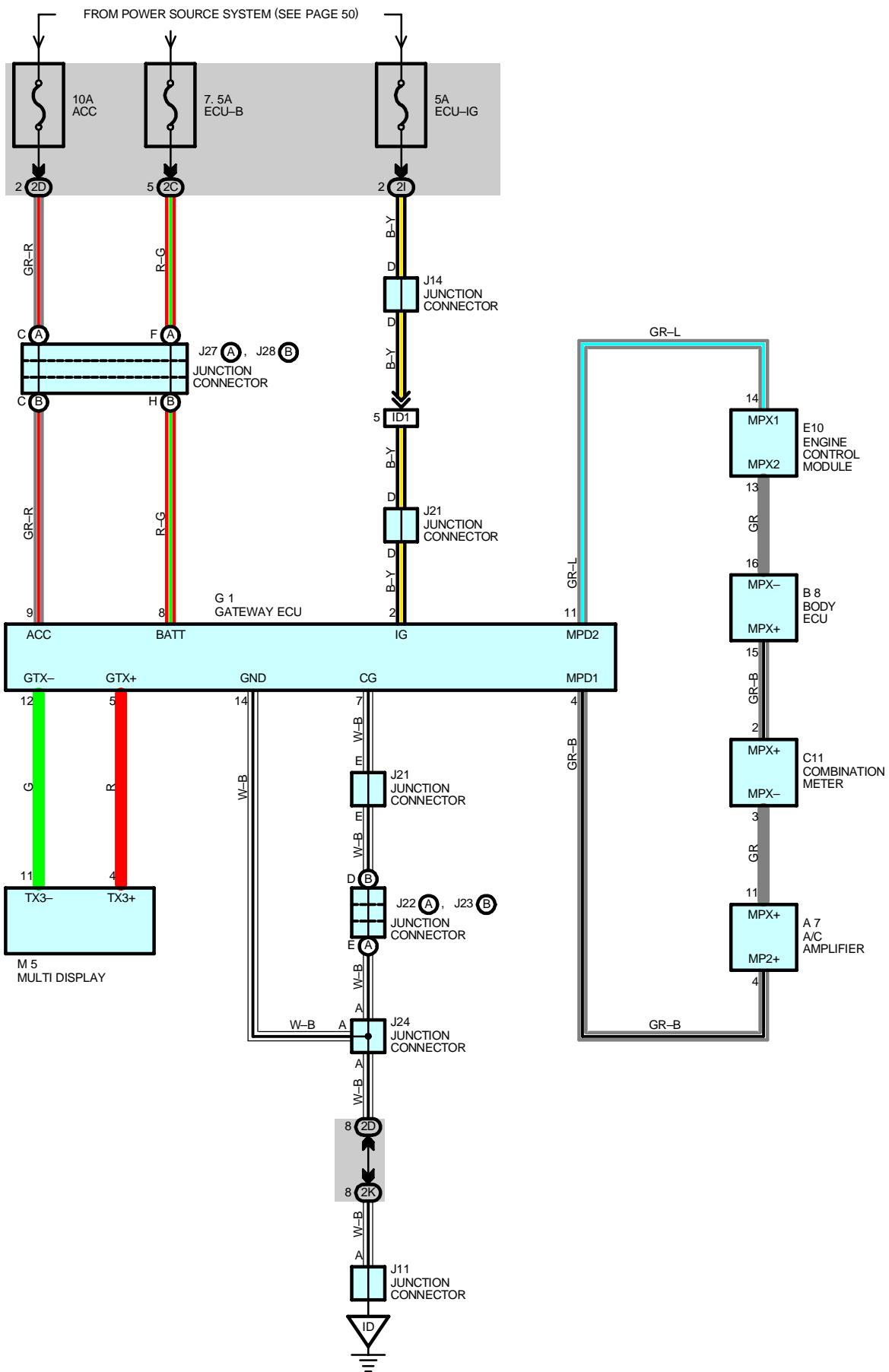
▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|----------|------------------------|
| IF | 42 | Left Kick Panel |
| IH | 42 | Right Kick Panel |

○ : SPLICE POINTS

| Code | See Page | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|----------|---------------------------------|
| I5 | 44 | Instrument Panel Wire | | | |

GATEWAY SYSTEM



SERVICE HINTS**G1 GATEWAY ECU**

- 8-GROUND : Always approx. **12** volts
2-GROUND : Approx. **12** volts with the ignition SW at **ON** position
9-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
7, 14-GROUND : Always continuity

O : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|-----------|------|-------------|------|-------------|
| A7 | 36 | J11 | 37 | J24 | 37 |
| B8 | 36 | J14 | 37 | J27 | A 37 |
| C11 | 36 | J21 | 37 | J28 | B 37 |
| E10 | 36 | J22 | A 37 | M5 | 37 |
| G1 | 37 | J23 | B 37 | | |

O : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|-----------|---|
| 2C | | |
| 2D | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2I | | |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

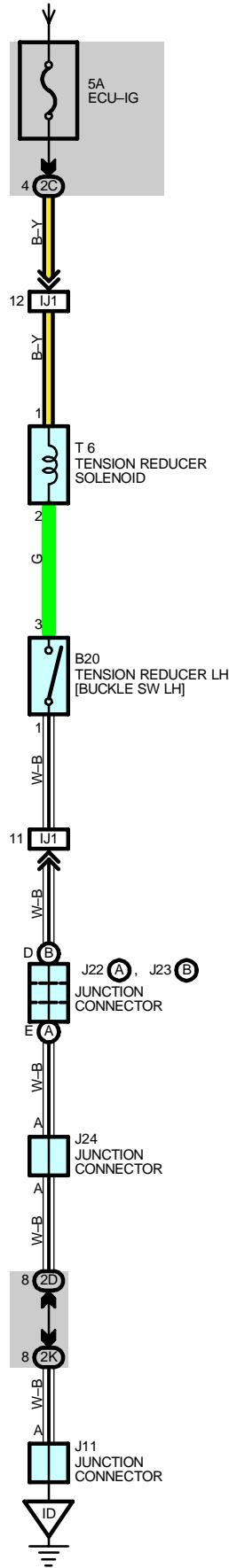
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|-----------|--|
| ID1 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |

▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|-----------|------------------------|
| ID | 42 | Cowl Side Panel LH |

ELECTRIC TENSION REDUCER

FROM POWER SOURCE SYSTEM (SEE PAGE 50)



SERVICE HINTS**T6 TENSION REDUCER SOLENOID**

1-GROUND : Approx. 12 volts with the ignition SW at **ON** position

B20 TENSION REDUCER LH

1-2 : Closed with driver's seat belt in use

O : PARTS LOCATION

| Code | See Page | Code | | See Page | Code | See Page |
|------|----------|------|---|----------|------|----------|
| B20 | 38 | J22 | A | 37 | J24 | 37 |
| J11 | 37 | J23 | B | 37 | T6 | 39 |

O : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 2C | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2D | | |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

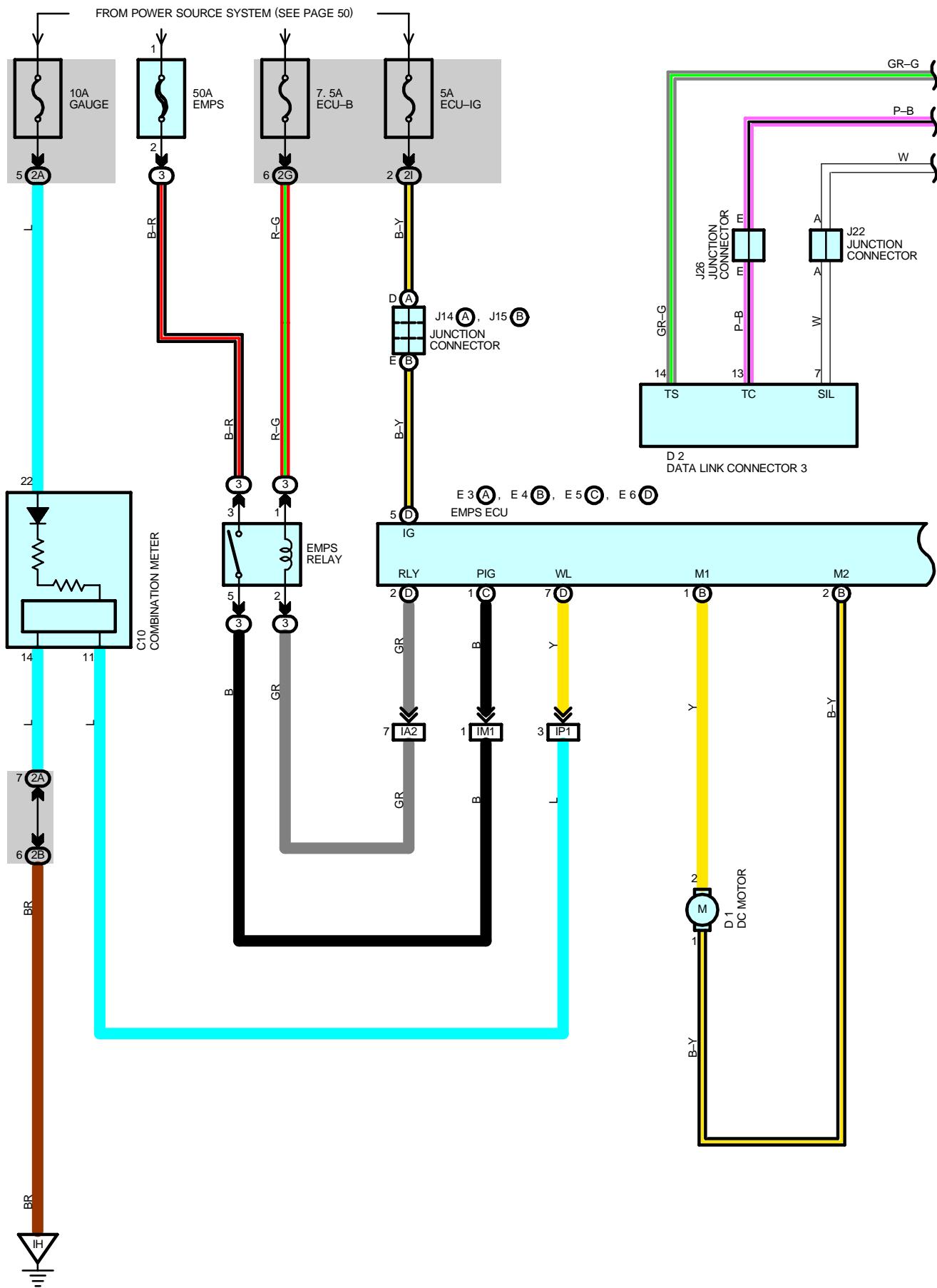
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

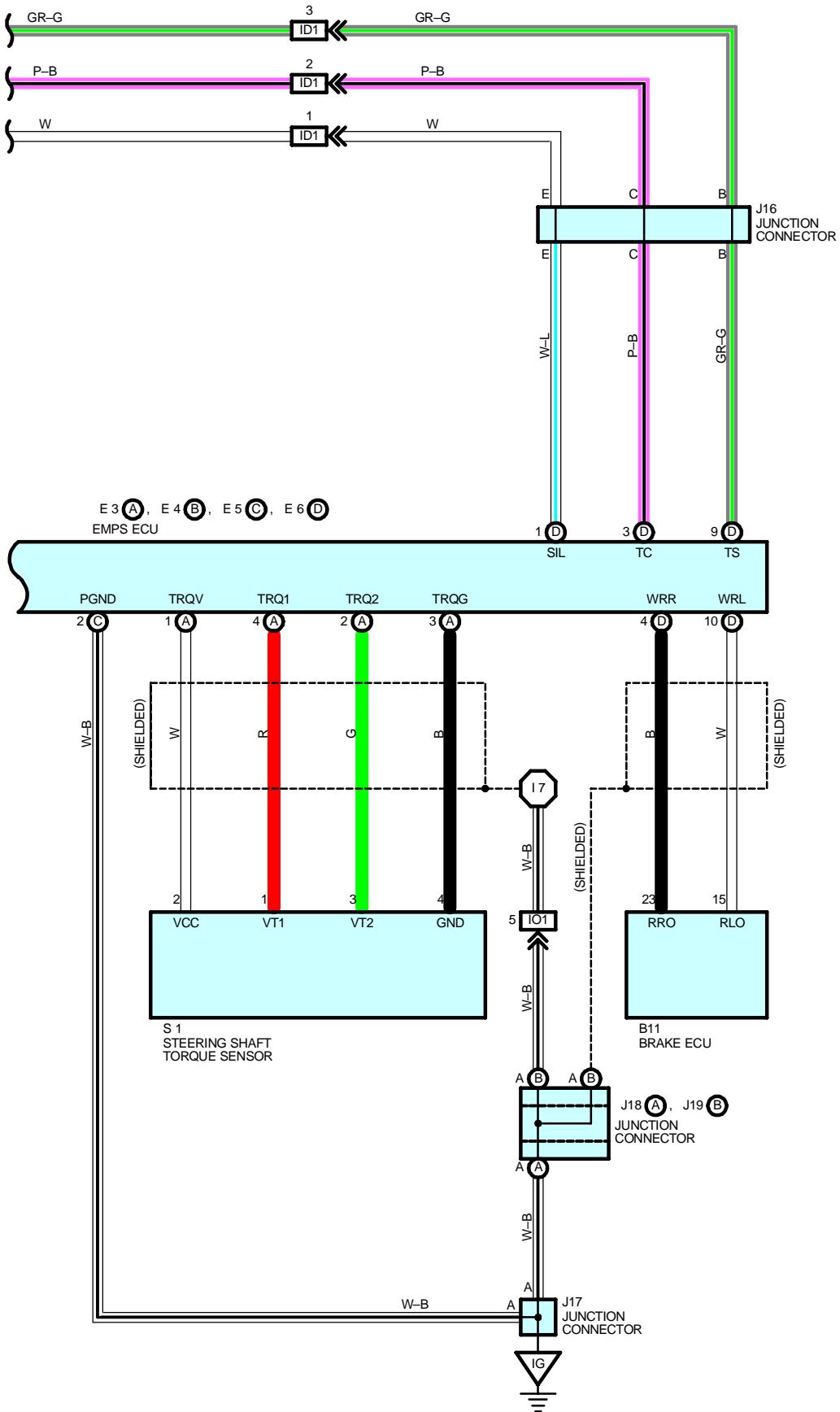
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|---|
| IJ1 | 44 | Floor No.3 Wire and Instrument Panel Wire (Under the Instrument Panel Center) |

▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|----------|------------------------|
| ID | 42 | Cowl Side Panel LH |

EMPS





EMPS

SYSTEM OUTLINE

In this system, the controller determines the direction and the amount of the assistant force based on the signals from the vehicle speed sensor and the torque sensor that is built in the gear box. The controller then assists the operation of the steering wheel by controlling the DC motor installed in the steering gear box.

SERVICE HINTS

E5 (C), E6 (D) EMPS ECU

(D) 5-GROUND : Approx. 12 volts with the ignition SW at **ON** position

(C) 2-GROUND : Always continuity

○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| B11 | 36 | E5 | C | 36 | 37 |
| C10 | 36 | E6 | D | 36 | 37 |
| D1 | 34 | J14 | A | 37 | 37 |
| D2 | 36 | J15 | B | 37 | 37 |
| E3 | A | 36 | J16 | 37 | S1 |
| E4 | B | 36 | J17 | 37 | 35 |

□ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location) |
|------|----------|---|
| 3 | 24 | Engine Room R/B No.3 (Engine Compartment Right) |

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 2A | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2B | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2I | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|--|
| IA2 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| ID1 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |
| IM1 | 44 | Engine Room Main Wire and Cowl Wire (Right Kick Panel) |
| IO1 | 44 | Engine Wire and Cowl Wire (Right Kick Panel) |
| IP1 | 44 | Instrument Panel Wire and Cowl Wire (Right Kick Panel) |

▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|----------|------------------------|
| IG | 42 | Cowl Side Panel RH |
| IH | 42 | Right Kick Panel |

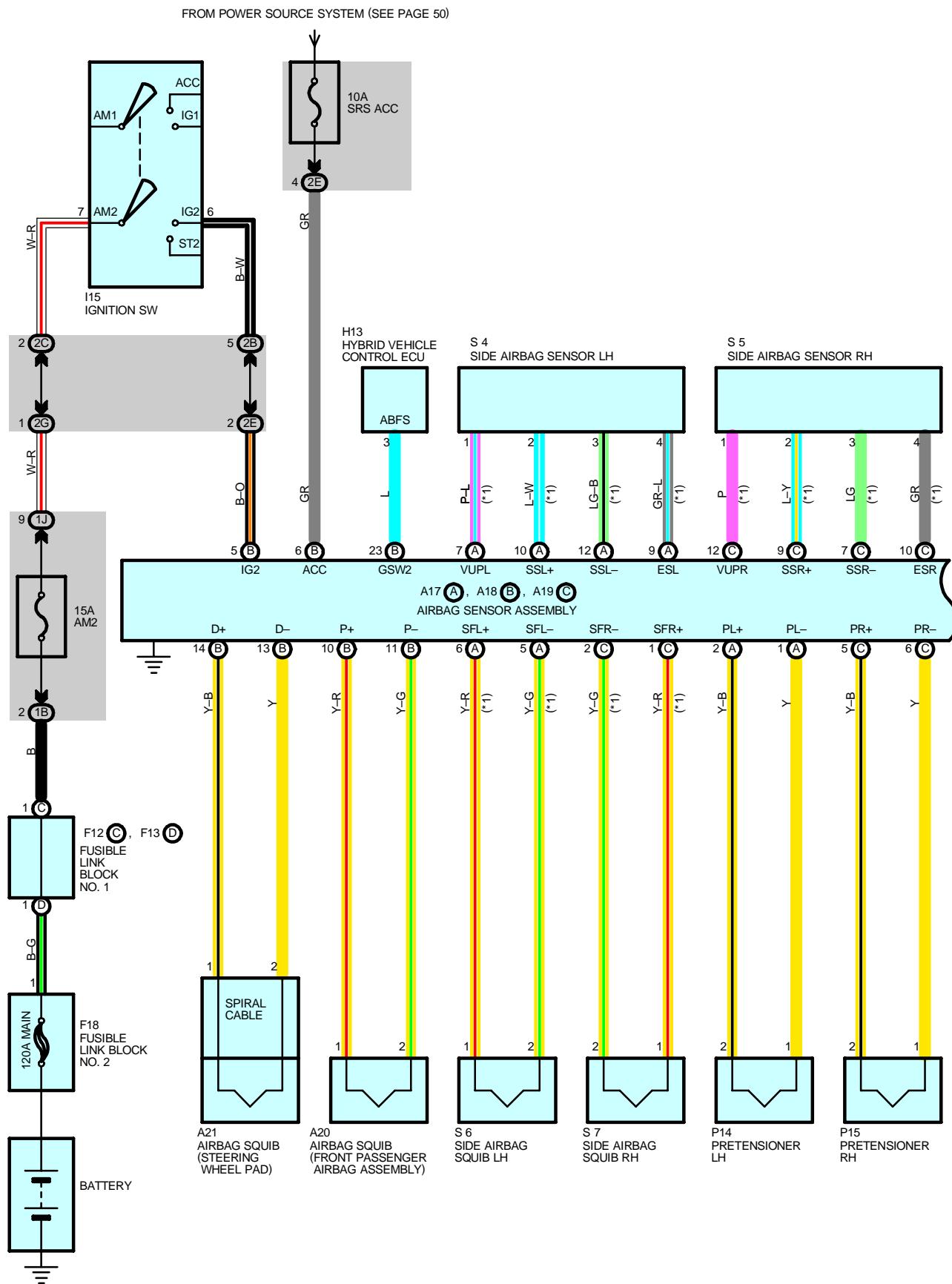
○ : SPLICE POINTS

| Code | See Page | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|----------|---------------------------------|
| I7 | 44 | Engine Wire | | | |

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

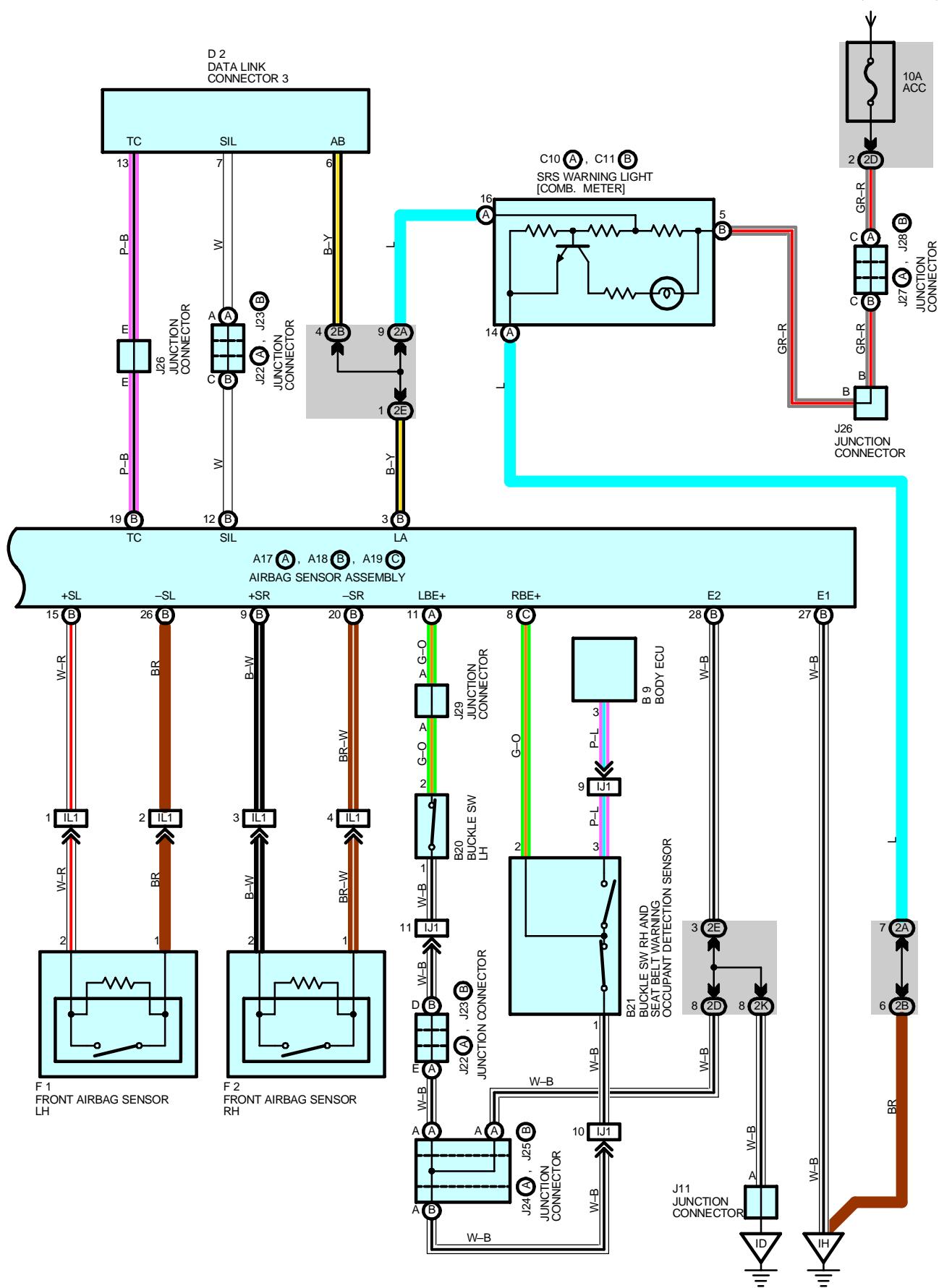
- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started after 90 seconds from when the ignition switch is turned to the "LOCK" 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 be deployed.)
- When the negative (-) terminal cable is disconnected from the battery, the memory of the clock and audio system will be canceled. So before starting work, make a record of the contents memorized in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. To avoid erasing the memory in each memory system, never use a back-up power supply from outside the vehicle.
- Before repairs, remove the airbag sensor if shocks are likely to be applied to the sensor during repairs.
- Do not expose the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly or side airbag sensor directly to hot air or flames.
- Even in cases of a minor collision where the SRS does not deploy, the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly and side airbag sensor assembly should be inspected.
- Never use SRS parts from another vehicle. When replacing parts, replace them with new parts.
- Never disassemble and repair the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly or side airbag sensor assembly in order to reuse it.
- If the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly or side airbag sensor assembly has been dropped, or if there are cracks, dents or other defects in the case, bracket or connector, replace them with new ones.
- Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting the system's electrical circuits.
- Information labels are attached to the periphery of the SRS components. Follow the instructions on the notices.
- After work on the SRS is completed, perform the SRS warning light check.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section of the Repair Manual.

SRS



* 1 : W/ SIDE AIRBAGS

FROM POWER SOURCE SYSTEM (SEE PAGE 50)



SRS

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 ACC or ON, current from the SRS ACC fuse flows to TERMINAL (B) 6 of the airbag sensor assembly. Only when the ignition SW is on does the current flow TERMINAL (B) 5 of the airbag sensor assembly. If an accident occurs while driving, when the frontal impact exceeds a set level, current flows to TERMINALS (B) 14, (B) 10, (A) 2 and (C) 5 of the airbag sensor assembly to TERMINAL 1 of the airbag squibs and the pretensioners to TERMINAL 2 to TERMINALS (B) 13, (B) 11, (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 front airbag squibs and the pretensioners and causes them to operate. When the side impact also exceeds a set level, current from the ignition SW (IG2) or SRS ACC fuse flows to TERMINALS (A) 5, (C) 2, (A) 2 and (C) 5 of the airbag sensor assembly to TERMINAL 1 of the side airbag squibs and the pretensioners to TERMINAL 2 to TERMINALS (A) 6, (C) 1, (A) 1 and (C) 6 of the airbag sensor assembly to TERMINAL (B) 27, (B) 28 or BODY GROUND to GROUND, causing side airbag squibs and the pretensioners 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. Side airbags are instantaneously expanded to soften the shock of side to the driver and front passenger (w/ side airbags). The pretensioners make sure of the seat belt restrainability.

: PARTS LOCATION

| Code | | See Page | Code | | See Page | Code | | See Page |
|------|---|----------|------|-----|----------|------|---|----------|
| A17 | A | 36 | | F1 | 34 | J25 | B | 37 |
| A18 | B | 36 | | F2 | 34 | J26 | | 37 |
| A19 | C | 36 | F12 | C | 34 | J27 | A | 37 |
| A20 | | 36 | F13 | D | 34 | J28 | B | 37 |
| A21 | | 36 | | F18 | 38 | J29 | | 37 |
| B9 | | 36 | | H13 | 37 | P14 | | 39 |
| B20 | | 38 | | I15 | 37 | P15 | | 39 |
| B21 | | 38 | | J11 | 37 | S4 | | 39 |
| C10 | A | 36 | J22 | A | 37 | S5 | | 39 |
| C11 | B | 36 | J23 | B | 37 | S6 | | 39 |
| D2 | | 36 | J24 | A | 37 | S7 | | 39 |

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1B | | |
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2A | | |
| 2B | | |
| 2C | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2D | | |
| 2E | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

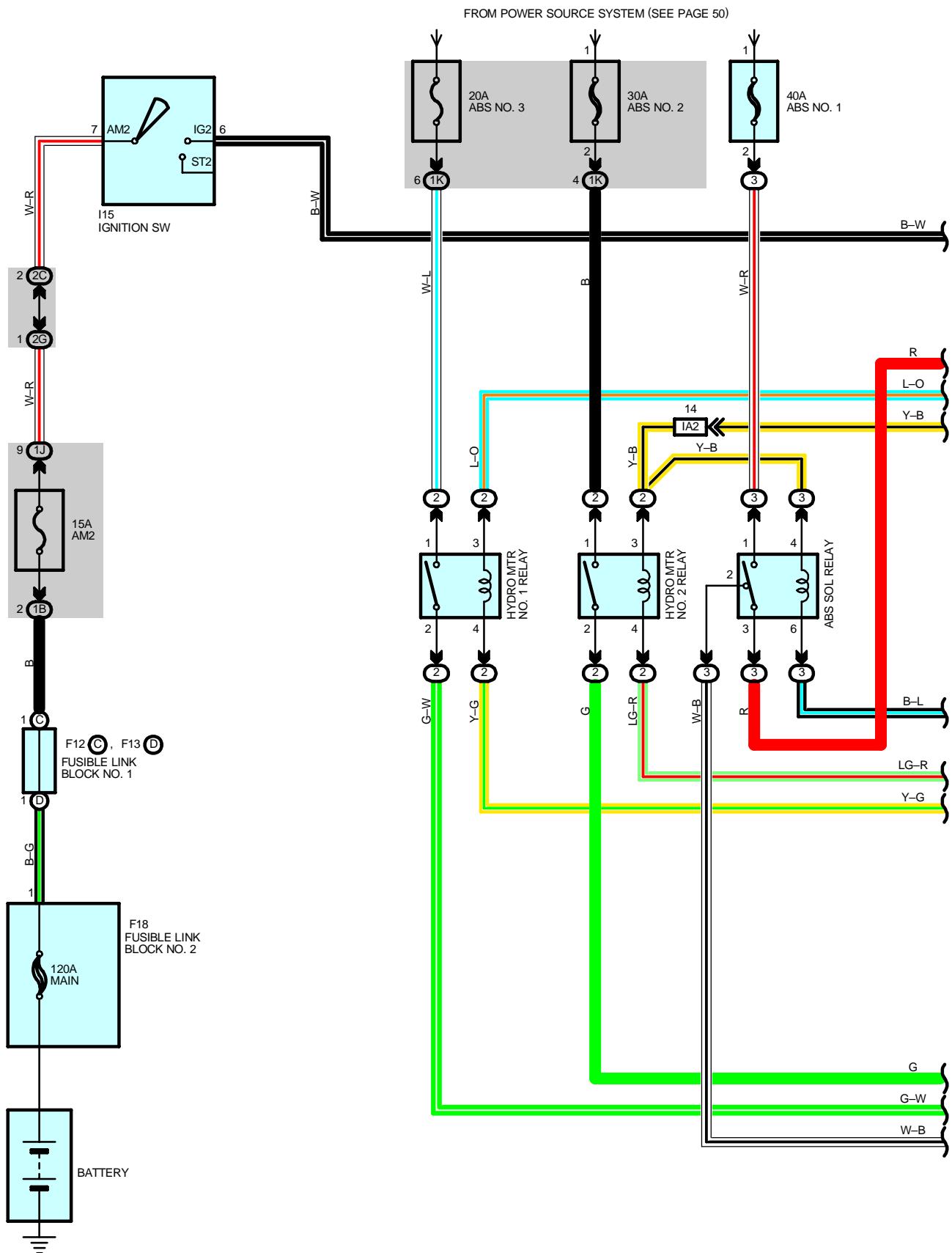
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

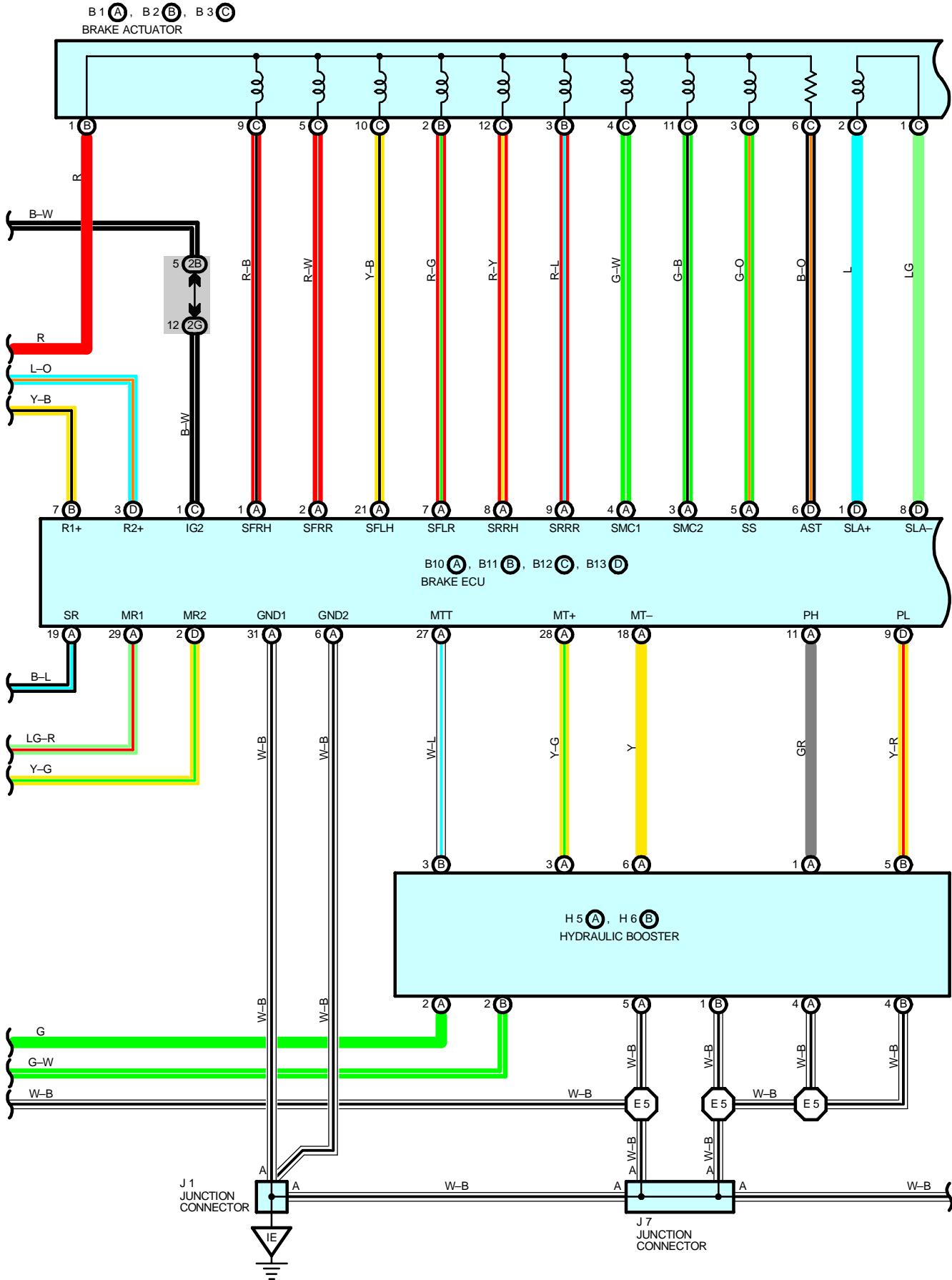
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|---|
| IJ1 | 44 | Floor No.3 Wire and Instrument Panel Wire (Under the Instrument Panel Center) |
| IL1 | 44 | Instrument Panel Wire and Engine Room Main Wire (Right Kick Panel) |

: GROUND POINTS

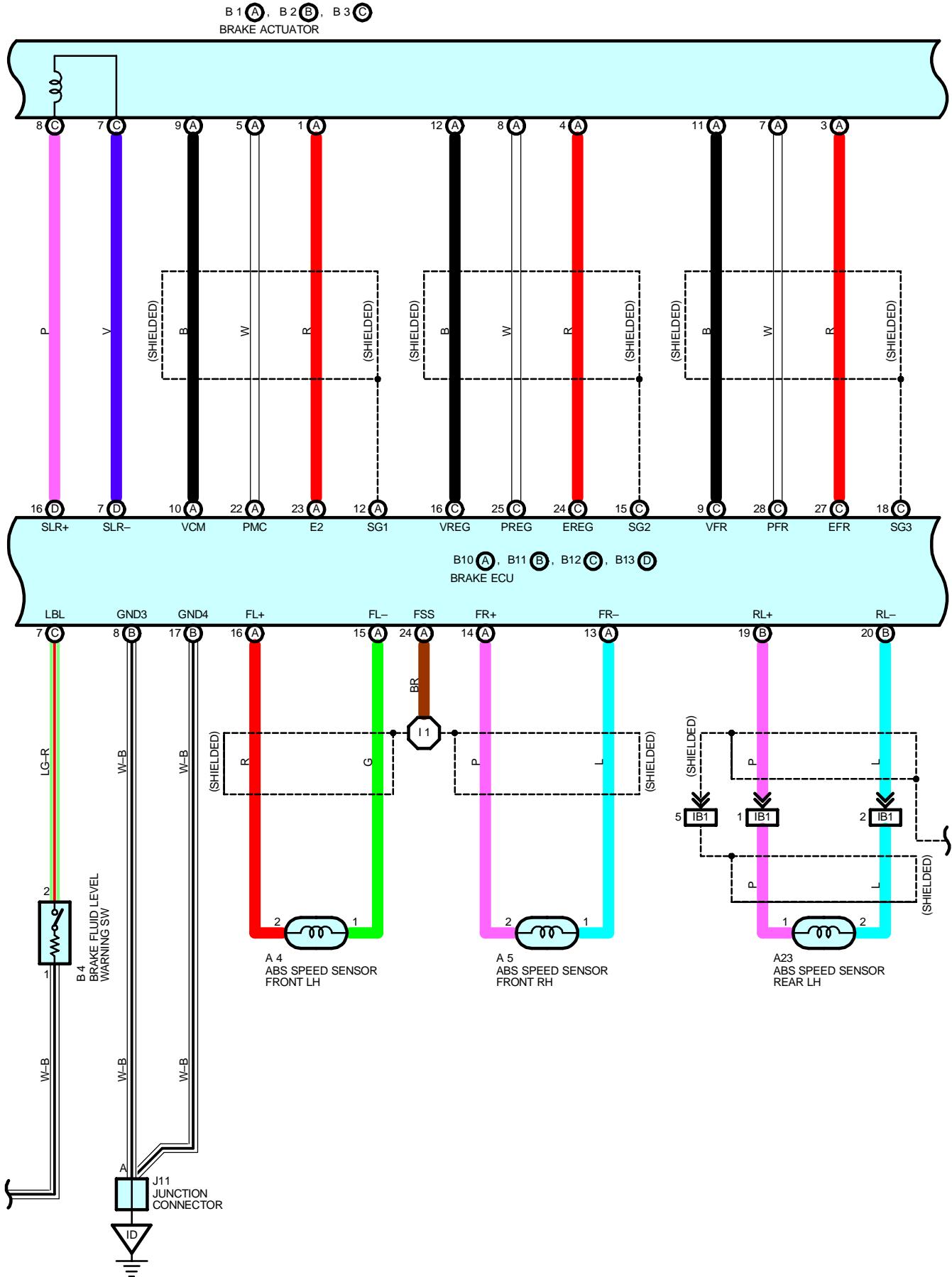
| Code | See Page | Ground Points Location |
|------|----------|------------------------|
| ID | 42 | Cowl Side Panel LH |
| IH | 42 | Right Kick Panel |

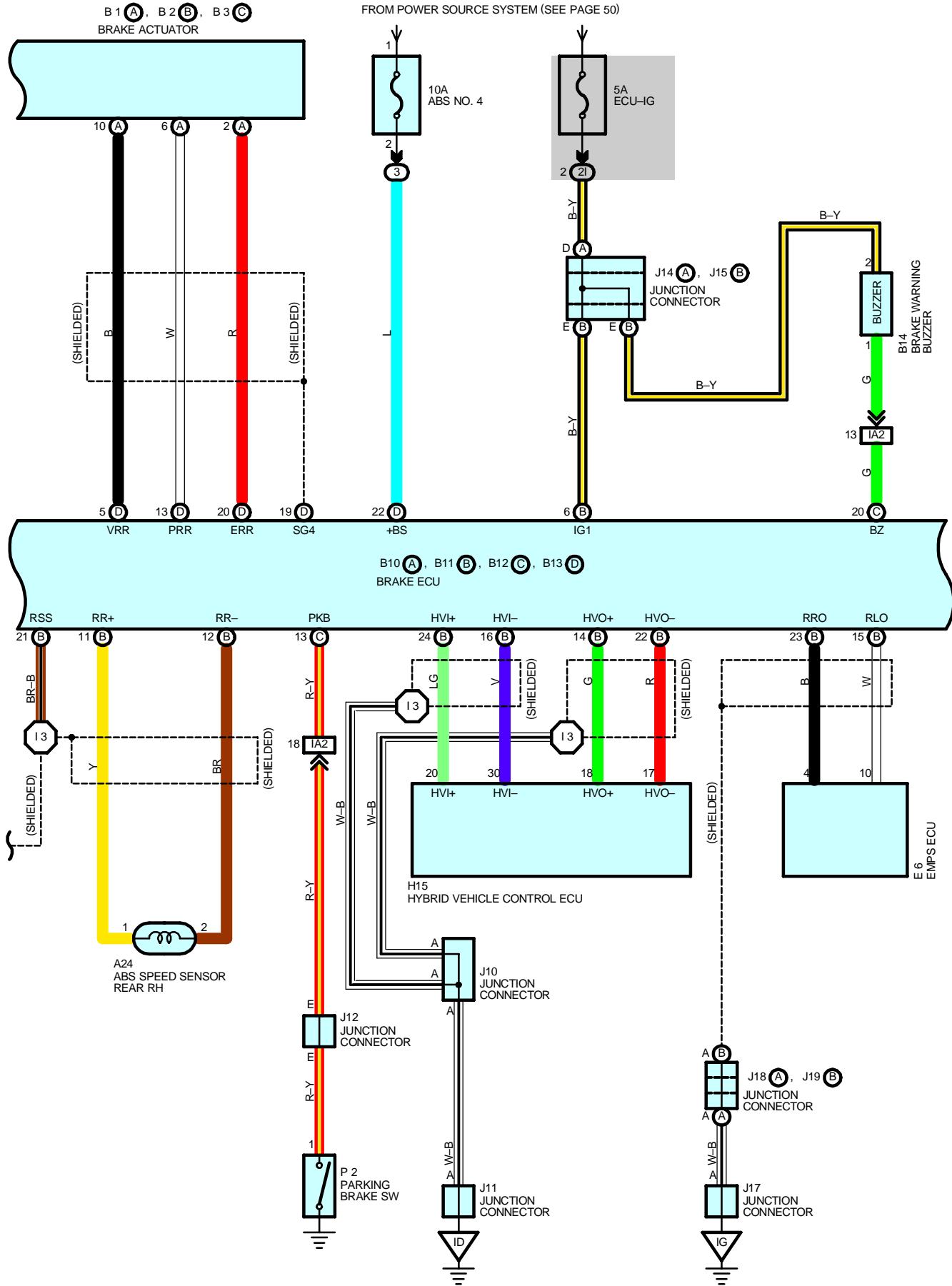
ABS



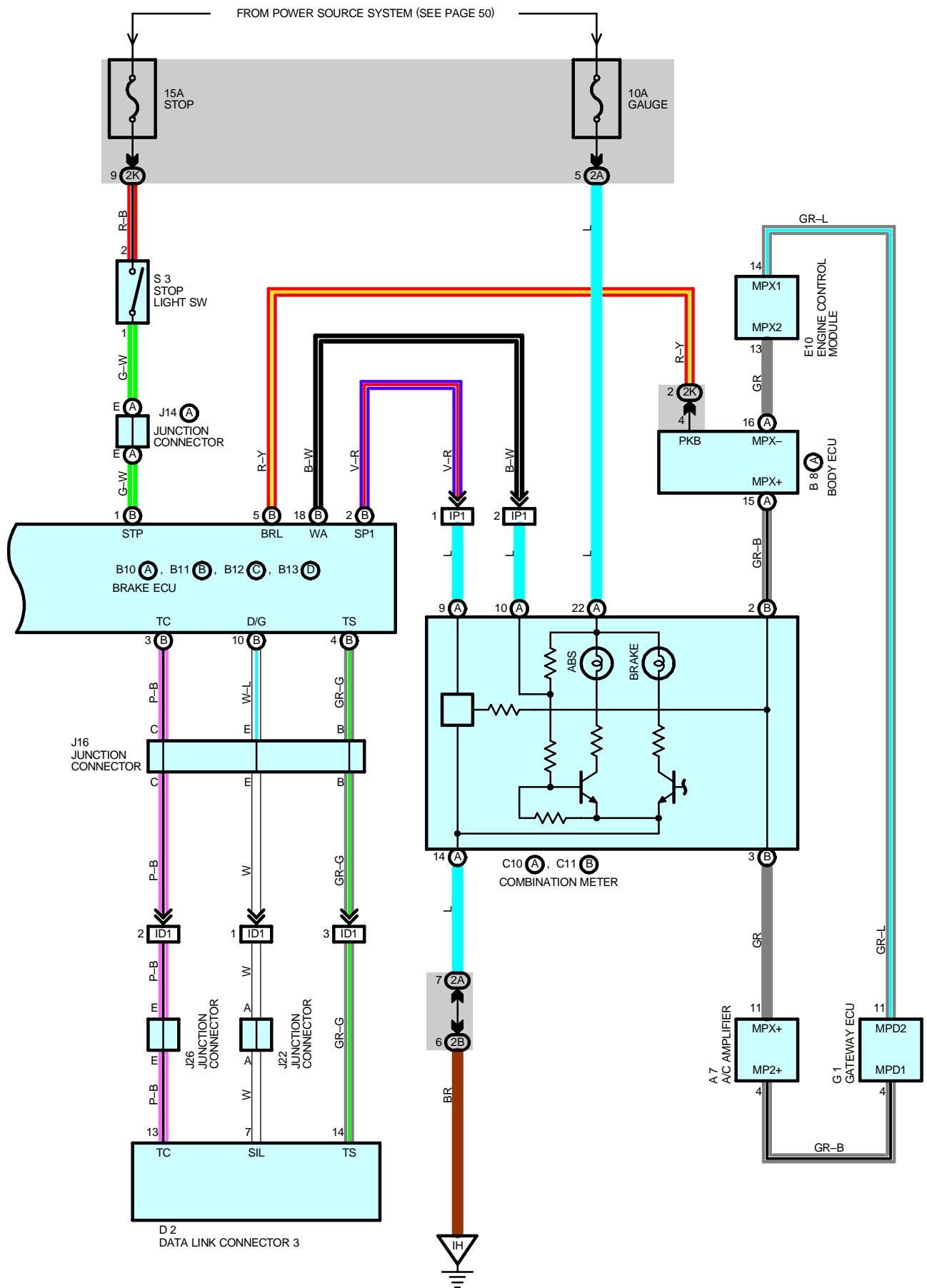


ABS





ABS



SYSTEM OUTLINE

1. INPUT SIGNALS

(1) Speed sensor signal

The speed of the wheels is detected and input to TERMINALS FL+, FR+, RL+ and RR+ of the brake ECU.

(2) Stop light SW signal

A signal is input to TERMINAL STP of the brake ECU when the brake pedal is depressed.

2. ABS SYSTEM OPERATION

During sudden braking the brake ECU has signals input from each sensor, which controls the current to the solenoid inside the actuator and lets the hydraulic pressure acting on each wheel cylinder escape to the reservoir. The pump inside the actuator is also operating at this time and it returns the brake fluid from the reservoir to the master cylinder, thus preventing locking of the vehicle wheels.

If the brake ECU judges that the hydraulic pressure acting on the wheel cylinder is insufficient, the current on the solenoid is controlled and the hydraulic pressure is increased. Holding of the hydraulic pressure is also controlled by the brake ECU, by the same method as above. Pressure reduction, holding and increase are repeated to maintain vehicle stability and to improve steerability during sudden braking.

SERVICE HINTS

A4, A5 ABS SPEED SENSOR FRONT LH, RH

2-1 : 1.4–1.8 kΩ (20°C, 68°F)

A23, A24 ABS SPEED SENSOR REAR LH, RH

2-1 : 1.04–1.3 kΩ (20°C, 68°F)

B10 (A), B11 (B), B12 (C), B13 (D) BRAKE ECU

(B) 6, (C) 1-GROUND : Approx. 12 volts with the ignition SW at ON position

(D) 22-GROUND : Always approx. 12 volts

(A) 6, (A) 31-GROUND : Always continuity

○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| A4 | 34 | C10 | A | 36 | 37 |
| A5 | 34 | C11 | B | 36 | 37 |
| A7 | 36 | D2 | 36 | J12 | 37 |
| A23 | 38 | E6 | 36 | J14 | A |
| A24 | 38 | E10 | 36 | J15 | B |
| B1 | A | 34 | F12 | C | 34 |
| B2 | B | 34 | F13 | D | 34 |
| B3 | C | 34 | F18 | 38 | 37 |
| B4 | 34 | G1 | 37 | J19 | B |
| B8 | A | 36 | H5 | A | 34 |
| B10 | A | 36 | H6 | B | 34 |
| B11 | B | 36 | H15 | 38 | P2 |
| B12 | C | 36 | I15 | 37 | S3 |
| B13 | D | 36 | J1 | 37 | |
| B14 | 36 | J7 | 37 | | |

○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location) |
|------|----------|---|
| 2 | 23 | Engine Room R/B No.2 (Right Side of Reserve Tank) |
| 3 | 24 | Engine Room R/B No.3 (Engine Compartment Right) |

ABS



: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|---|
| 1B | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 1J | | |
| 1K | | |
| 2A | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2B | | |
| 2C | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2I | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | | |



: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|--|
| IA2 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| IB1 | 42 | Floor Wire and Cowl Wire (Cowl Side Panel LH) |
| ID1 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |
| IP1 | 44 | Instrument Panel Wire and Cowl Wire (Right Kick Panel) |



: GROUND POINTS

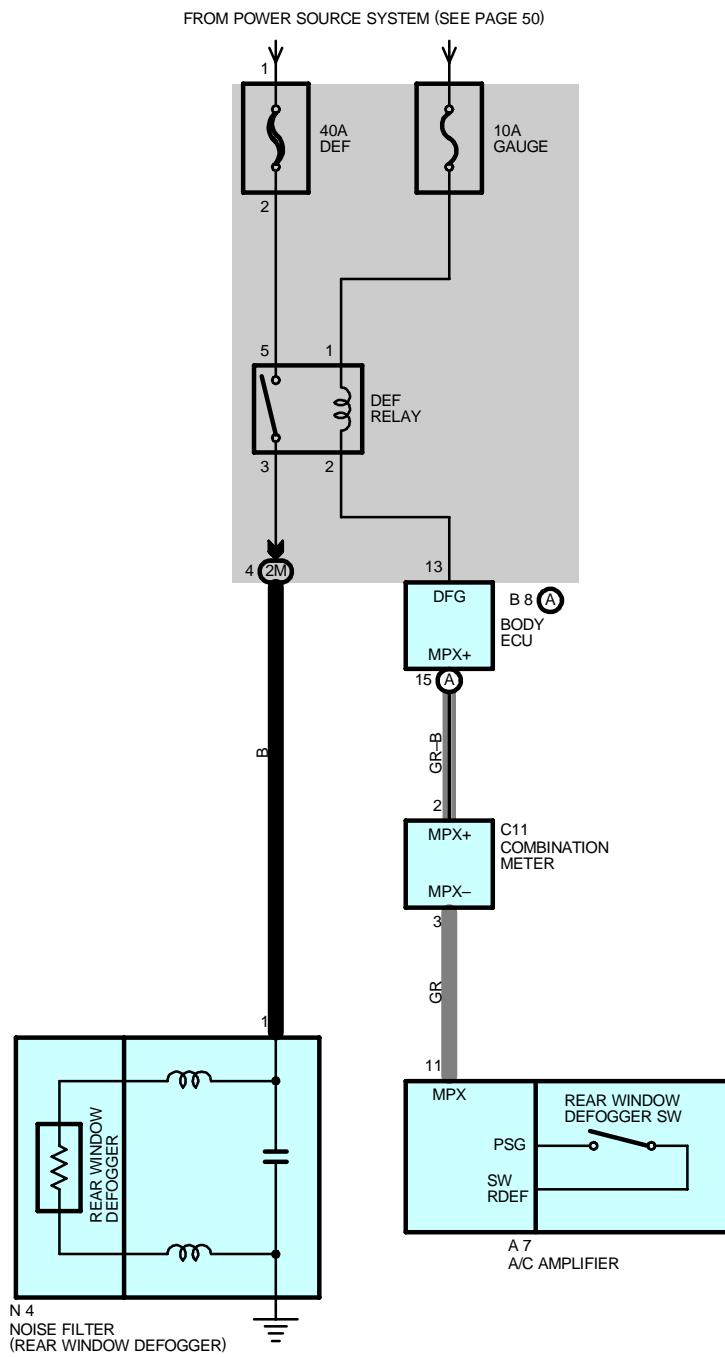
| Code | See Page | Ground Points Location |
|------|----------|------------------------|
| ID | | |
| IE | 42 | Cowl Side Panel LH |
| IG | 42 | Cowl Side Panel RH |
| IH | 42 | Right Kick Panel |



: SPLICE POINTS

| Code | See Page | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|----------|---------------------------------|
| E5 | 40 | Engine Room Main Wire | I3 | 44 | Cowl Wire |
| I1 | 44 | | | | |

REAR WINDOW DEFOGGER



SERVICE HINTS**DEF RELAY**

5–3 : Closed with the ignition SW on and the rear window defogger SW on

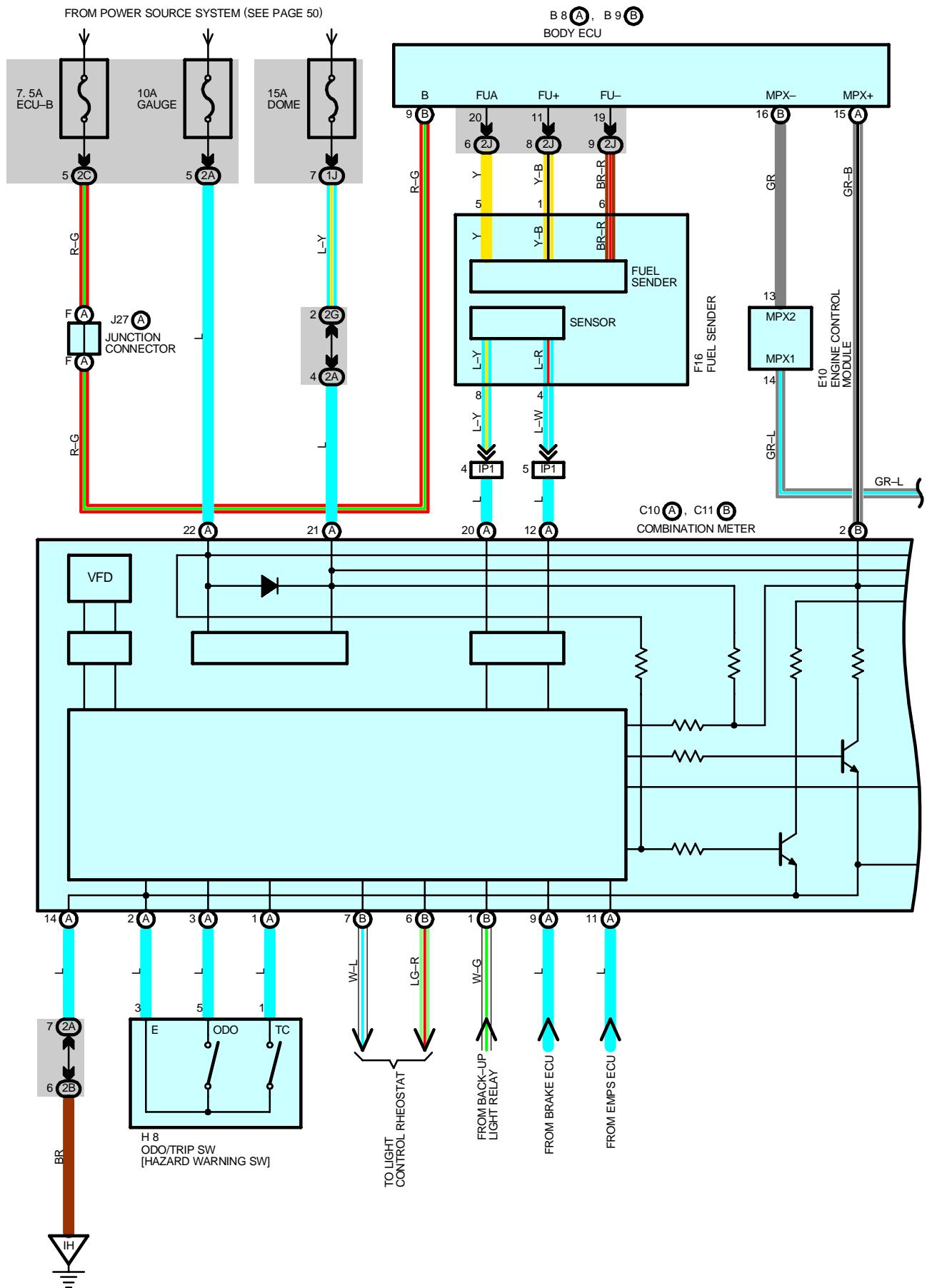
O : PARTS LOCATION

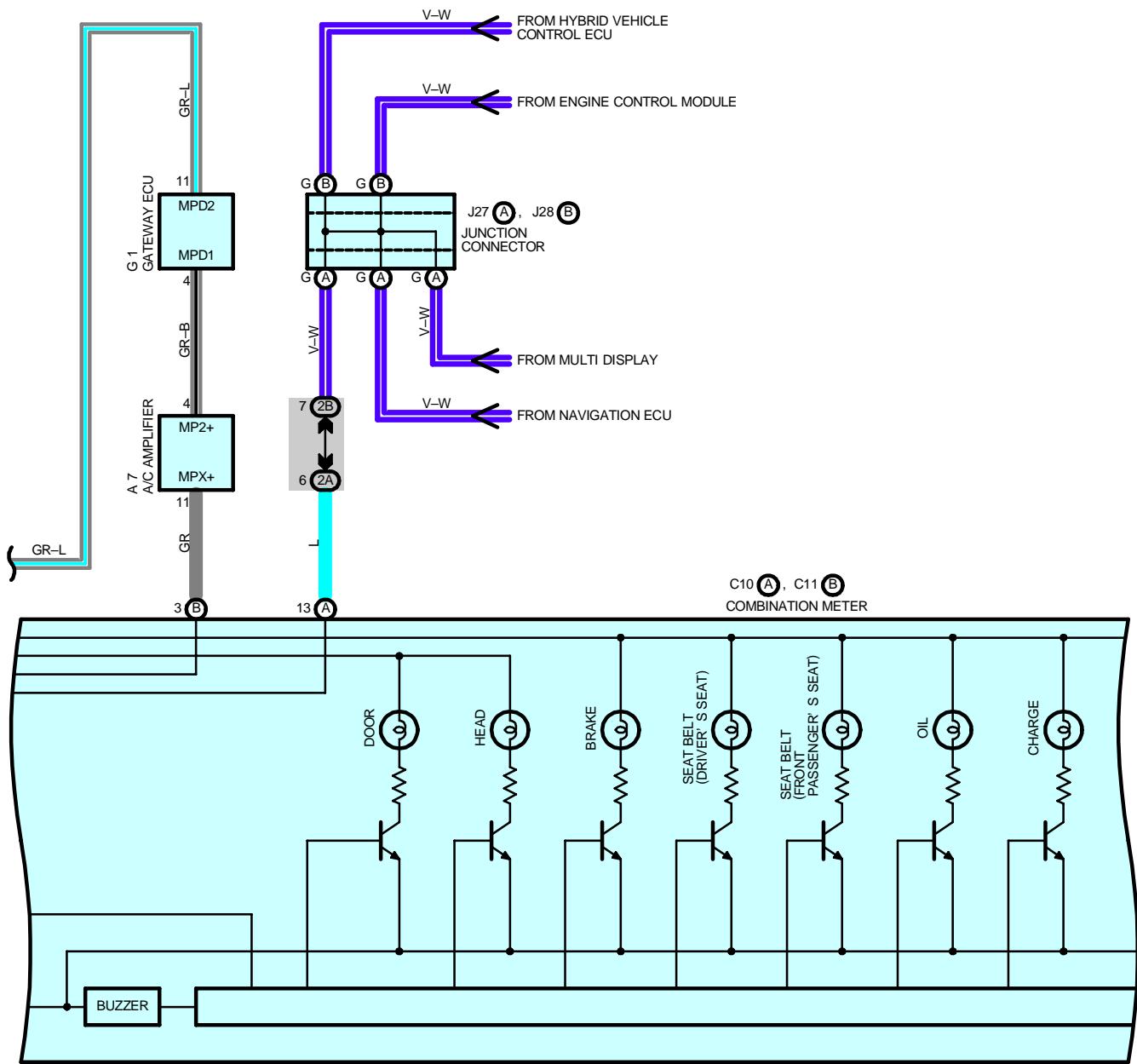
| Code | See Page | Code | See Page | Code | See Page |
|------|--------------------|--------------------|--------------------|--------------------|----------|
| A7 | 36 | C11 | 36 | | |
| B8 | A | 36 | N4 | 39 | |

O : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

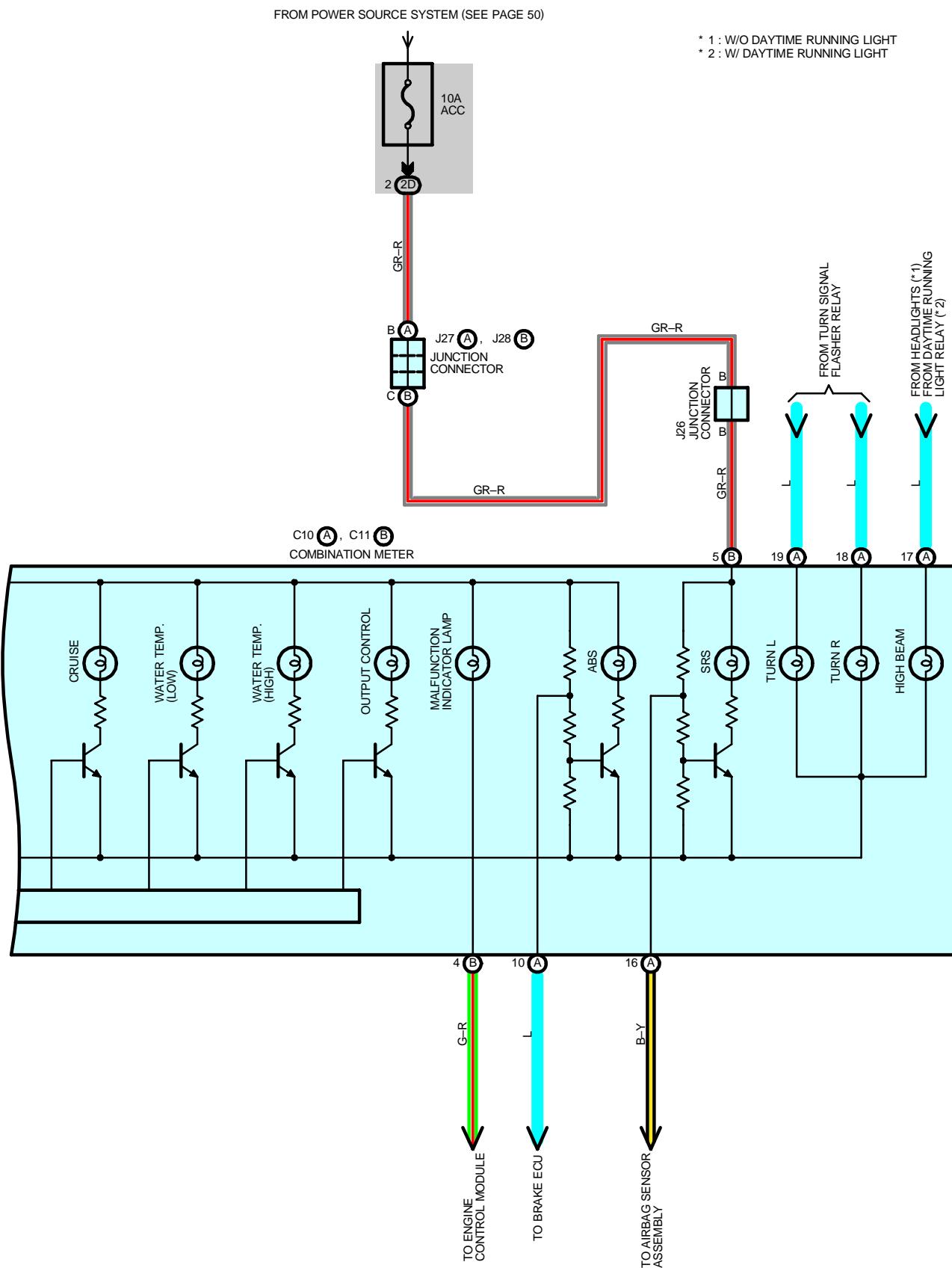
| | | |
|------|--------------------|--|
| Code | See Page | Junction Block and Wire Harness (Connector Location) |
| 2M | 31 | Floor Wire and Instrument Panel J/B (Cowl Side Panel LH) |

COMBINATION METER





COMBINATION METER



SERVICE HINTS**C10 (A), C11 (B) COMBINATION METER**

- (A)22-GROUND : Approx. **12** volts with the ignition SW at **ON** position
 (B) 5-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ACC** position
 (A)21-GROUND : Always approx. **12** volts
 (A)14-GROUND : Always continuity

○ : PARTS LOCATION

| Code | | See Page | Code | | See Page | Code | | See Page |
|------|---|-----------|------|---|-----------|------|---|-----------|
| A7 | | 36 | C11 | B | 36 | H8 | | 37 |
| B8 | A | 36 | E10 | | 36 | J26 | | 37 |
| B9 | B | 36 | F16 | | 38 | J27 | A | 37 |
| C10 | A | 36 | G1 | | 37 | J28 | B | 37 |

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|-----------|---|
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2A | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2B | | |
| 2C | | |
| 2D | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2J | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

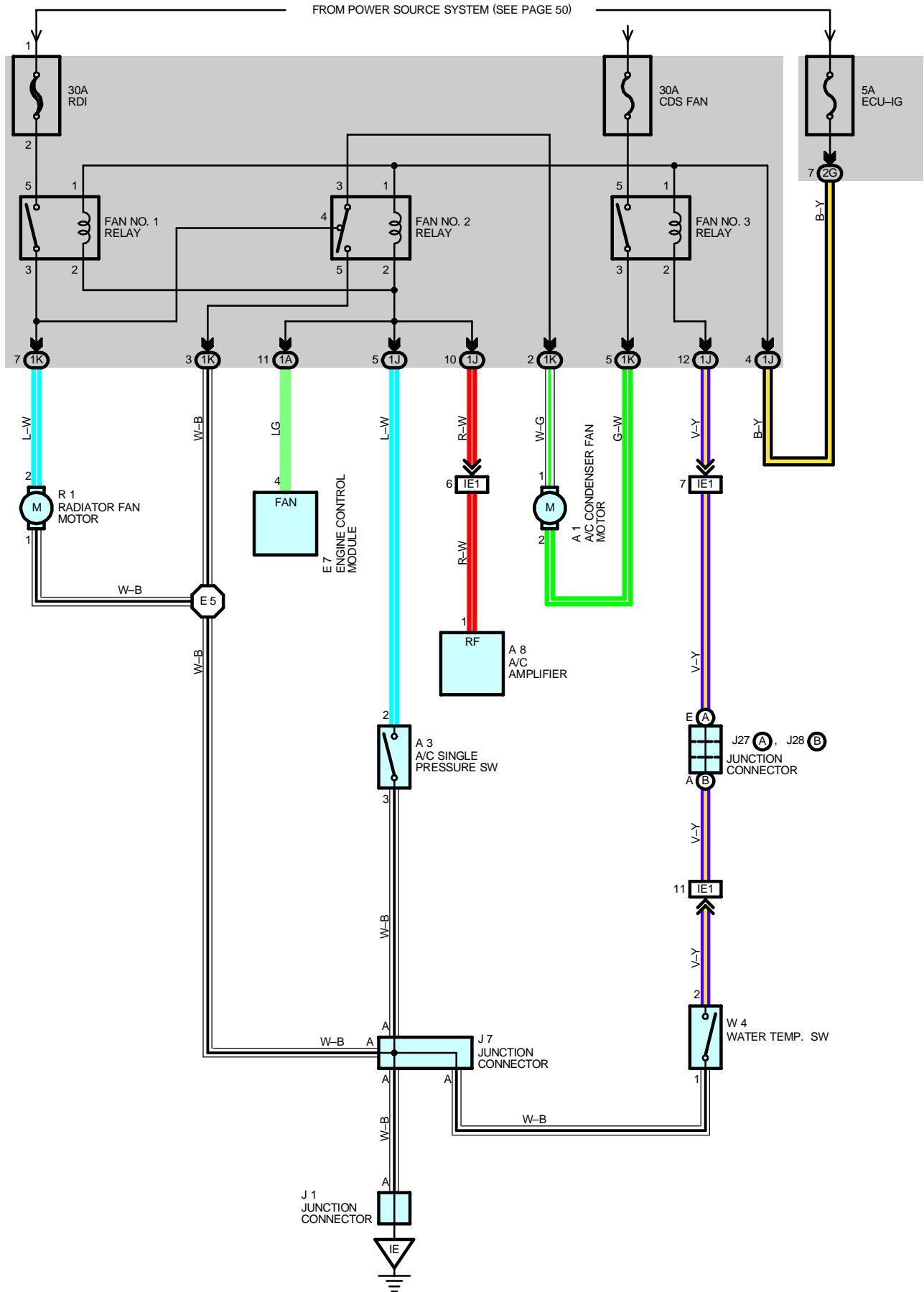
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|-----------|--|
| IP1 | 44 | Instrument Panel Wire and Cowl Wire (Right Kick Panel) |

▽ : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|-----------|------------------------|
| IH | 42 | Right Kick Panel |

RADIATOR FAN AND CONDENSER FAN



SYSTEM OUTLINE

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

1. LOW SPEED OPERATION

When the water temp. SW (Inverter) is on, the radiator fan motor and A/C condenser fan motor operates at low speed.

2. HIGH SPEED OPERATION

When the water temp. SW (Inverter) is on, if the A/C system is operating A/C single pressure SW is on, the radiator fan motor and A/C condenser fan motor operates at high speed.

SERVICE HINTS

A3 A/C SINGLE PRESSURE SW

3-2 : Close above approx. 15.2 kgf/cm² (220 psi, 1520 kpa)
Open below approx. 12.3 kgf/cm² (178 psi, 1230 kpa)

○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| A1 | 34 | J1 | 37 | R1 | 35 |
| A3 | 34 | J7 | 37 | W4 | 35 |
| A8 | 36 | J27 | A | 37 | |
| E7 | 36 | J28 | B | 37 | |

□ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| | | |
|------|----------|---|
| Code | See Page | Junction Block and Wire Harness (Connector Location) |
| 1A | 27 | Engine Wire and Engine Room J/B (Engine Compartment Left) |
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 1K | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| | | |
|------|----------|---|
| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
| IE1 | 42 | Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel) |

▽ : GROUND POINTS

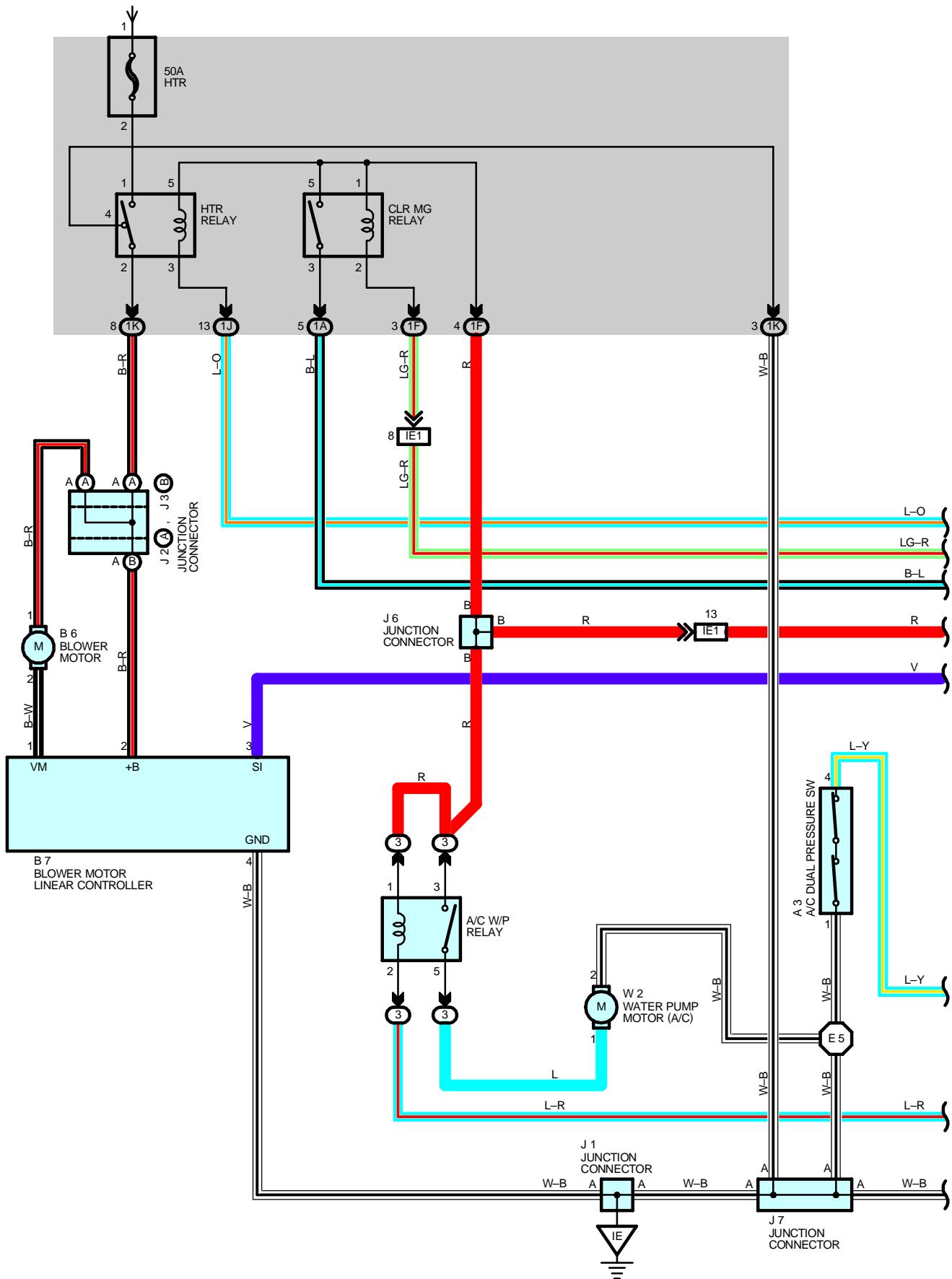
| | | |
|------|----------|------------------------|
| Code | See Page | Ground Points Location |
| IE | 42 | Cowl Side Panel LH |

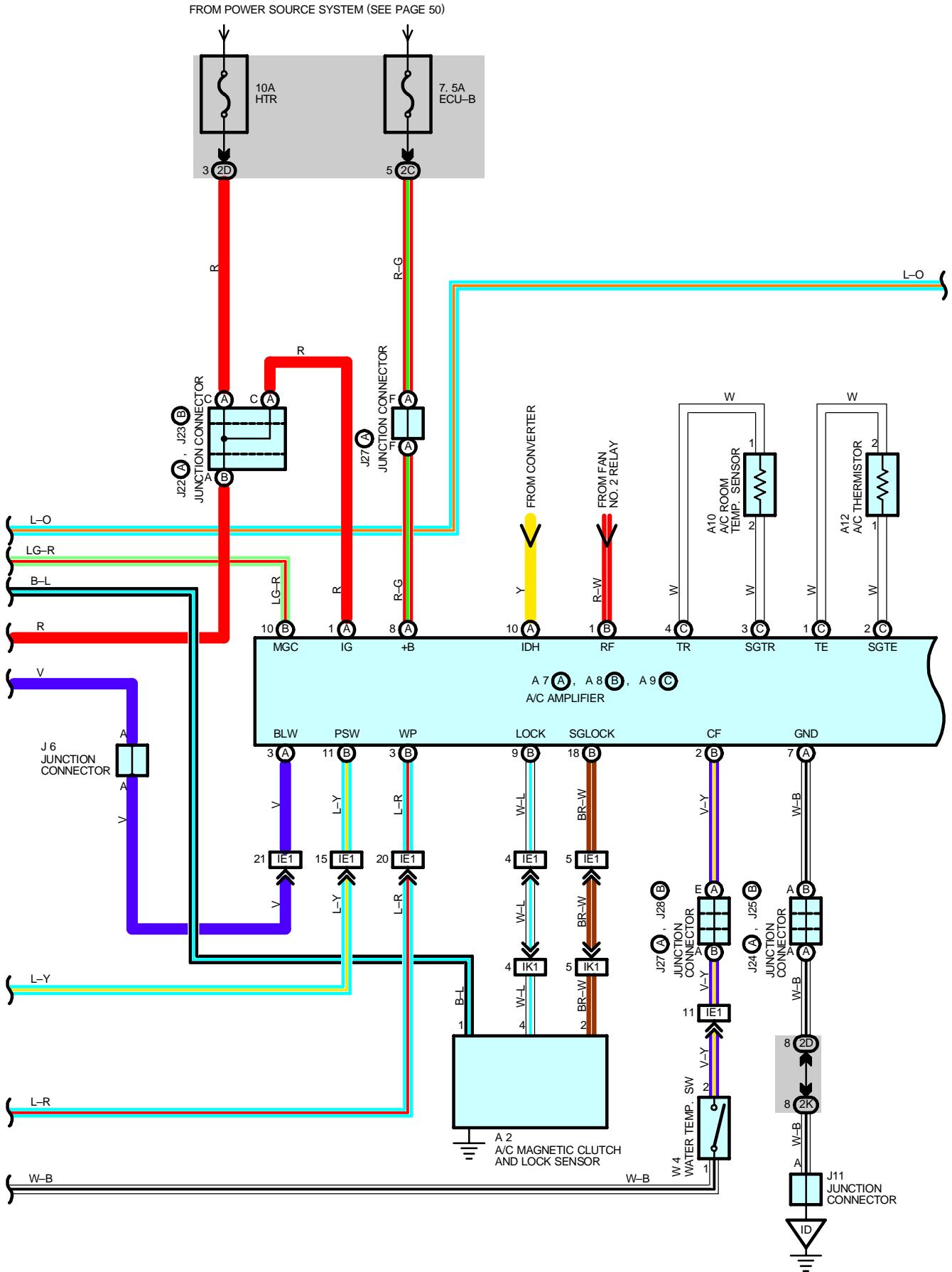
○ : SPLICE POINTS

| | | | | | |
|------|----------|---------------------------------|------|----------|---------------------------------|
| Code | See Page | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
| E5 | 40 | Engine Room Main Wire | | | |

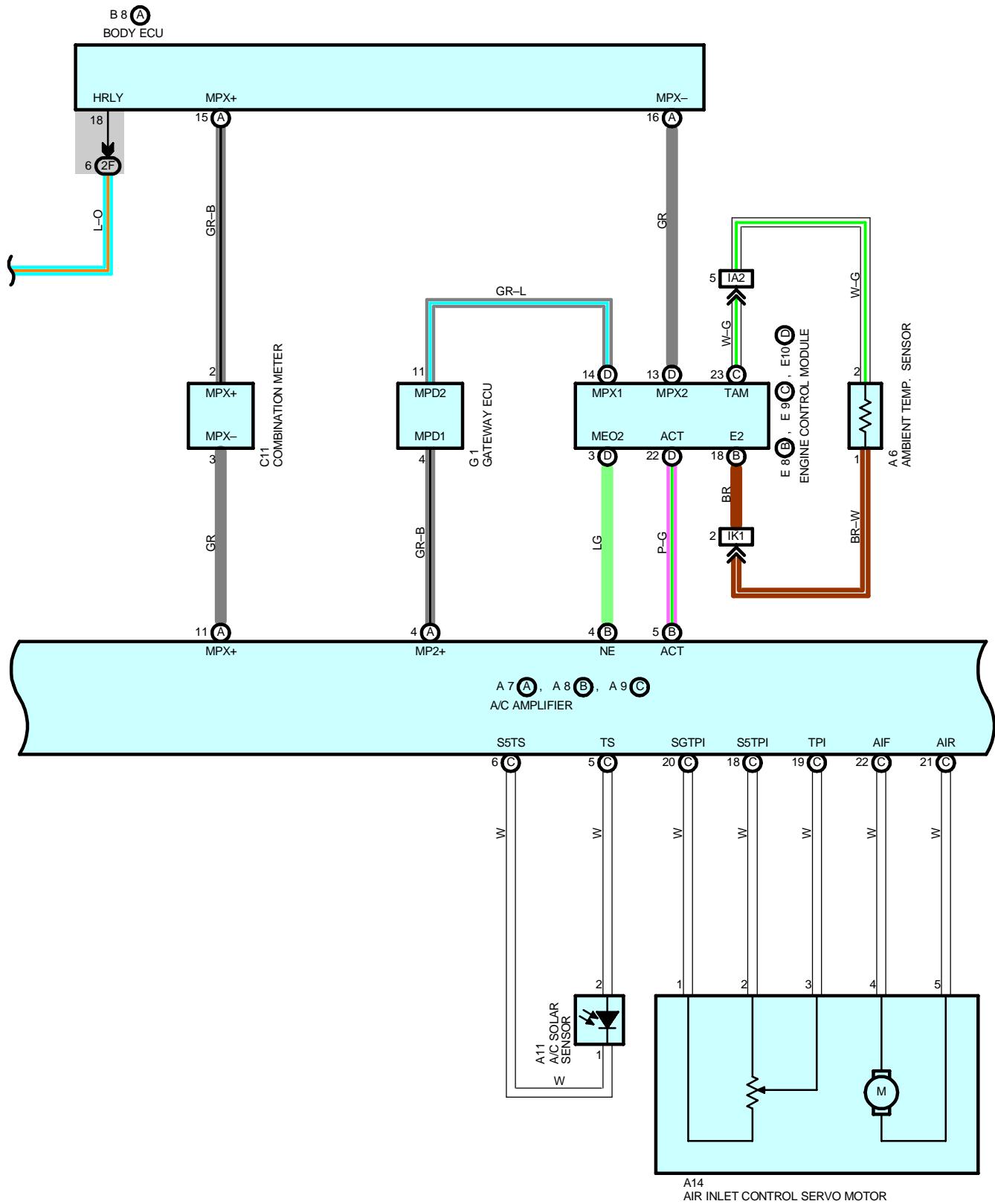
AIR CONDITIONING

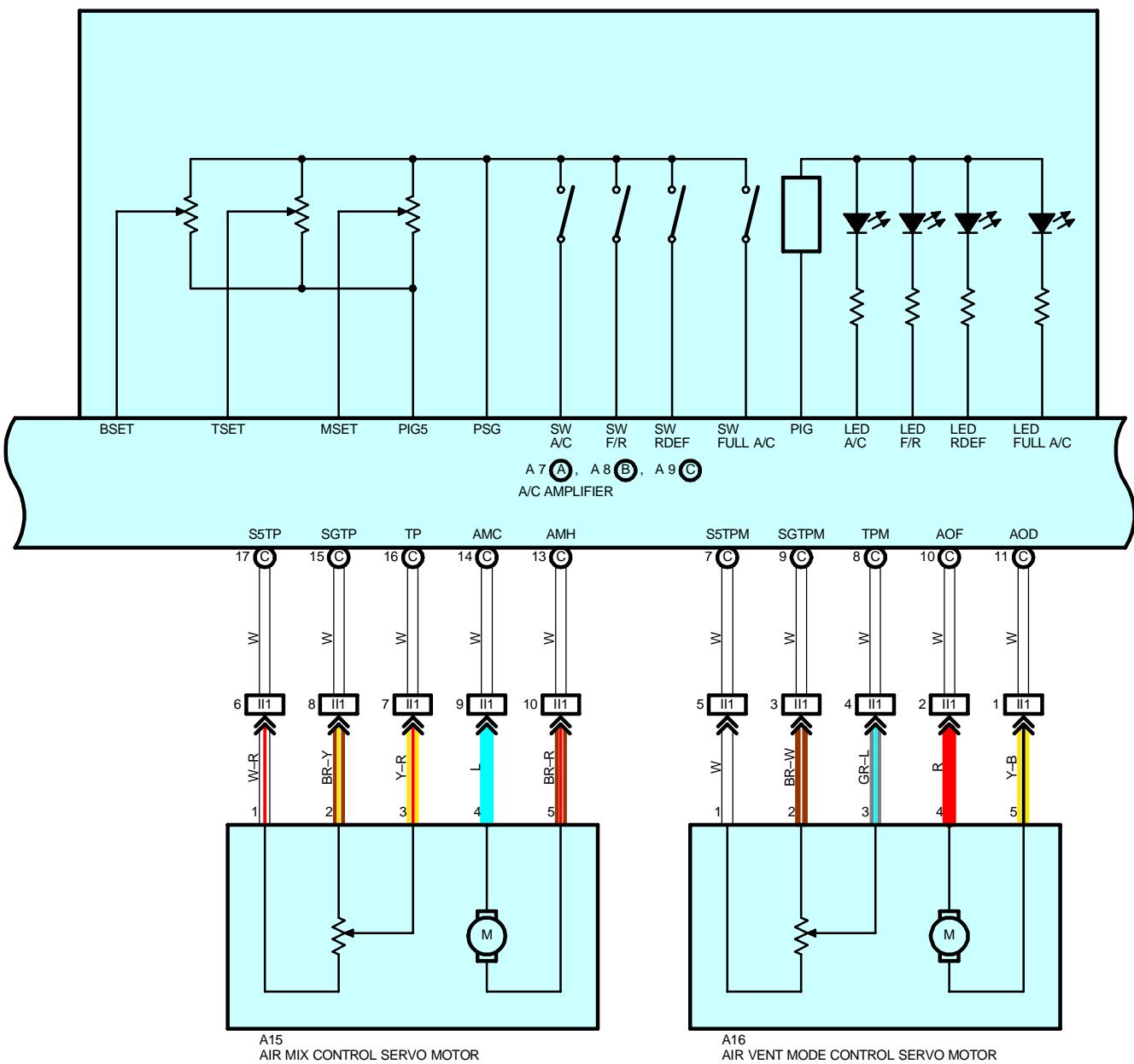
FROM POWER SOURCE SYSTEM (SEE PAGE 50)



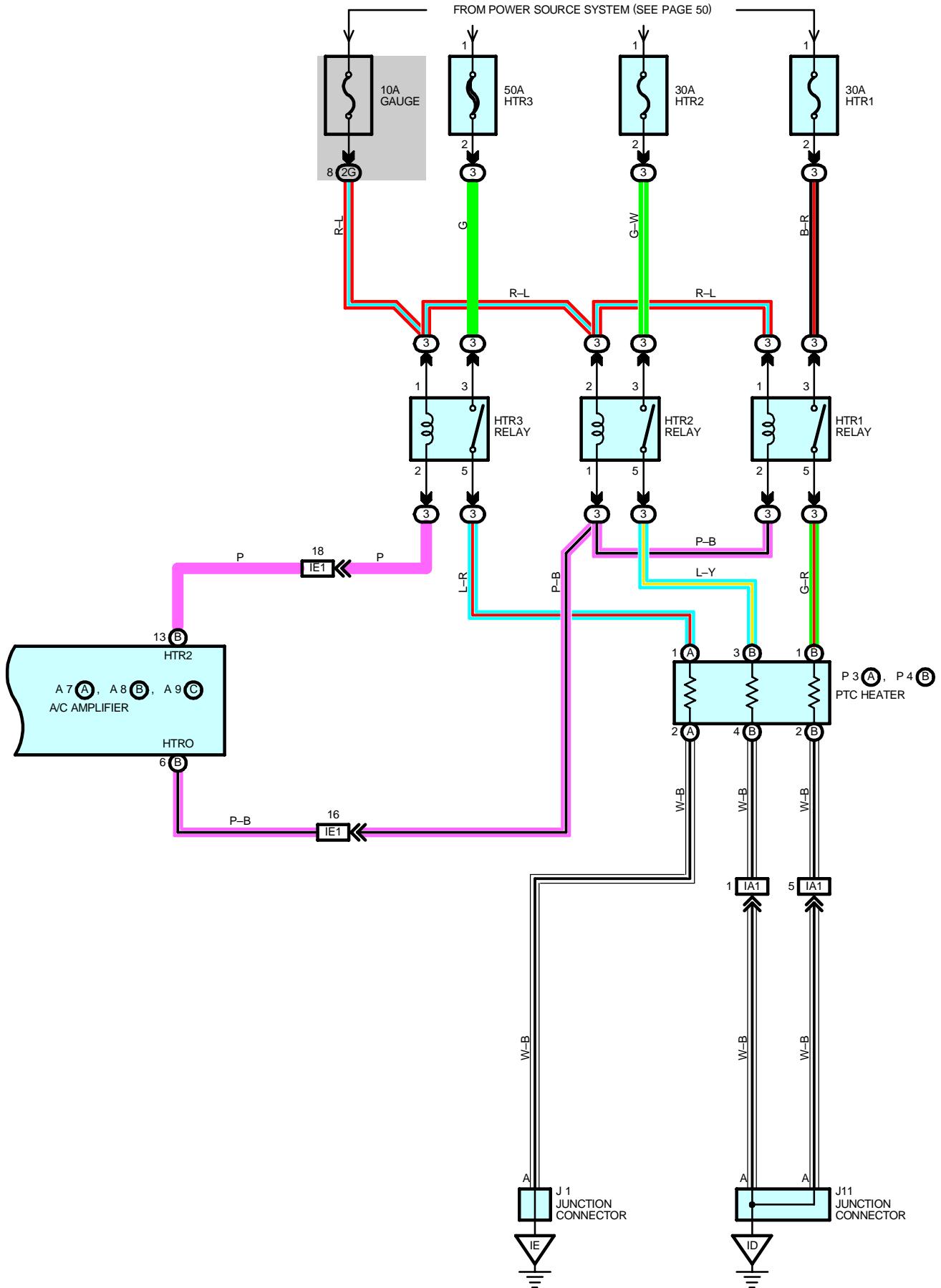


AIR CONDITIONING





AIR CONDITIONING



SERVICE HINTS

A3 A/C DUAL PRESSURE SW

1–4 : Open with the refrigerant pressure at less than approx. **196 kpa (2.0 kgf/cm², 28.4 psi)**, or more than approx. **3140 kpa (32 kgf/cm², 455 psi)**,

A7 (A), A8 (B), A9 (C) A/C AMPLIFIER

- (A) 8-GROUND : Always approx. **12** volts
- (A) 1-GROUND : Approx. **12** volts with the ignition SW at **ON** position
- (A)24-GROUND : Always continuity

: PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|--------------------|--------------------|--------------------|--------------------|--------------------|
| A2 | 34 | B6 | 36 | J7 | 37 |
| A3 | 34 | B7 | 36 | J11 | 37 |
| A6 | 34 | B8 | A | 36 | 37 |
| A7 | A | 36 | C11 | 36 | 37 |
| A8 | B | 36 | E8 | B | 36 |
| A9 | C | 36 | E9 | C | 36 |
| A10 | 36 | E10 | D | 36 | 37 |
| A11 | 36 | G1 | 37 | J28 | B |
| A12 | 36 | J1 | 37 | P3 | A |
| A14 | 36 | J2 | A | 37 | 37 |
| A15 | 36 | J3 | B | 37 | W2 |
| A16 | 36 | J6 | 37 | W4 | 35 |

: RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location) |
|------|--------------------|---|
| 3 | 24 | Engine Room R/B No.3 (Engine Compartment Right) |

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|--------------------|---|
| 1A | 27 | Engine Wire and Engine Room J/B (Engine Compartment Left) |
| 1F | | |
| 1J | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 1K | | |
| 2C | | |
| 2D | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2F | | |
| 2G | 31 | Engine Room Main Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|--------------------|--|
| IA1 | | |
| IA2 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| IE1 | 42 | Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel) |
| II1 | 44 | Instrument Panel Wire and A/C Sub Wire (Instrument Panel Brace LH) |
| IK1 | 44 | Engine Wire and Engine Room Main Wire (Right Kick Panel) |

: GROUND POINTS

| Code | See Page | Ground Points Location |
|------|--------------------|------------------------|
| ID | 42 | |
| IE | 42 | Cowl Side Panel LH |

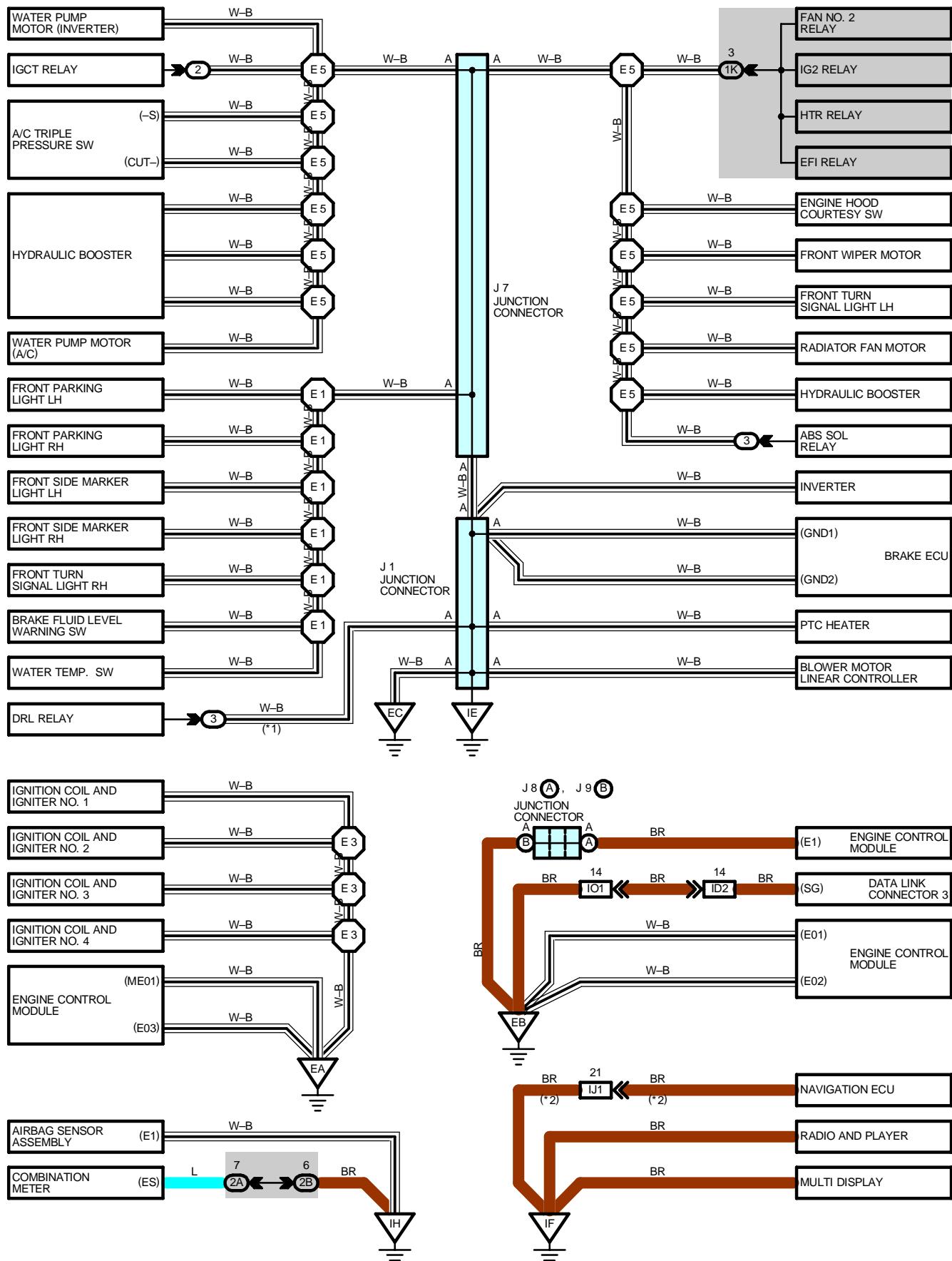
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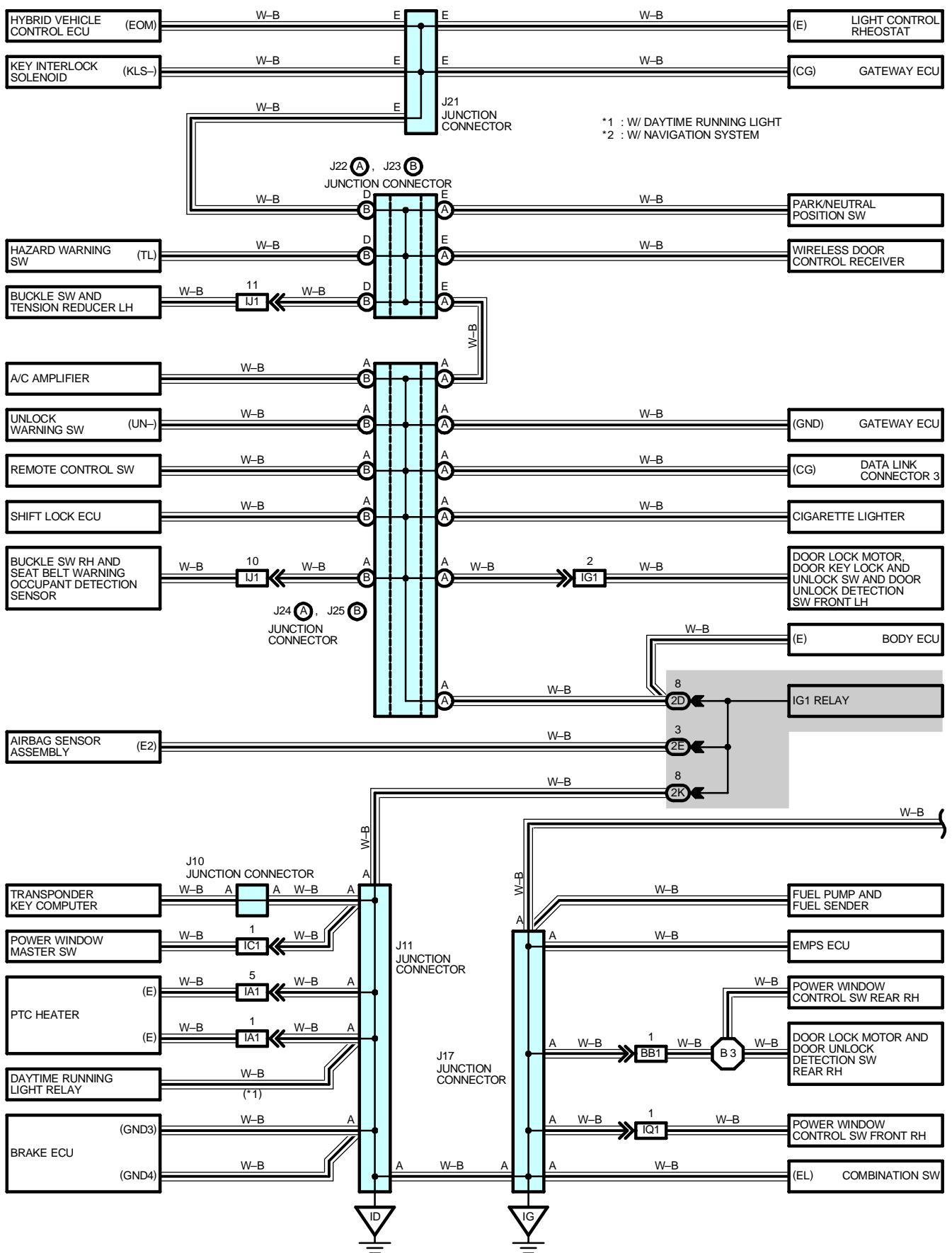


: SPLICE POINTS

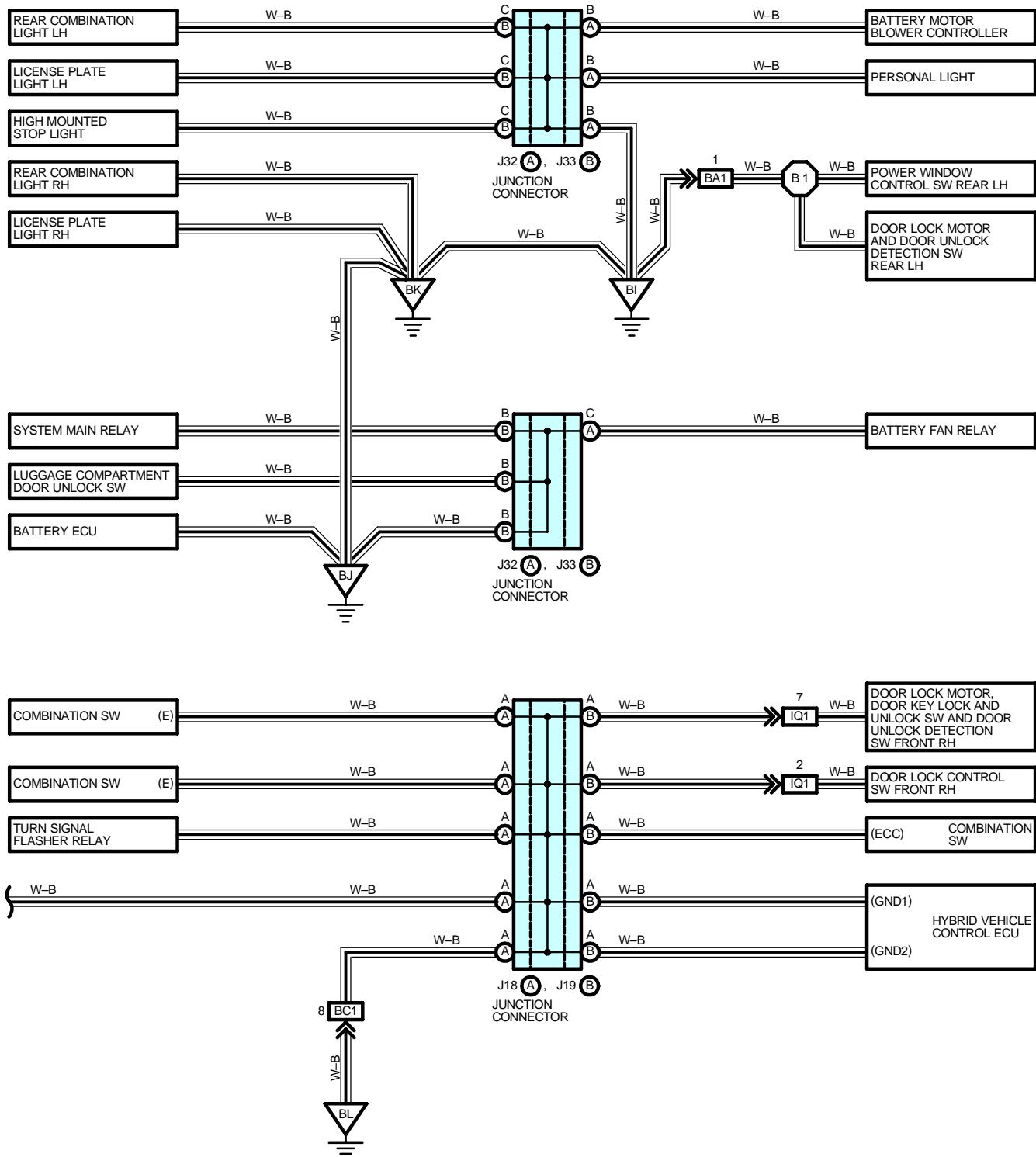
| Code | See Page | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|--------------------|---------------------------------|------|----------|---------------------------------|
| E5 | 40 | Engine Room Main Wire | | | |

I GROUND POINT





I GROUND POINT



 : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------------------|------|----------------------|------|----------------------|
| J1 | 37 | J17 | 37 | J24 | A 37 |
| J7 | 37 | J18 | A 37 | J25 | B 37 |
| J8 | A 37 | J19 | B 37 | J32 | A 38 |
| J9 | B 37 | J21 | 37 | J33 | B 38 |
| J10 | 37 | J22 | A 37 | | |
| J11 | 37 | J23 | B 37 | | |

 : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location) |
|------|--------------------|---|
| 2 | 23 | Engine Room R/B No.2 (Right Side of Reserve Tank) |
| 3 | 24 | Engine Room R/B No.3 (Engine Compartment Right) |

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|--------------------|---|
| 1K | 27 | Engine Room Main Wire and Engine Room J/B (Engine Compartment Left) |
| 2A | | |
| 2B | | |
| 2D | 30 | Instrument Panel Wire and Instrument Panel J/B (Cowl Side Panel LH) |
| 2E | | |
| 2K | 31 | Cowl Wire and Instrument Panel J/B (Cowl Side Panel LH) |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|--------------------|---|
| IA1 | 42 | Engine Room Main Wire and Cowl Wire (Cowl Side Panel LH) |
| IC1 | 42 | Front Door LH Wire and Cowl Wire (Left Kick Panel) |
| ID2 | 42 | Instrument Panel Wire and Cowl Wire (Left Kick Panel) |
| IG1 | 42 | Front Door LH Wire and Instrument Panel Wire (Left Kick Panel) |
| IJ1 | 44 | Floor No.3 Wire and Instrument Panel Wire (Under the Instrument Panel Center) |
| IO1 | 44 | Engine Wire and Cowl Wire (Right Kick Panel) |
| IQ1 | 44 | Front Door RH Wire and Cowl Wire (Right Kick Panel) |
| BA1 | 46 | Rear Door No.2 Wire and Floor Wire (Center Pillar LH) |
| BB1 | 46 | Rear Door No.1 Wire and Cowl Wire (Center Pillar RH) |
| BC1 | 46 | Cowl Wire and Fuel Tank Wire (Near the Fuel Tank) |

 : GROUND POINTS

| Code | See Page | Ground Points Location |
|------|--------------------|---------------------------|
| EA | | |
| EB | 40 | Engine Block |
| EC | 40 | Engine Compartment Left |
| ID | | |
| IE | 42 | Cowl Side Panel LH |
| IF | 42 | Left Kick Panel |
| IG | 42 | Cowl Side Panel RH |
| IH | 42 | Right Kick Panel |
| BI | 46 | Left Side of Rear Pillar |
| BJ | 46 | Right Side of Rear Pillar |
| BK | 46 | Back Panel Center |
| BL | 46 | Near the Fuel Tank |

I GROUND POINT

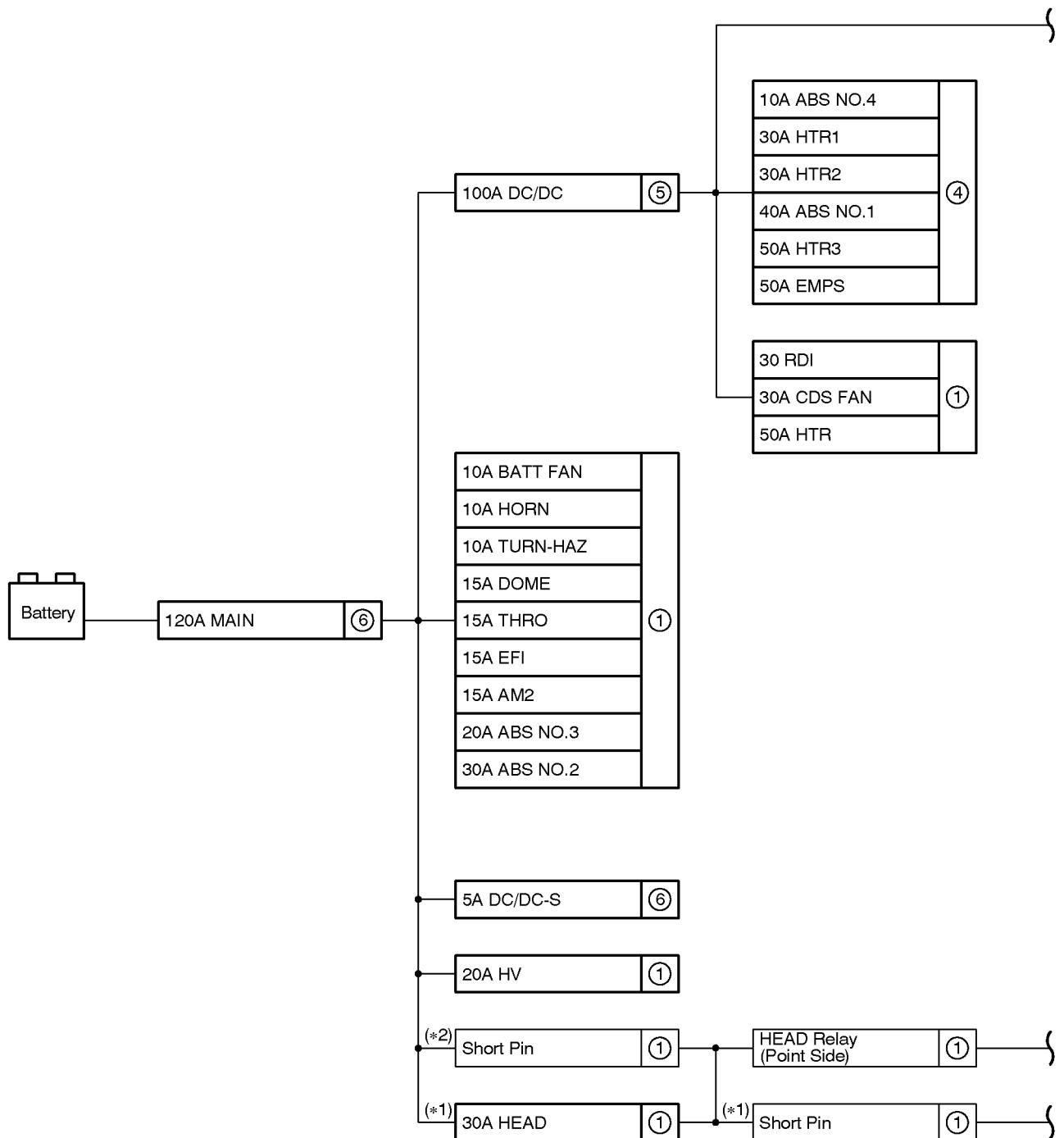


: SPLICE POINTS

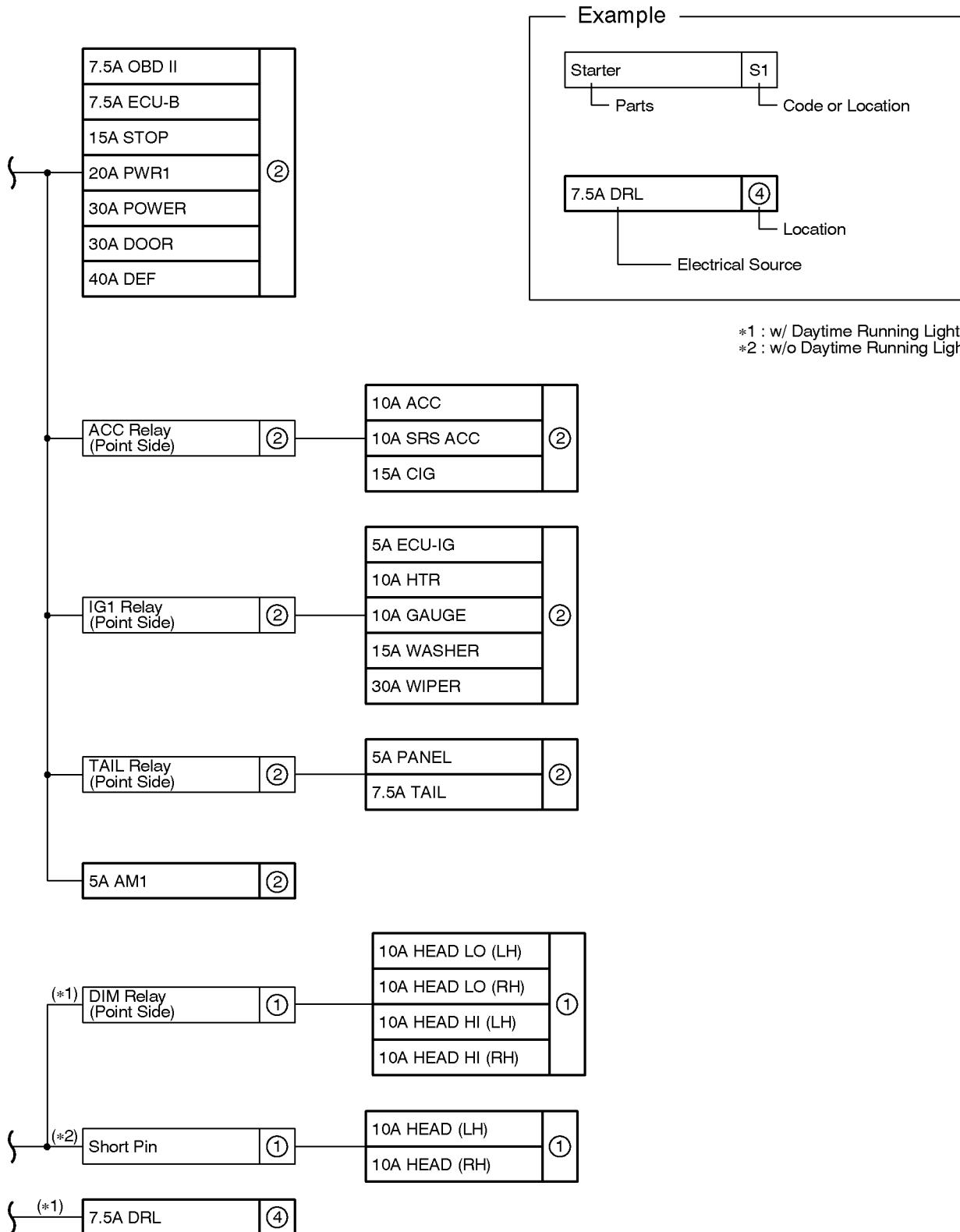
| Code | See Page | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|--------------------|---------------------------------|------|--------------------|---------------------------------|
| E1 | 40 | Engine Room Main Wire | B1 | 46 | Rear Door No.2 Wire |
| E3 | 40 | Engine Wire | B3 | 46 | Rear Door No.1 Wire |
| E5 | 40 | Engine Room Main Wire | | | |

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 J/B (See Page 26) ② : Instrument Panel J/B (See Page 30)
 ⑤ : Fusible Link Block No.1 (F10,F11,F12,F13 on See Page 22)



(③) : Engine Room R/B No.2 (See Page 23)

(④) : Engine Room R/B No.3 (See Page 24)

(⑥) : Fusible Link Block No.2 (F17,F18 on See Page 23)

J POWER SOURCE (Current Flow Chart)

Fusible Link Block No.1 (See Page 22)

| Fuse | | System | Page |
|------|-------|--|------------------------------|
| 100A | DC/DC | Illumination Key Reminder and Light Reminder Buzzer Light Auto Turn Off Taillight TOYOTA Hybrid System | 92 114 104 88 54 |

Fusible Link Block No.2 (See Page 23)

| Fuse | | System | Page |
|------|---------|--|--|
| 5A | DC/DC-S | TOYOTA Hybrid System | 54 |
| 120A | MAIN | ABS Engine Control Headlight (w/o Daytime Running Light) Hybrid Vehicle Immobiliser System Illumination Key Reminder and Light Reminder Buzzer Light Auto Turn Off SRS Taillight TOYOTA Hybrid System | 172 68 84 78 92 114 104 167 88 54 |

Engine Room R/B No.3 (See Page 24)

| Fuse | | System | Page |
|------|----------|--------------------------------------|------|
| 7.5A | DRL | Headlight (w/ Daytime Running Light) | 80 |
| 10A | ABS NO.4 | ABS | 172 |
| 30A | HTR1 | Air Conditioning | 188 |
| 30A | HTR2 | Air Conditioning | 188 |
| 40A | ABS NO.1 | ABS | 172 |
| 50A | EMPS | EMPS | 164 |
| 50A | HTR3 | Air Conditioning | 188 |

Engine Room J/B (See Page 26)

| Fuse | | System | Page |
|------|--------------|---------------------------------------|------------|
| 10A | BATT FAN | TOYOTA Hybrid System | 54 |
| 10A | HEAD (LH) | Headlight (w/o Daytime Running Light) | 84 |
| 10A | HEAD (RH) | Headlight (w/o Daytime Running Light) | 84 |
| 10A | HEAD HI (LH) | Headlight (w/ Daytime Running Light) | 80 |
| 10A | HEAD HI (RH) | Headlight (w/ Daytime Running Light) | 80 |
| 10A | HEAD LO (LH) | Headlight (w/ Daytime Running Light) | 80 |
| 10A | HEAD LO (RH) | Headlight (w/ Daytime Running Light) | 80 |
| 10A | HORN | Horn Theft Deterrent | 124 146 |
| 10A | TURN-HAZ | Turn Signal and Hazard Warning Light | 96 |

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

| Fuse | | System | Page |
|------|----------|--|------|
| 15A | AM2 | ABS | 172 |
| | | Engine Control | 68 |
| | | Hybrid Vehicle Immobiliser System | 78 |
| | | SRS | 167 |
| | | TOYOTA Hybrid System | 54 |
| 15A | DOME | Combination Meter | 182 |
| | | Door Lock Control | 134 |
| | | Headlight (w/ Daytime Running Light) | 80 |
| | | Headlight (w/o Daytime Running Light) | 84 |
| | | Illumination | 92 |
| | | Interior Light | 108 |
| | | Key Reminder and Light Reminder Buzzer | 114 |
| | | Navigation System | 156 |
| | | Power Window | 126 |
| | | Radio and Player | 152 |
| | | Seat Belt Warning | 118 |
| | | Theft Deterrent | 146 |
| | | TOYOTA Hybrid System | 54 |
| | | Wireless Door Lock Control | 140 |
| 15A | EFI | Engine Control | 68 |
| 15A | THRO | Engine Control | 68 |
| 20A | ABS NO.3 | ABS | 172 |
| 20A | HV | TOYOTA Hybrid System | 54 |
| 30A | ABS NO.2 | ABS | 172 |
| 30A | CDS FAN | Radiator Fan and Condenser Fan | 186 |
| 30A | HEAD | Headlight (w/ Daytime Running Light) | 80 |
| | | Key Reminder and Light Reminder Buzzer | 114 |
| | | Light Auto Turn Off | 104 |
| 30A | RDI | Radiator Fan and Condenser Fan | 186 |
| 50A | HTR | Air Conditioning | 188 |

Instrument Panel J/B (See Page 30)

| Fuse | | System | Page |
|------|--------|--------------------------------|------|
| 5A | ECU-IG | ABS | 172 |
| | | Electric Tension Reducer | 162 |
| | | EMPS | 164 |
| | | Gateway System | 160 |
| | | Navigation System | 156 |
| | | Radiator Fan and Condenser Fan | 186 |
| | | Shift Lock | 132 |
| 5A | PANEL | Illumination | 92 |
| 7.5A | ECU-B | Air Conditioning | 188 |
| | | Combination Meter | 182 |

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

J POWER SOURCE (Current Flow Chart)

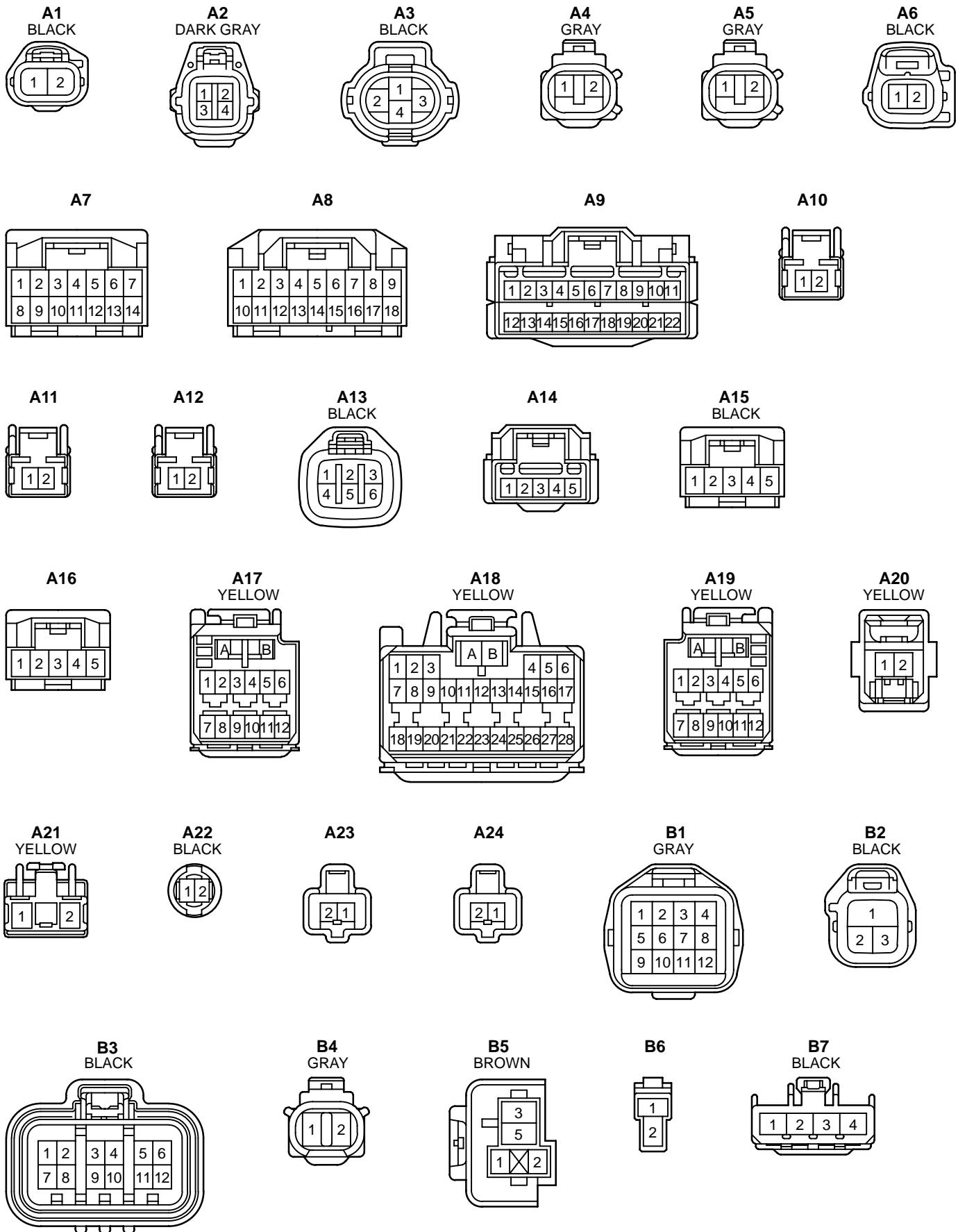
| Fuse | | System | Page |
|------|---------|--|------|
| 7.5A | ECU-B | Door Lock Control | 134 |
| | | EMPS | 164 |
| | | Gateway System | 160 |
| | | Headlight (w/ Daytime Running Light) | 80 |
| | | Hybrid Vehicle Immobiliser System | 78 |
| | | Interior Light | 108 |
| | | Key Reminder and Light Reminder Buzzer | 114 |
| | | Light Auto Turn Off | 104 |
| | | Power Window | 126 |
| | | Theft Deterrent | 146 |
| 7.5A | OBDII | Wireless Door Lock Control | 140 |
| | | Engine Control | 68 |
| 7.5A | TAIL | Theft Deterrent | 146 |
| | | Key Reminder and Light Reminder Buzzer | 114 |
| | | Light Auto Turn Off | 104 |
| 10A | ACC | Taillight | 88 |
| | | Combination Meter | 182 |
| | | Gateway System | 160 |
| | | Navigation System | 156 |
| | | Radio and Player | 152 |
| | | Remote Control Mirror | 130 |
| | | Shift Lock | 132 |
| 10A | GAUGE | SRS | 167 |
| | | ABS | 172 |
| | | Air Conditioning | 188 |
| | | Back-Up Light | 102 |
| | | Combination Meter | 182 |
| | | Door Lock Control | 134 |
| | | EMPS | 164 |
| | | Engine Control | 68 |
| | | Headlight (w/ Daytime Running Light) | 80 |
| | | Key Reminder and Light Reminder Buzzer | 114 |
| | | Light Auto Turn Off | 104 |
| | | Navigation System | 156 |
| | | Power Window | 126 |
| | | Rear Window Defogger | 180 |
| | | Seat Belt Warning | 118 |
| | | Theft Deterrent | 146 |
| | | TOYOTA Hybrid System | 54 |
| 10A | HTR | Turn Signal and Hazard Warning Light | 96 |
| | | Wireless Door Lock Control | 140 |
| 10A | HTR | Air Conditioning | 188 |
| 10A | SRS ACC | SRS | 167 |

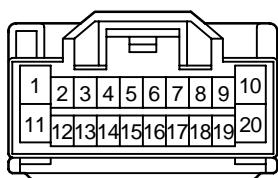
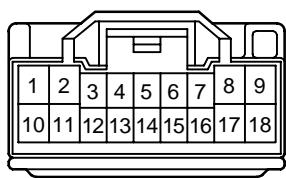
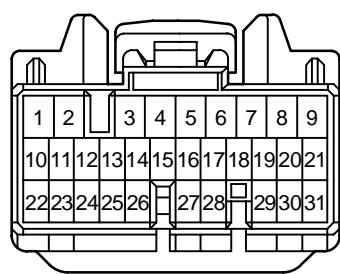
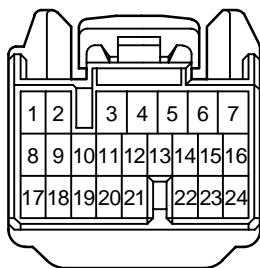
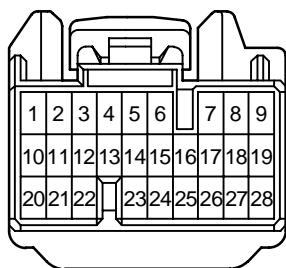
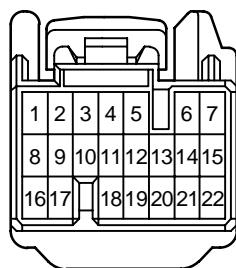
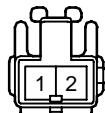
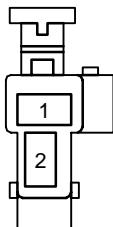
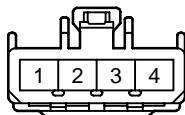
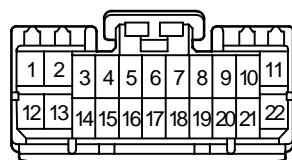
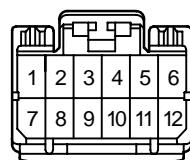
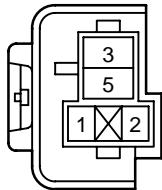
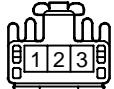
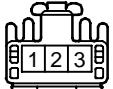
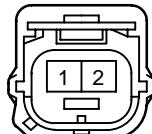
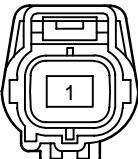
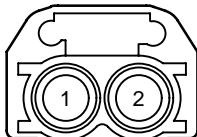
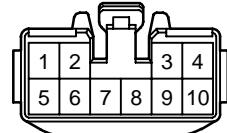
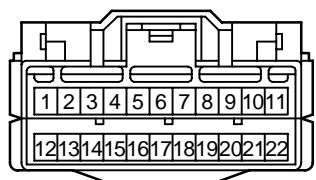
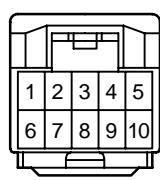
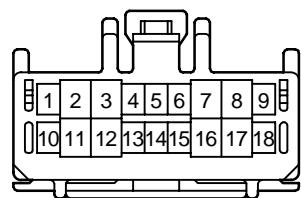
* These are the page numbers of the first page on which the related system is shown.

| Fuse | | System | Page |
|------|--------|--|-------------------------|
| 15A | CIG | Cigarette Lighter | 122 |
| 15A | STOP | ABS Engine Control Shift Lock Stop Light | 172 68 132 100 |
| 15A | WASHER | Wiper and Washer | 120 |
| 20A | PWR1 | Power Window | 126 |
| 30A | DOOR | Door Lock Control Theft Deterrent Wireless Door Lock Control | 134 146 140 |
| 30A | POWER | Power Window | 126 |
| 30A | WIPER | Wiper and Washer | 120 |
| 40A | DEF | Rear Window Defogger | 180 |

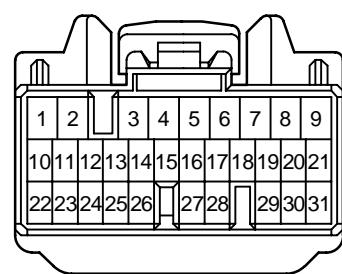
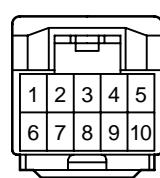
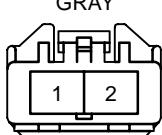
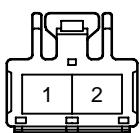
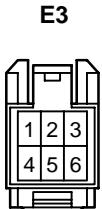
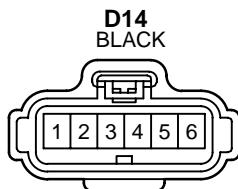
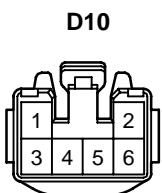
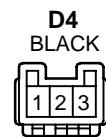
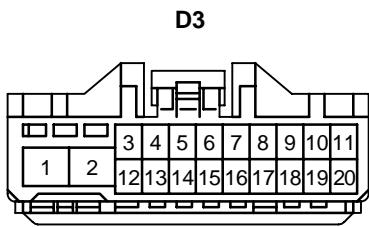
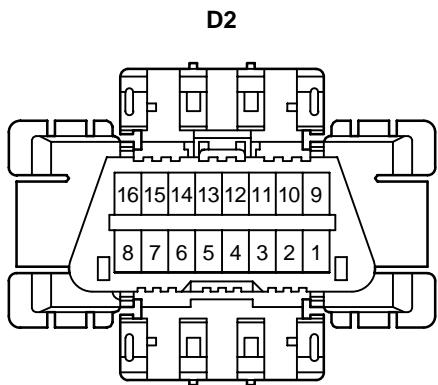
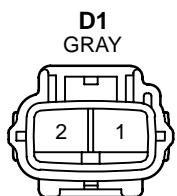
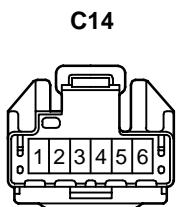
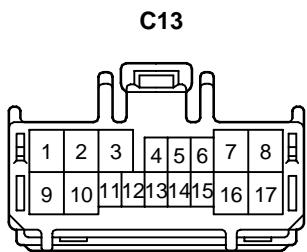
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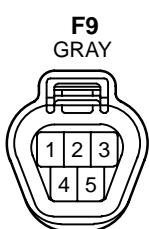
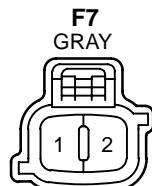
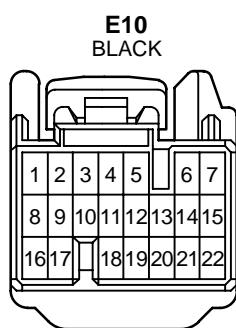
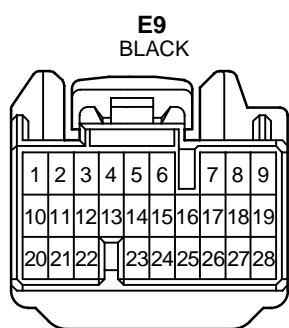
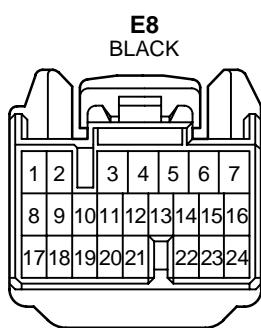
K CONNECTOR LIST



B8**B9****B10****B11
BLACK****B12****B13
BLACK****B14
BLACK****B15
BLACK****B16****B17****B18****B19
BROWN****B20****B21****C1
BLACK****C2
BLACK****C3
YELLOW****C4
GRAY****C5
GRAY****C6
BLACK****C7****C8****C9
GRAY****C10****C11****C12
BLACK**

K CONNECTOR LIST



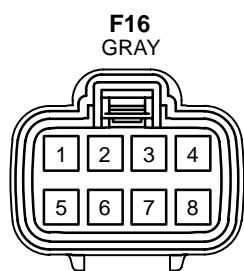
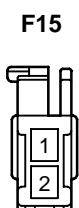
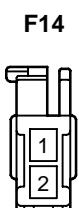


F10
(See Page 22)

F11
(See Page 22)

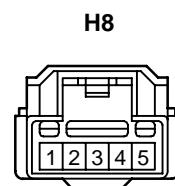
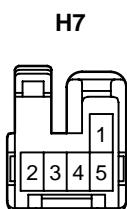
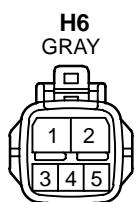
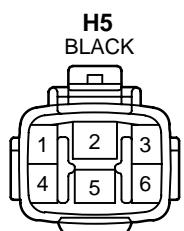
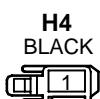
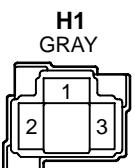
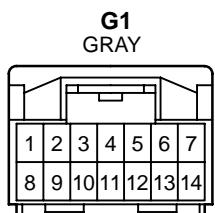
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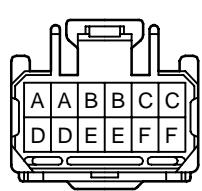
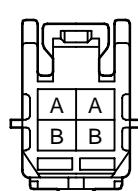
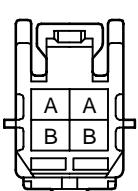
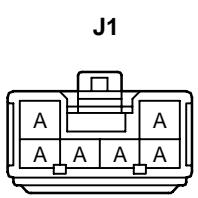
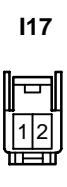
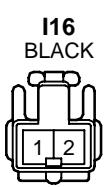
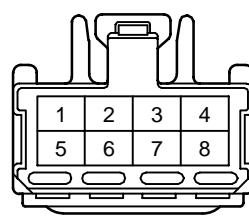
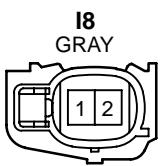
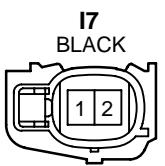
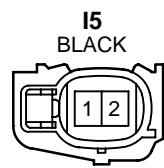
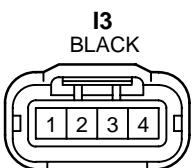
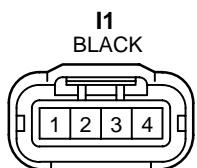
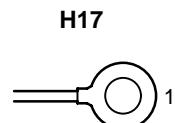
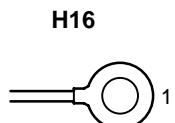
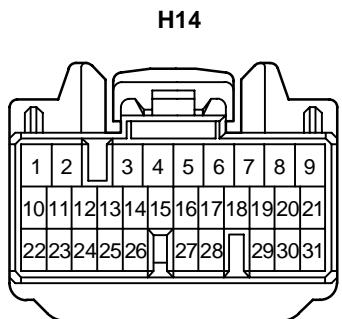
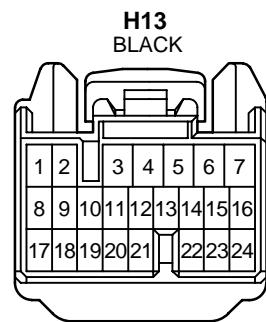
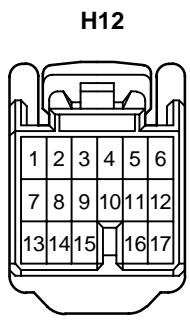
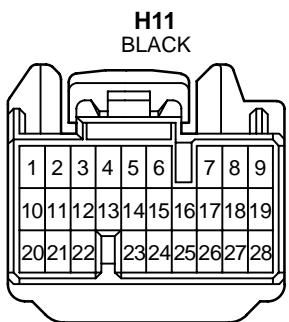
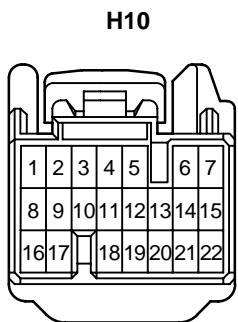


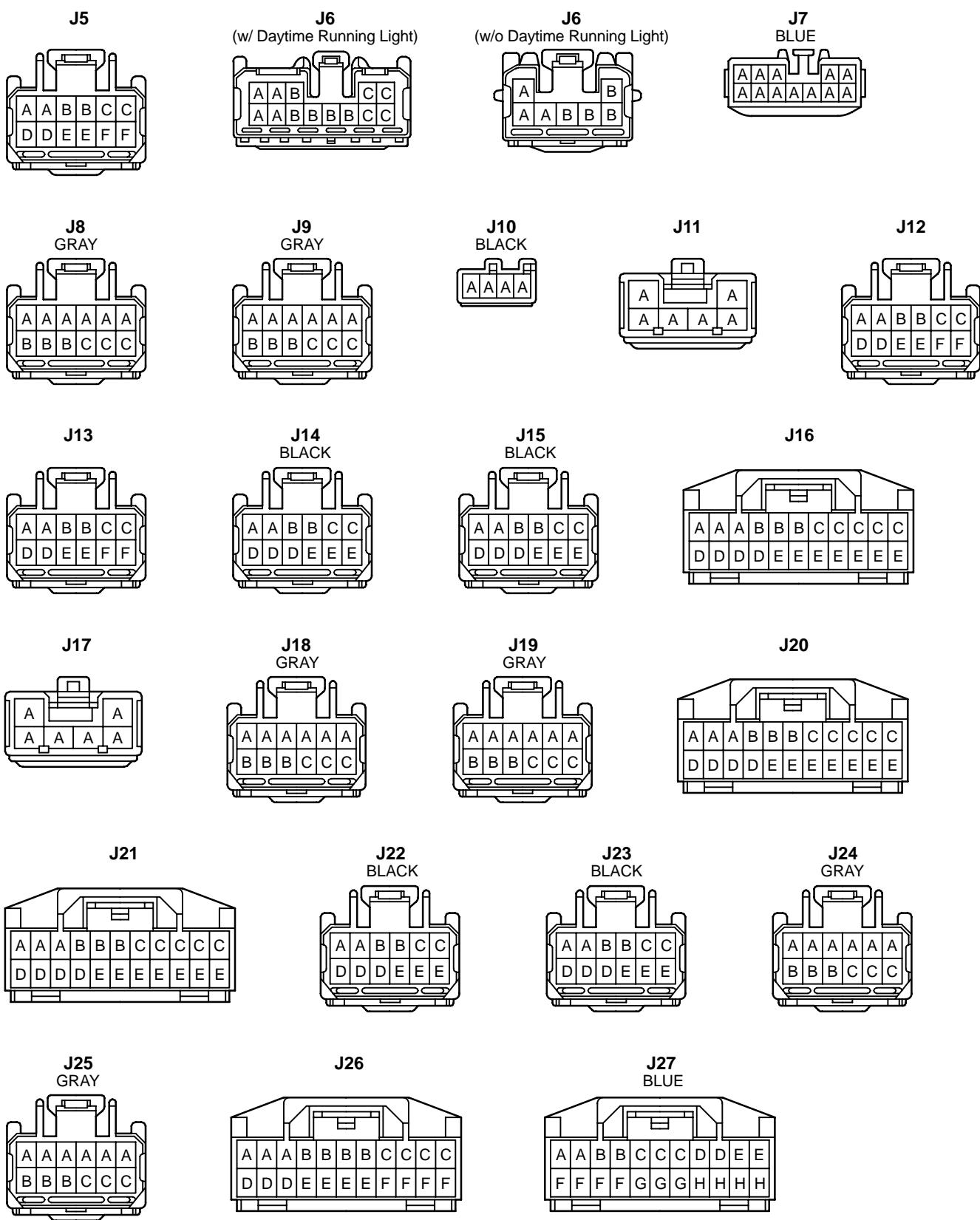
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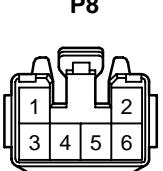
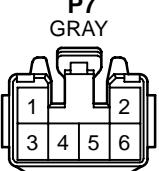
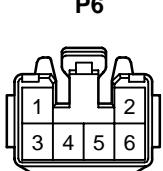
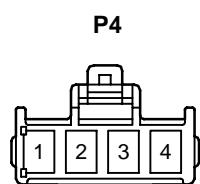
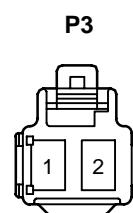
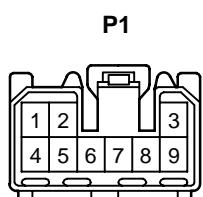
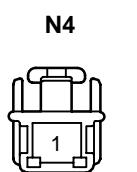
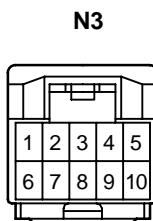
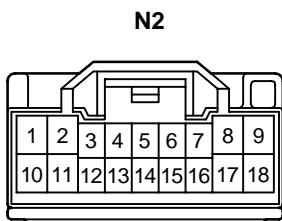
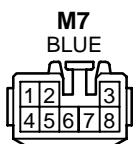
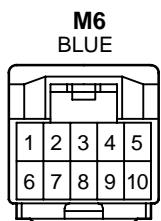
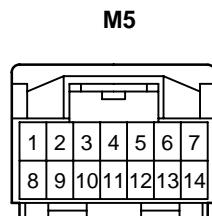
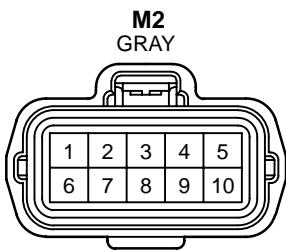
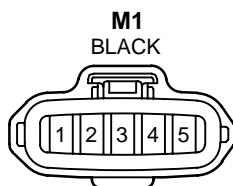
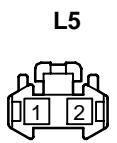
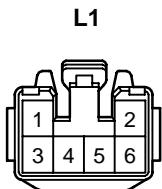
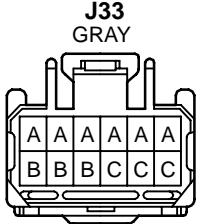
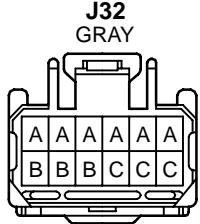
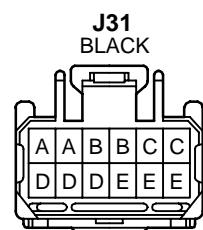
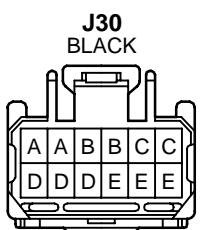
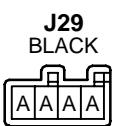
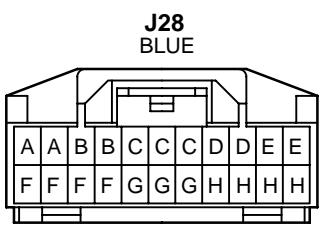


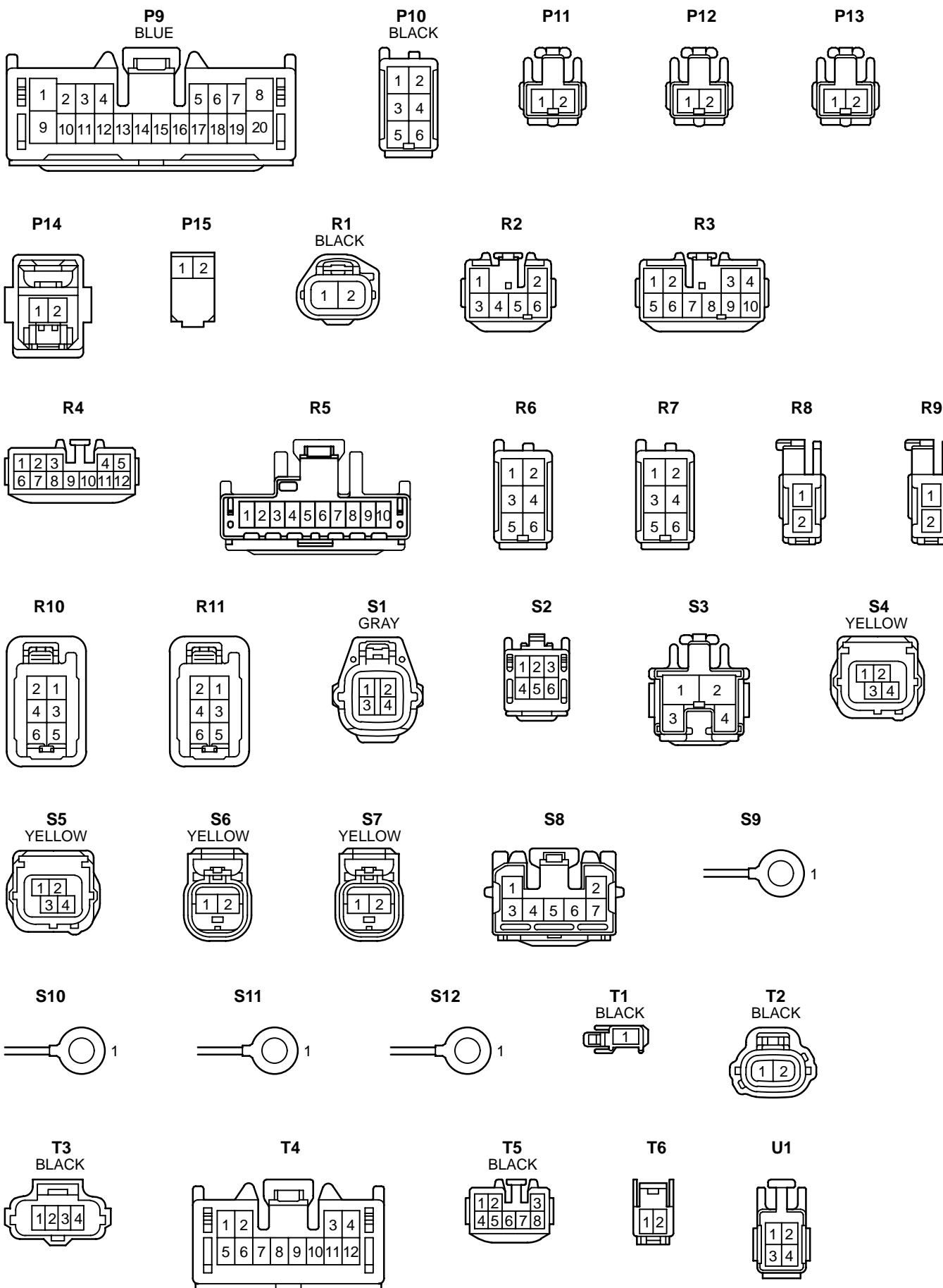
K CONNECTOR LIST



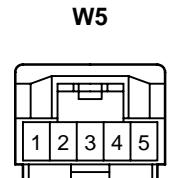
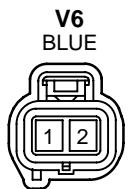
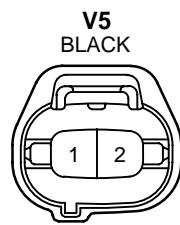
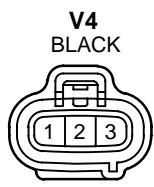
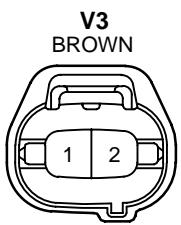
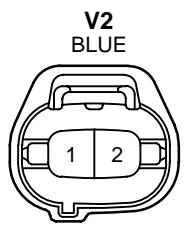
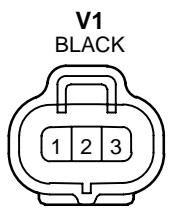


K CONNECTOR LIST





K CONNECTOR LIST



L PART NUMBER OF CONNECTORS

| Code | Part Name | Part Number | Code | Part Name | Part Number |
|------|--|-------------|------|--|-------------|
| A 1 | A/C Condenser Fan Motor | 90980-11237 | B20 | Buckle SW and Tension Reducer LH | |
| A 2 | A/C Magnetic Clutch and Lock Sensor | 90980-10942 | B21 | Buckle SW RH and Seat Belt Warning Occupant Detection Sensor | 90980-11471 |
| A 3 | A/C Triple Pressure SW (A/C Dual and Single Pressure SW) | 90980-10943 | C 1 | Camshaft Position Sensor | 90980-10947 |
| A 4 | ABS Speed Sensor Front LH | | C 2 | Camshaft Timing Oil Control Valve | 90980-11162 |
| A 5 | ABS Speed Sensor Front RH | 90980-11003 | C 3 | Circuit Breaker Sensor | 90980-11898 |
| A 6 | Ambient Temp. Sensor | 90980-11070 | C 4 | Converter | 90980-10942 |
| A 7 | A/C Amplifier | 90980-11911 | C 5 | Converter | 90980-11963 |
| A 8 | A/C Amplifier | 90980-11913 | C 6 | Crankshaft Position Sensor | 90980-12028 |
| A 9 | A/C Amplifier | 90980-11927 | C 7 | Center Cluster SW | 90980-10801 |
| A10 | A/C Room Temp. Sensor | | C 8 | Cigarette Lighter | 90980-10760 |
| A11 | A/C Solar Sensor | 90980-11919 | C 9 | Cigarette Lighter Illumination | 90980-11148 |
| A12 | A/C Thermistor | | C10 | Combination Meter | 90980-11927 |
| A13 | Accel Position Sensor | 90980-11144 | C11 | Combination Meter | 90980-11923 |
| A14 | Air Inlet Control Servo Motor | 90980-11921 | C12 | Combination SW | 90980-11594 |
| A15 | Air Mix Control Servo Motor | | C13 | Combination SW | 90980-11672 |
| A16 | Air Vent Mode Control Servo Motor | 90980-11909 | C14 | Combination SW | 90980-11616 |
| A17 | Airbag Sensor Assembly | 90980-11869 | D 1 | DC Motor | 90980-10838 |
| A18 | Airbag Sensor Assembly | 90980-11872 | D 2 | Data Link Connector 3 | 90980-11665 |
| A19 | Airbag Sensor Assembly | 90980-11867 | D 3 | Daytime Running Light Relay | 90980-12034 |
| A20 | Airbag Squib (Front Passenger Airbag Assembly) | 90980-11884 | D 4 | Diode (Door Courtesy) | 90980-11251 |
| A21 | Airbag Squib (Steering Wheel Pad) | 90980-10850 | D 5 | Diode (Daytime Running Light) | 90980-10962 |
| A22 | Ashtray Illumination | 90980-12111 | D 6 | Door Courtesy SW Front LH | |
| A23 | ABS Speed Sensor Rear LH | | D 7 | Door Courtesy SW Front RH | 90980-10871 |
| A24 | ABS Speed Sensor Rear RH | 90980-11060 | D 8 | Door Courtesy SW Rear LH | |
| B 1 | Brake Actuator | 90980-11087 | D 9 | Door Courtesy SW Rear RH | |
| B 2 | Brake Actuator | 90980-11161 | D10 | Door Lock Control SW Front RH | 90980-10797 |
| B 3 | Brake Actuator | 90980-11698 | D11 | Door Lock Motor and Door Unlock Detection SW Rear LH | |
| B 4 | Brake Fluid Level Warning SW | 90980-11207 | D12 | Door Lock Motor and Door Unlock Detection SW Rear RH | 90980-11150 |
| B 5 | Back-Up Light Relay | 82660-20340 | D13 | Door Lock Motor, Door Key Lock and Unlock SW and Door Unlock Detection SW Front LH | |
| B 6 | Blower Motor | 90980-10214 | D14 | Door Lock Motor, Door Key Lock and Unlock SW and Door Unlock Detection SW Front RH | 90980-11858 |
| B 7 | Blower Motor Linear Controller | 90980-11676 | E 1 | Engine Coolant Temp. Sensor | 90980-10737 |
| B 8 | Body ECU | 90980-11971 | E 2 | Engine Hood Courtesy SW | 90980-11189 |
| B 9 | Body ECU | 90980-11973 | E 3 | EMPS ECU | 90980-12012 |
| B10 | Brake ECU | 90980-11935 | E 4 | EMPS ECU | 90980-11579 |
| B11 | Brake ECU | 90980-11476 | E 5 | EMPS ECU | 90980-12120 |
| B12 | Brake ECU | 90980-11637 | E 6 | EMPS ECU | 90980-11923 |
| B13 | Brake ECU | 90980-11638 | E 7 | Engine Control Module | 90980-11421 |
| B14 | Brake Warning Buzzer | 90980-10906 | E 8 | Engine Control Module | 90980-11476 |
| B15 | Battery Blower Motor | 82824-47130 | E 9 | Engine Control Module | 90980-11637 |
| B16 | Battery Blower Motor Controller | 90980-11676 | | | |
| B17 | Battery ECU | 90980-11392 | | | |
| B18 | Battery ECU | 90980-11424 | | | |
| B19 | Battery Fan Relay | 82660-20340 | | | |

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

| Code | Part Name | Part Number | Code | Part Name | Part Number |
|------|--|-------------|------|--|-------------|
| E10 | Engine Control Module | 90980-11638 | I10 | Inverter | 90980-10891 |
| F 1 | Front Airbag Sensor LH | | I11 | Inverter | 90980-10988 |
| F 2 | Front Airbag Sensor RH | 90980-11856 | I12 | Inverter | 90980-10897 |
| F 3 | Front Parking Light LH | | I13 | Inverter | 90980-11943 |
| F 4 | Front Parking Light RH | 90980-11162 | I14 | Inverter | 90980-11944 |
| F 5 | Front Side Marker Light LH | | I15 | Ignition SW | 90980-11615 |
| F 6 | Front Side Marker Light RH | | I16 | Interior Light | 90980-10860 |
| F 7 | Front Turn Signal Light LH | 90980-11019 | I17 | Interlock SW | 90980-11918 |
| F 8 | Front Turn Signal Light RH | | J 1 | Junction Connector | 90980-10976 |
| F 9 | Front Wiper Motor | 90980-11599 | J 2 | Junction Connector | 90980-11742 |
| F10 | Fusible Link Block No.1 | | J 3 | Junction Connector | |
| F11 | Fusible Link Block No.1 | - | J 4 | Junction Connector | 90980-11661 |
| F12 | Fusible Link Block No.1 | | J 5 | Junction Connector | |
| F13 | Fusible Link Block No.1 | 90980-11775 | J 6 | Junction Connector (w/ Daytime Running Light) | 90980-11542 |
| F14 | Front Door Speaker LH | 90980-10935 | | Junction Connector (w/o Daytime Running Light) | 90980-11529 |
| F15 | Front Door Speaker RH | | J 7 | Junction Connector | 90980-10803 |
| F16 | Fuel Pump and Fuel Sender | 90980-12164 | J 8 | Junction Connector | 90980-11661 |
| F17 | Fusible Link Block No.2 | 90980-10916 | J 9 | Junction Connector | |
| F18 | Fusible Link Block No.2 | 90980-11775 | J10 | Junction Connector | 90980-11398 |
| G 1 | Gateway ECU | 90980-11911 | J11 | Junction Connector | 90980-10976 |
| H 1 | Headlight LH | | J12 | Junction Connector | 90980-11661 |
| H 2 | Headlight RH | 90980-11314 | J13 | Junction Connector | |
| H 3 | Heated Oxygen Sensor (Bank 1 Sensor1) | 90980-11028 | J14 | Junction Connector | |
| H 4 | Horn | 90980-10619 | J15 | Junction Connector | |
| H 5 | Hydraulic Booster | 90980-10939 | J16 | Junction Connector | 90980-11915 |
| H 6 | Hydraulic Booster | 90980-10946 | J17 | Junction Connector | 90980-10976 |
| H 7 | Hazard Warning SW | 90980-11319 | J18 | Junction Connector | 90980-11661 |
| H 8 | Hazard Warning SW | 90980-11921 | J19 | Junction Connector | |
| H 9 | Heated Oxygen Sensor (Bank 1 Sensor 2) | 90980-11028 | J20 | Junction Connector | 90980-11915 |
| H10 | Hybrid Vehicle Control ECU | 90980-11638 | J21 | Junction Connector | |
| H11 | Hybrid Vehicle Control ECU | 90980-11637 | J22 | Junction Connector | 90980-11661 |
| H12 | Hybrid Vehicle Control ECU | 90980-11586 | J23 | Junction Connector | |
| H13 | Hybrid Vehicle Control ECU | 90980-11476 | J24 | Junction Connector | |
| H14 | Hybrid Vehicle Control ECU | 90980-11421 | J25 | Junction Connector | |
| H15 | High Mounted Stop Light | 90980-11060 | J26 | Junction Connector | |
| H16 | Hybrid Vehicle Battery | | J27 | Junction Connector | 90980-11915 |
| H17 | Hybrid Vehicle Battery | - | J28 | Junction Connector | |
| I 1 | Ignition Coil and Igniter No.1 | | J29 | Junction Connector | 90980-11396 |
| I 2 | Ignition Coil and Igniter No.2 | 90980-11885 | J30 | Junction Connector | 90980-11661 |
| I 3 | Ignition Coil and Igniter No.3 | | J31 | Junction Connector | |
| I 4 | Ignition Coil and Igniter No.4 | | J32 | Junction Connector | |
| I 5 | Injector No.1 | | J33 | Junction Connector | |
| I 6 | Injector No.2 | 90980-11875 | K 1 | Knock Sensor | 90980-11166 |
| I 7 | Injector No.3 | | L 1 | Light Control Rheostat | 90980-10797 |
| I 8 | Injector No.4 | | | | |
| I 9 | Inverter | 90980-11034 | | | |

L PART NUMBER OF CONNECTORS

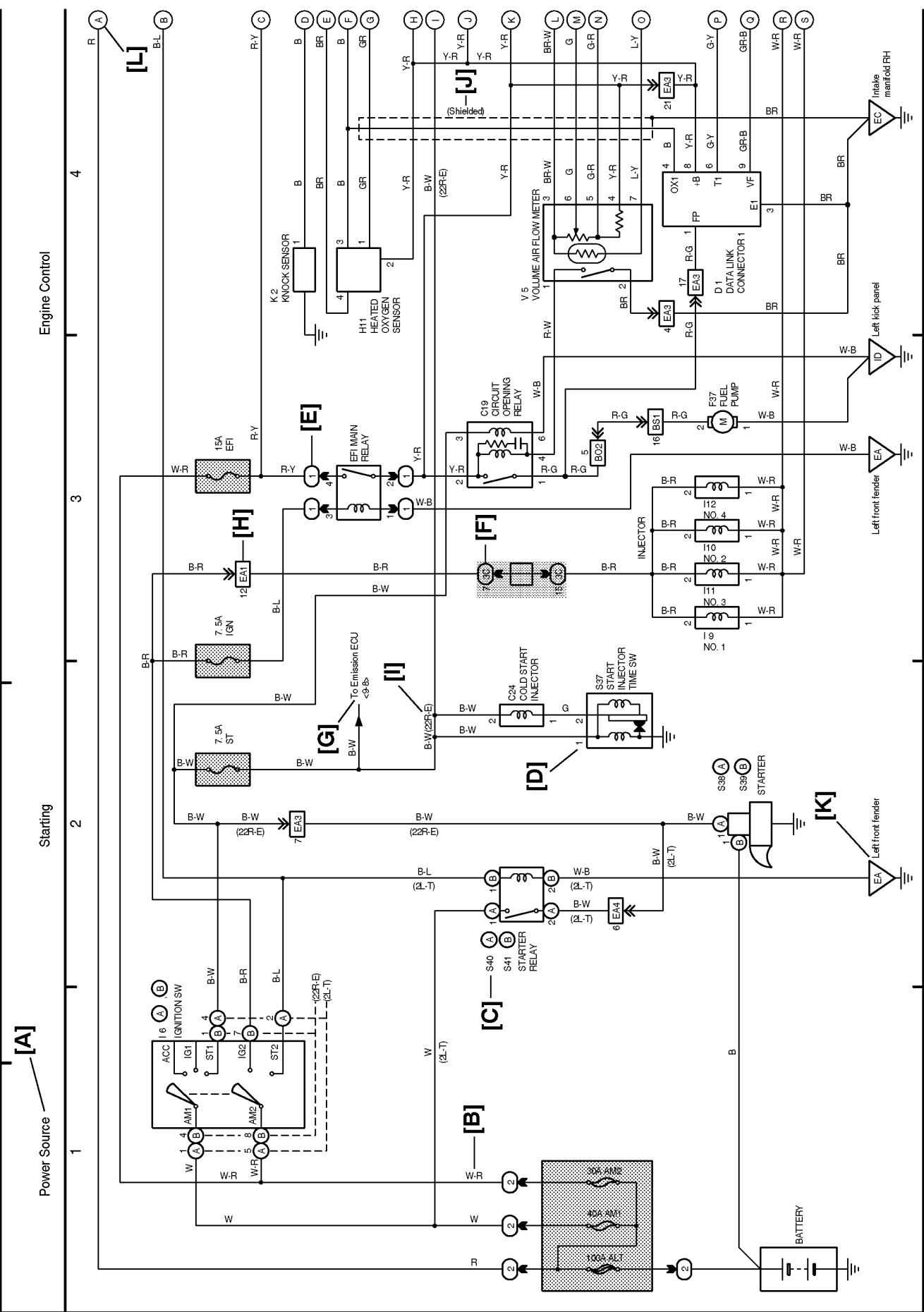
| Code | Part Name | Part Number | Code | Part Name | Part Number |
|------|-------------------------------------|-------------|------|---|-------------|
| L 2 | License Plate Light LH | 90980-11148 | S 4 | Side Airbag Sensor LH | 90980-11857 |
| L 3 | License Plate Light RH | | S 5 | Side Airbag Sensor RH | |
| L 4 | Luggage Compartment Door Unlock SW | 90980-11212 | S 6 | Side Airbag Squib LH | 90980-11864 |
| L 5 | Luggage Compartment Light | 90980-11148 | S 7 | Side Airbag Squib RH | |
| L 6 | Luggage Compartment Light SW | 90980-11097 | S 8 | System Main Relay | 90980-11529 |
| M 1 | Mass Air Flow Meter | 90980-11317 | S 9 | System Main Relay | 82675-36050 |
| M 2 | Motor Generator No.1 | 90980-11658 | S10 | System Main Relay | |
| M 3 | Motor Generator No.2 | 90980-11034 | S11 | System Main Relay | |
| M 4 | Motor Generator No.2 | 90980-11143 | S12 | System Main Relay | - |
| M 5 | Multi Display | 90980-11911 | T 1 | Theft Deterrent Horn | 90980-10619 |
| M 6 | Multi Display | 90980-11923 | T 2 | Throttle Control Motor | 90980-11162 |
| M 7 | Multi Display | 90980-10799 | T 3 | Throttle Position Sensor | 90980-10711 |
| N 1 | Noise Filter (Ignition) | 90980-10843 | T 4 | Transponder Key Computer | 90980-11475 |
| N 2 | Navigation ECU | 90980-11973 | T 5 | Turn Signal Flasher Relay | 90980-10799 |
| N 3 | Navigation ECU | 90980-11923 | T 6 | Tension Reducer Solenoid | 90980-11918 |
| N 4 | Noise Filter (Rear Window Defogger) | 90980-11259 | U 1 | Unlock Warning SW and Key Interlock Solenoid | 90980-10795 |
| O 1 | Oil Pressure SW | 90980-11363 | V 1 | Vacuum Sensor (HC Adsorber and Catalyst System) | 90980-10845 |
| P 1 | Park/Neutral Position SW | 90980-11535 | V 2 | VSV (EVAP) | 90980-11156 |
| P 2 | Parking Brake SW | 90980-11147 | V 3 | VSV (HC Adsorber and Catalyst System) | 90980-11149 |
| P 3 | PTC Heater | 90980-10903 | V 4 | Vapor Pressure Sensor | 90980-11143 |
| P 4 | PTC Heater | 90980-10867 | V 5 | VSV (Canister Closed Valve) | 90980-11156 |
| P 5 | Personal Light | 90980-11212 | V 6 | VSV (Purge Flow Switching Valve) | 90980-11859 |
| P 6 | Power Window Control SW Front RH | | W 1 | Washer Motor | 90980-10981 |
| P 7 | Power Window Control SW Rear LH | 90980-10797 | W 2 | Water Pump Motor (A/C) | 90980-10887 |
| P 8 | Power Window Control SW Rear RH | | W 3 | Water Pump Motor (Inverter) | 90980-11003 |
| P 9 | Power Window Master SW | 90980-11469 | W 4 | Water Temp. SW | 90980-11235 |
| P10 | Power Window Motor Front LH | 90980-11011 | W 5 | Wireless Door Control Receiver | 90980-11909 |
| P11 | Power Window Motor Front RH | | | | |
| P12 | Power Window Motor Rear LH | 90980-10860 | | | |
| P13 | Power Window Motor Rear RH | | | | |
| P14 | Pretensioner LH | 90980-11884 | | | |
| P15 | Pretensioner RH | 90980-11862 | | | |
| R 1 | Radiator Fan Motor | 90980-11237 | | | |
| R 2 | Radio and Player | 90980-10996 | | | |
| R 3 | Radio and Player | 90980-10997 | | | |
| R 4 | Radio and Player | 90980-10903 | | | |
| R 5 | Remote Control Mirror SW | 90980-11657 | | | |
| R 6 | Rear Combination Light LH | | | | |
| R 7 | Rear Combination Light RH | 90980-11011 | | | |
| R 8 | Rear Speaker LH | | | | |
| R 9 | Rear Speaker RH | 90980-10935 | | | |
| R10 | Remote Control Mirror LH | | | | |
| R11 | Remote Control Mirror RH | 90980-11587 | | | |
| S 1 | Steering Shaft Torque Sensor | 90980-10942 | | | |
| S 2 | Shift Lock ECU | 90980-11488 | | | |
| S 3 | Stop Light SW | 90980-11118 | | | |

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

M OVERALL ELECTRICAL WIRING DIAGRAM

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

HOW TO READ THIS SECTION



[A] : System Title

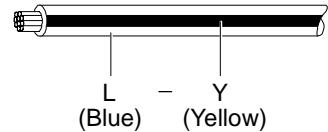
[B] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

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

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

Example: L-Y

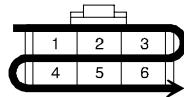


[C] : The position of the parts is the same as shown in the wiring diagram and wire routing.

[D] : Indicates the pin number of the connector.

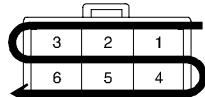
The numbering system is different for female and male connectors.

Example : Numbered in order from upper left to lower right



Female

Numbered in order from upper right to lower left



Male

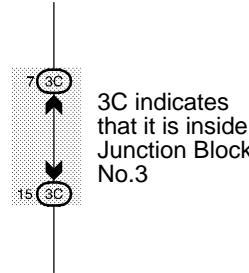
The numbering system for the overall wiring diagram is the same as above

[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.

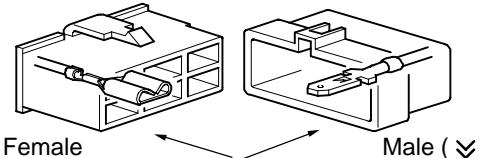
Example:



3C indicates that it is inside Junction Block No.3

[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.

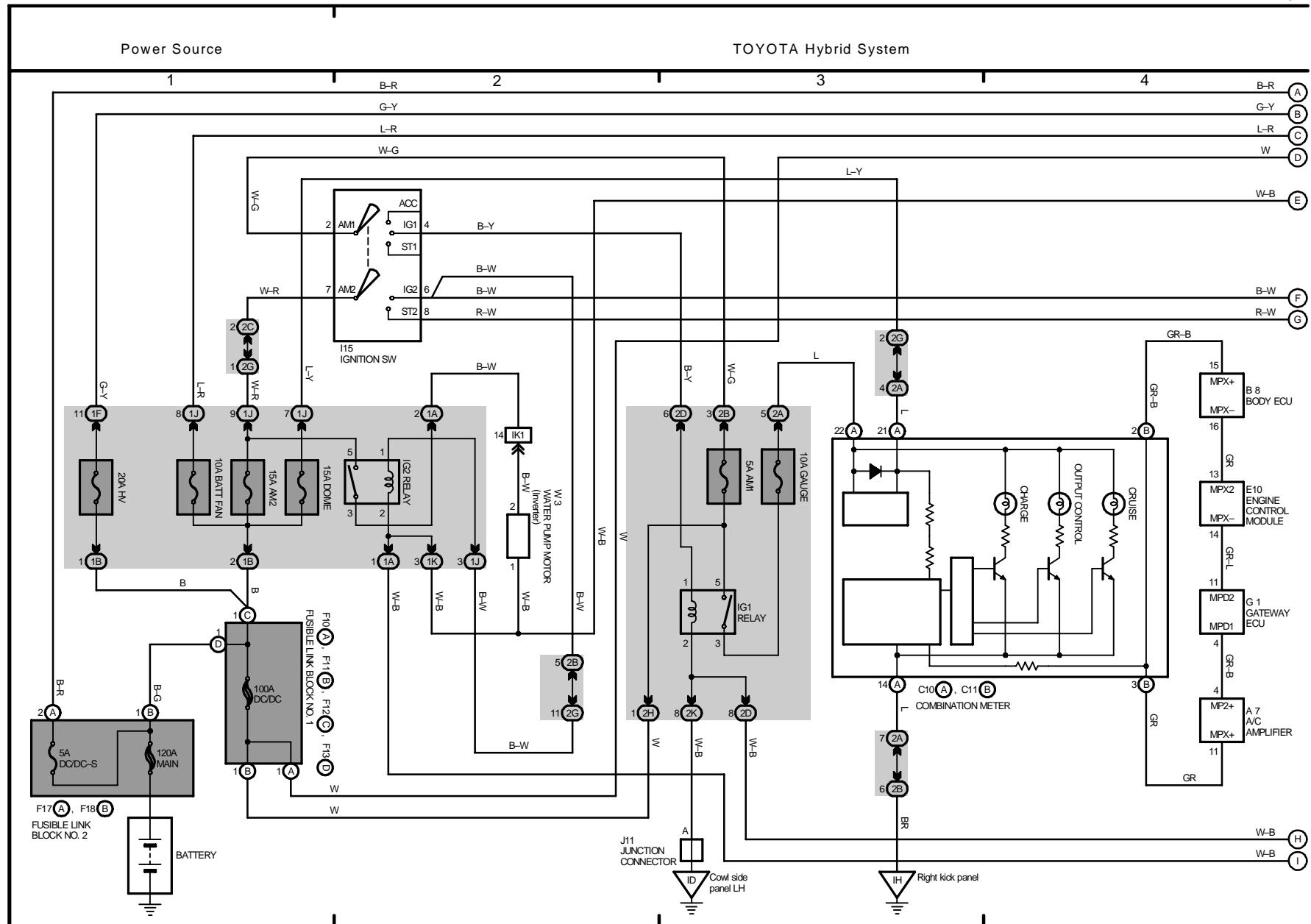


[K] : Indicates and located on ground point.

[L] : The same code occurring on the next page indicates that the wire harness is continuous.

SYSTEM INDEX

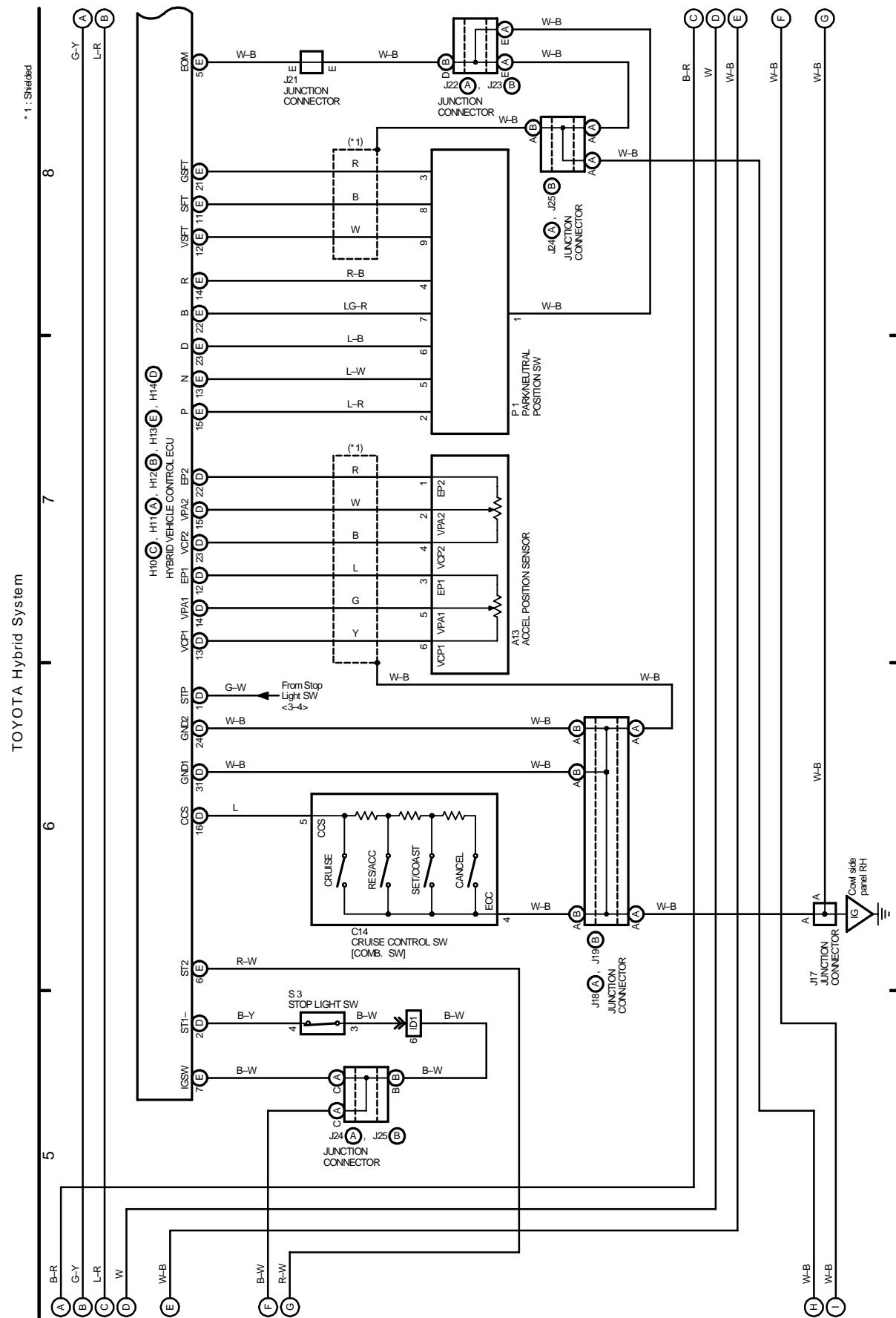
| SYSTEMS | LOCATION | SYSTEMS | LOCATION |
|--|----------|--|----------|
| ABS | 19-3 | Navigation System | 14-5 |
| Air Conditioning | 24-2 | Power Source | 1~24-1 |
| Back-Up Light | 6-2 | Power Window | 18-2 |
| Cigarette Lighter | 11-4 | Radiator Fan and Condenser Fan | 22-3 |
| Combination Meter | 23-2 | Radio and Player | 14-2 |
| Door Lock Control | 15-2 | Rear Window Defogger | 22-2 |
| Electric Tension Reducer | 13-4 | Remote Control Mirror | 11-2 |
| EMPS | 20-3 | Seat Belt Warning | 9-4 |
| Engine Control | 2-3 | Shift Lock | 13-3 |
| Gateway System | 14-8 | SRS | 21-2 |
| Headlight (w/ Daytime Running Light) | 4-2 | Stop Light | 3-4 |
| Headlight (w/o Daytime Running Light) | 3-2 | Taillight | 7-2 |
| Horn | 12-2 | Theft Deterrent | 17-2 |
| Hybrid Vehicle Immobiliser System | 2-16 | TOYOTA Hybrid System | 1-2 |
| Illumination | 8-2 | <ul style="list-style-type: none"> * Charging * Cruise Control * Regenerative Brake | |
| Interior Light | 10-3 | Turn Signal and Hazard Warning Light | 5-2 |
| Key Reminder and Light Reminder Buzzer | 9-2 | Wiper and Washer | 12-3 |
| Light Auto Turn Off | 9-3 | Wireless Door Lock Control | 16-2 |

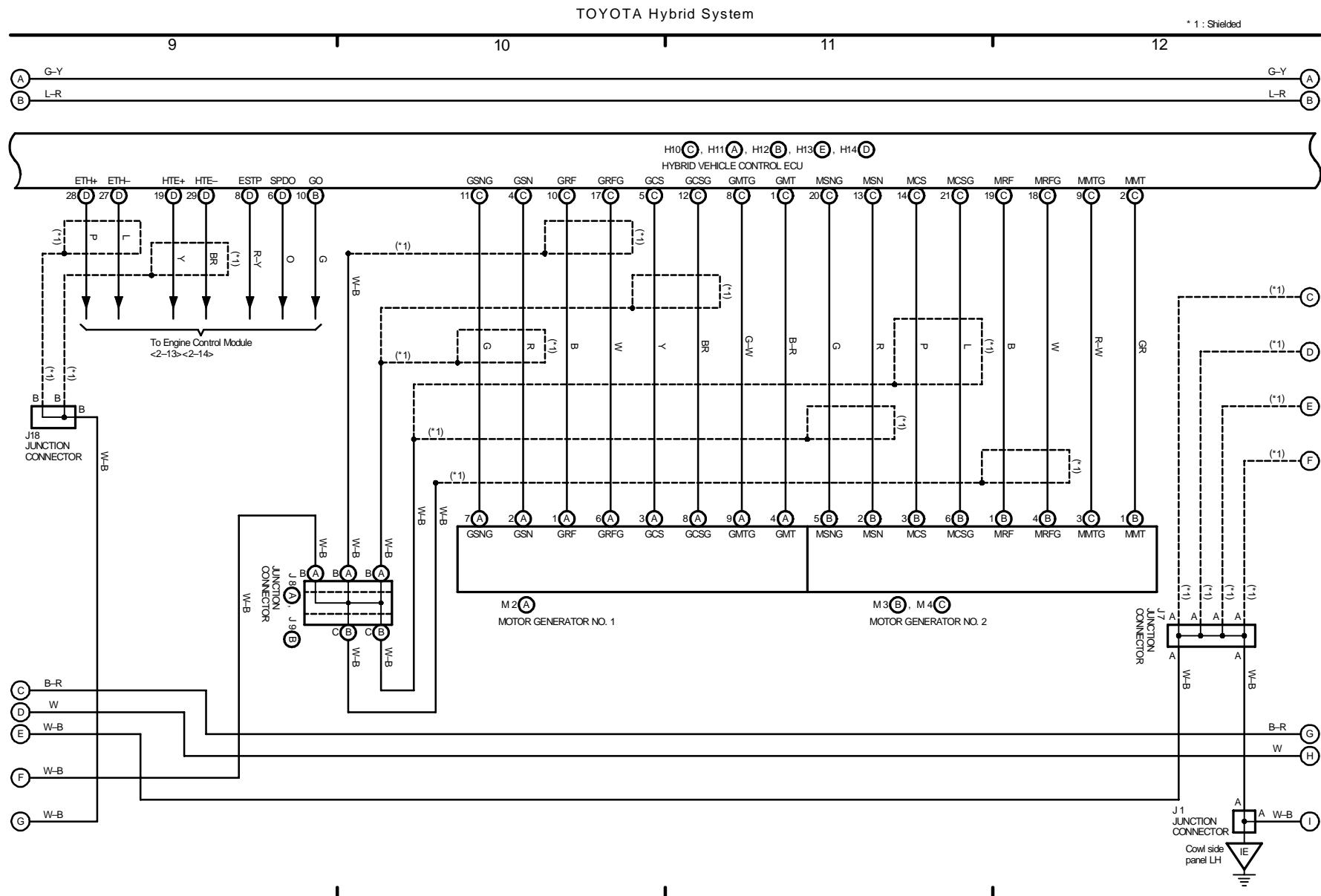


M OVERALL ELECTRICAL WIRING DIAGRAM

1 PRIUS (Cont'd)

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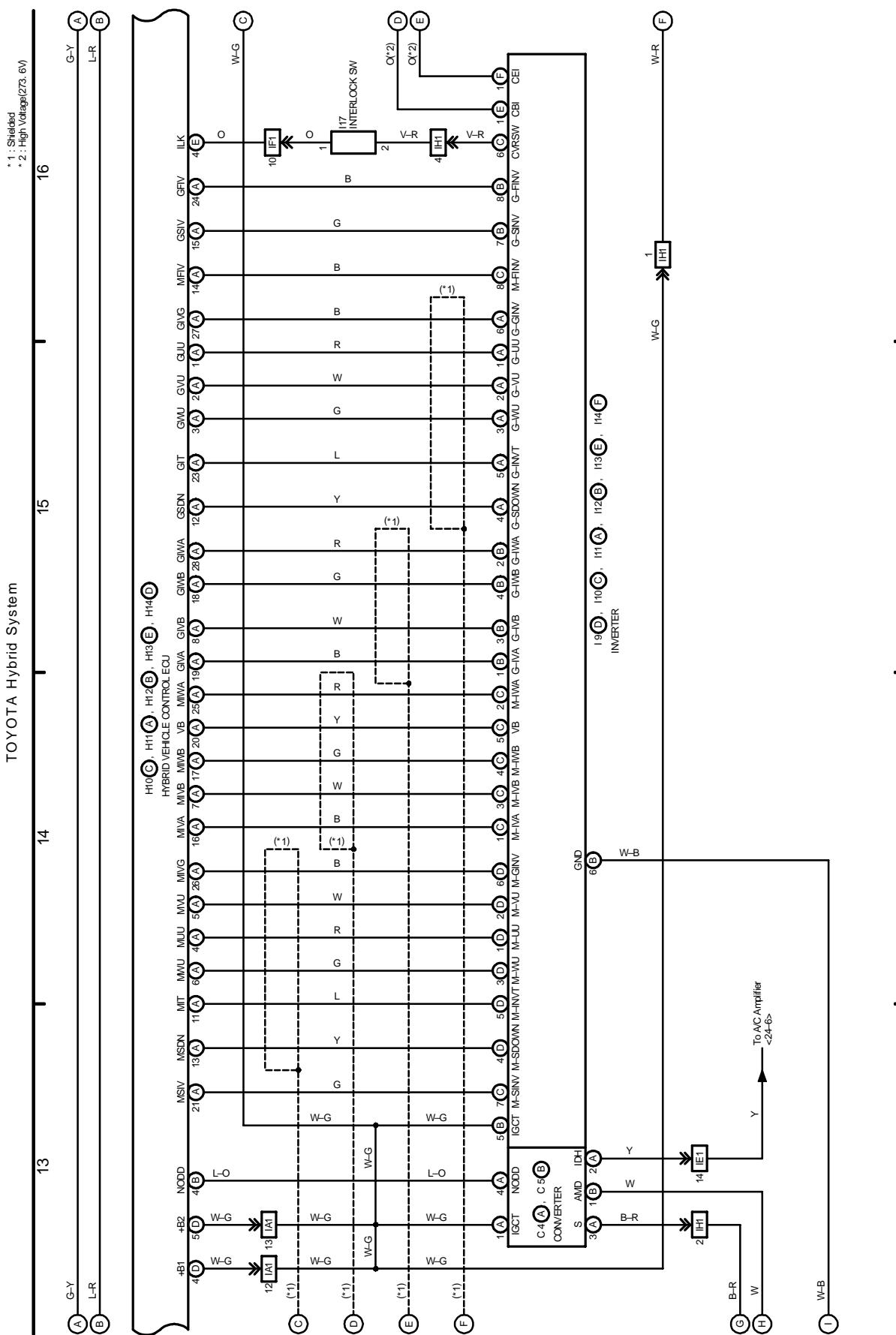


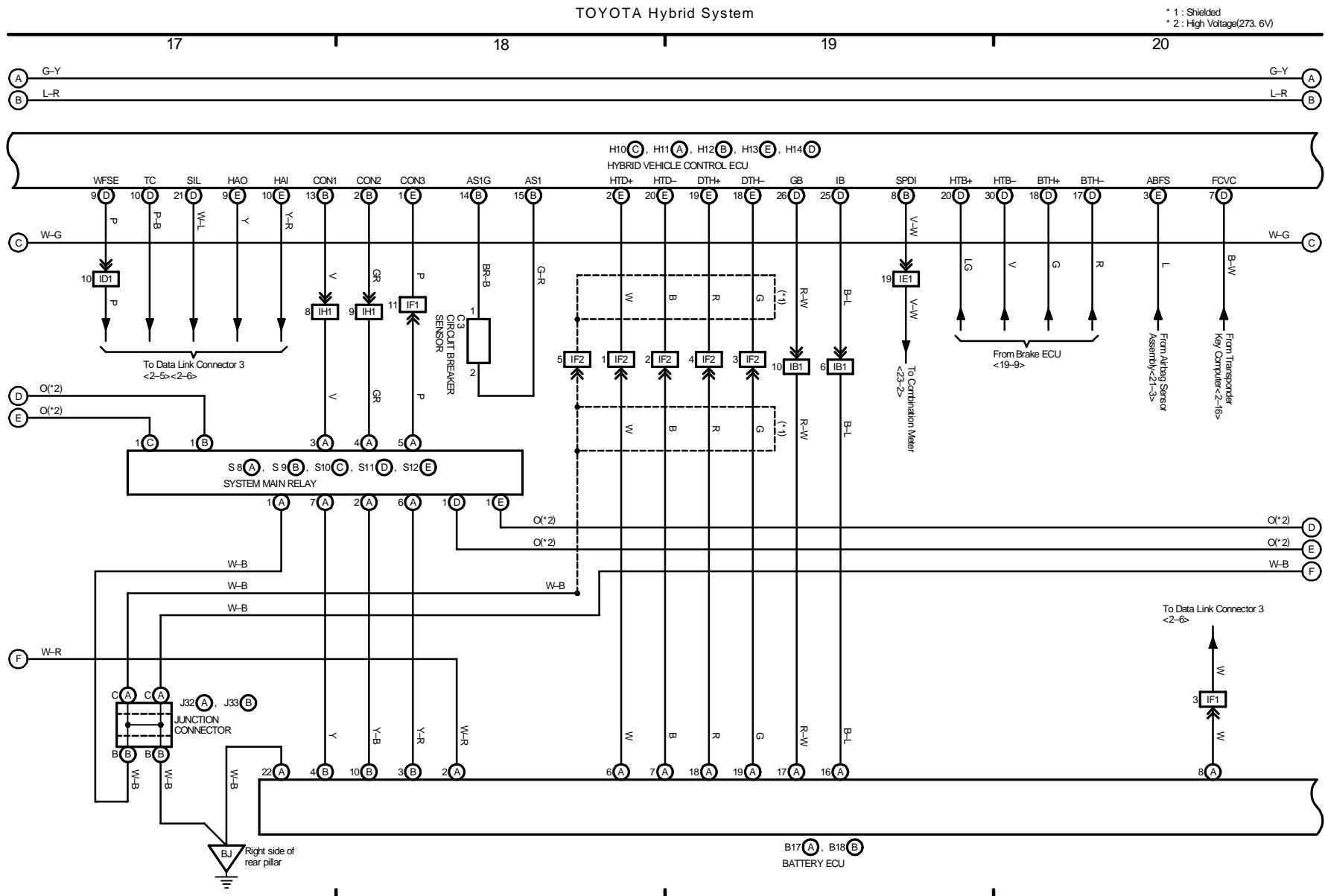


M OVERALL ELECTRICAL WIRING DIAGRAM

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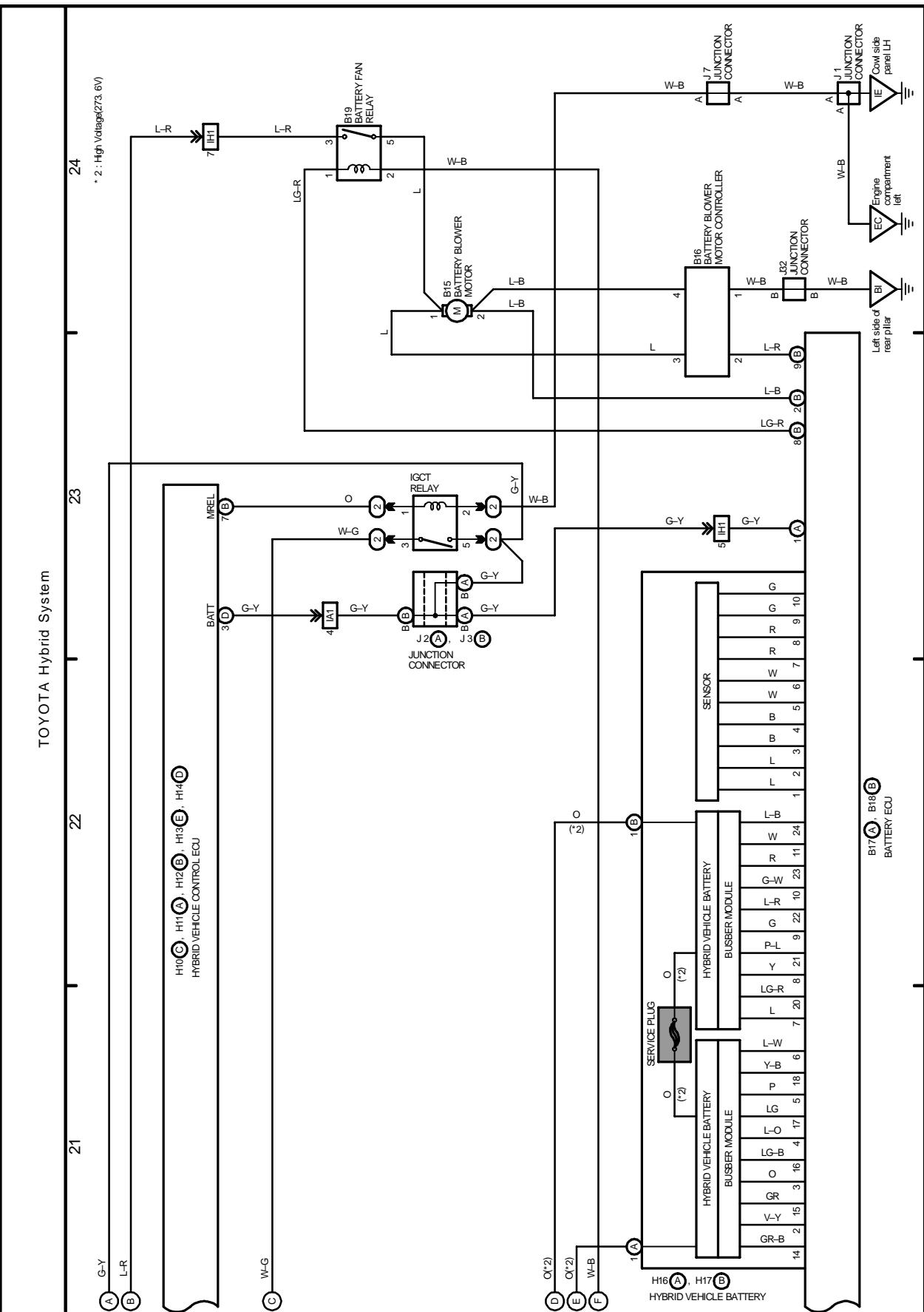
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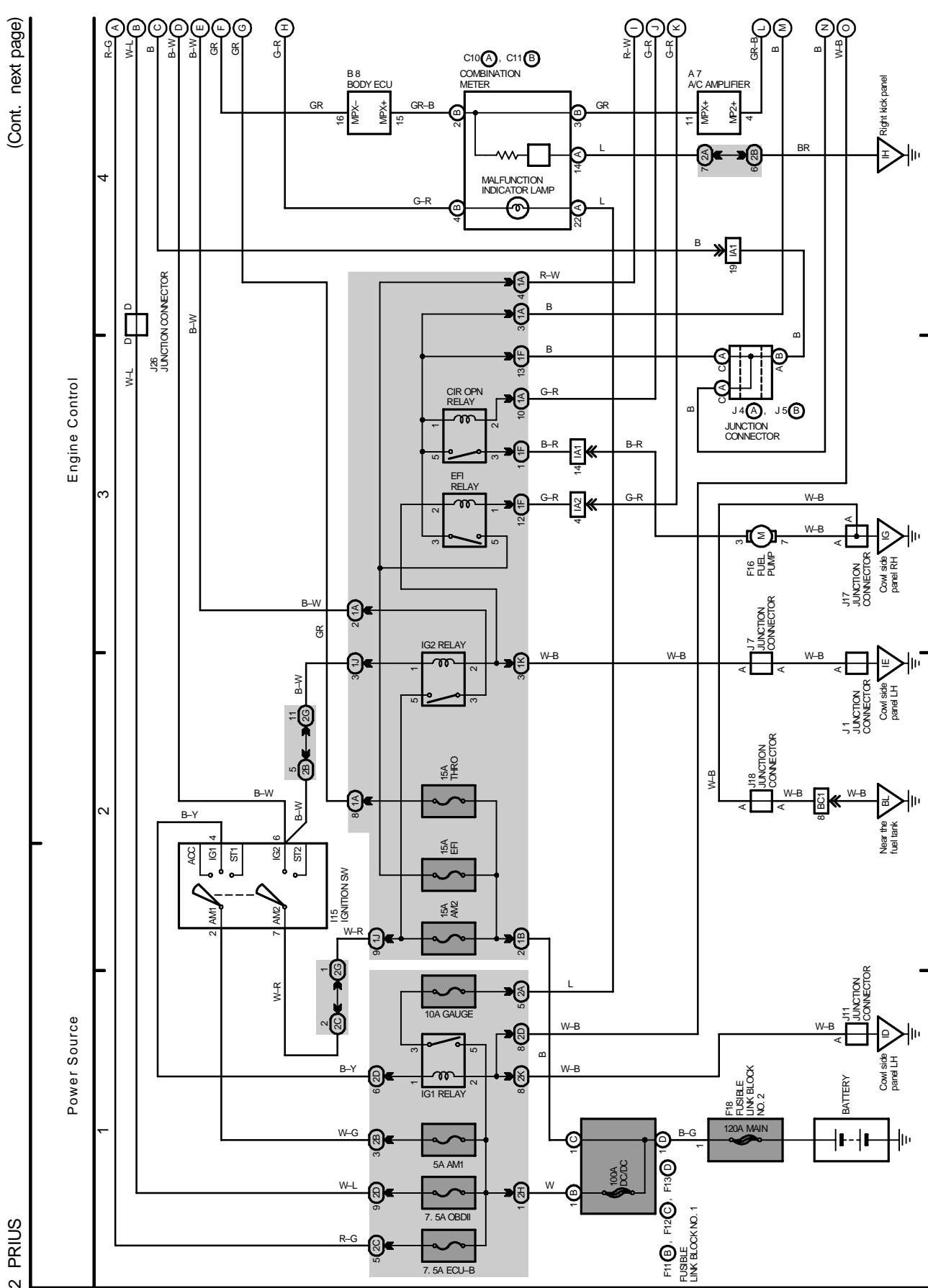
M OVERALL ELECTRICAL WIRING DIAGRAM

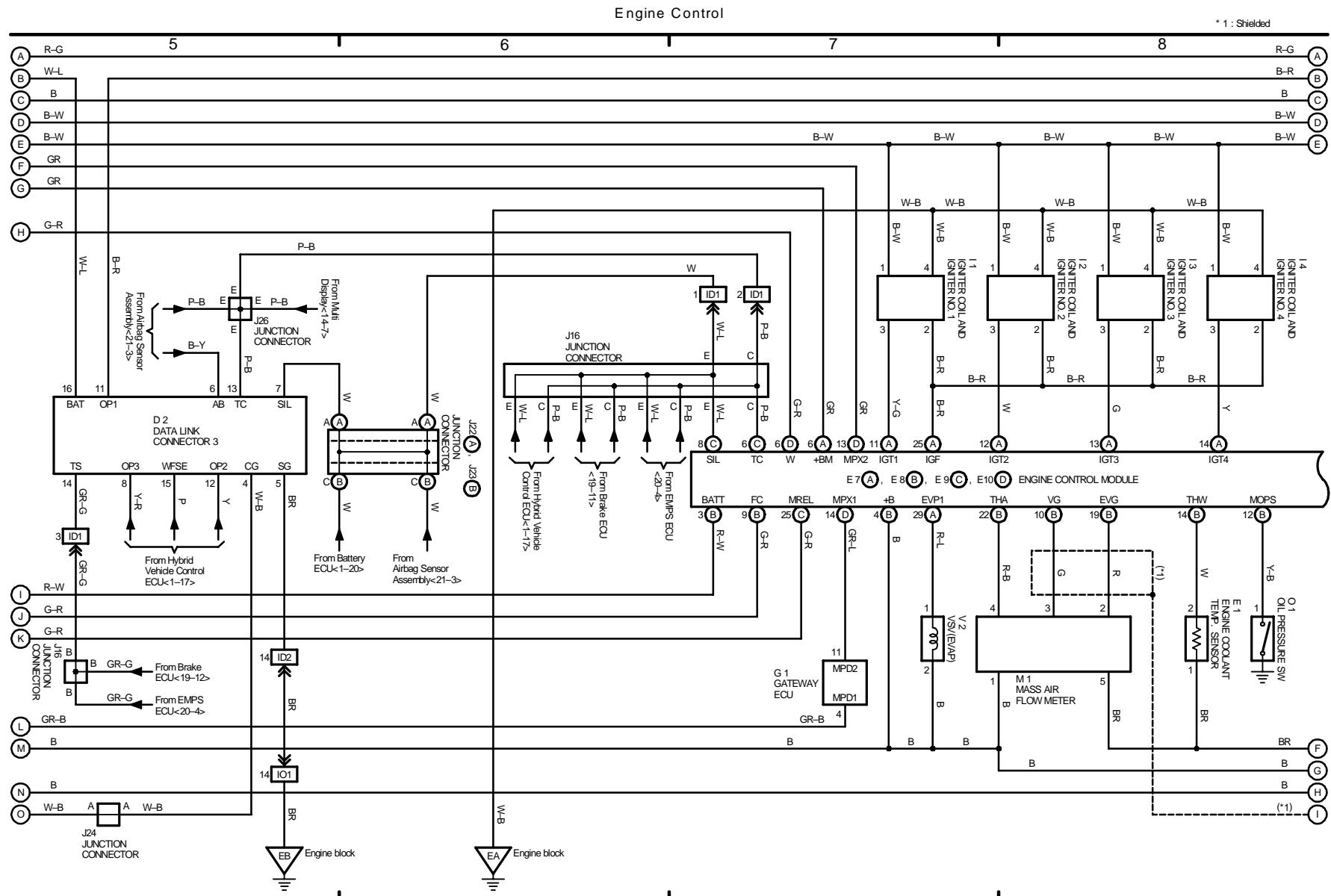
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M OVERALL ELECTRICAL WIRING DIAGRAM

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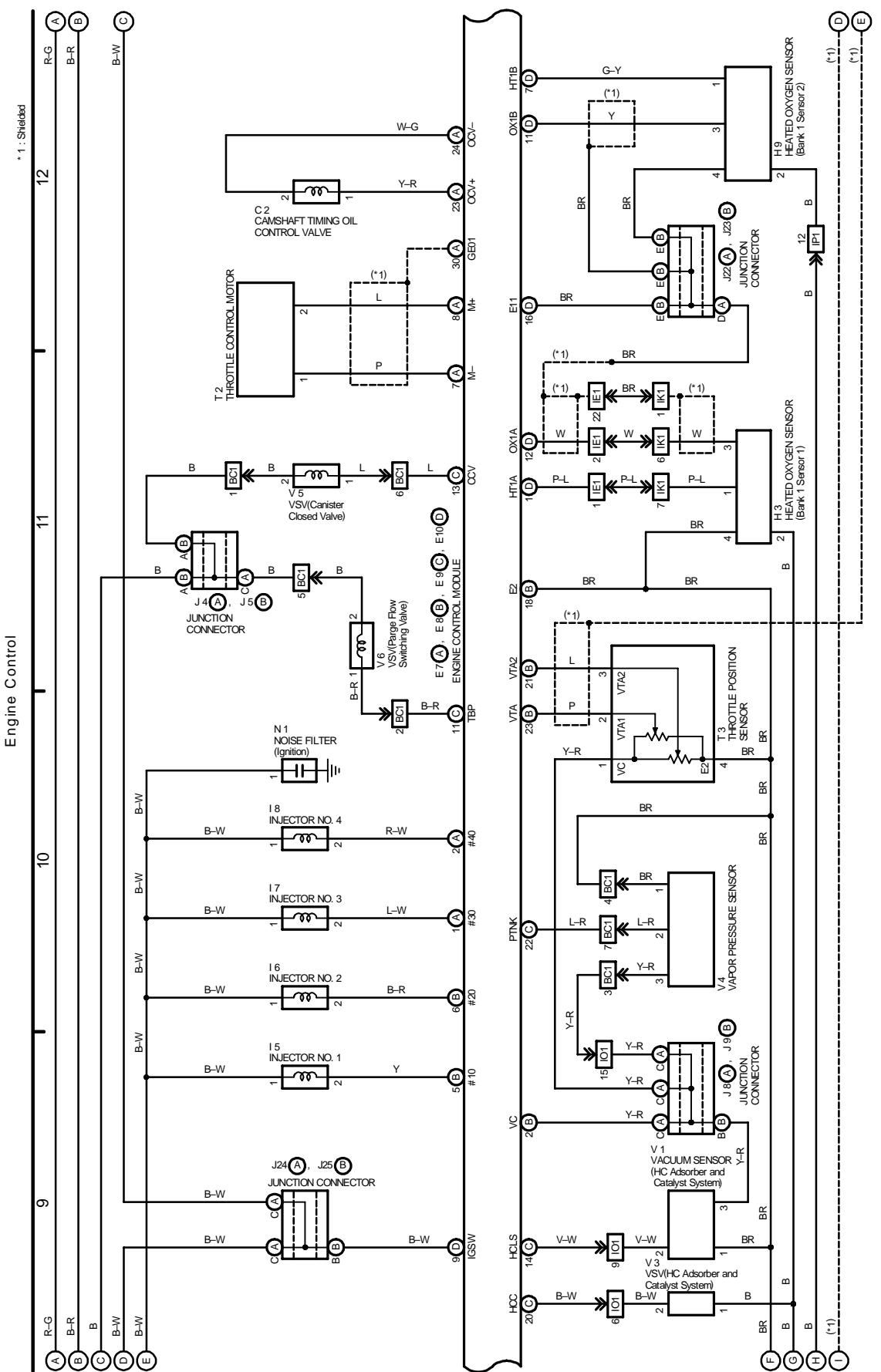




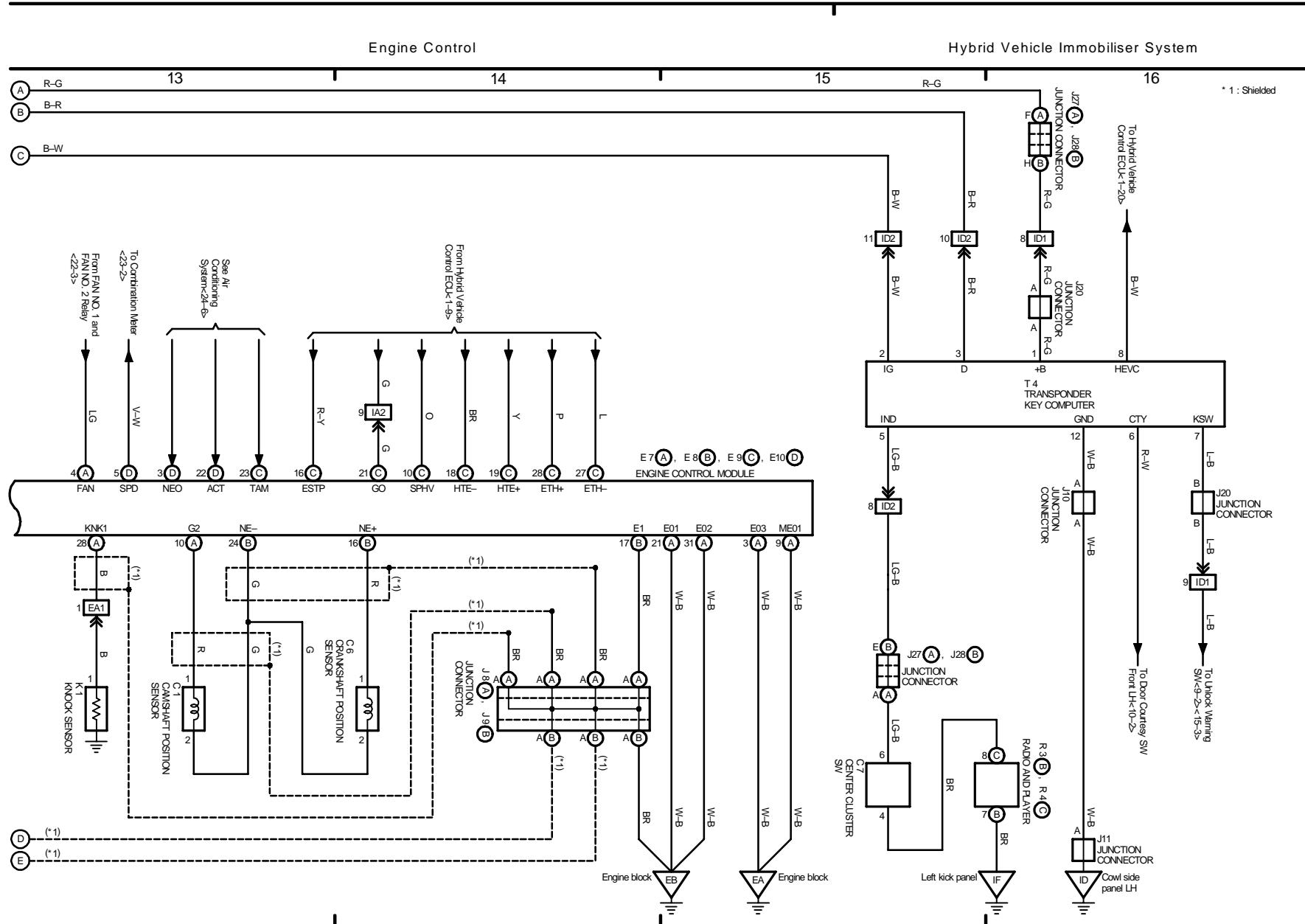
M OVERALL ELECTRICAL WIRING DIAGRAM

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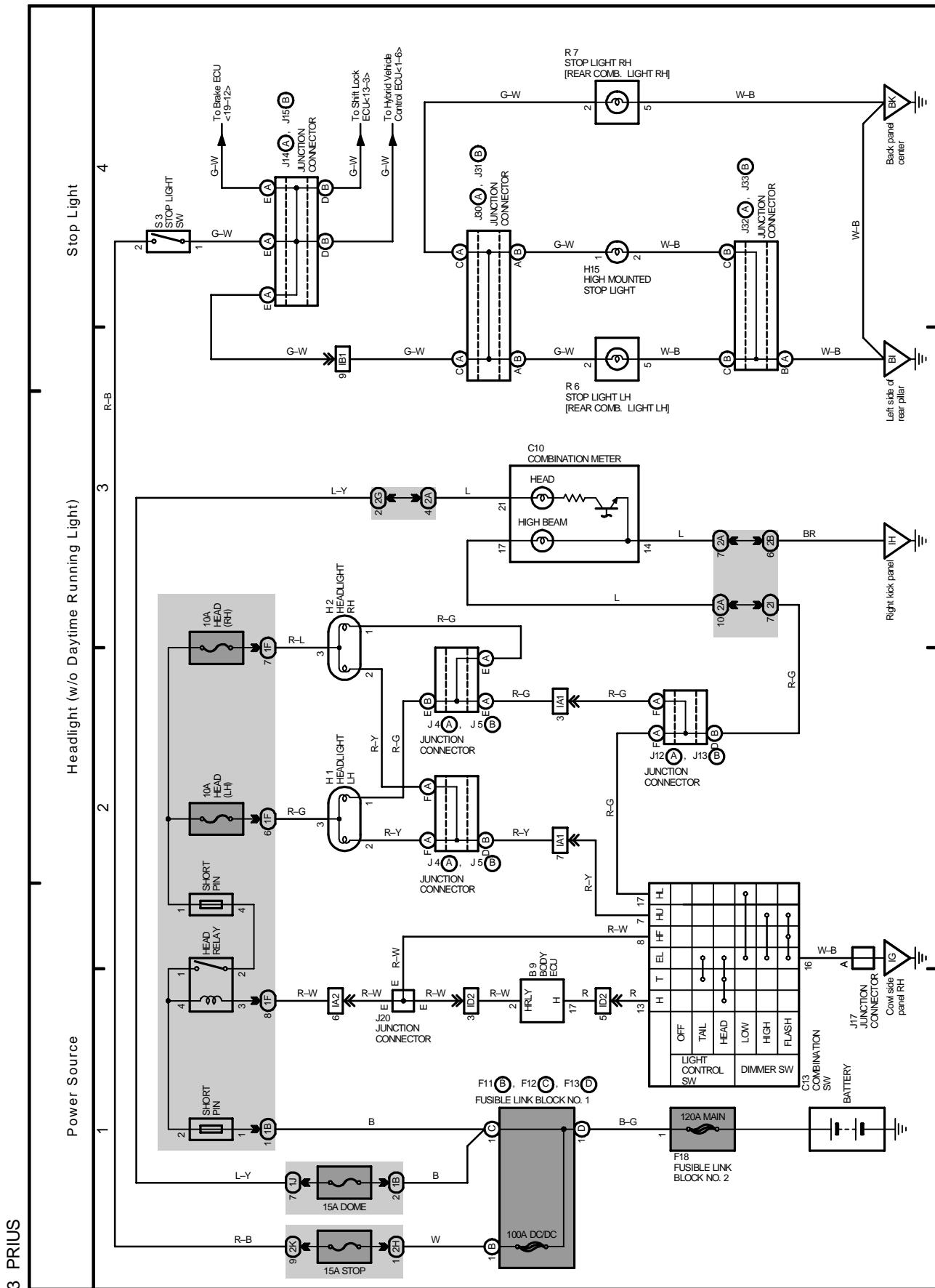
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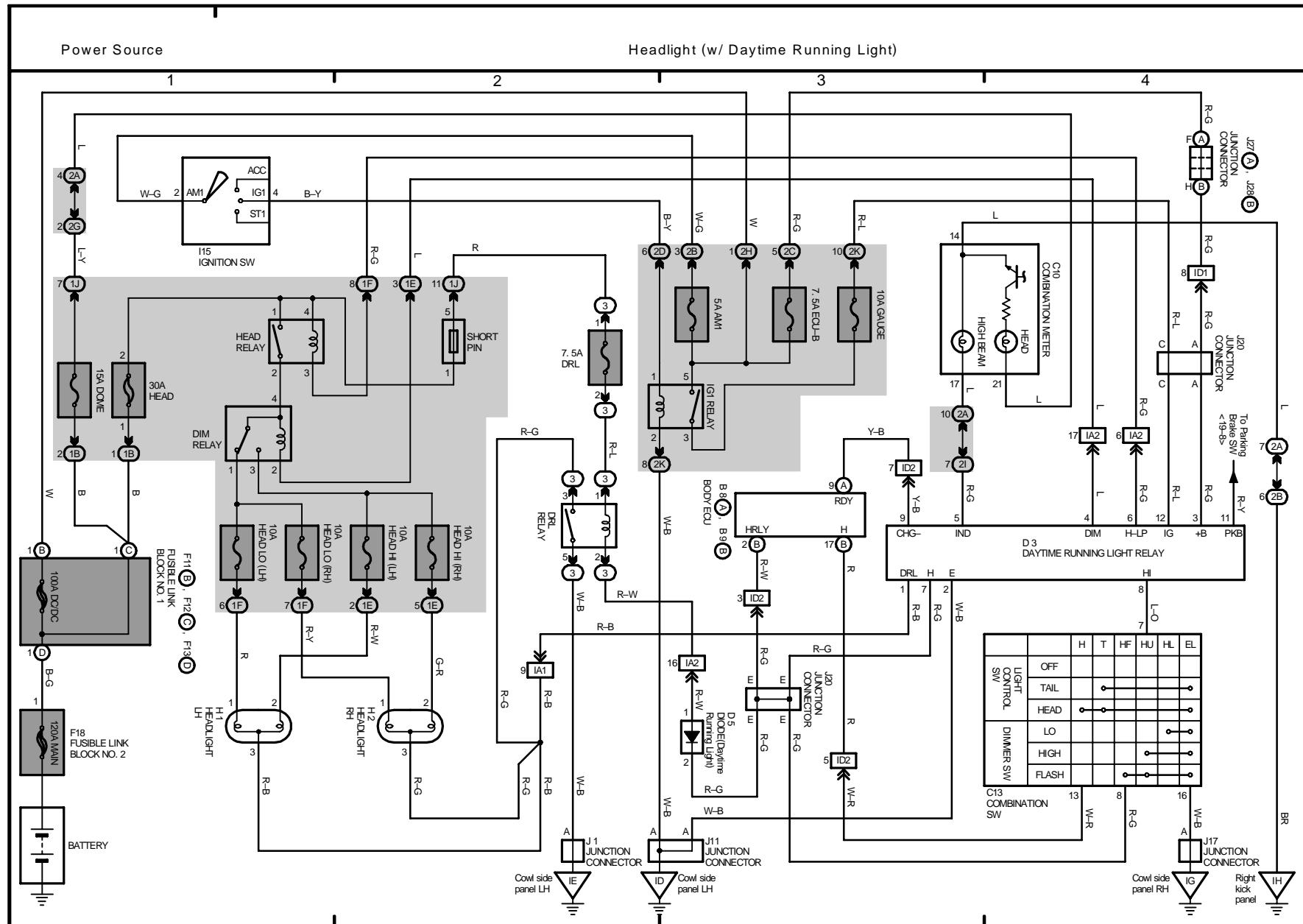


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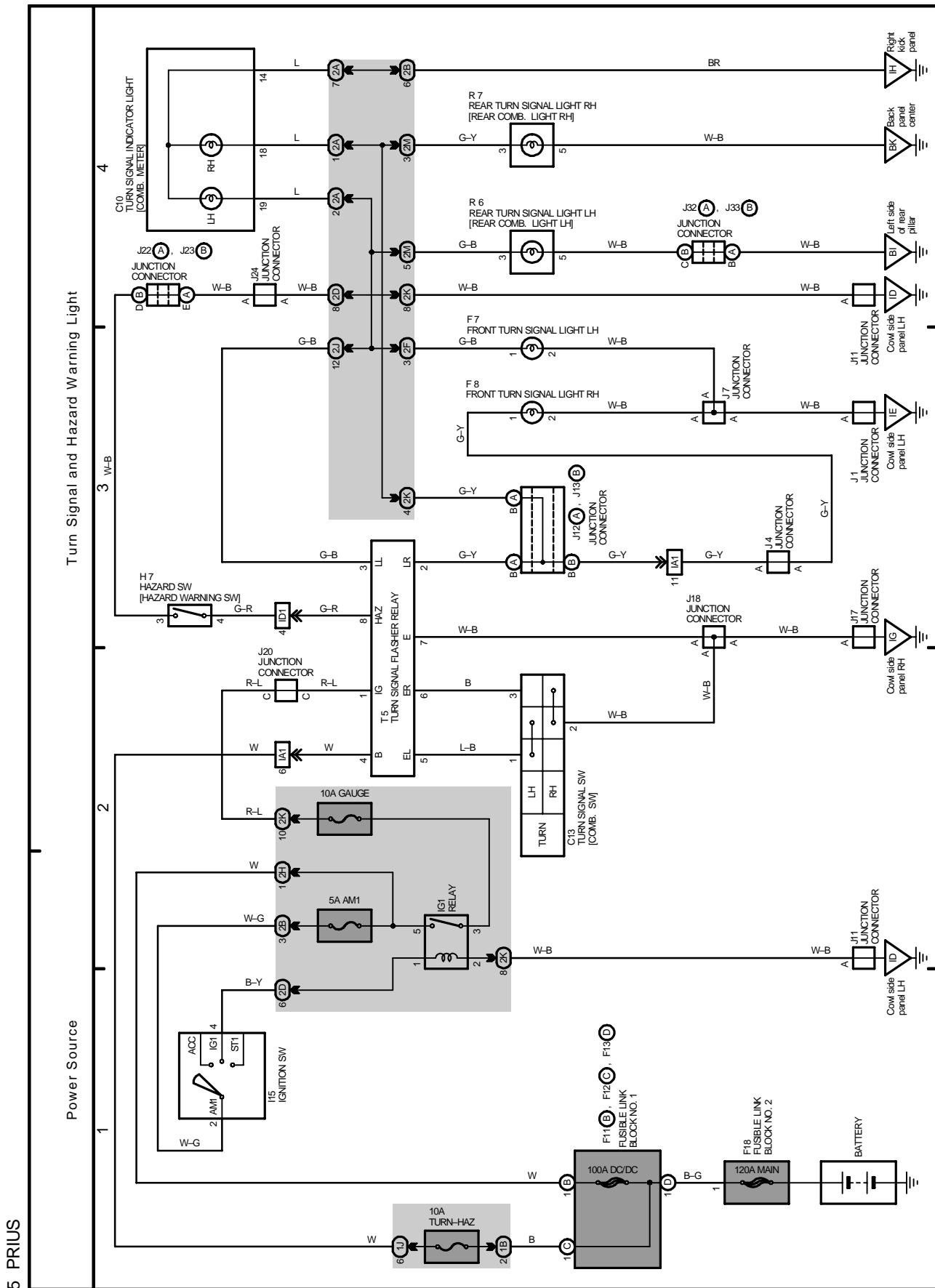
4 PRIUS

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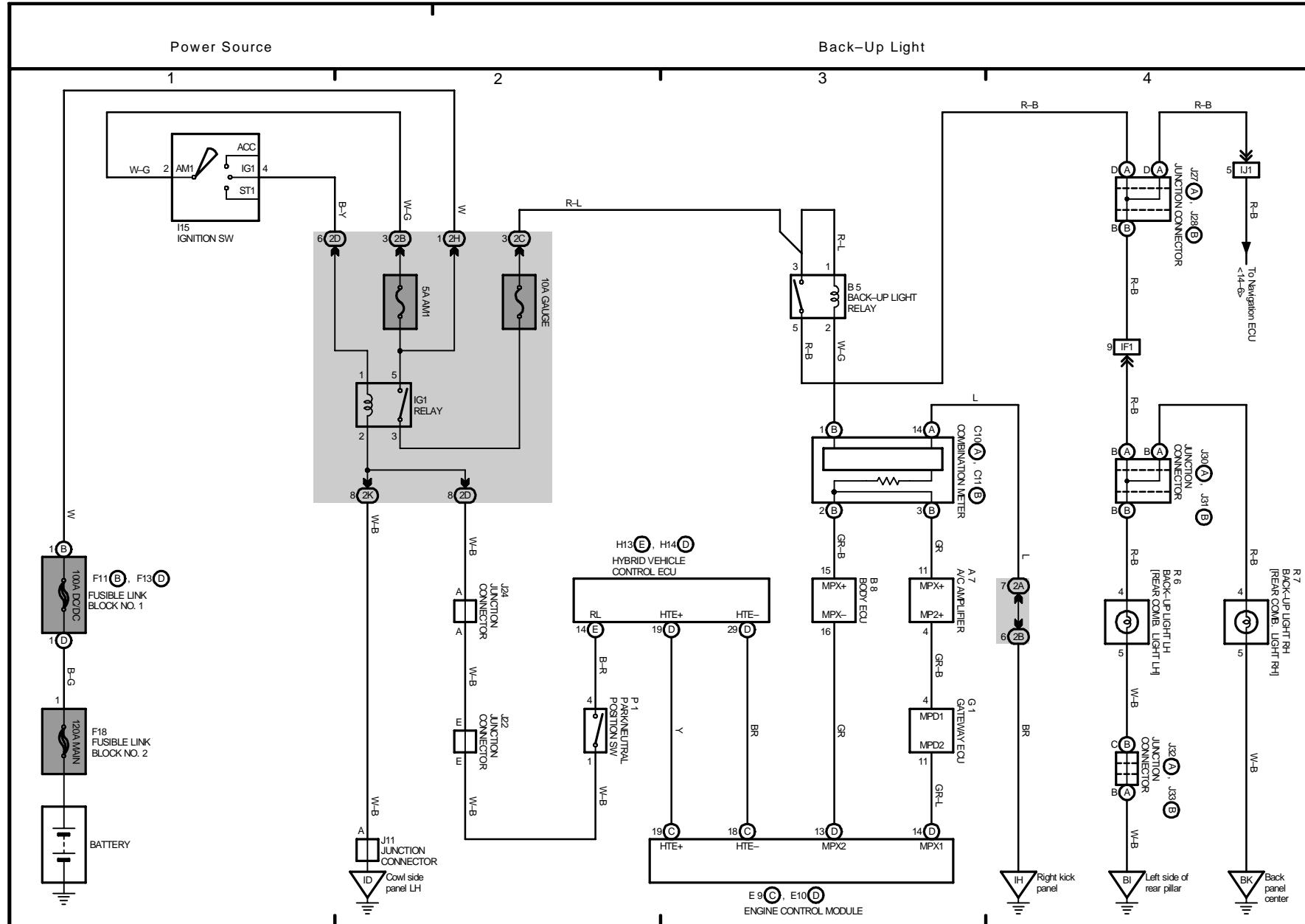
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M OVERALL ELECTRICAL WIRING DIAGRAM



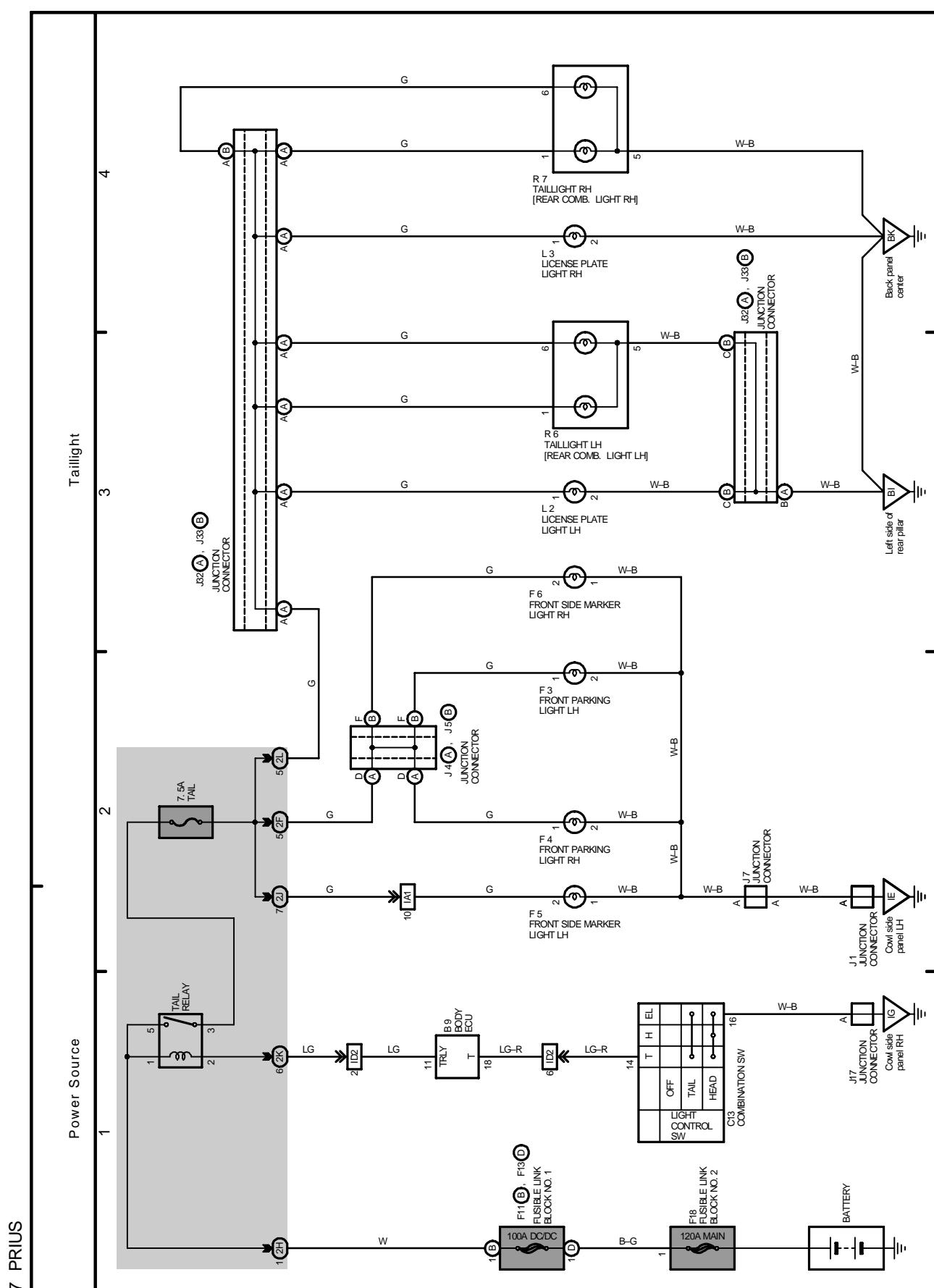
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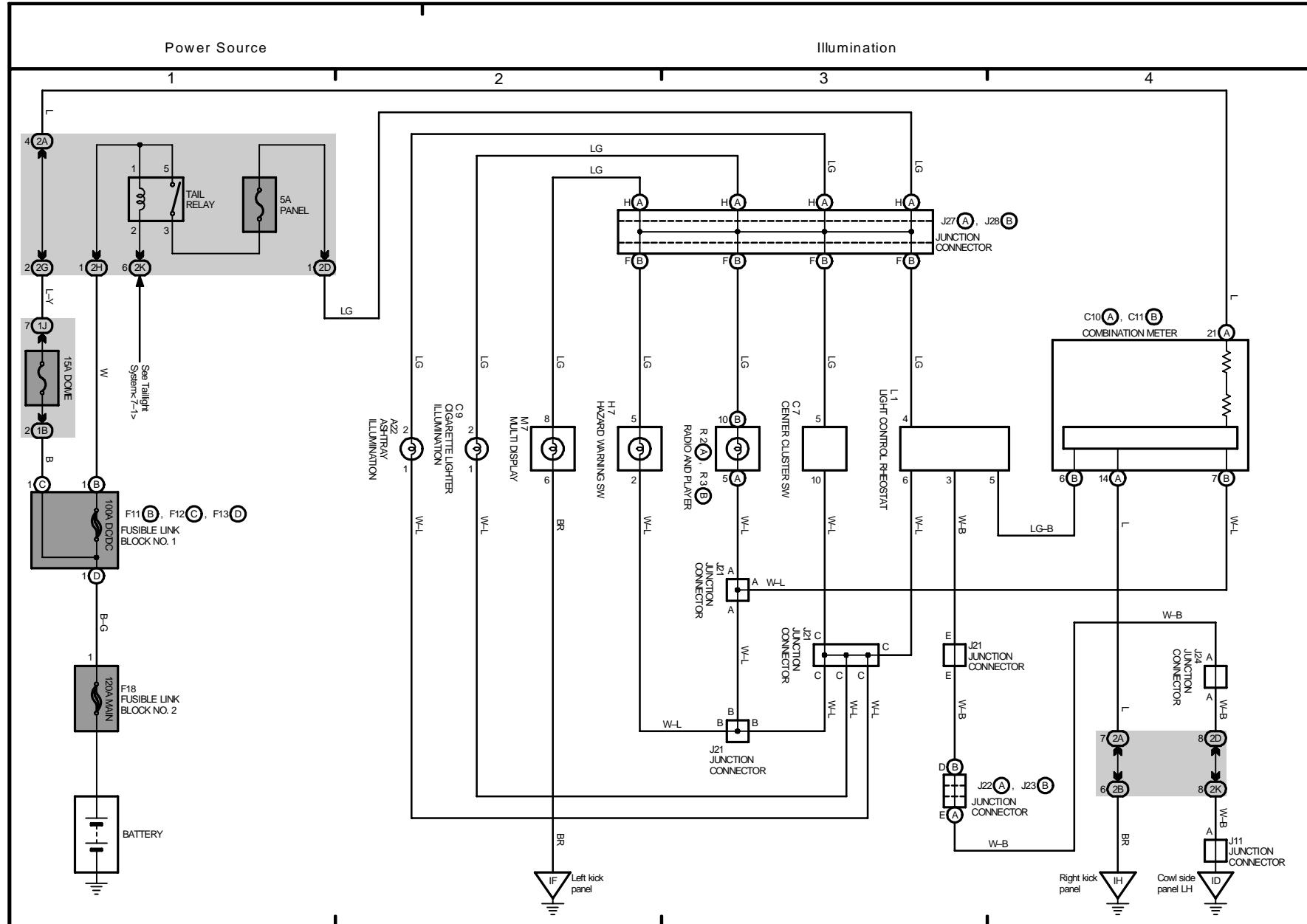
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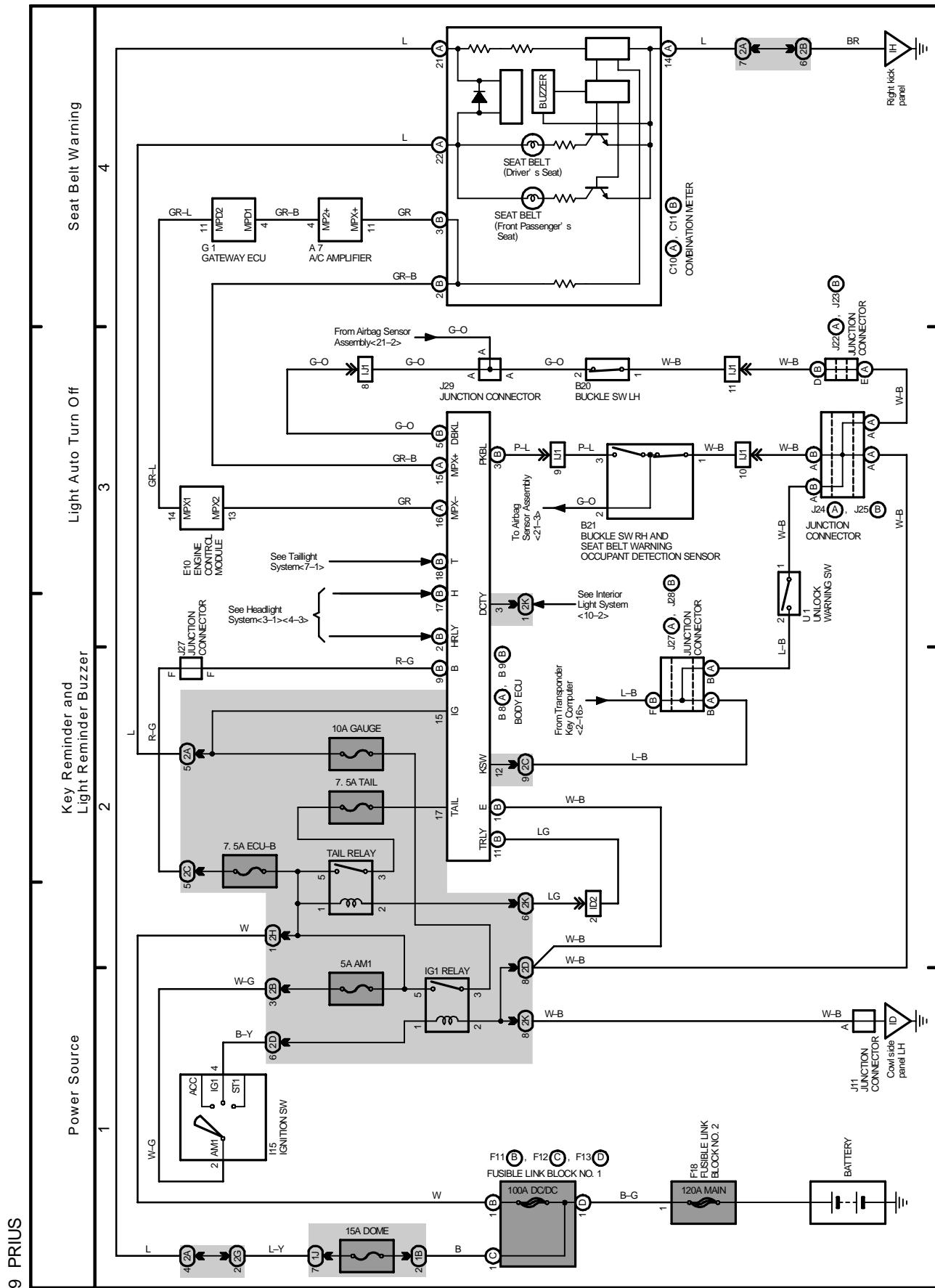
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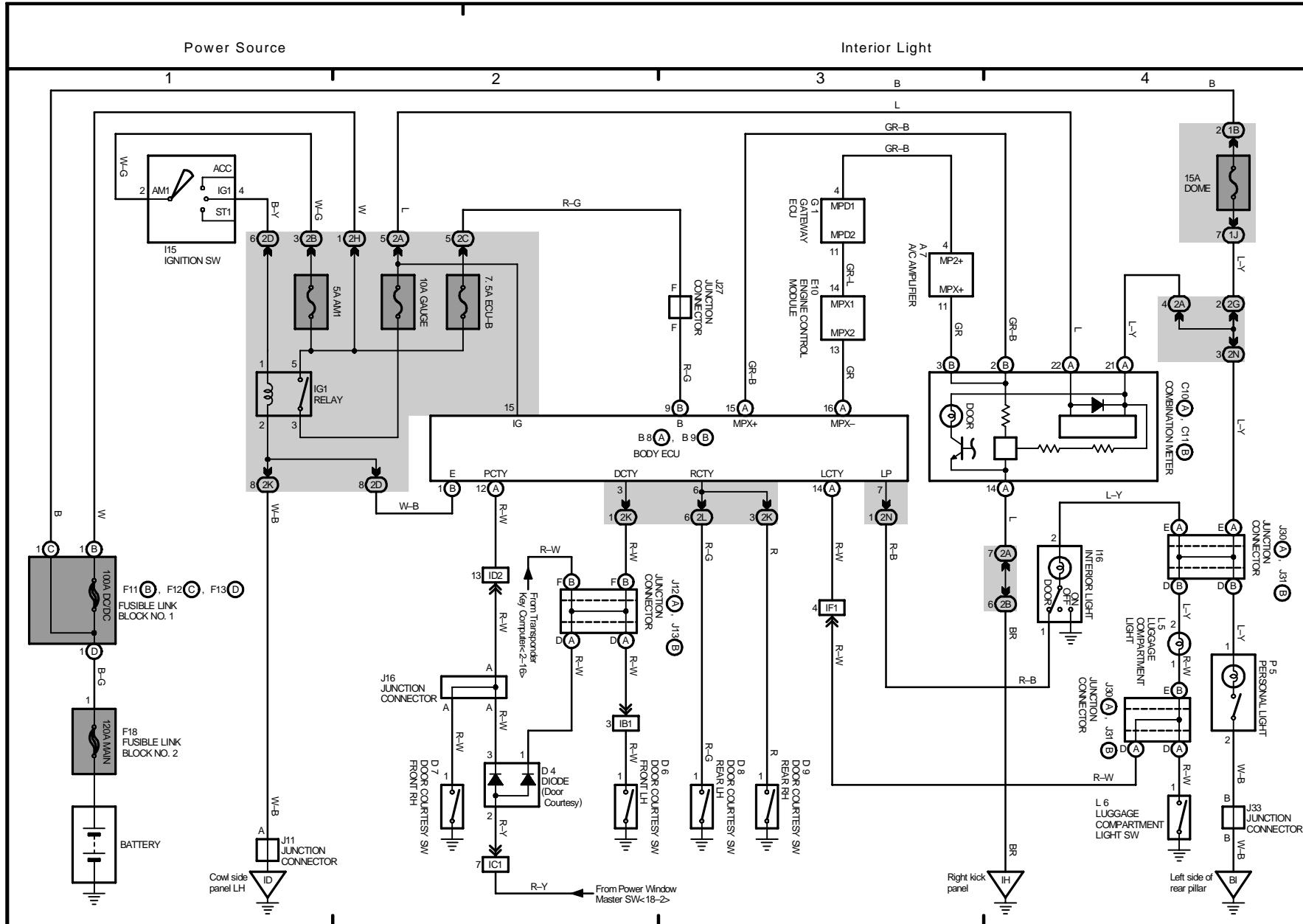
M OVERALL ELECTRICAL WIRING DIAGRAM



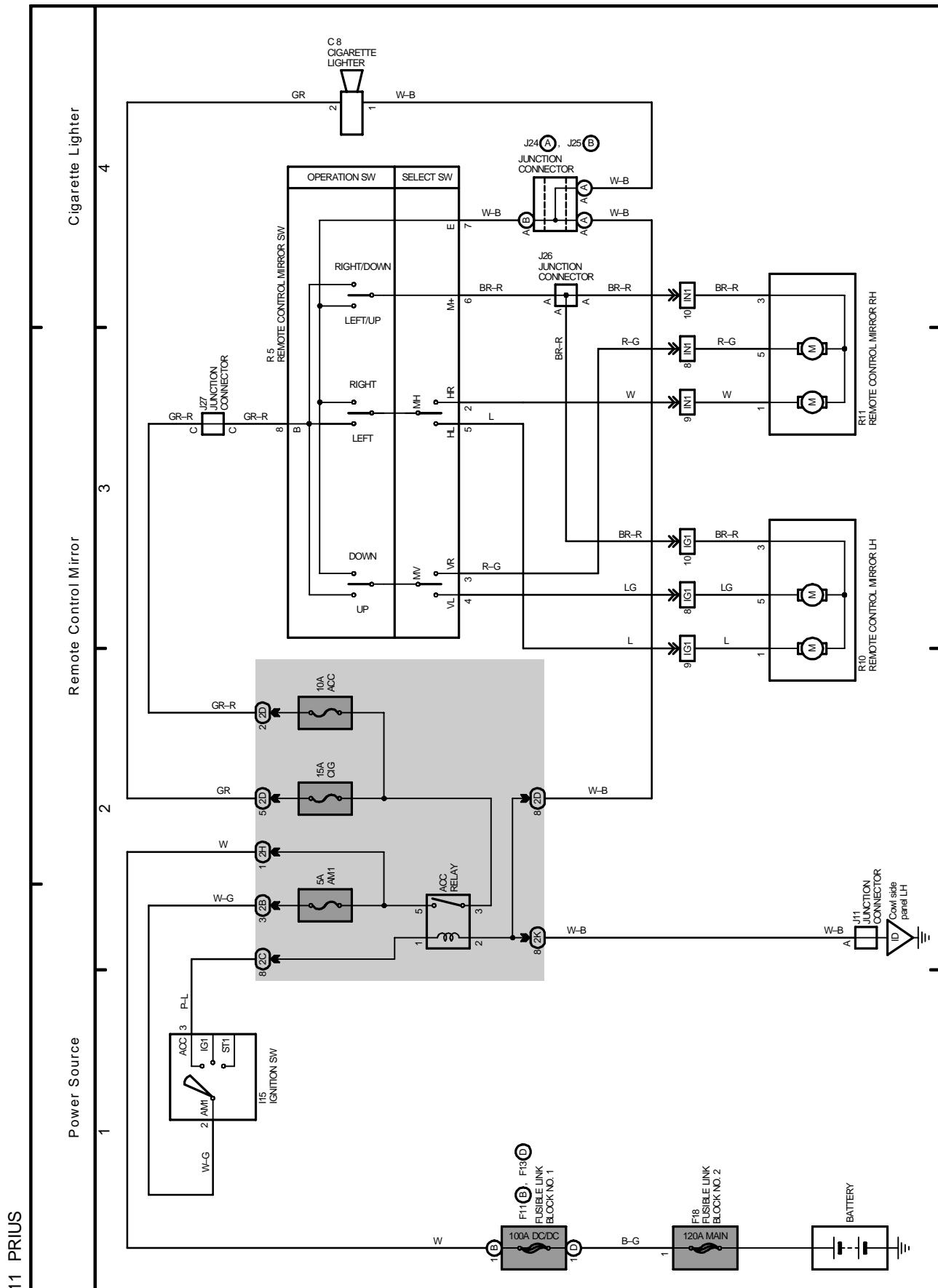


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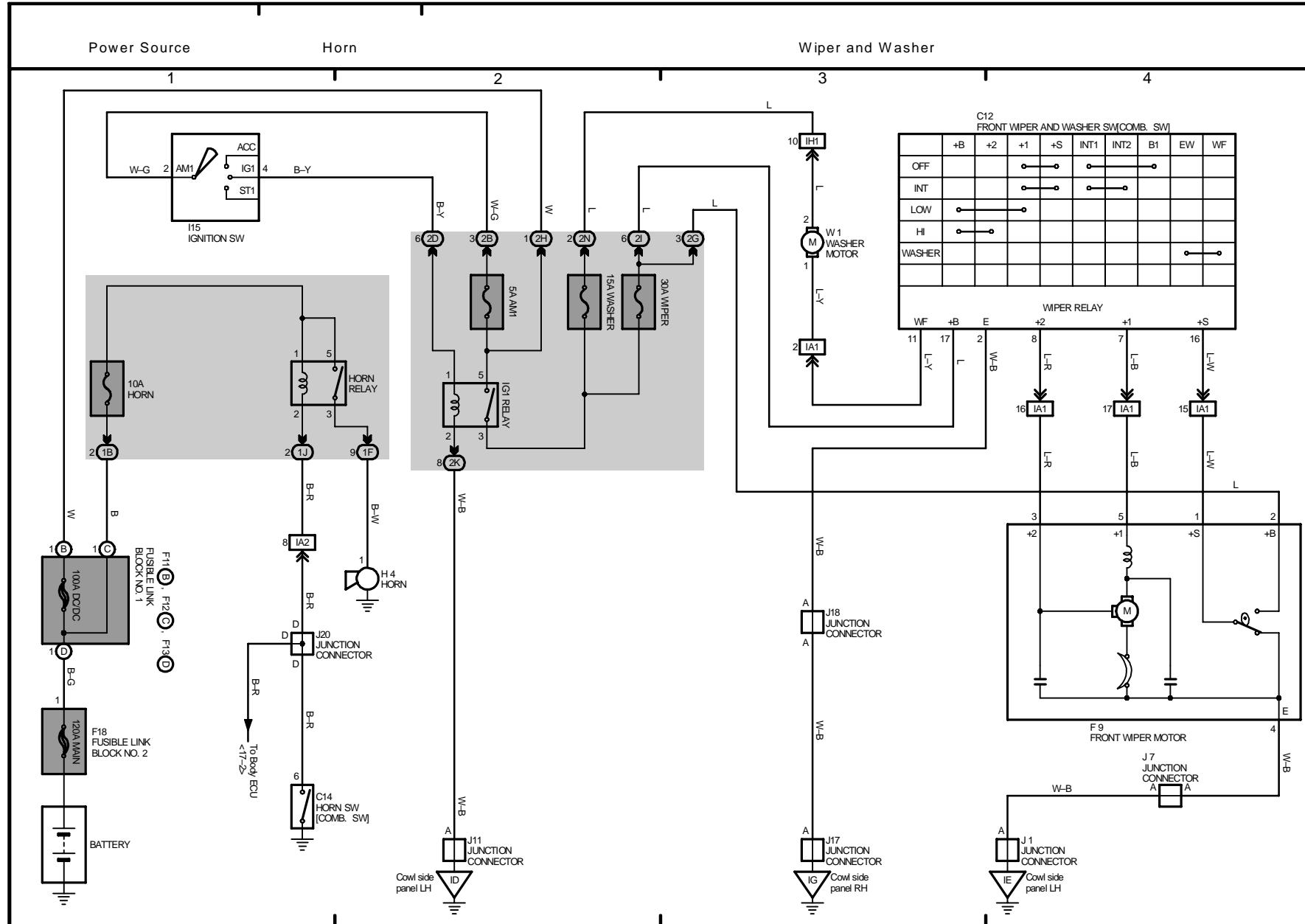


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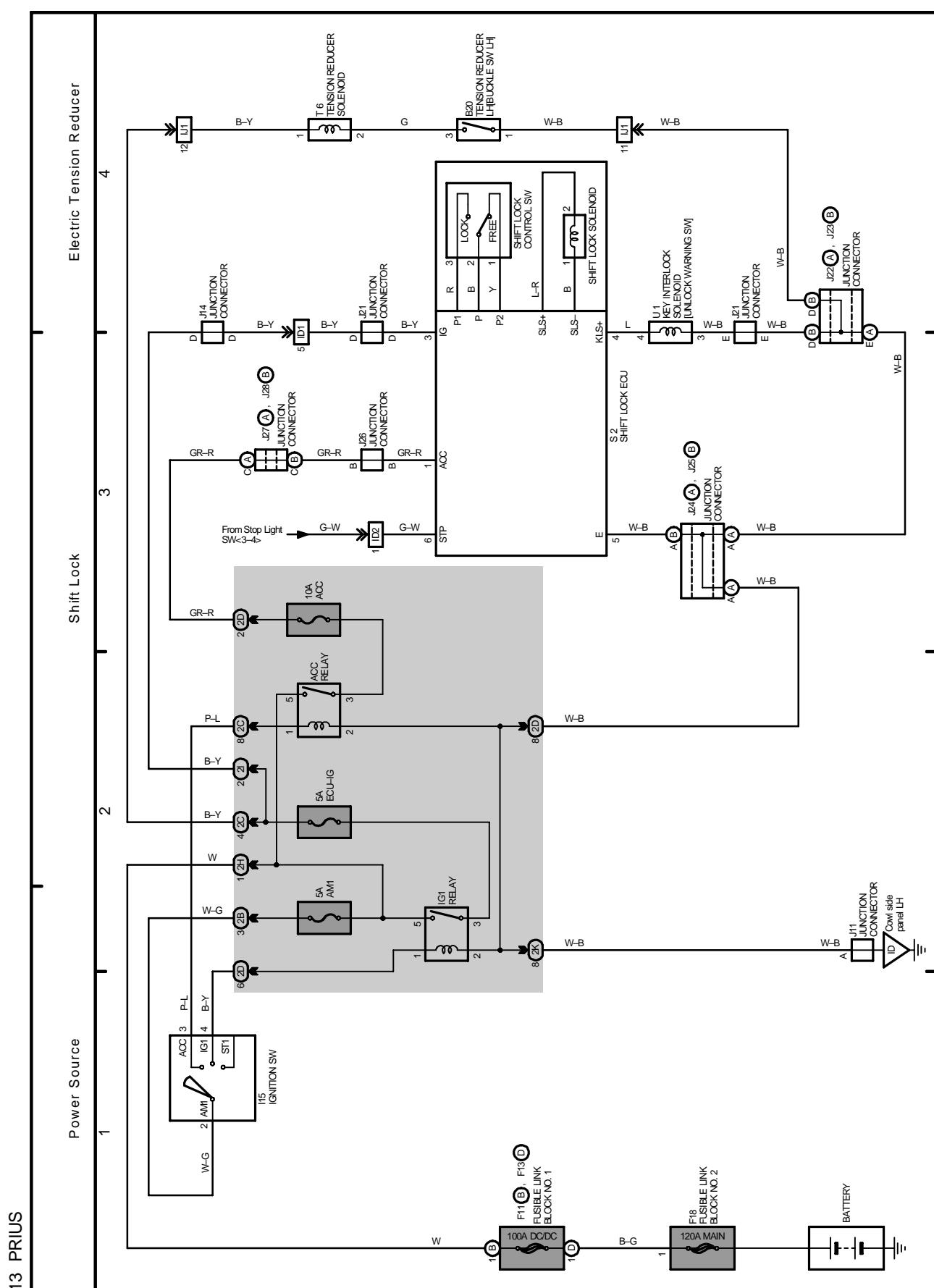


12 PRIUS

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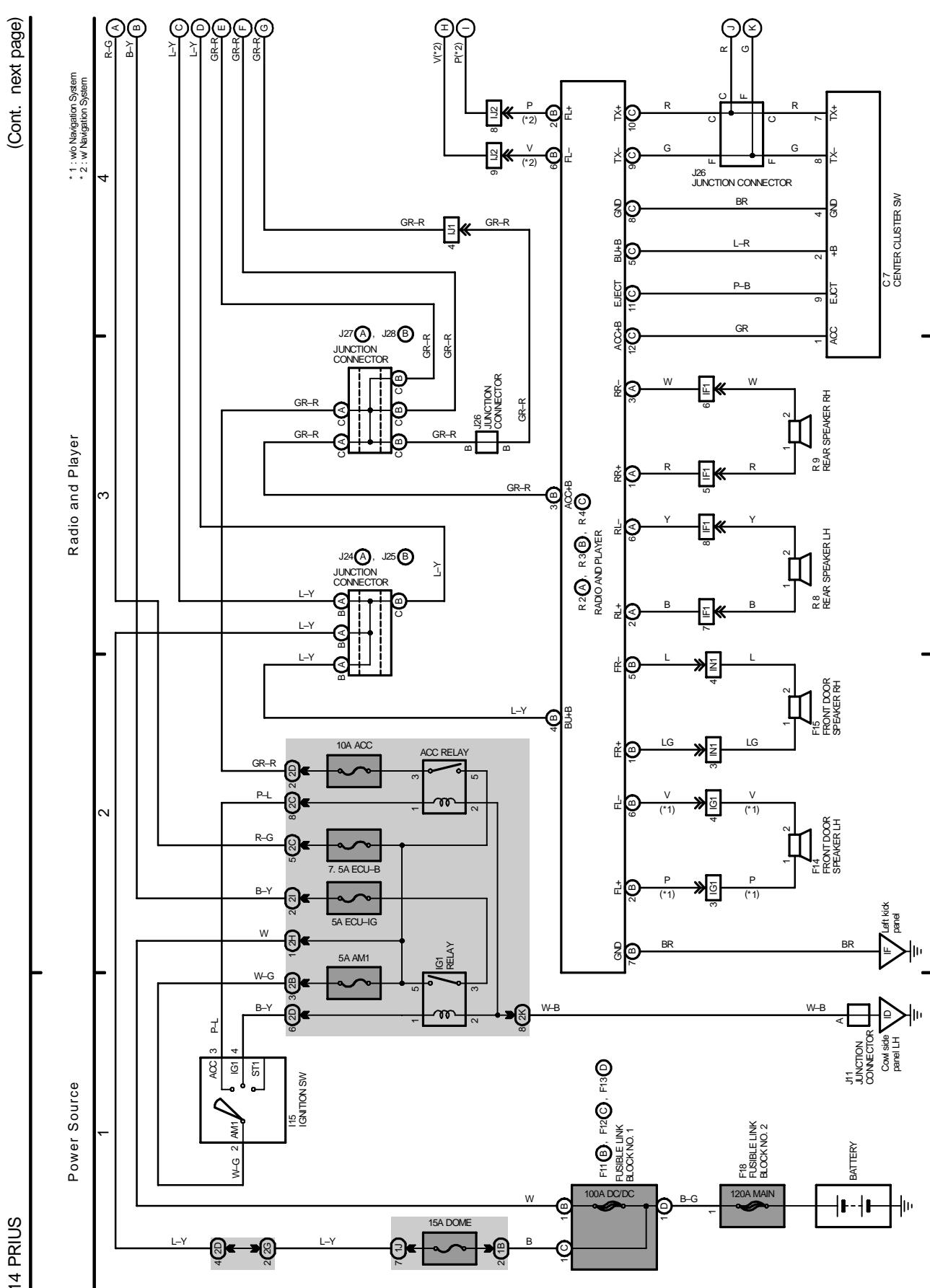


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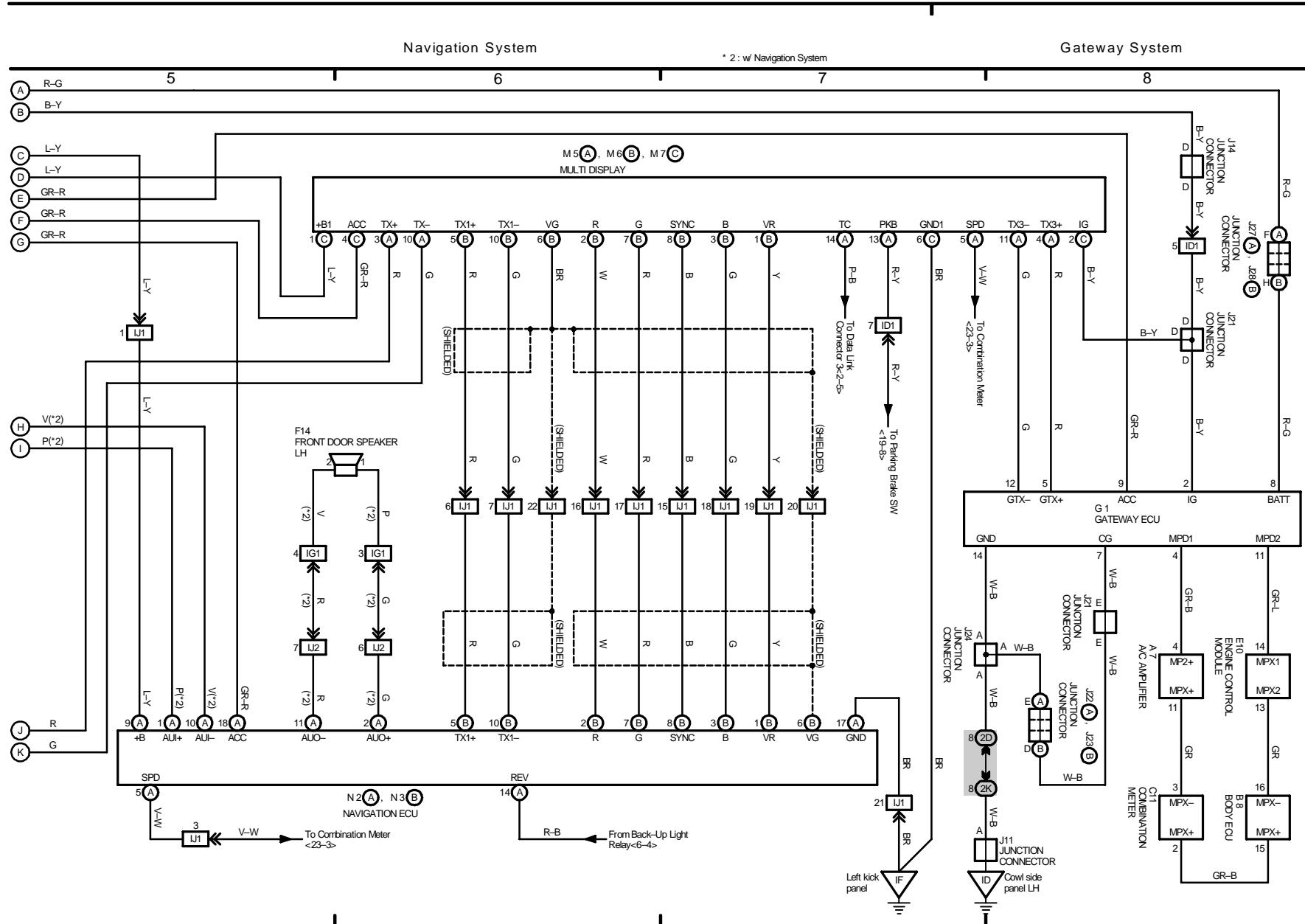


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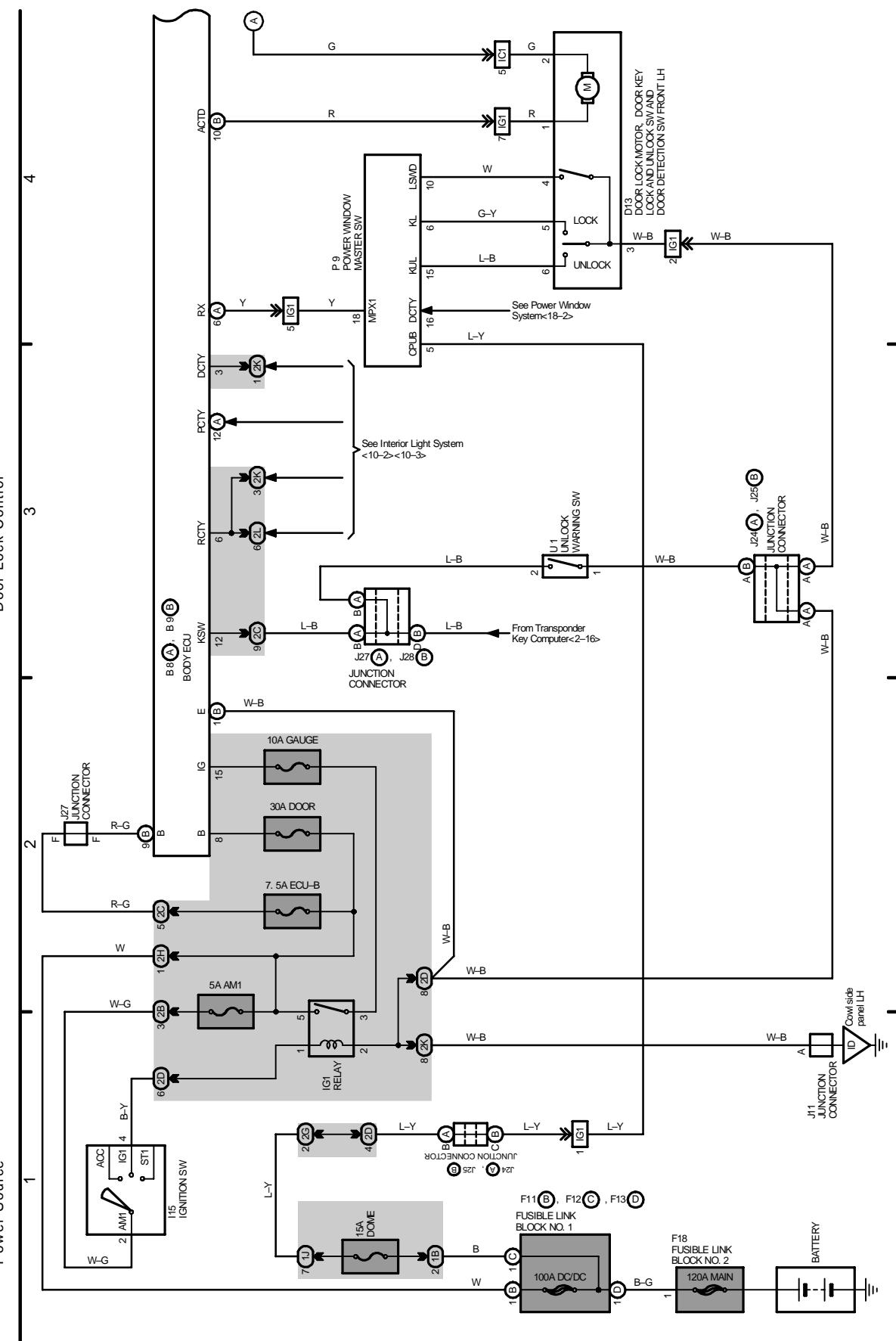
14 PRIUS



M OVERALL ELECTRICAL WIRING DIAGRAM

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15 PRIUS



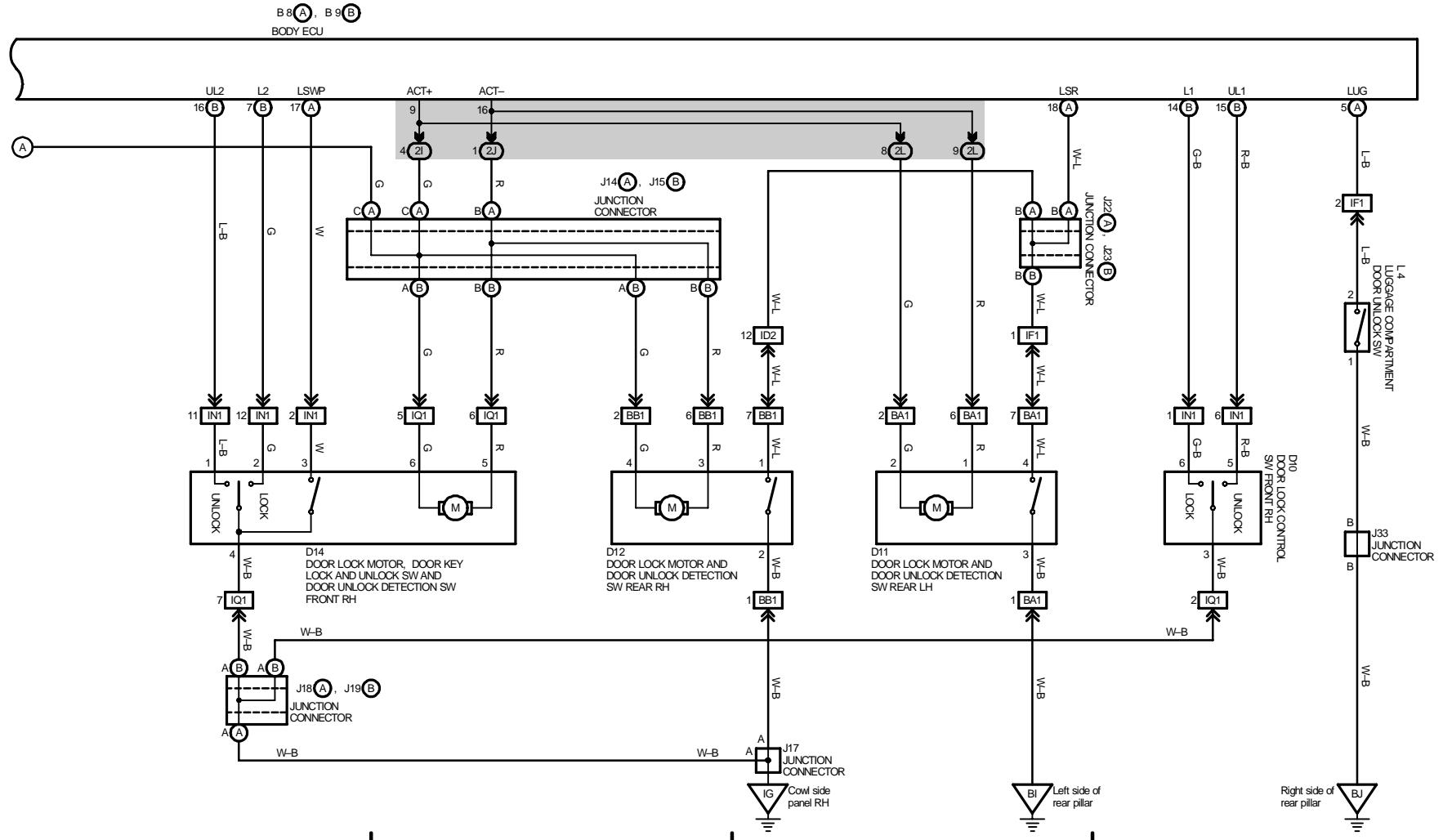
Door Lock Control

5

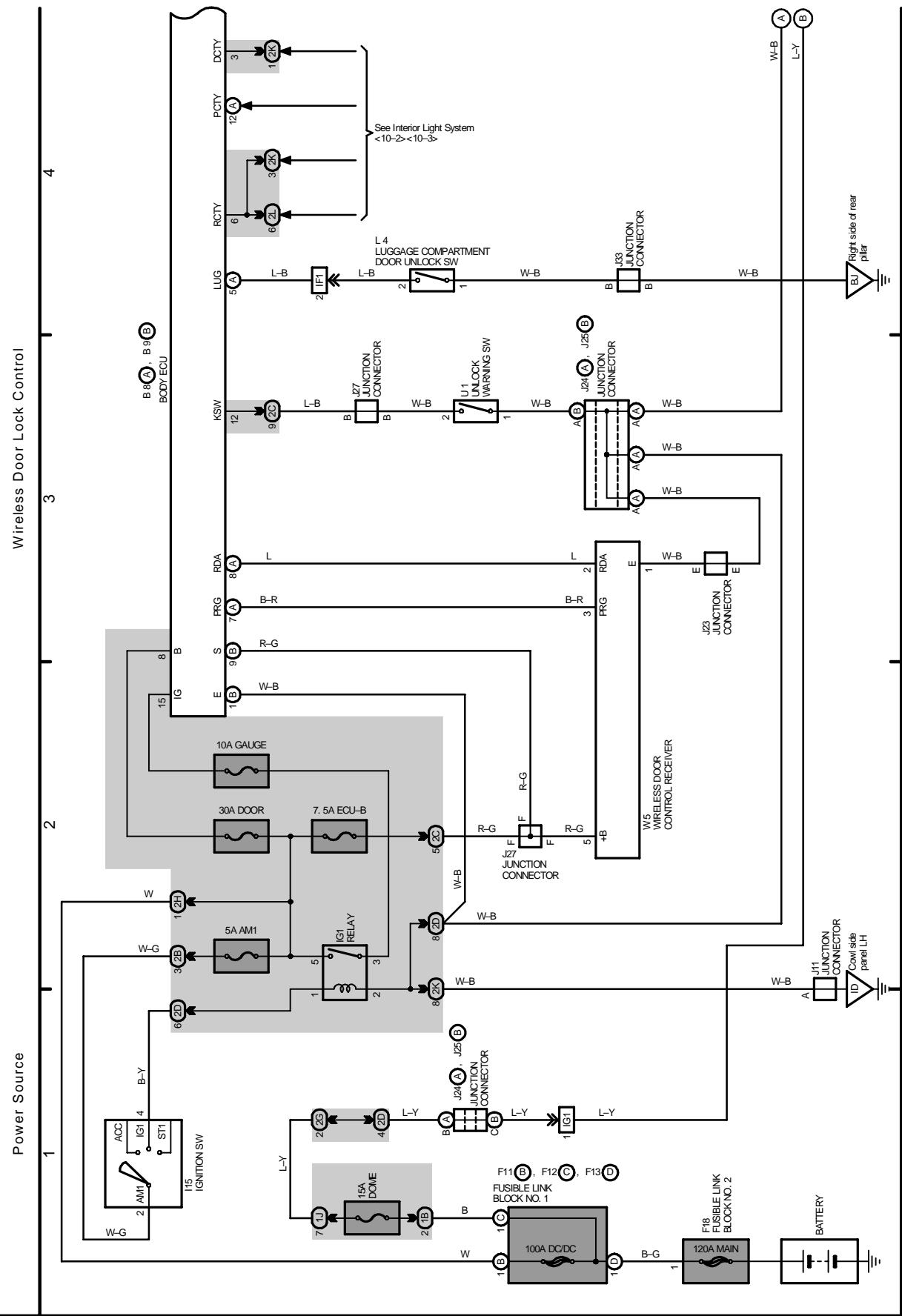
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7

8



M OVERALL ELECTRICAL WIRING DIAGRAM



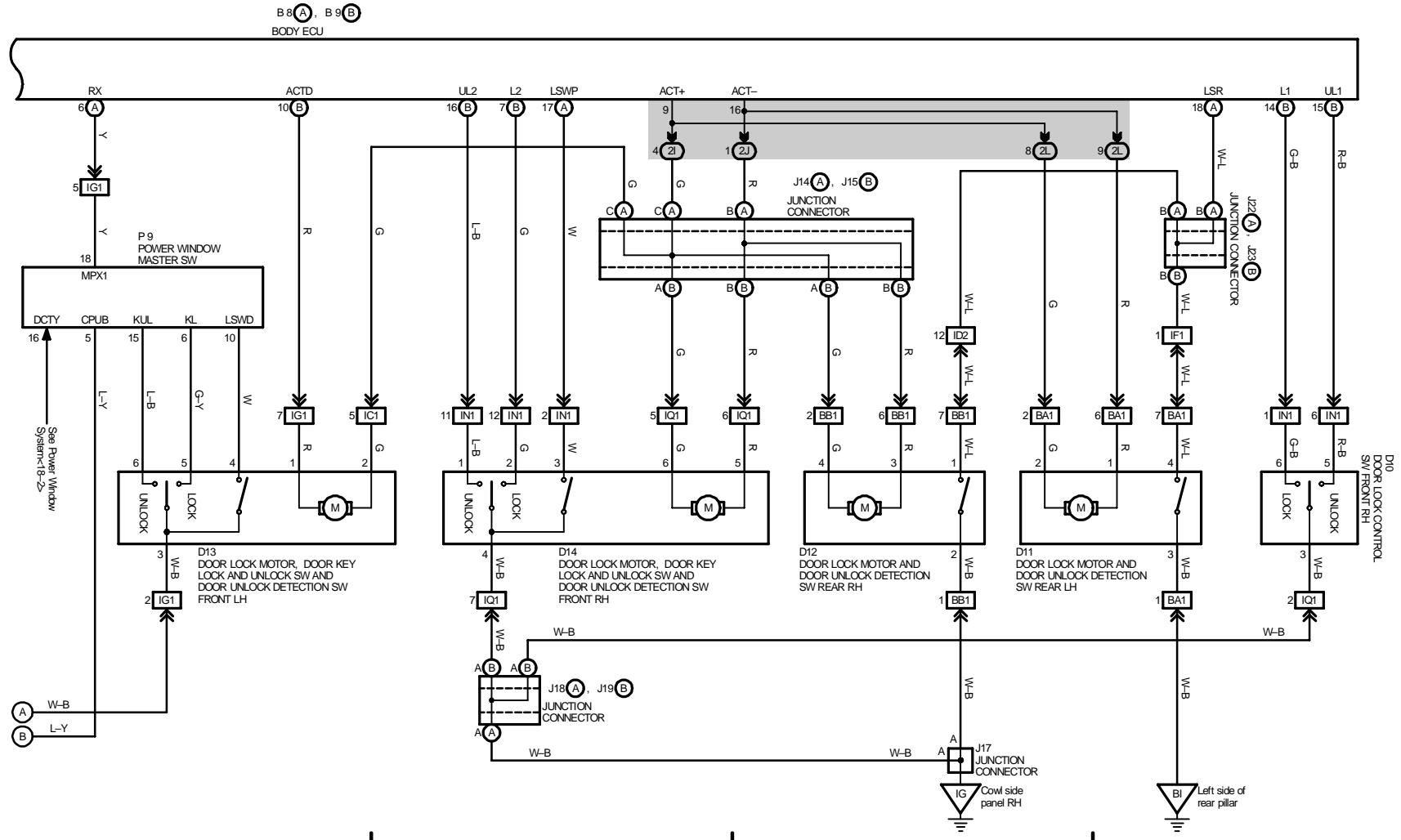
Wireless Door Lock Control

5

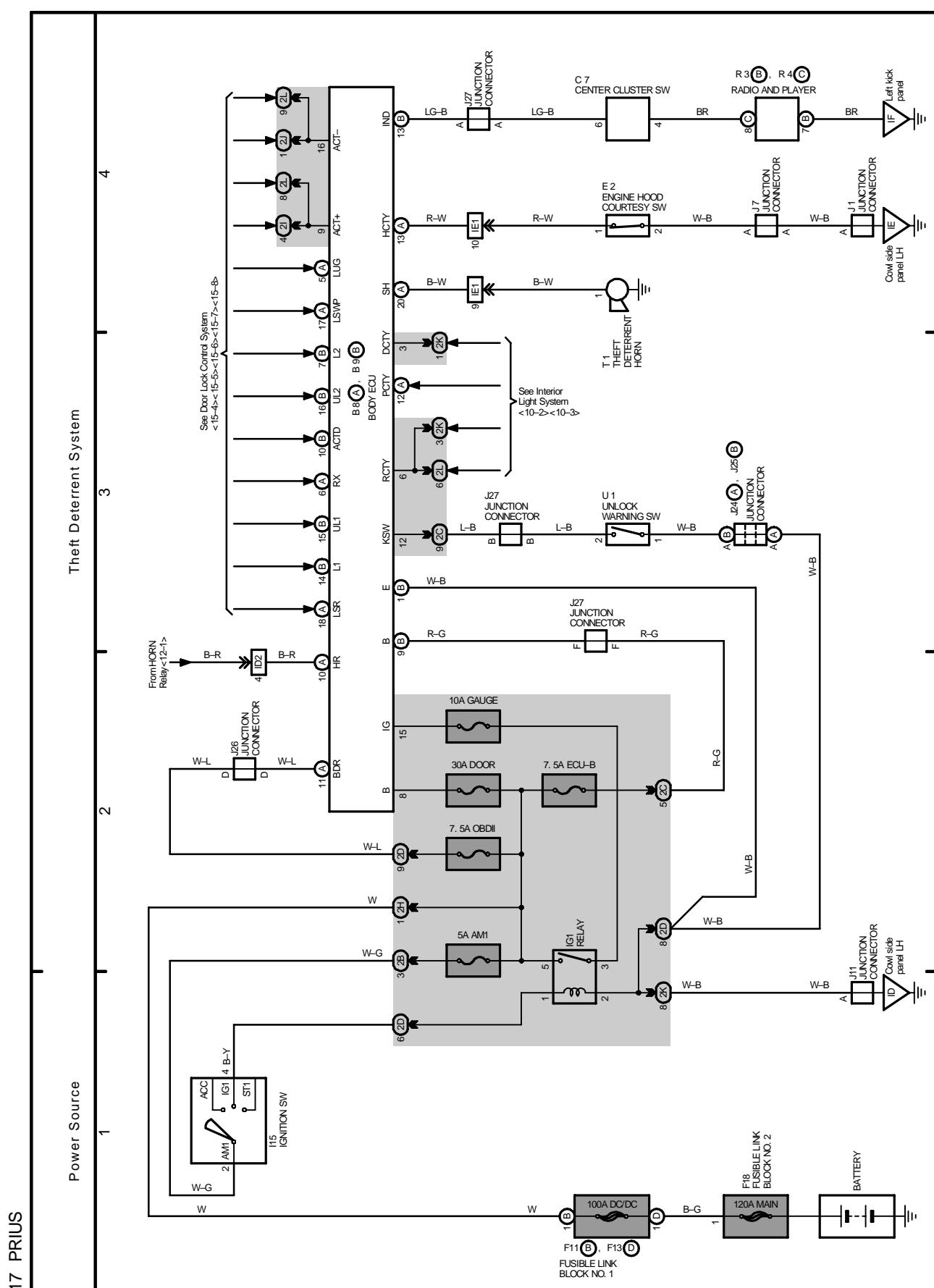
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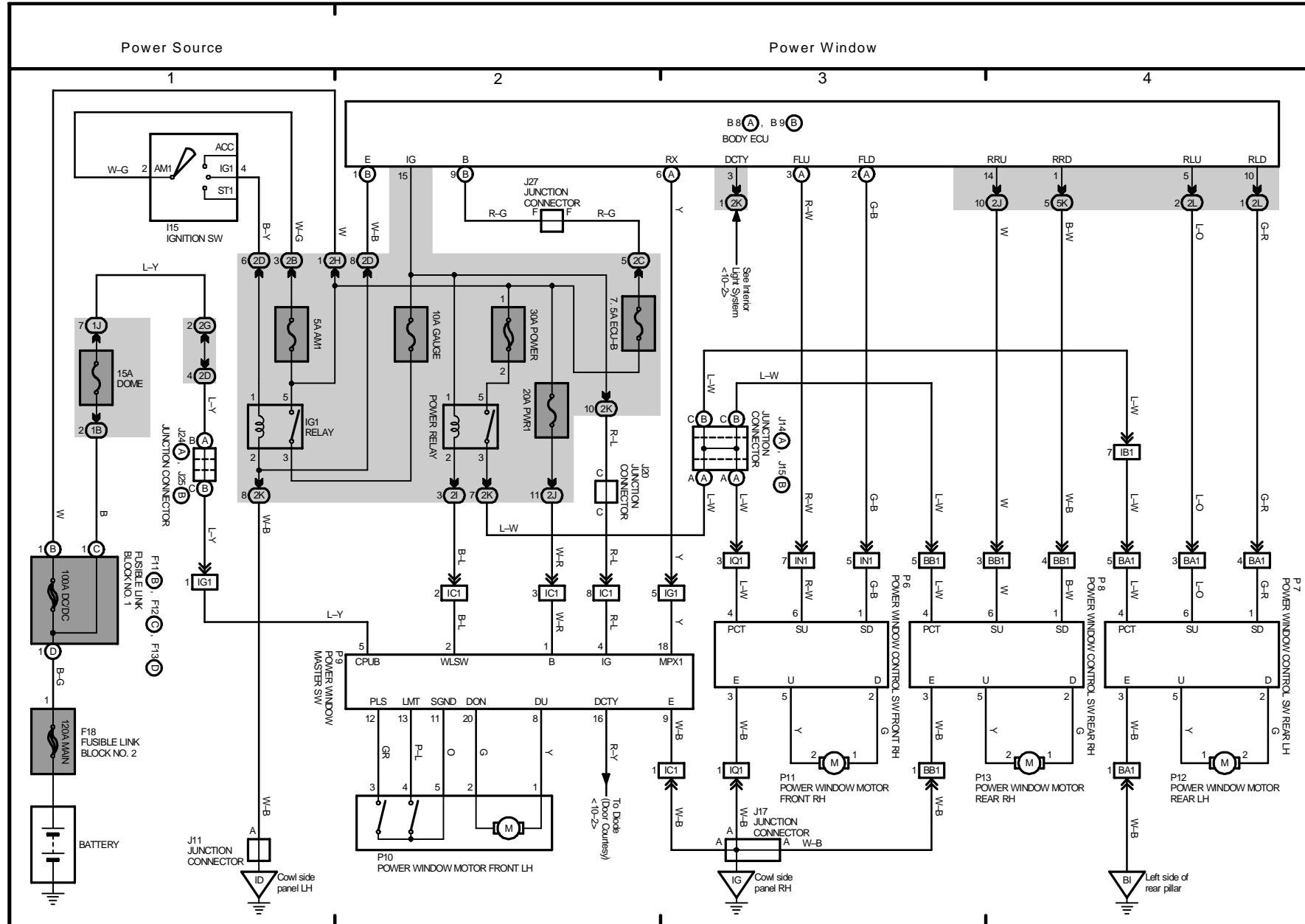
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M OVERALL ELECTRICAL WIRING DIAGRAM

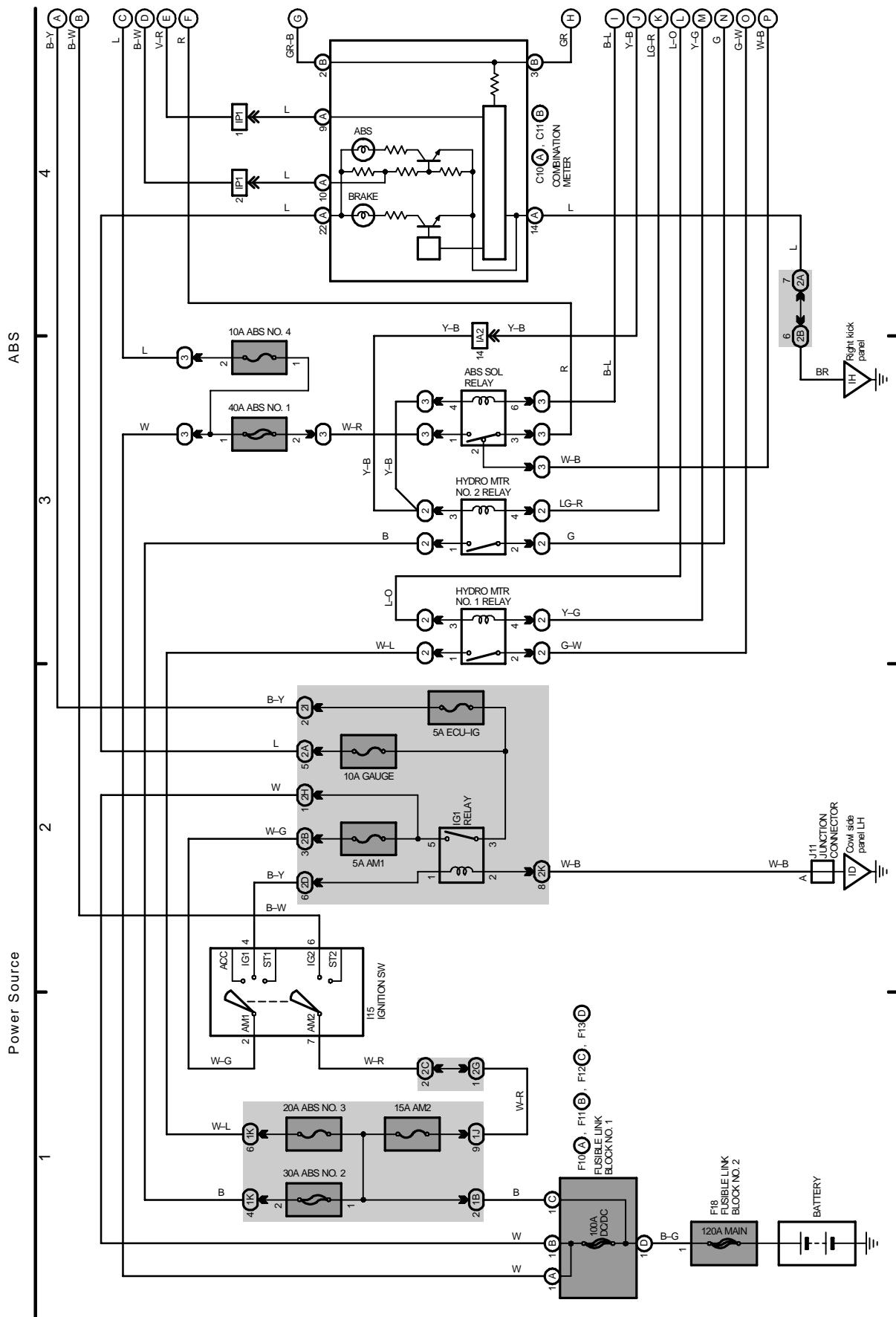


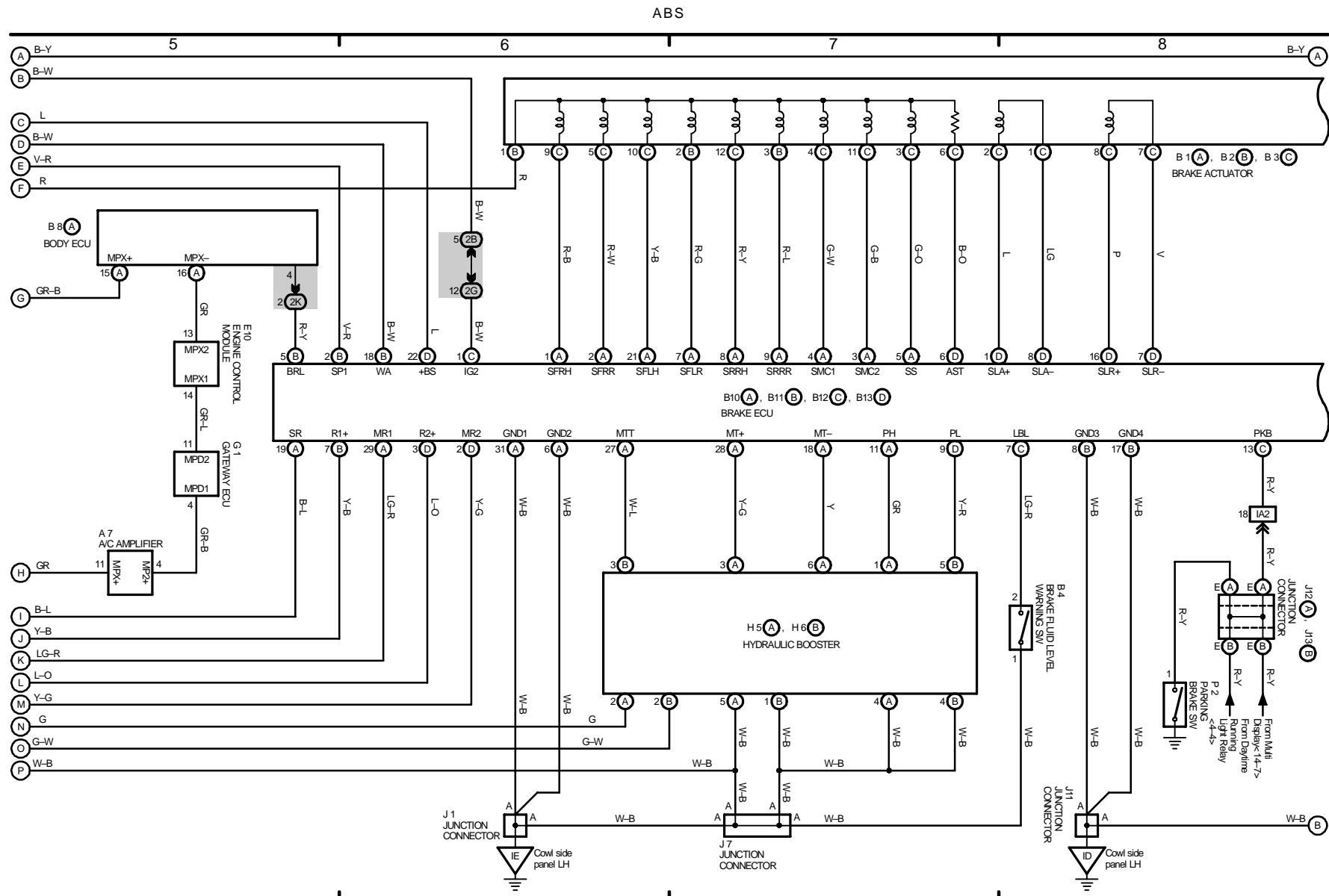


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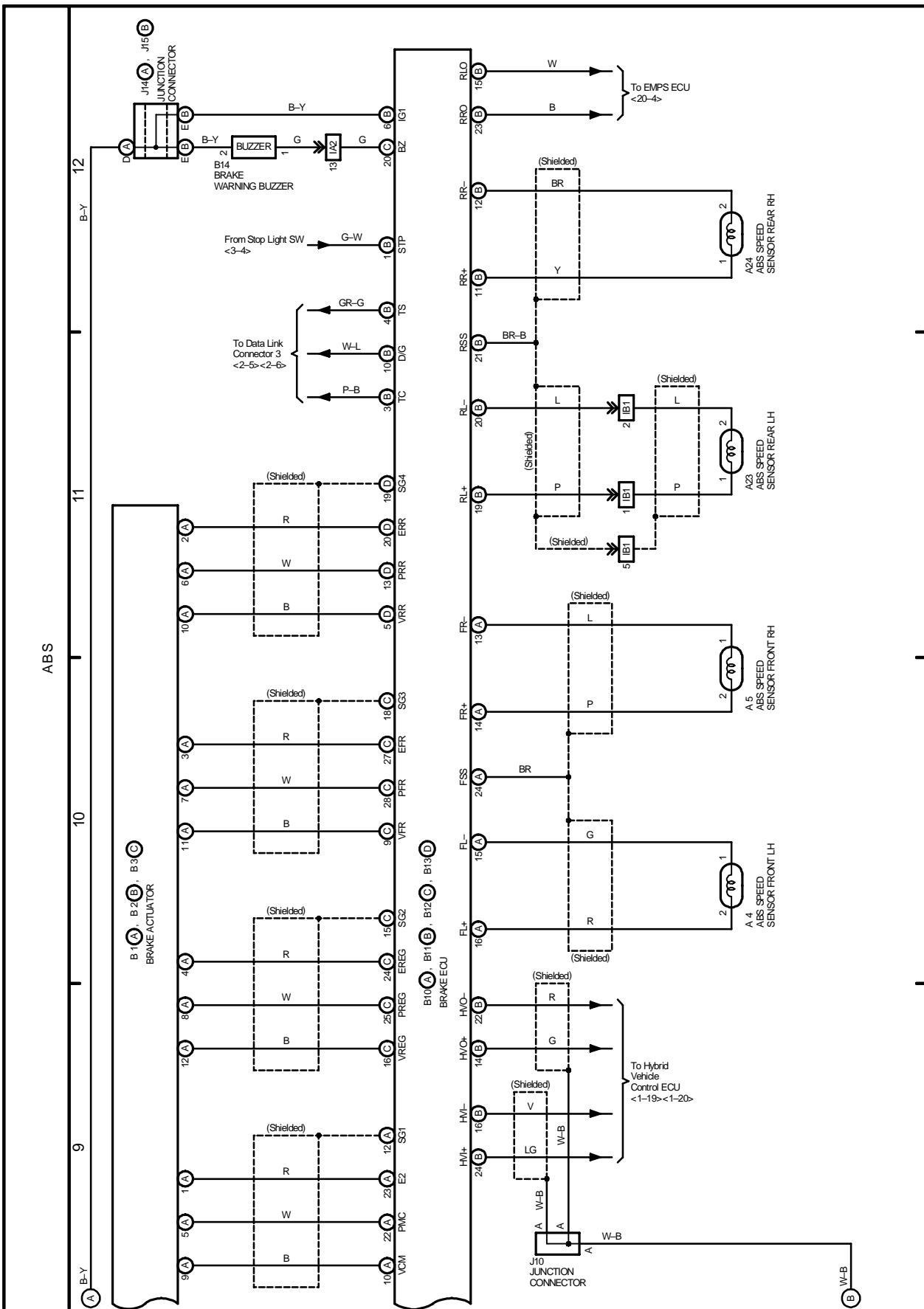
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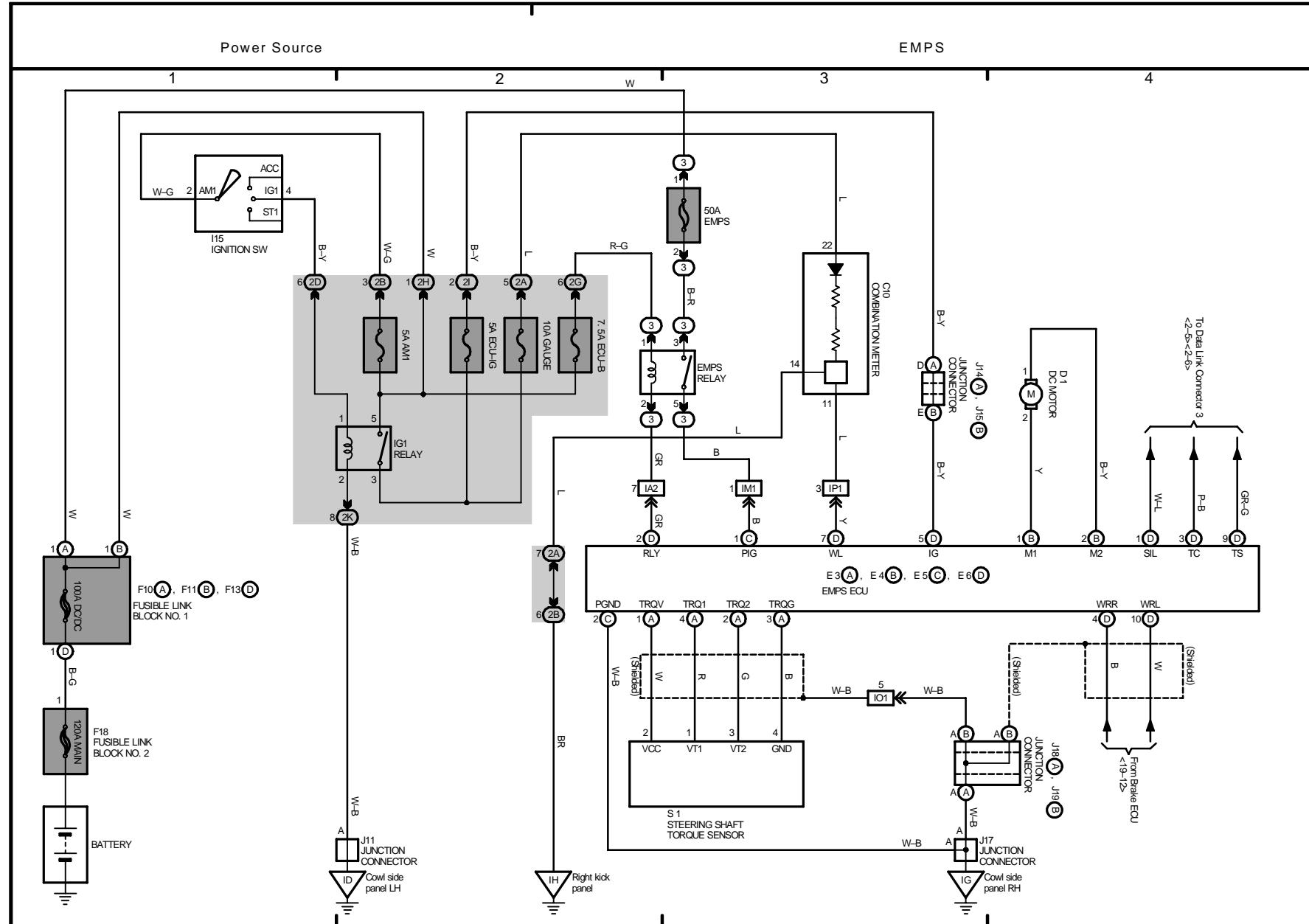




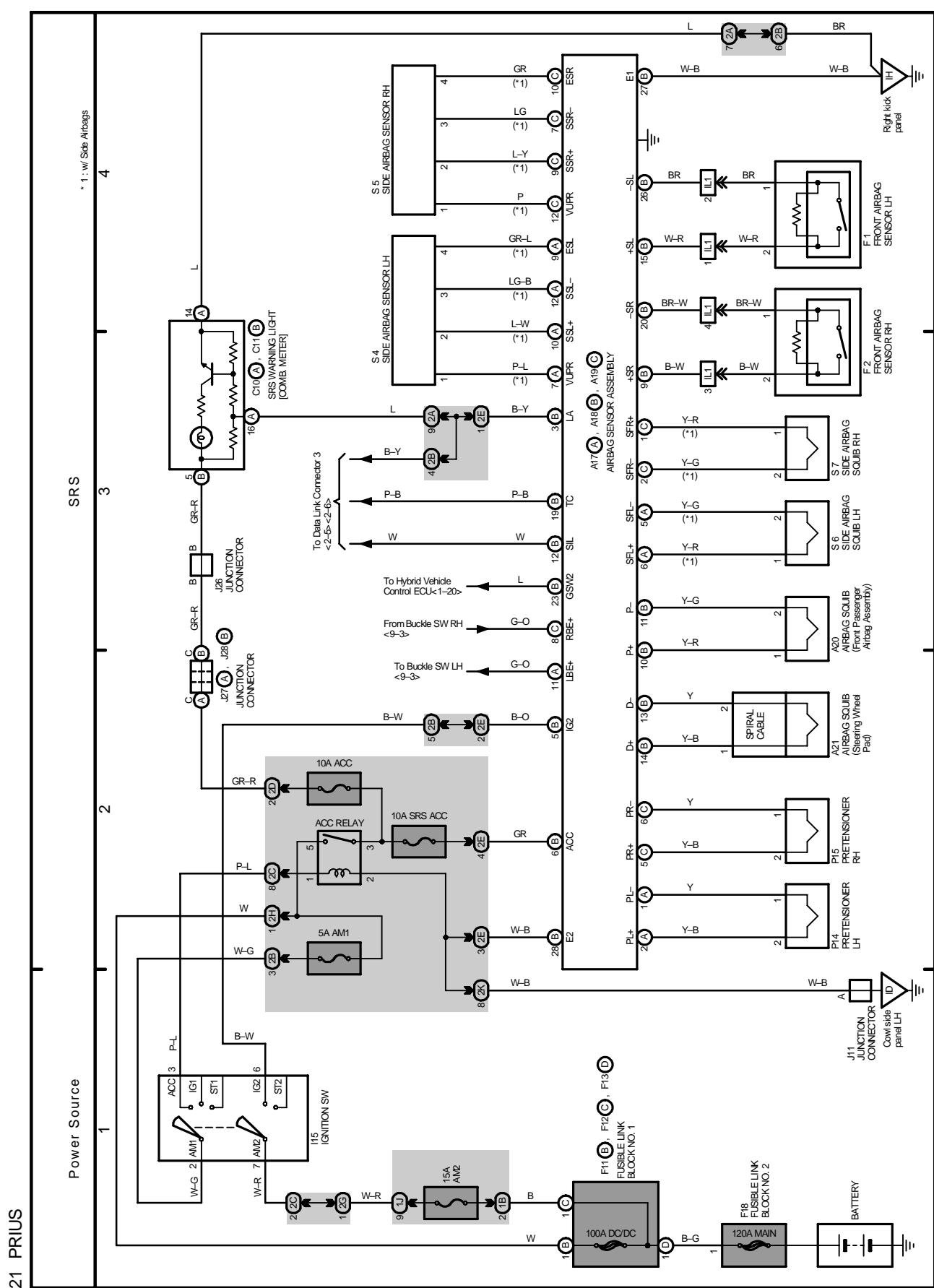
M OVERALL ELECTRICAL WIRING DIAGRAM

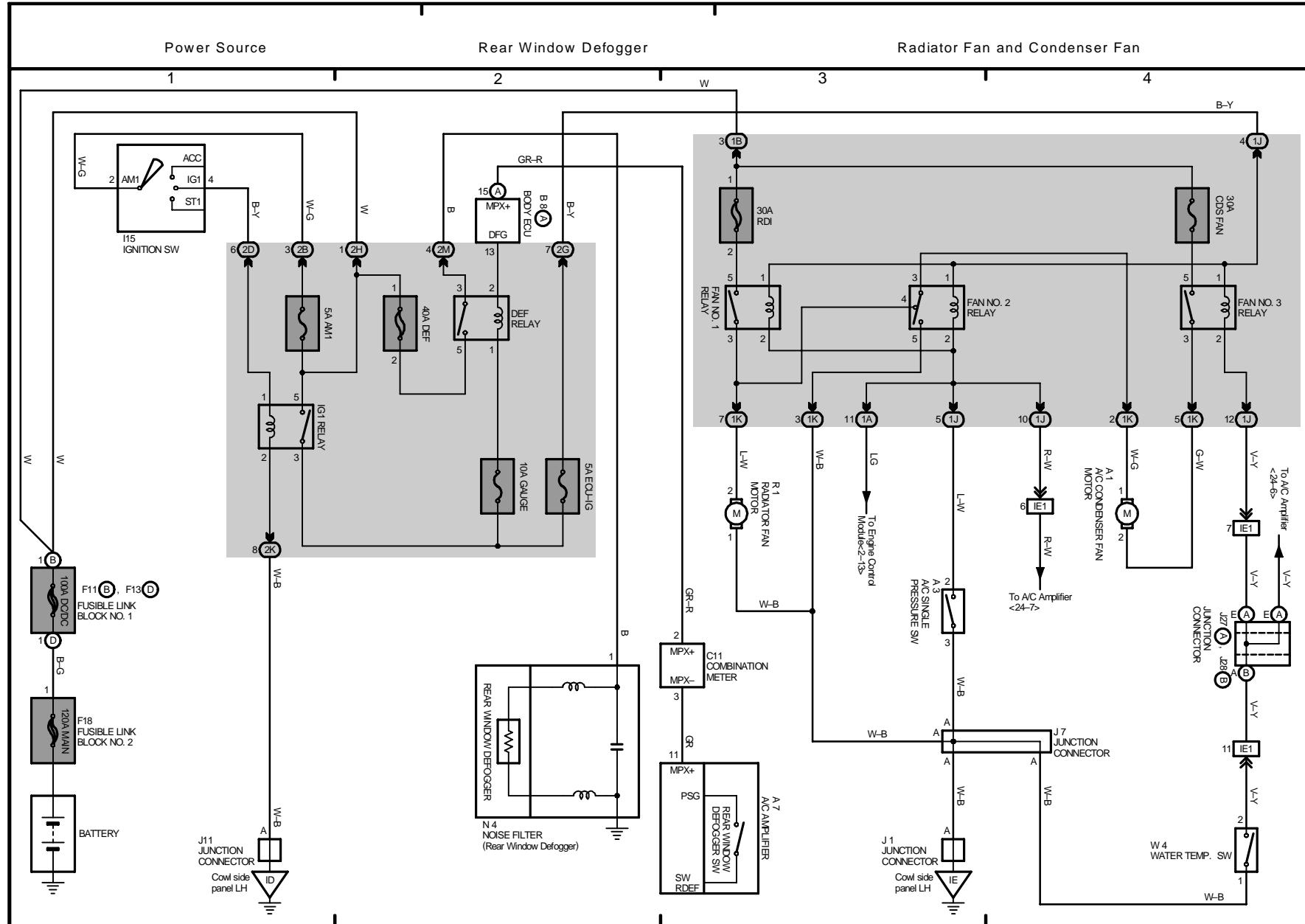
19 PRIUS (Cont'd)





M OVERALL ELECTRICAL WIRING DIAGRAM

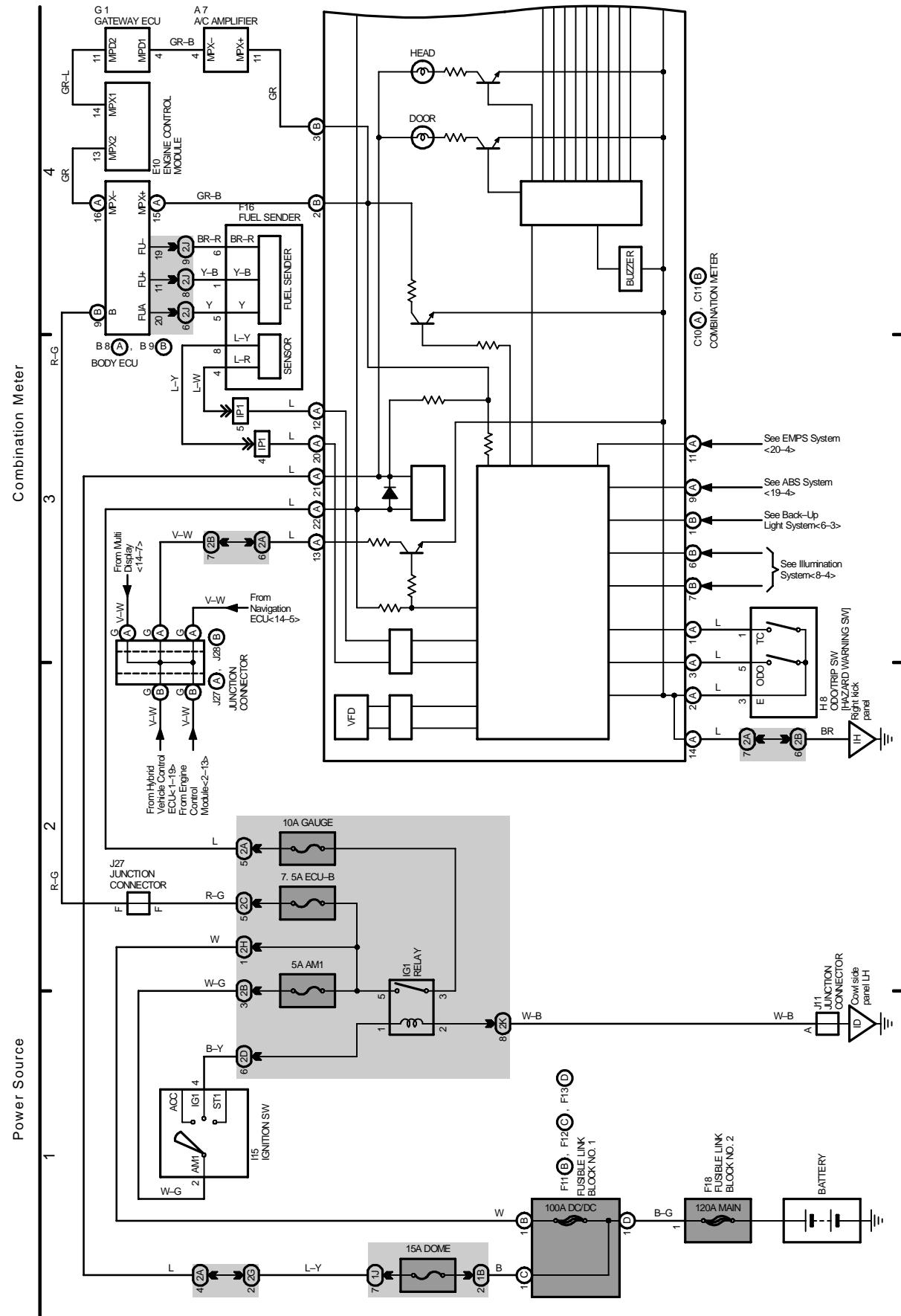




M OVERALL ELECTRICAL WIRING DIAGRAM

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23 PRIUS



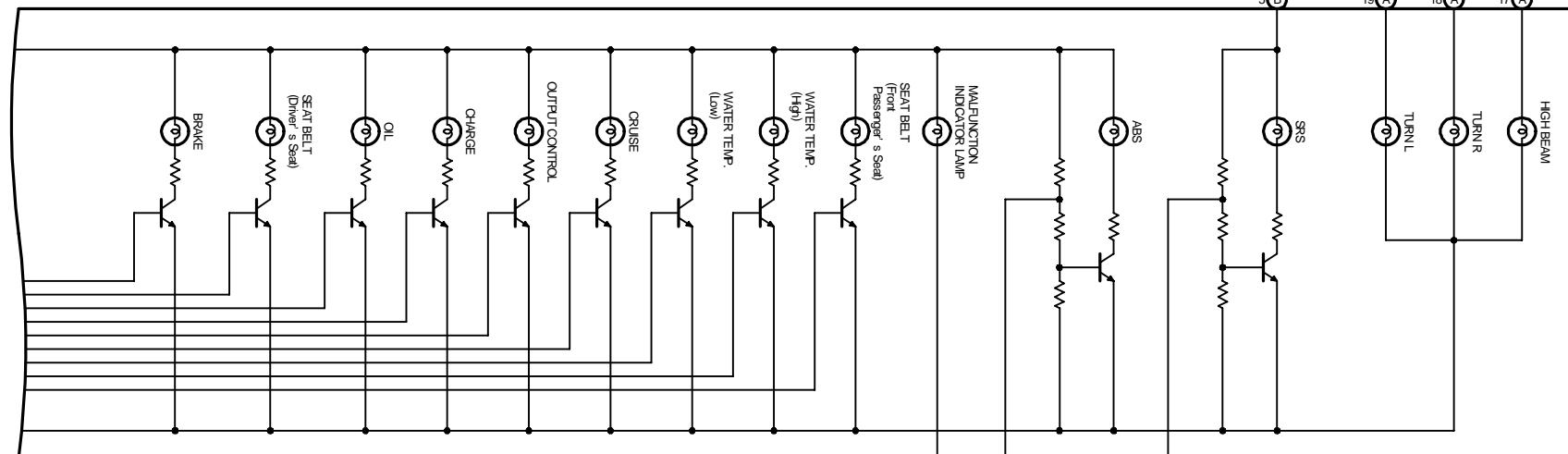
Combination Meter

5

6

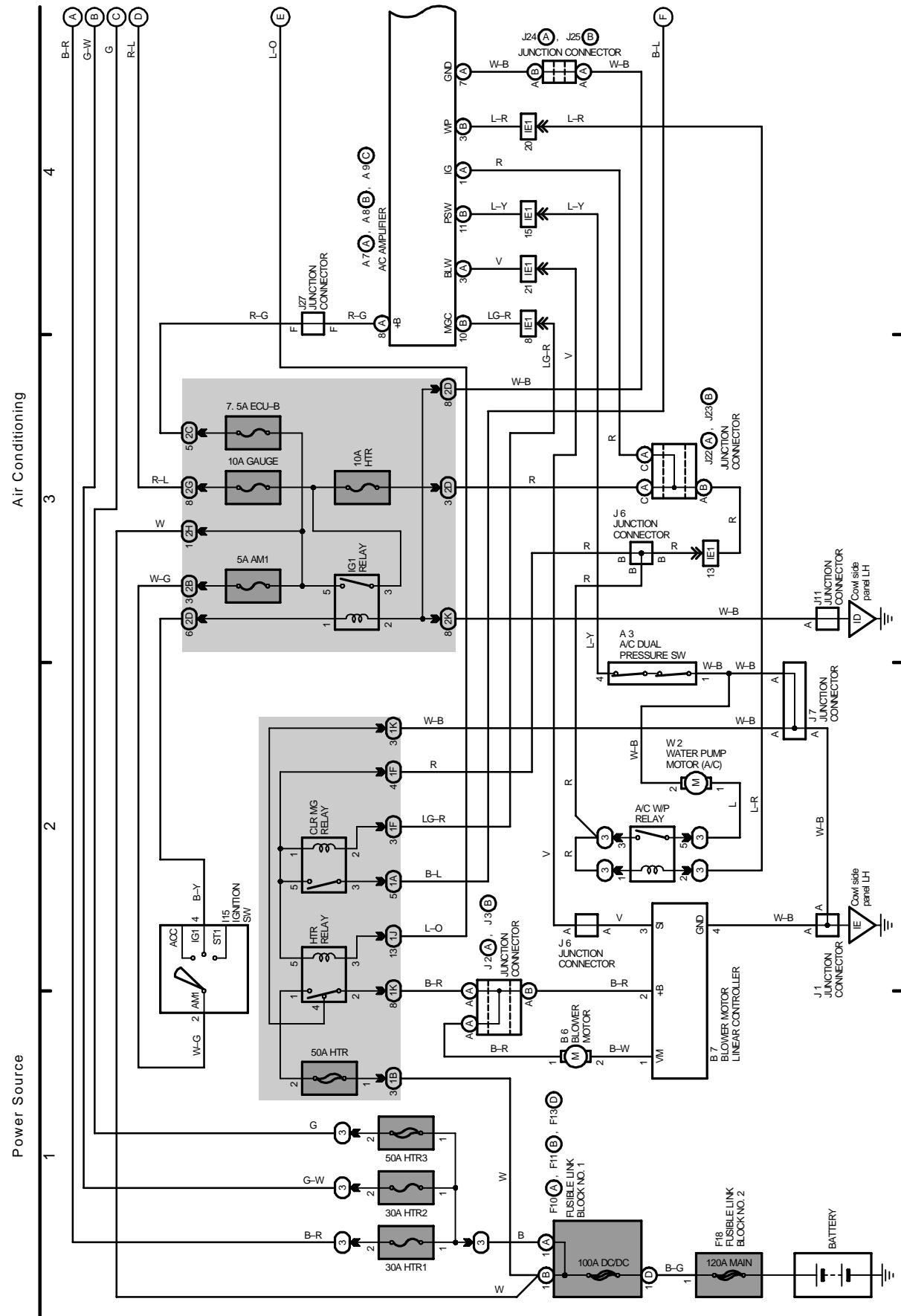
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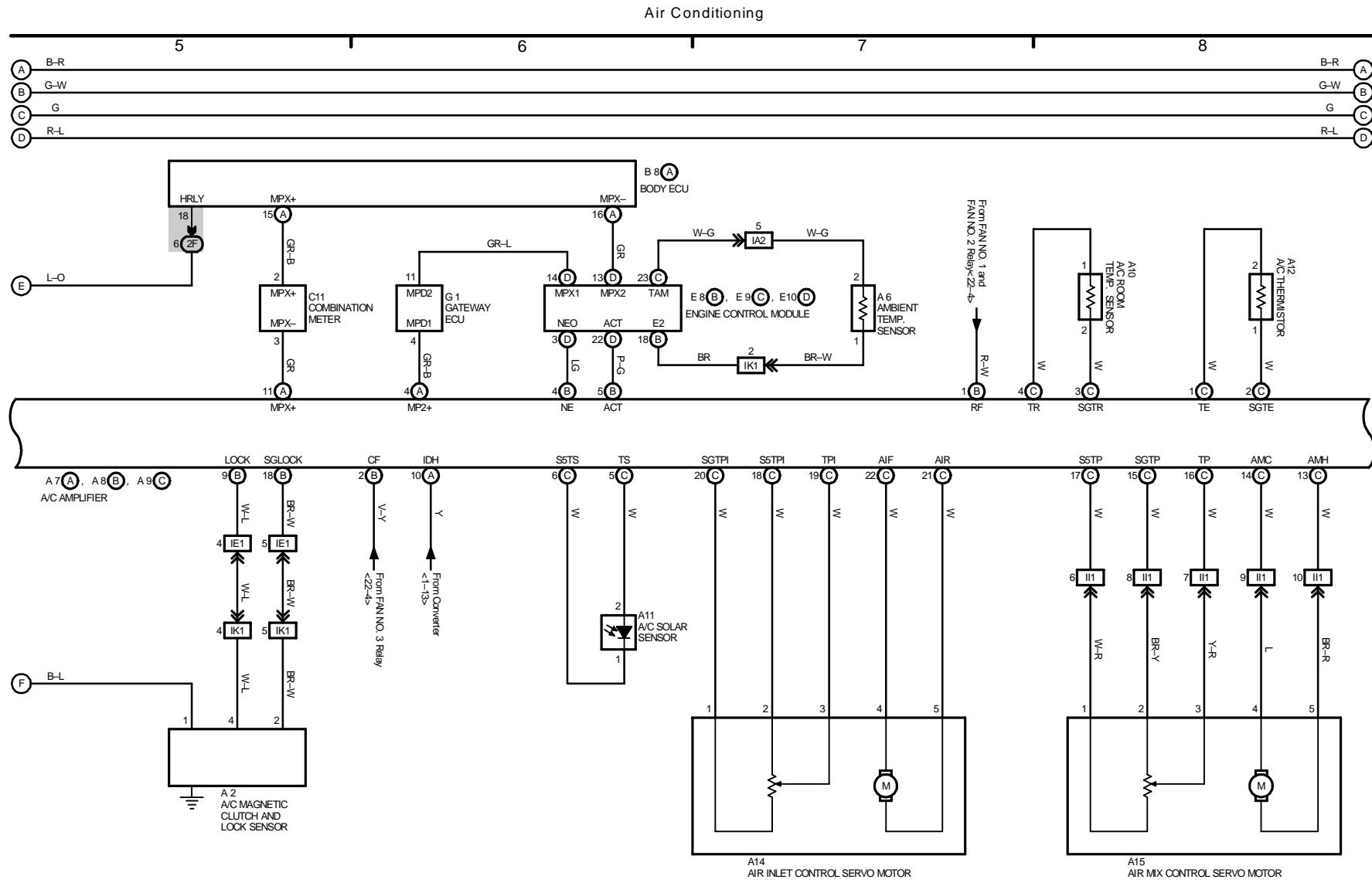
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M OVERALL ELECTRICAL WIRING DIAGRAM

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M OVERALL ELECTRICAL WIRING DIAGRAM

24 PRIUS (Cont'd)

