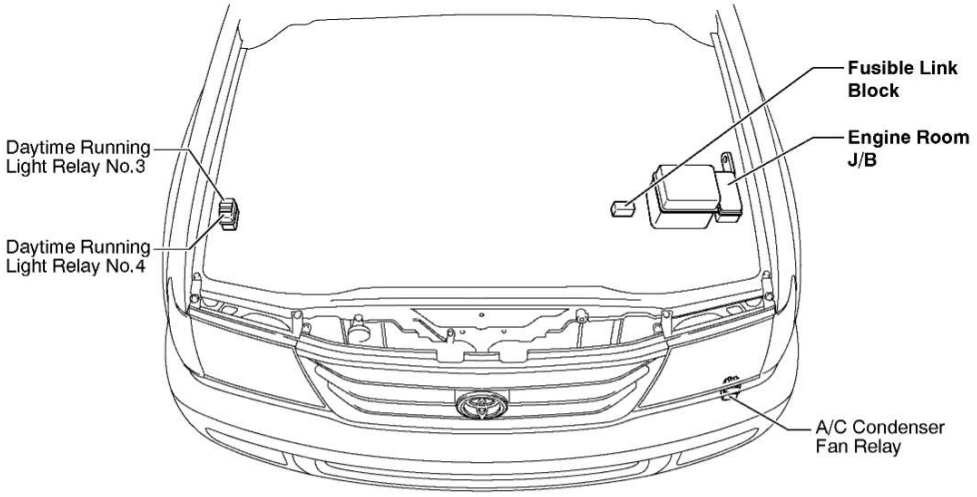
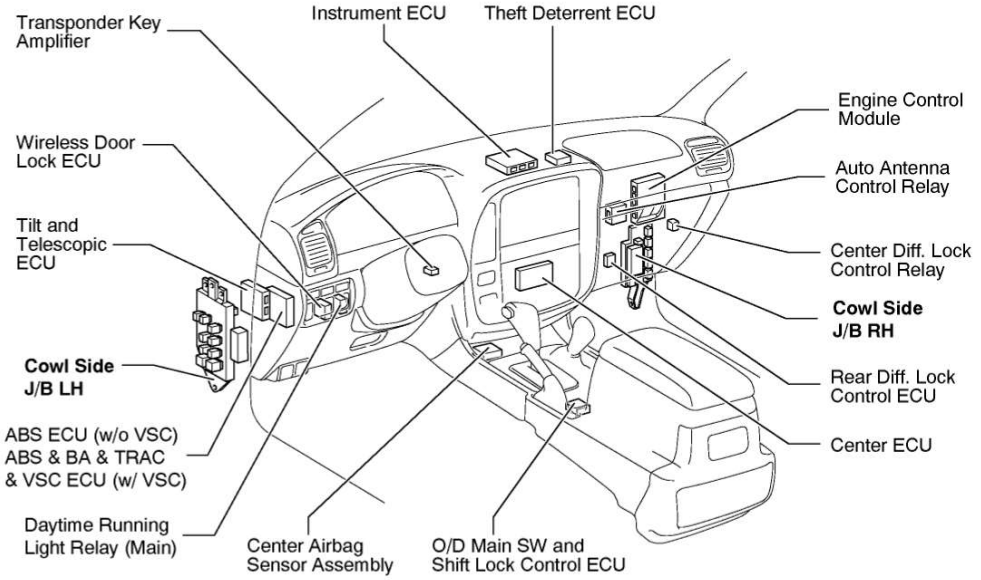
F RELAY LOCATIONS

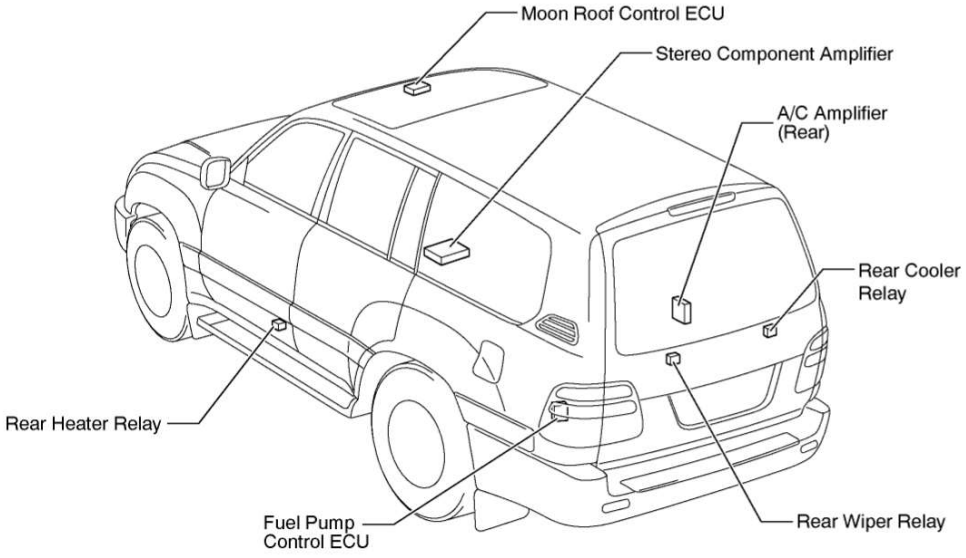
[Engine Compartment]



[Instrument Panel]

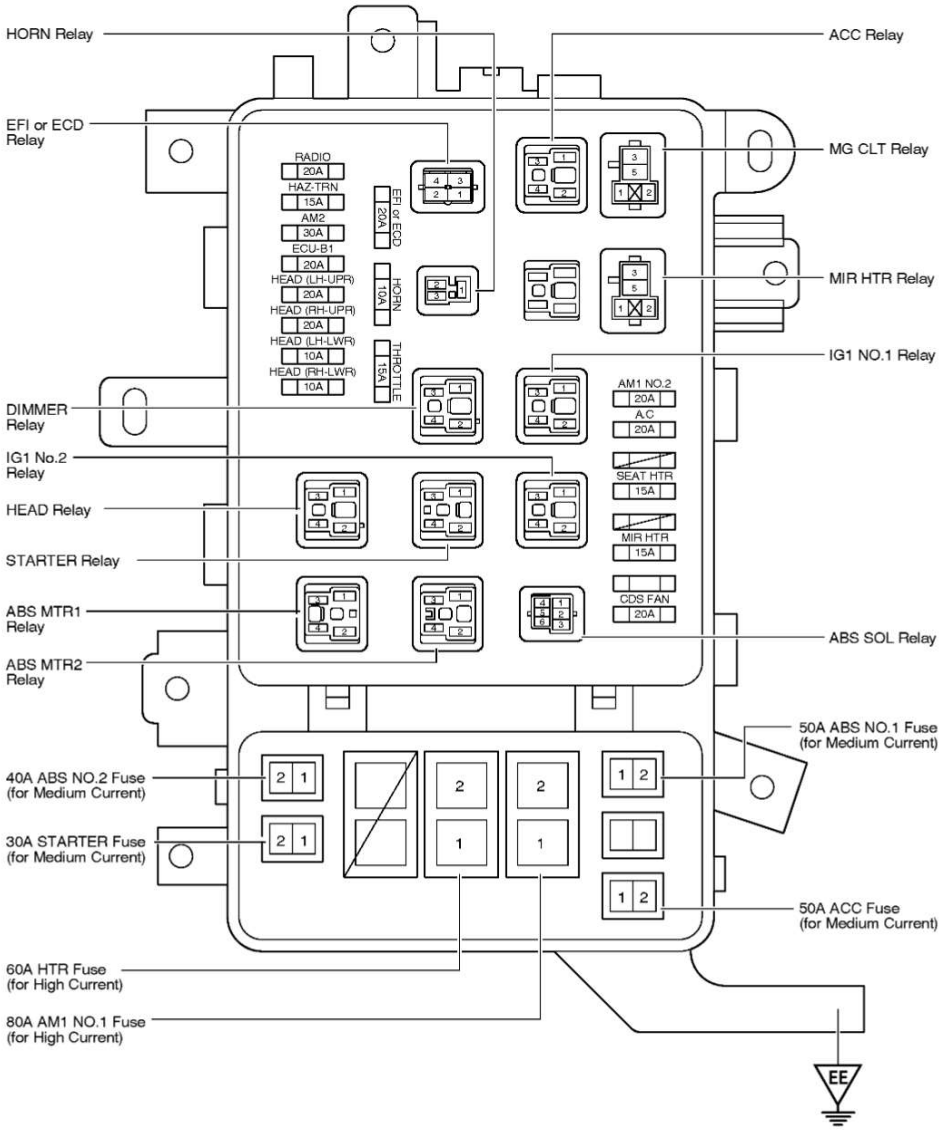


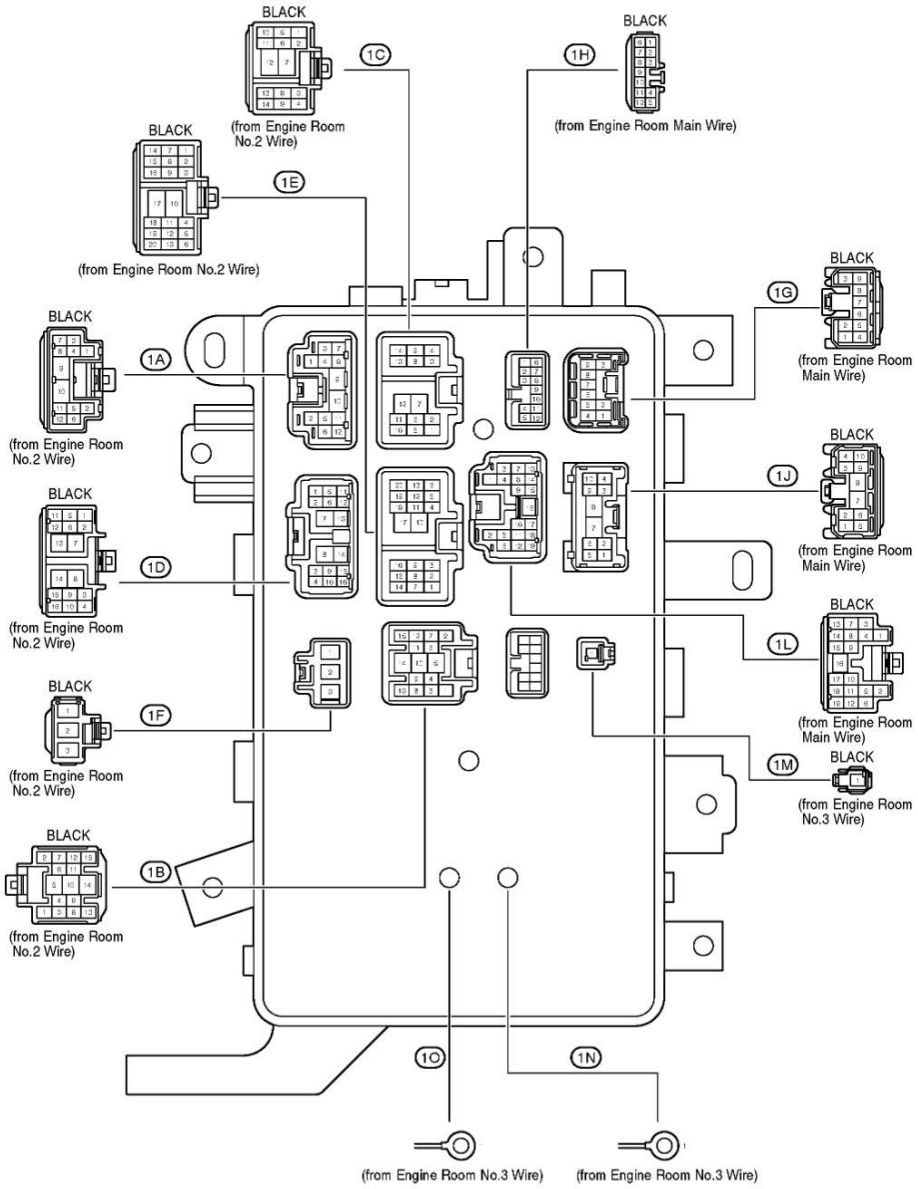
[Body]


Moon Roof Control ECU
Stereo Component Amplifier
A/C Amplifier (Rear)
Rear Cooler Relay
Rear Heater Relay
Fuel Pump Control ECU
Rear Wiper Relay

F RELAY LOCATIONS

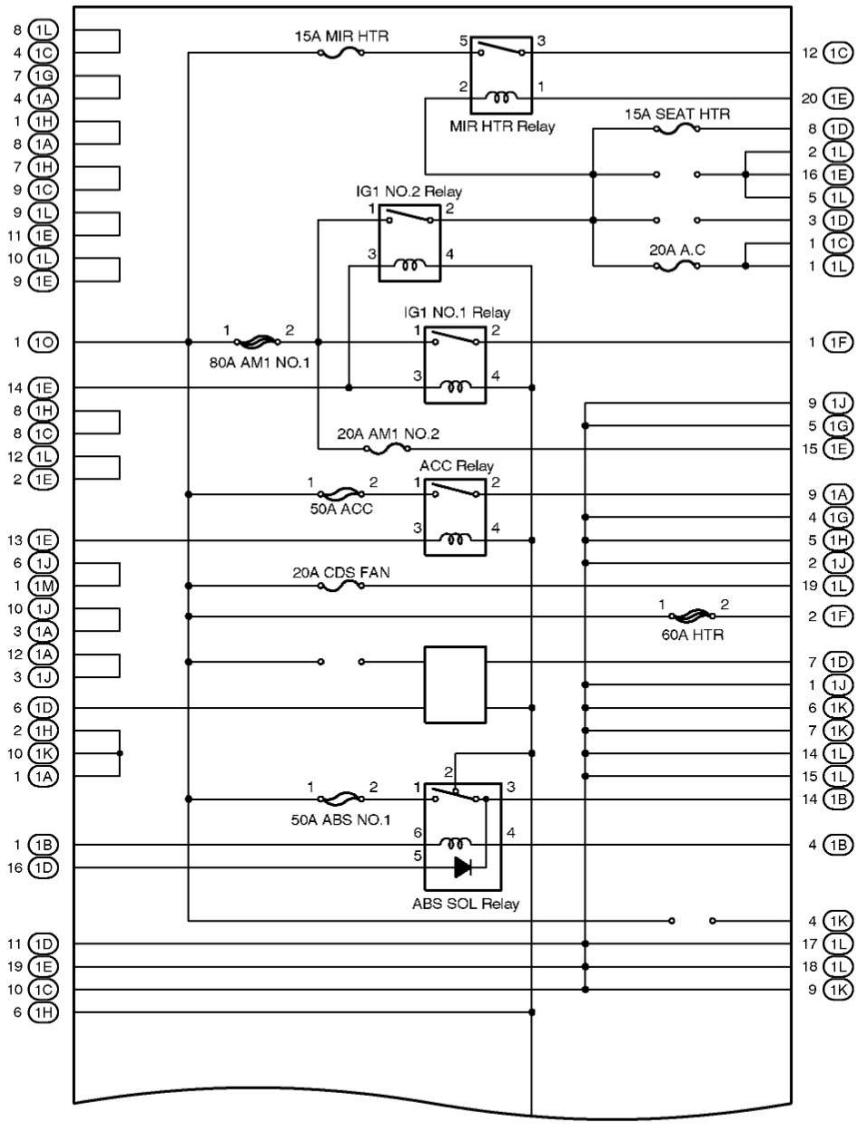
: Engine Room J/B	Engine Compartment Left (See Page 20)




BLACK
1C
(from Engine Room No.2 Wire)
BLACK
1H
(from Engine Room Main Wire)
BLACK
1E
(from Engine Room No.2 Wire)
BLACK
1G
(from Engine Room Main Wire)
BLACK
1A
(from Engine Room No.2 Wire)
BLACK
1J
(from Engine Room Main Wire)
BLACK
1D
(from Engine Room No.2 Wire)
BLACK
1L
(from Engine Room Main Wire)
BLACK
1F
(from Engine Room No.2 Wire)
BLACK
1M
(from Engine Room No.3 Wire)
BLACK
1B
(from Engine Room No.2 Wire)
1O
1N
(from Engine Room No.3 Wire)
(from Engine Room No.3 Wire)

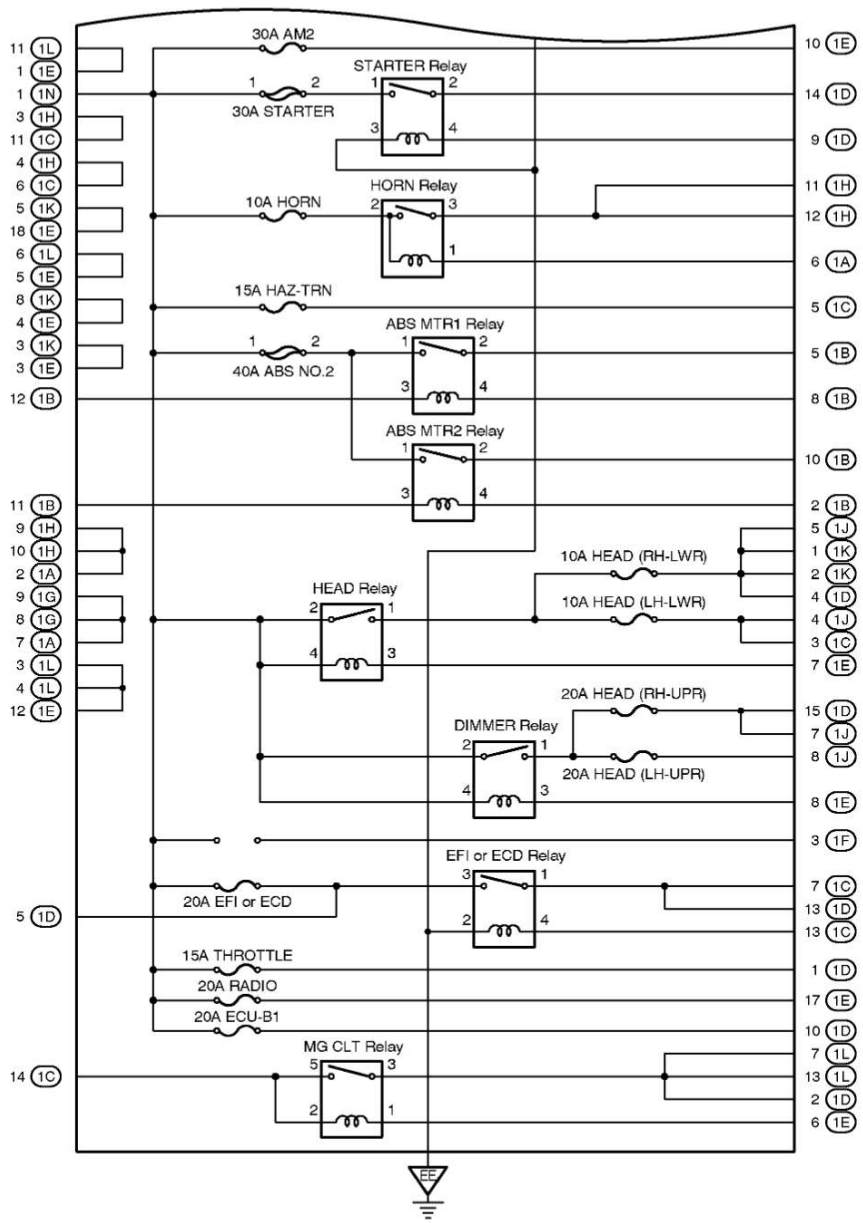
F RELAY LOCATIONS

[Engine Room J/B Inner Circuit]



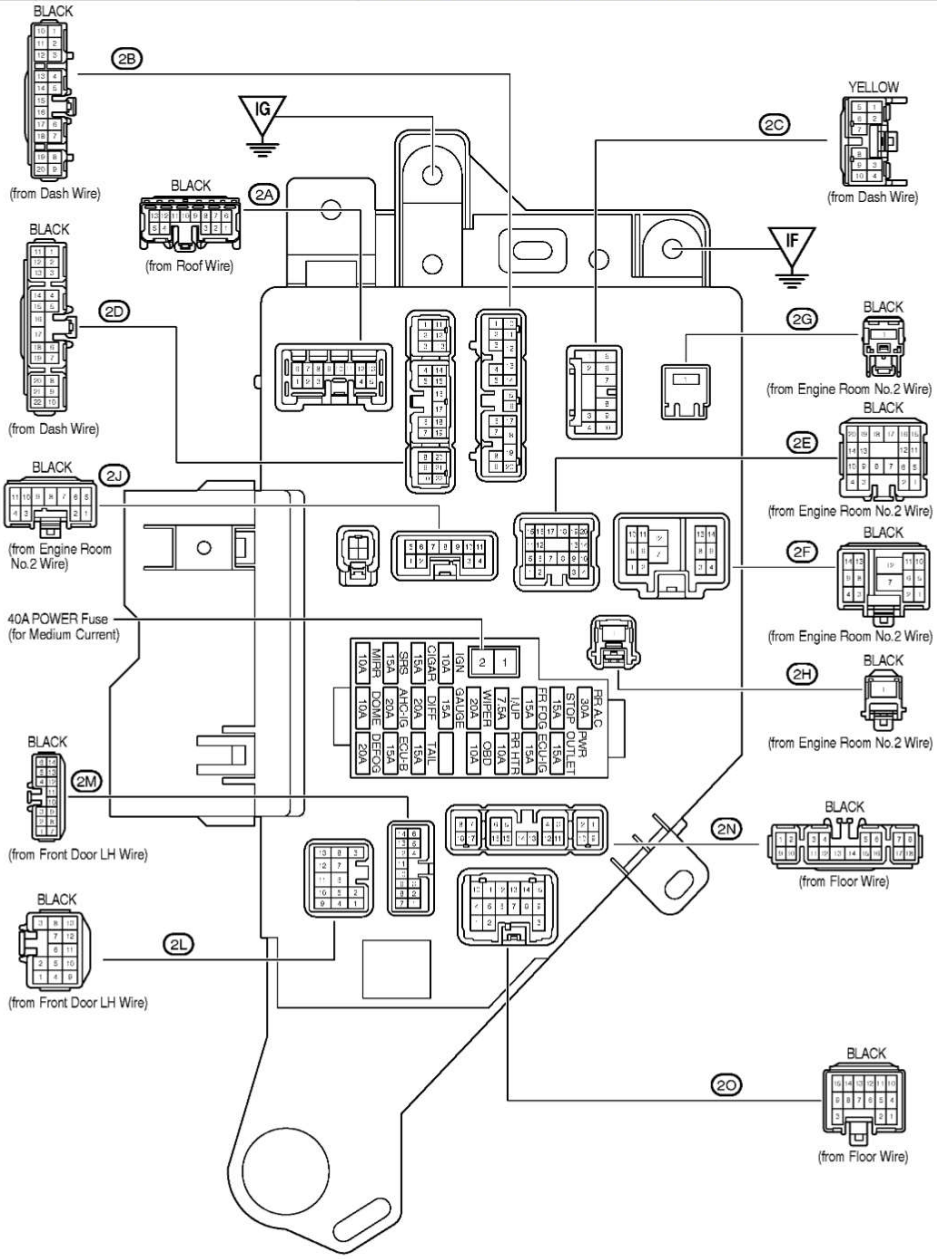
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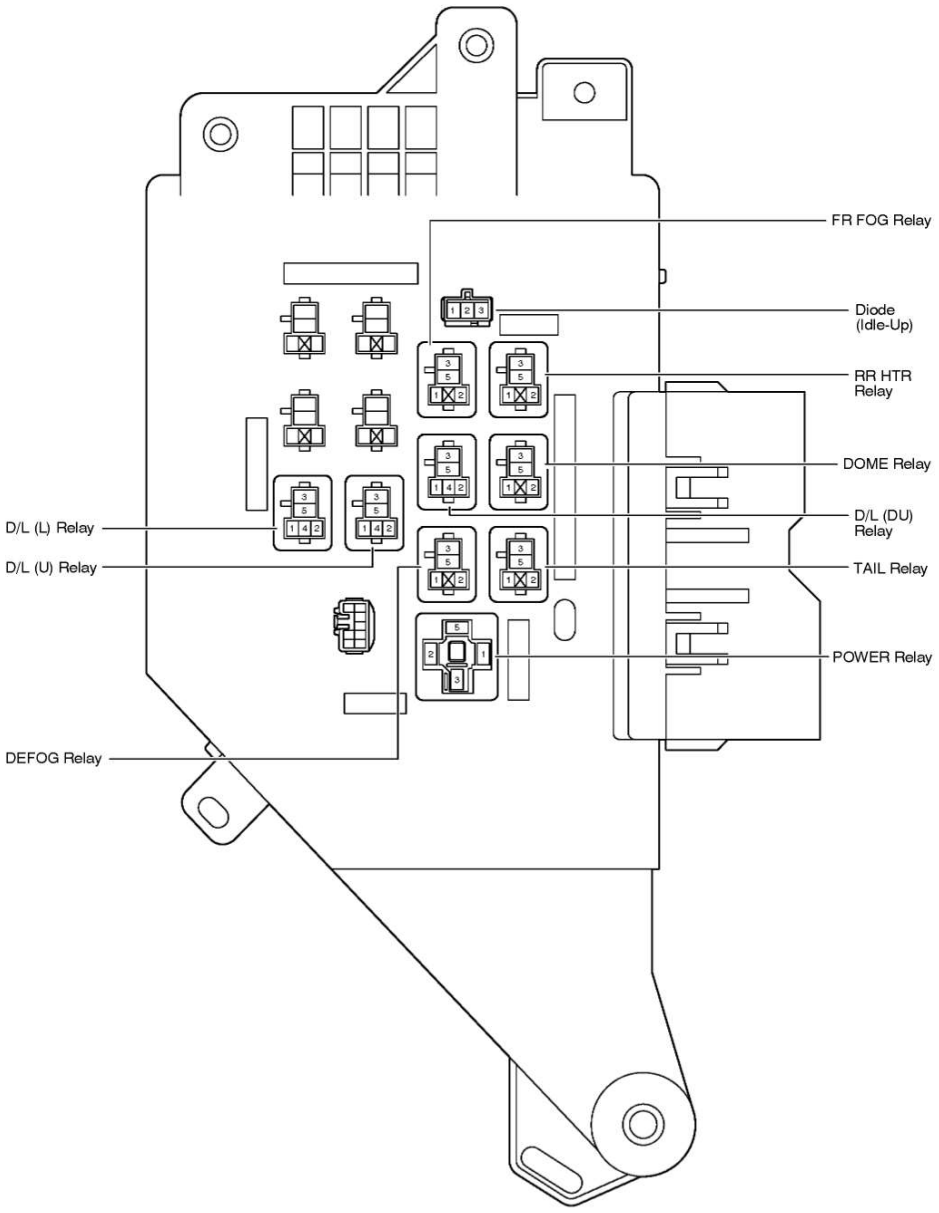
Cont'd


30A AM2
STARTER Relay
30A STARTER
HORN Relay
10A HORN
15A HAZ-TRN
ABS MTR1 Relay
40A ABS NO.2
ABS MTR2 Relay
10A HEAD (RH-LWR)
10A HEAD (LH-LWR)
HEAD Relay
20A HEAD (RH-UPR)
DIMMER Relay
20A HEAD (LH-UPR)
EFI or ECD Relay
20A EFI or ECD
15A THROTTLE
20A RADIO
20A ECU-B1
MG CLT Relay
E5

F RELAY LOCATIONS

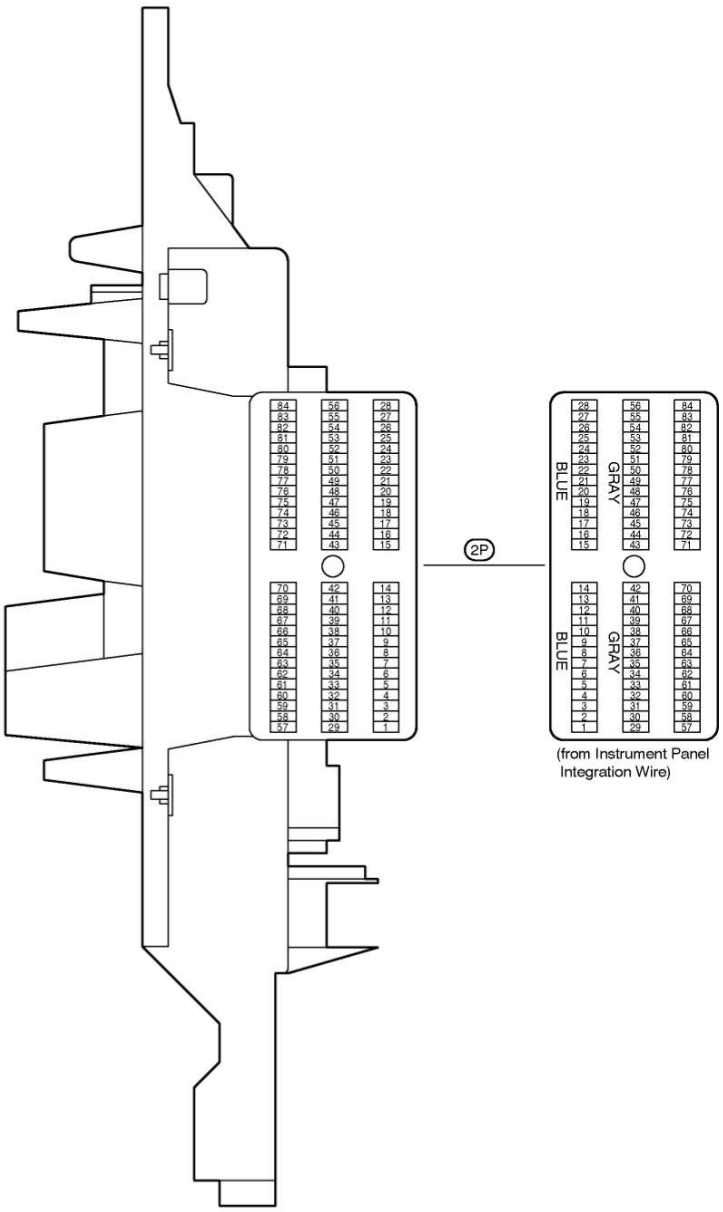
: Cowl Side J/B LH	Left Kick Panel (See Page 20)



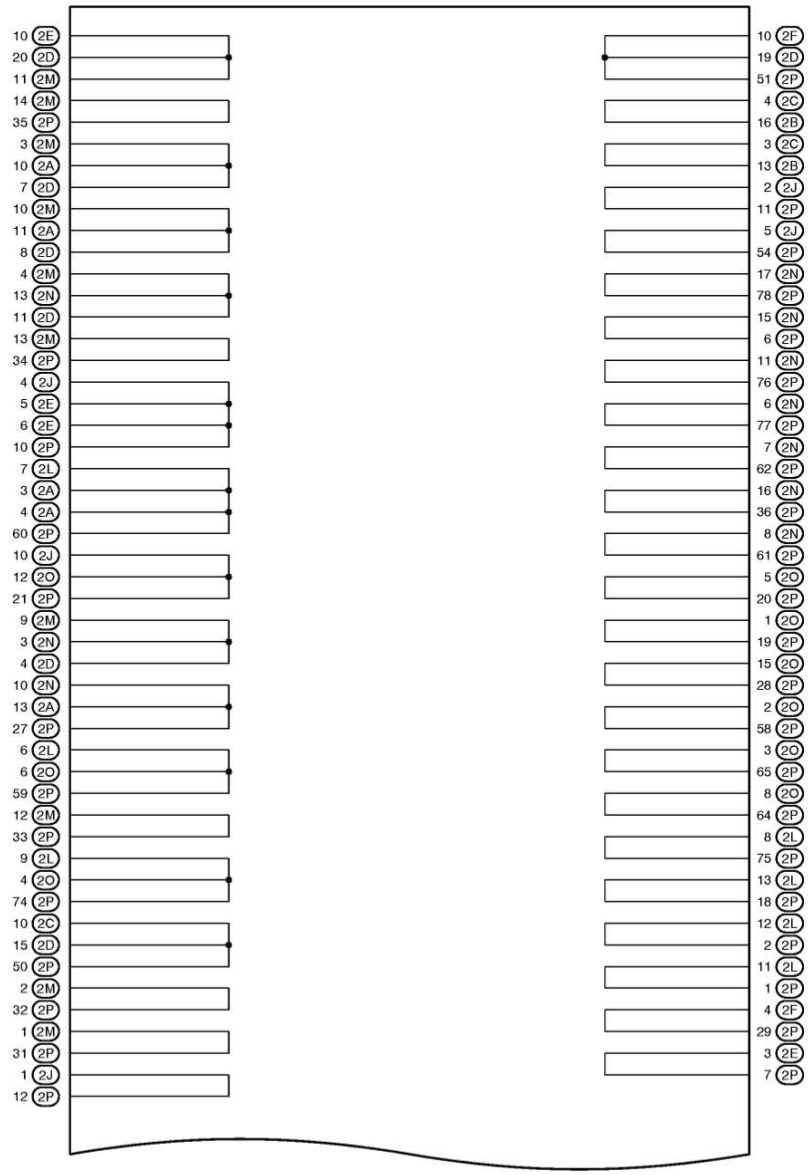

FR FOG Relay
Diode
(Idle-Up)
RR HTR
Relay
DOME Relay
D/L (DU)
Relay
TAIL Relay
POWER Relay
D/L (L) Relay
D/L (U) Relay
DEFOG Relay

F RELAY LOCATIONS

[redacted] : Cowl Side J/B LH	Left Kick Panel (See Page 20)

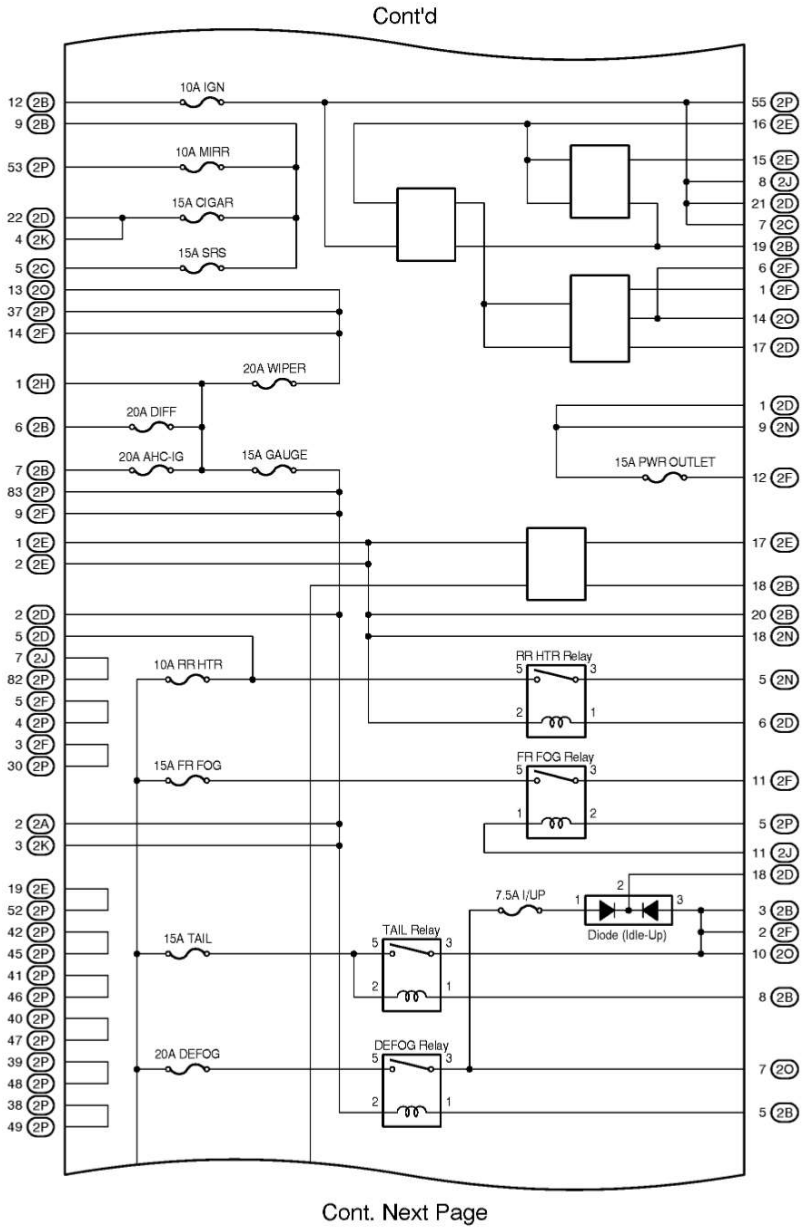


[Cowl Side J/B LH Inner Circuit]

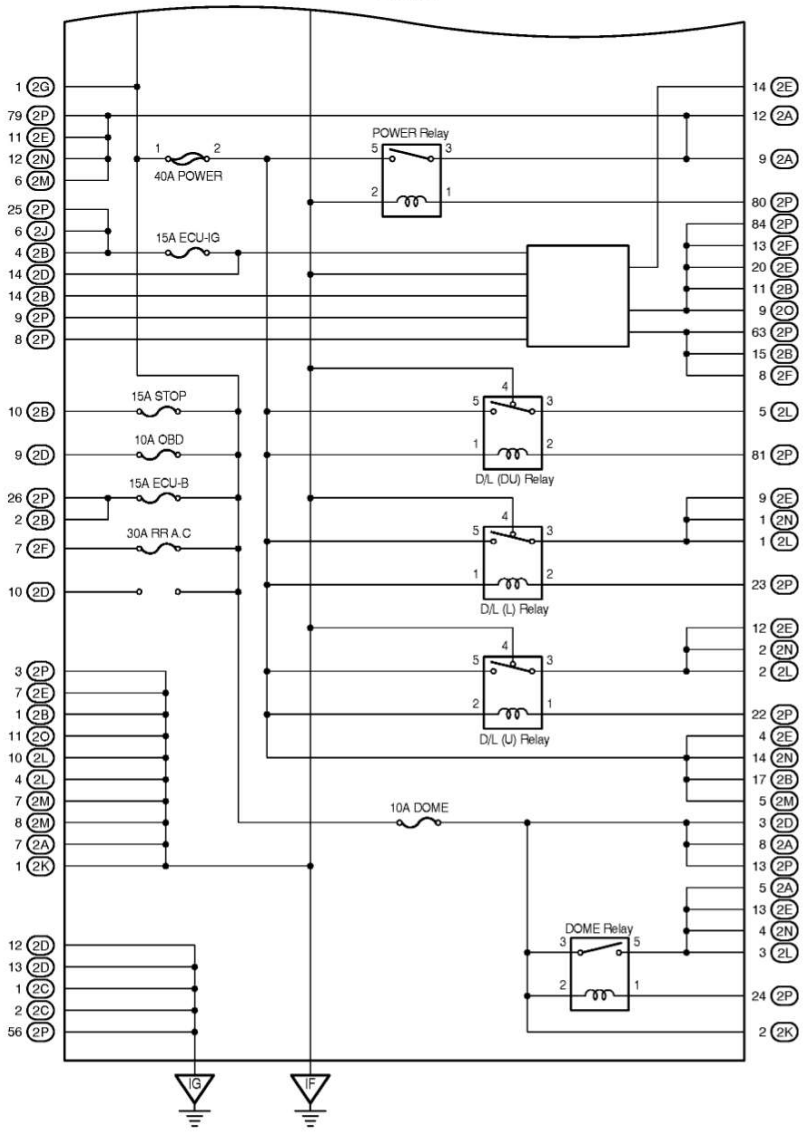


Cont. Next Page

[Cowl Side J/B LH Inner Circuit]

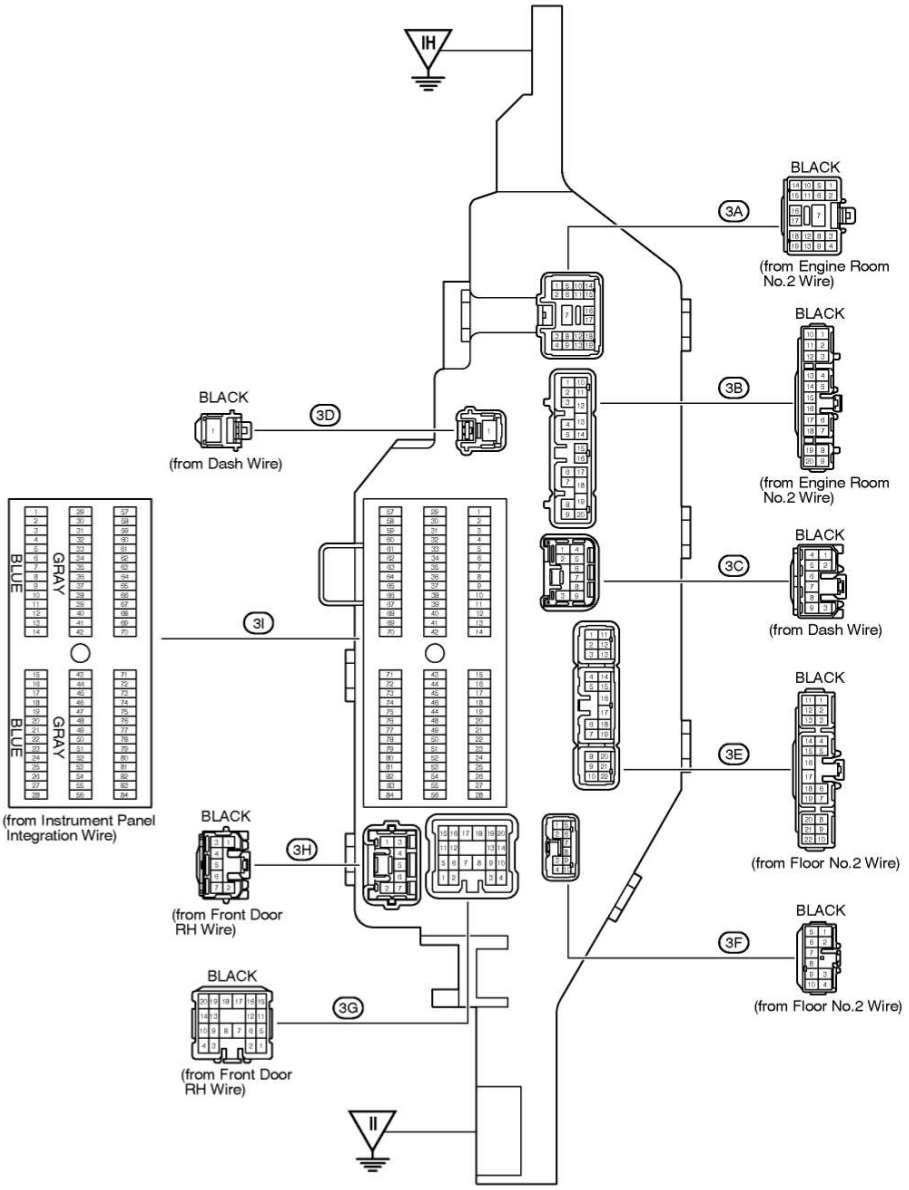


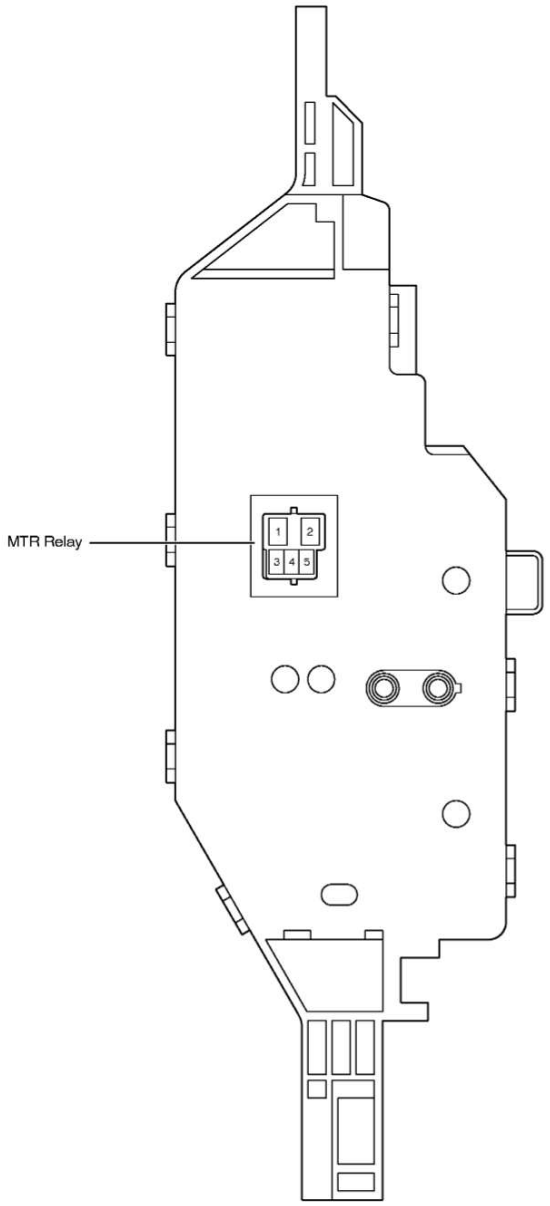
Cont'd


1 2G
79 2P
11 2E
12 2N
6 2M
25 2P
6 2J
4 2B
14 2D
14 2B
9 2P
8 2P
10 2B
9 2D
26 2P
2 2B
7 2F
10 2D
3 2P
7 2E
1 2B
11 2O
10 2L
4 2L
7 2M
8 2M
7 2A
1 2K
12 2D
13 2D
1 2C
2 2C
56 2P
40A POWER
15A ECU-IG
15A STOP
10A OBD
15A ECU-B
30A RR A.C
POWER Relay
D/L (DU) Relay
D/L (L) Relay
D/L (U) Relay
10A DOME
DOME Relay
IG
IF
14 2E
12 2A
9 2A
80 2P
84 2P
13 2F
20 2E
11 2B
9 2O
63 2P
15 2B
8 2F
5 2L
81 2P
9 2E
1 2N
1 2L
23 2P
12 2E
2 2N
2 2L
22 2P
4 2E
14 2N
17 2B
5 2M
3 2D
8 2A
13 2P
5 2A
13 2E
4 2N
3 2L
24 2P
2 2K

F RELAY LOCATIONS

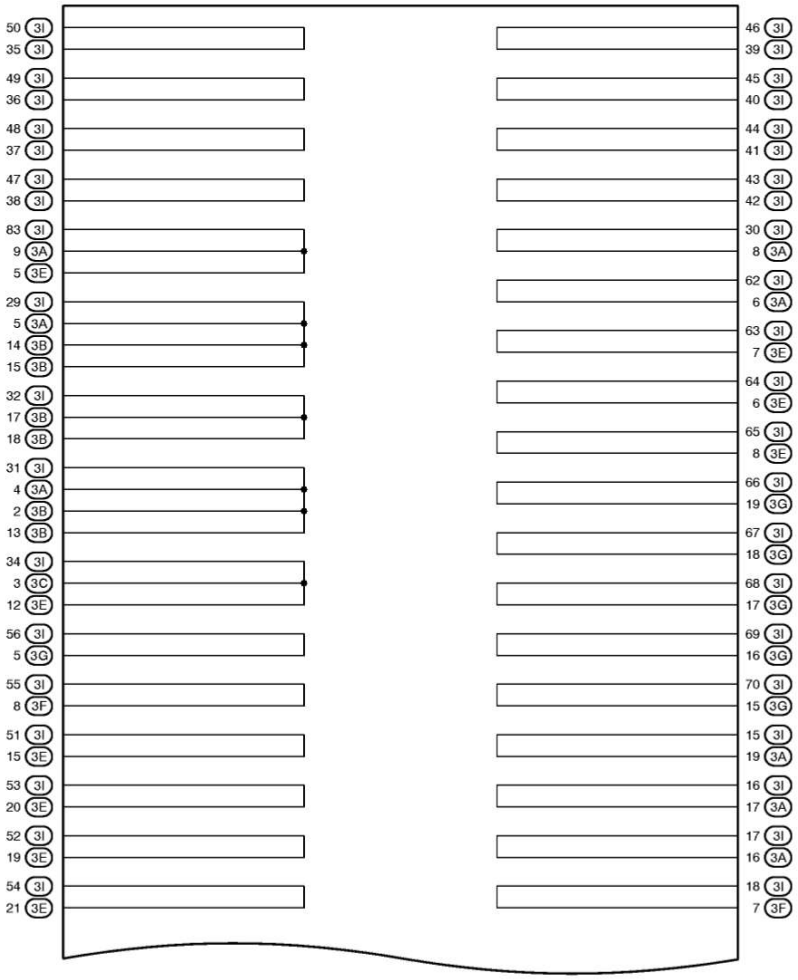
[redacted] : Cowl Side J/B RH	Right Kick Panel (See Page 20)



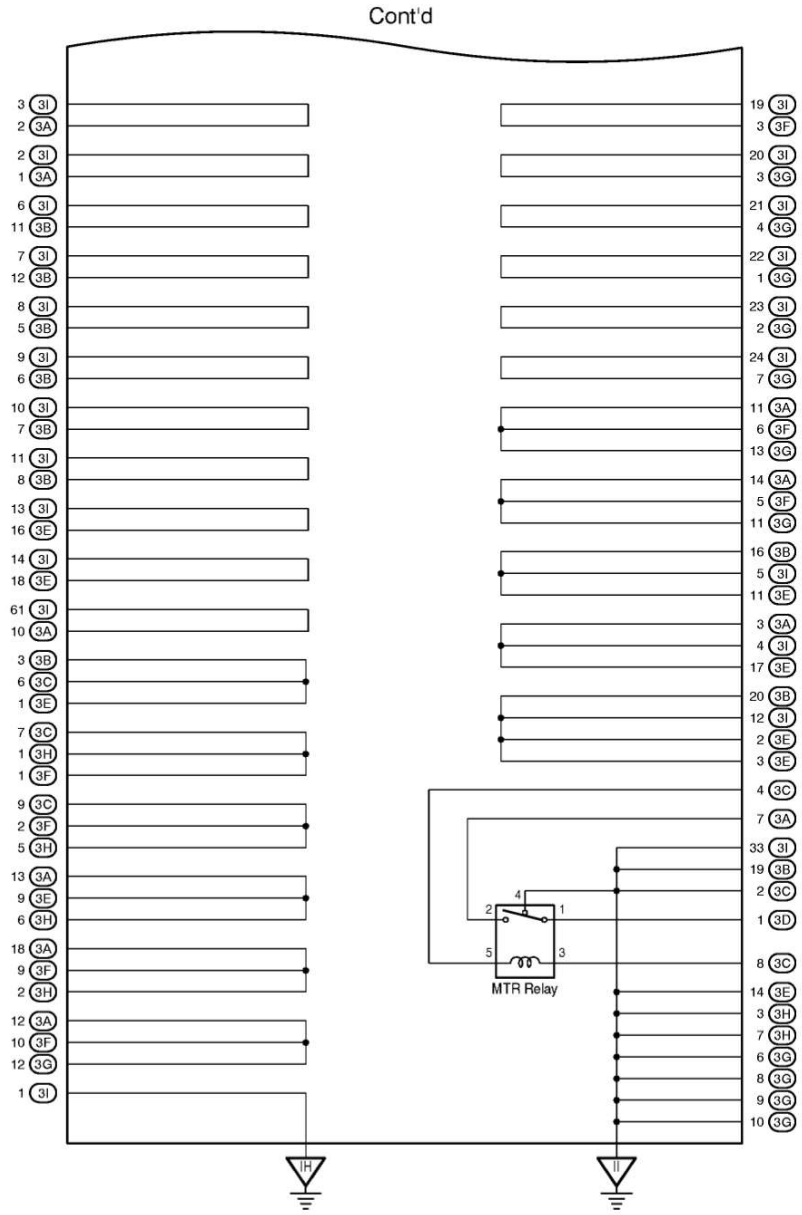

MTR Relay
1
2
3
4
5

F RELAY LOCATIONS

[Cowl Side J/B RH Inner Circuit]

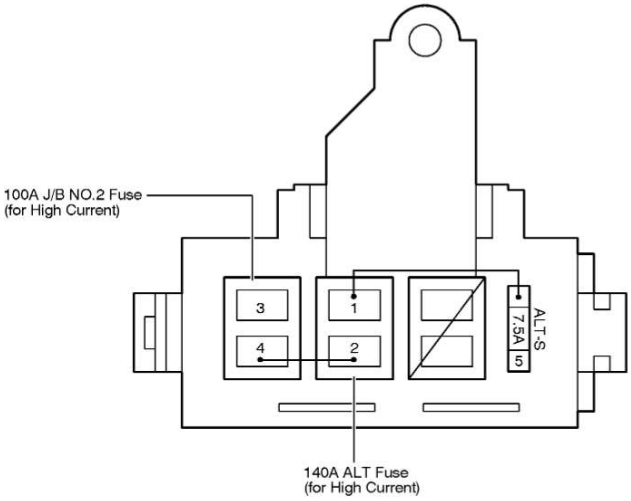


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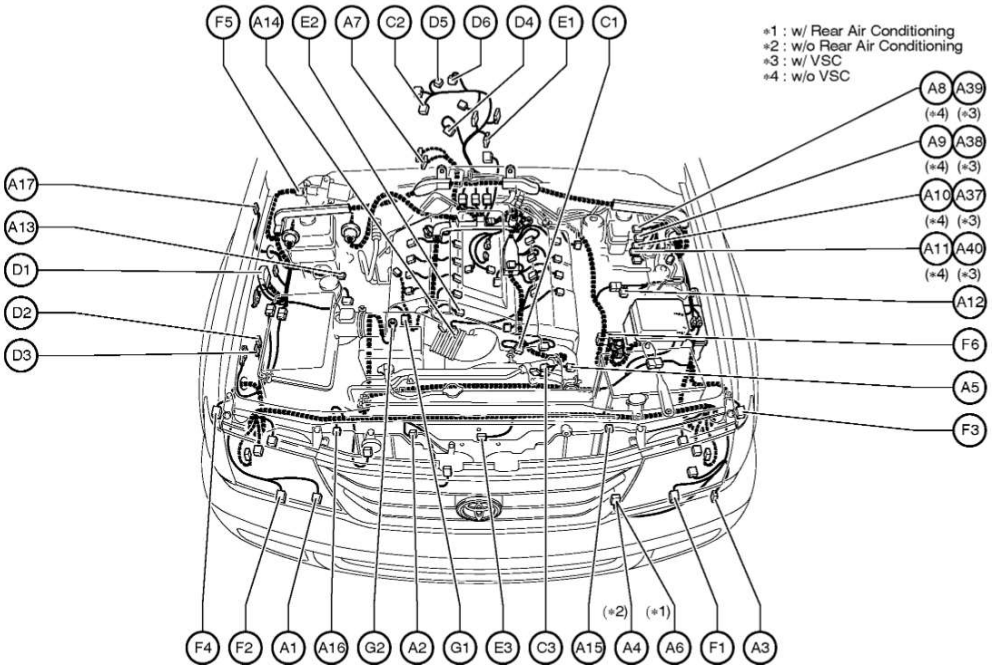

Cont'd
3 3I
2 3A
2 3I
1 3A
6 3I
11 3B
7 3I
12 3B
8 3I
5 3B
9 3I
6 3B
10 3I
7 3B
11 3I
8 3B
13 3I
16 3E
14 3I
18 3E
61 3I
10 3A
3 3B
6 3C
1 3E
7 3C
1 3H
1 3F
9 3C
2 3F
5 3H
13 3A
9 3E
6 3H
18 3A
9 3F
2 3H
12 3A
10 3F
12 3G
1 3I
19 3I
3 3F
20 3I
3 3G
21 3I
4 3G
22 3I
1 3G
23 3I
2 3G
24 3I
7 3G
11 3A
6 3F
13 3G
14 3A
5 3F
11 3G
16 3B
5 3I
11 3E
3 3A
4 3I
17 3E
20 3B
12 3I
2 3E
3 3E
4 3C
7 3A
33 3I
19 3B
2 3C
1 3D
8 3C
14 3E
3 3H
7 3H
6 3G
8 3G
9 3G
10 3G
MTR Relay
IH
II

F RELAY LOCATIONS

Fusible Link Block	**Near the Battery (See Page 20)**



Position of Parts in Engine Compartment



A 1 A/C Ambient Temp. Sensor
A 2 A/C Condenser Fan Motor
A 3 A/C Condenser Fan Relay
A 4 A/C Dual Pressure SW
A 5 A/C Magnetic Clutch and Lock Sensor
A 6 A/C Triple Pressure SW
(A/C Dual and Single Pressure SW)
A 7 A/T Oil Temp. Sensor
A 8 ABS Actuator
A 9 ABS Actuator
A10 ABS Actuator
A11 ABS Actuator
A12 ABS Speed Sensor Front LH
A13 ABS Speed Sensor Front RH
A14 Accel Position Sensor
A15 Airbag Sensor Front LH
A16 Airbag Sensor Front RH
A17 Auto Antenna Motor
A37 ABS & BA & TRAC & VSC Actuator
A38 ABS & BA & TRAC & VSC Actuator
A39 ABS & BA & TRAC & VSC Actuator
A40 ABS & BA & TRAC & VSC Actuator

C 1 Camshaft Position Sensor
C 2 Center Diff. Lock Control Motor
C 3 Crankshaft Position Sensor

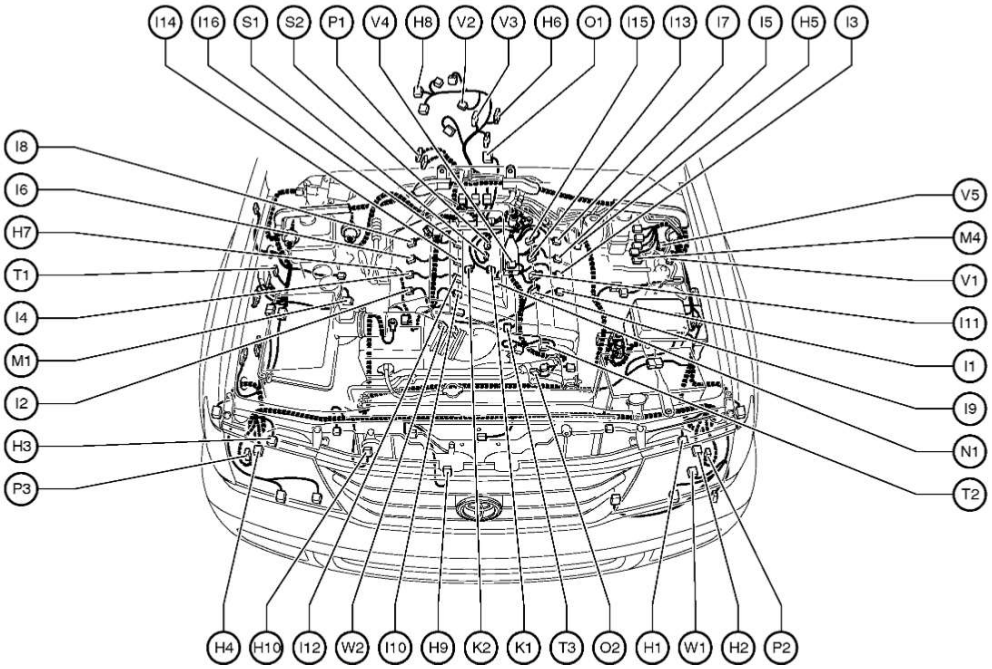
D 1 Data Link Connector 1
D 2 Daytime Running Light Relay No.3
D 3 Daytime Running Light Relay No.3
D 4 Detection SW (Center Diff. Lock)
D 5 Detection SW (Transfer L Position)
D 6 Detection SW (Transfer Neutral Position)

E 1 Electronically Controlled Transmission Solenoid
E 2 Engine Coolant Temp. Sensor
E 3 Engine Hood Courtesy SW

F 1 Front Fog Light LH
F 2 Front Fog Light RH
F 3 Front Turn Signal and Side Marker Light LH
F 4 Front Turn Signal and Side Marker Light RH
F 5 Front Wiper Motor
F 6 Fusible Link Block

G 1 Generator
G 2 Generator

Position of Parts in Engine Compartment



H 1 Headlight LH (High)
H 2 Headlight LH (Low)
H 3 Headlight RH (High)
H 4 Headlight RH (Low)
H 5 Heated Oxygen Sensor (Bank 1 Sensor 1)
H 6 Heated Oxygen Sensor (Bank 1 Sensor 2)
H 7 Heated Oxygen Sensor (Bank 2 Sensor 1)
H 8 Heated Oxygen Sensor (Bank 2 Sensor 2)
H 9 Horn LH
H10 Horn RH

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 Ignition Coil and Igniter No.5
I 6 Ignition Coil and Igniter No.6
I 7 Ignition Coil and Igniter No.7
I 8 Ignition Coil and Igniter No.8
I 9 Injector No.1
I 10 Injector No.2
I 11 Injector No.3
I 12 Injector No.4
I 13 Injector No.5
I 14 Injector No.6
I 15 Injector No.7
I 16 Injector No.8

K 1 Knock Sensor 1
K 2 Knock Sensor 2

M 1 Mass Air Flow Meter
M 4 Master Cylinder Pressure Sensor

N 1 Noise Filter (Ignition)

O 1 O/D Direct Clutch Speed Sensor
O 2 Oil Pressure Sender

P 1 Park/Neutral Position SW,A/T Indicator Light SW and Back-Up Light SW
P 2 Parking Light LH
P 3 Parking Light RH

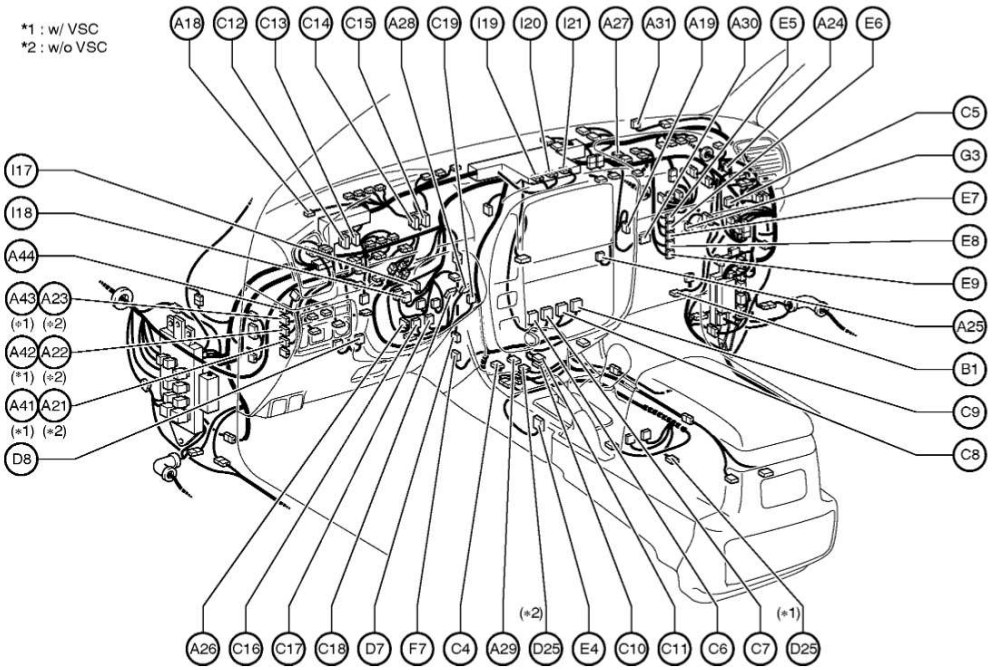
S 1 Starter
S 2 Starter

T 1 Theft Deterrent Horn
T 2 Throttle Control Motor
T 3 Throttle Position Sensor

V 1 Vapor Pressure Sensor
V 2 Vehicle Speed Sensor (Combination Meter)
V 3 Vehicle Speed Sensor (Electronically Controlled Transmission)
V 4 VSV (EVAP)
V 5 VSV (Vapor Pressure Sensor)

W 1 Washer Motor
W 2 Water Temp. Sender

Position of Parts in Instrument Panel



A18 A/C Solar Sensor
A19 A/C Thermistor
A21 ABS ECU
A22 ABS ECU
A23 ABS ECU
A24 Air Inlet Control Servo Motor
A25 Air Mix Control Servo Motor
A26 Air Vent Mode Control Servo Motor
A27 Airbag Squib (Front Passenger Airbag Assembly)
A28 Airbag Squib (Steering Wheel Pad)
A29 Ashtray Illumination
A30 Auto Antenna Control Relay
A31 Automatic Light Control Sensor
A41 ABS & BA & TRAC & VSC ECU
A42 ABS & BA & TRAC & VSC ECU
A43 ABS & BA & TRAC & VSC ECU
A44 ABS & BA & TRAC & VSC ECU

B 1 Blower Motor Controller

C 4 Center Airbag Sensor Assembly
C 5 Center Diff. Lock Control Relay
C 6 Center ECU
C 7 Center ECU
C 8 Center ECU
C 9 Center ECU
C10 Cigarette Lighter
C11 Cigarette Lighter Illumination
C12 Combination Meter
C13 Combination Meter
C14 Combination Meter
C15 Combination Meter
C16 Combination SW
C17 Combination SW
C18 Combination SW
C19 Combination SW

D 7 Data Link Connector 3
D 8 Daytime Running Light Relay (Main)
D25 Deceleration Sensor

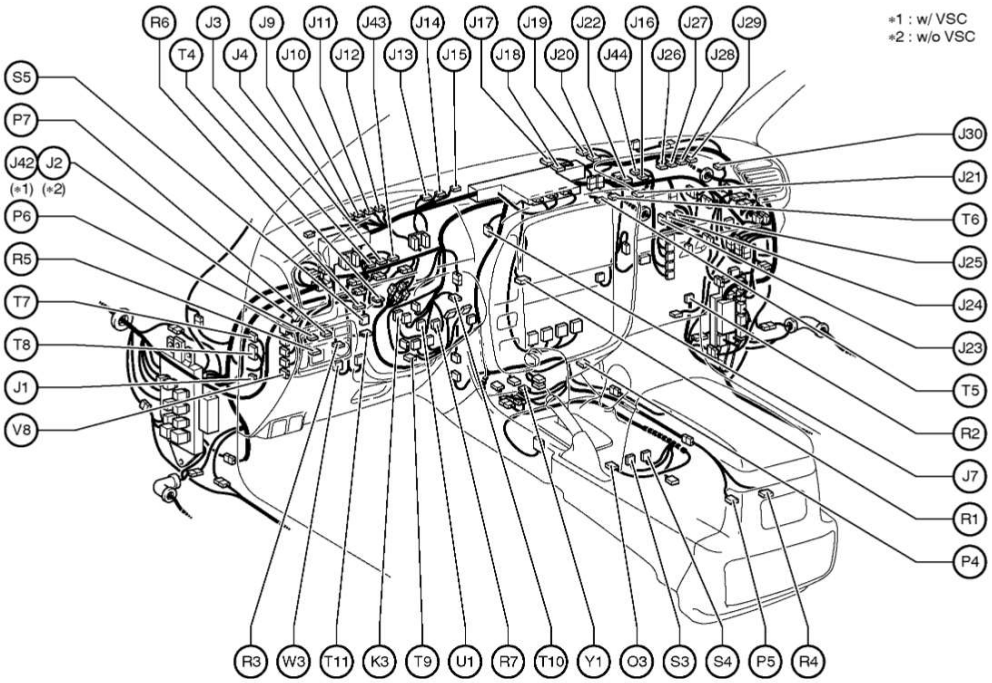
E 4 Electronically Controlled Transmission Pattern Select SW
E 5 Engine Control Module
E 6 Engine Control Module
E 7 Engine Control Module
E 8 Engine Control Module
E 9 Engine Control Module

F 7 Fuel Control SW

G 3 Glove Box Light

I 17 Ignition Key Cylinder Light
I 18 Ignition SW
I 19 Instrument ECU
I 20 Instrument ECU
I 21 Instrument ECU

Position of Parts in Instrument Panel



J 1 Junction Connector
J 2 Junction Connector
J 3 Junction Connector
J 4 Junction Connector
J 7 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
J 30 Junction Connector
J 42 Junction Connector
J 43 Junction Connector
J 44 Junction Connector

K 3 Key Interlock Solenoid

O 3 O/D Main SW and Shift Lock Control ECU

P 4 Power Outlet (Front)
P 5 Power Outlet (Rear Console Box)
P 6 Power Quarter Window SW LH
P 7 Power Quarter Window SW RH

R 1 Radio and Player
R 2 Rear Diff. Lock Control ECU
R 3 Rear Diff. Lock SW
R 4 Rear Heater SW
R 5 Remote Control Mirror SW
R 6 Rheostat
R 7 Room Temp. Sensor (Front)

S 3 Seat Heater SW (Driver's Seat)
S 4 Seat Heater SW (Front Passenger's Seat)
S 5 Stop Light SW

T 4 Telescopic Motor
T 5 Theft Deterrent ECU
T 6 Theft Deterrent ECU
T 7 Tilt and Telescopic ECU
T 8 Tilt and Telescopic ECU
T 9 Tilt Motor
T 10 Transponder Key Amplifier
T 11 Turn Signal Flasher

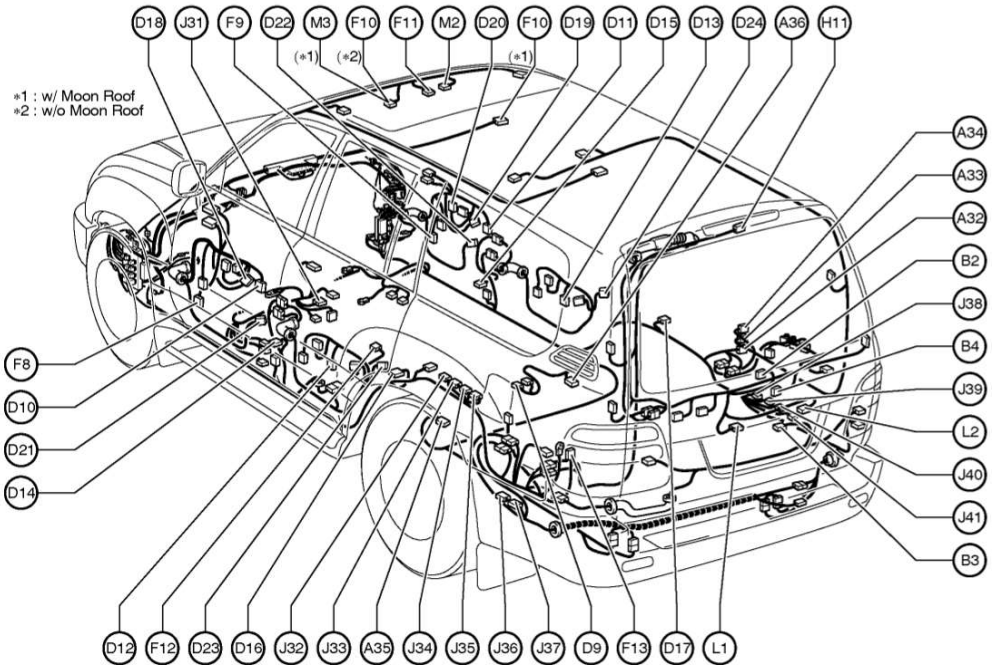
U 1 Unlock Warning SW

V 8 VSC Warning Buzzer

W 3 Wireless Door Lock ECU

Y 1 Yaw Rate Sensor

Position of Parts in Body



A 32 A/C Amplifier (Rear)
A 33 A/C Amplifier (Rear)
A 34 A/C Amplifier (Rear)
A 35 ABS Speed Sensor Rear LH
A 36 ABS Speed Sensor Rear RH

B 2 Back Door Courtesy SW
B 3 Back Door Key Lock and Unlock SW
B 4 Back Door Lock Motor and Back DoorUnlock Detection SW

D 9 Detection SW (Rear Diff. Lock)
D 10 Door Courtesy Light Front LH
D 11 Door Courtesy Light Front RH
D 12 Door Courtesy Light Rear LH
D 13 Door Courtesy Light Rear RH
D 14 Door Courtesy SW Front LH
D 15 Door Courtesy SW Front RH
D 16 Door Courtesy SW Rear LH
D 17 Door Courtesy SW Rear RH
D 18 Door Key Lock and Unlock SW LH
D 19 Door Key Lock and Unlock SW RH
D 20 Door Lock Control SW RH
D 21 Door Lock Motor and Door Unlock Detection SW Front LH
D 22 Door Lock Motor and Door Unlock Detection SW Front RH
D 23 Door Lock Motor and Door Unlock Detection SW Rear LH
D 24 Door Lock Motor and Door Unlock Detection SW Rear RH

F 8 Front Door Speaker LH
F 9 Front Door Speaker RH
F 10 Front Interior Light and Rear Personal Light
F 11 Front Personal Light
F 12 Fuel Pump and Sender
F 13 Fuel Pump Control ECU

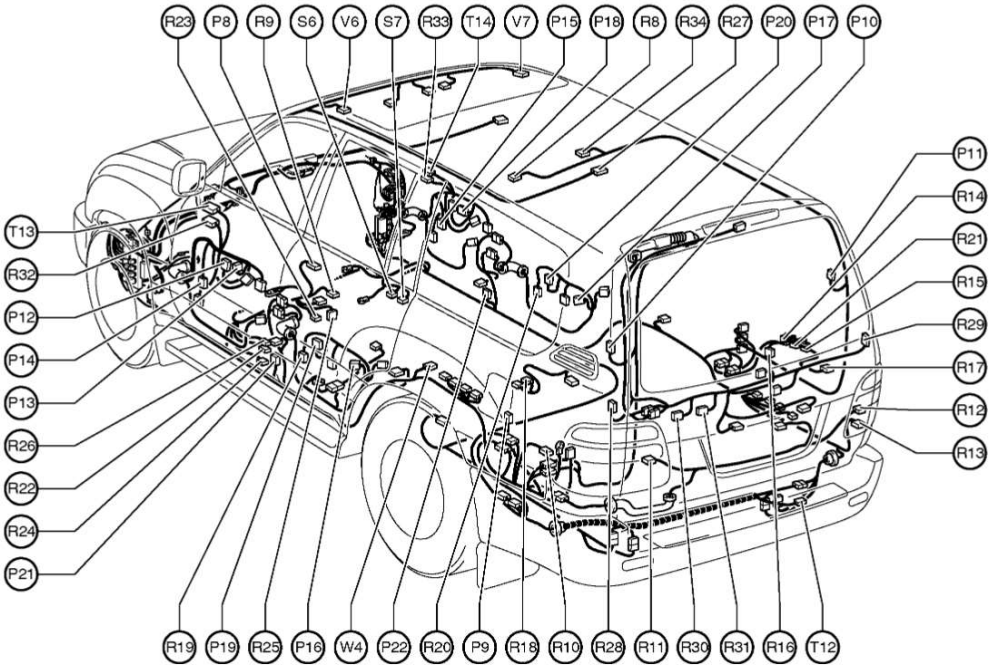
H 11 High Mounted Stop Light

J 31 Junction Connector
J 32 Junction Connector
J 33 Junction Connector
J 34 Junction Connector
J 35 Junction Connector
J 36 Junction Connector
J 37 Junction Connector
J 38 Junction Connector
J 39 Junction Connector
J 40 Junction Connector
J 41 Junction Connector

L 1 License Plate Light LH
L 2 License Plate Light RH

M 2 Moon Roof Control ECU
M 3 Moon Roof Control SW

Position of Parts in Body



P 8 Parking Brake SW
P 9 Power Outlet (Luggage Compartment)
P10 Power Vent Window Motor LH
P11 Power Vent Window Motor RH
P12 Power Window Master SW
P13 Power Window Master SW
P14 Power Window Motor Front LH
P15 Power Window Motor Front RH
P16 Power Window Motor Rear LH
P17 Power Window Motor Rear RH
P18 Power Window SW Front RH
P19 Power Window SW Rear LH
P20 Power Window SW Rear RH
P21 Pretensioner LH
P22 Pretensioner RH

R 8 Rear A/C Control SW
R 9 Rear Air Mix Control Servo Motor
R10 Rear Combination Light LH
R11 Rear Combination Light LH
R12 Rear Combination Light RH
R13 Rear Combination Light RH
R14 Rear Cooler Blower Motor
R15 Rear Cooler Magnetic Valve
R16 Rear Cooler Power Transistor
R17 Rear Cooler Relay
R18 Rear Diff. Lock Motor
R19 Rear Door Speaker LH
R20 Rear Door Speaker RH
R21 Rear Evaporator Temp. Sensor
R22 Rear Heater Blower Motor
R23 Rear Heater Blower Resistor
R24 Rear Heater Fan Relay
R25 Rear Heater Power Transistor
R26 Rear Inlet Air Temp. Sensor
R27 Rear Interior Light
R28 Rear Window Defogger
R29 Rear Window Defogger
R30 Rear Wiper Motor
R31 Rear Wiper Relay
R32 Remote Control Mirror LH
R33 Remote Control Mirror RH
R34 Room Temp. Sensor (Rear)

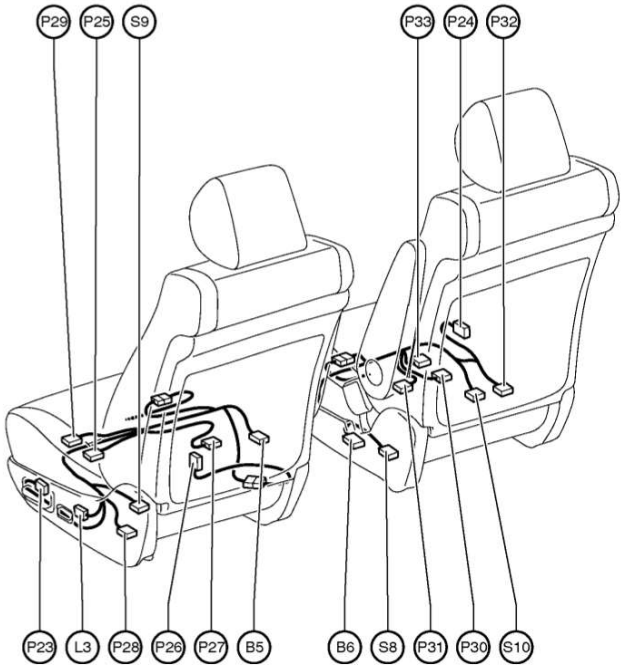
S 6 Stereo Component Amplifier
S 7 Stereo Component Amplifier

T12 Trailer Socket
T13 Tweeter LH
T14 Tweeter RH

V 6 Vanity Light LH
V 7 Vanity Light RH

W 4 Woofer (Speaker)

Position of Parts in Seat



B 5 Buckle SW LH
B 6 Buckle SW RH

L 3 Lumbar Support Control SW (Driver's Seat)

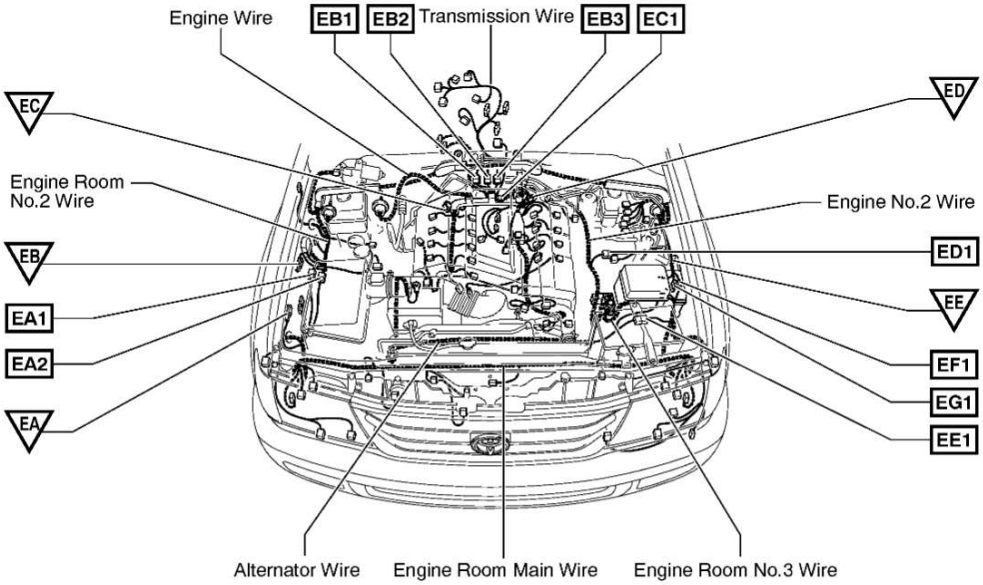
P23 Power Seat Control SW (Driver's Seat)
P24 Power Seat Control SW (Front Passenger's Seat)
P25 Power Seat Motor
(Driver's Seat Front Vertical Control)
P26 Power Seat Motor
(Driver's Seat Lumbar Support Control)
P27 Power Seat Motor
(Driver's Seat Rear Vertical Control)
P28 Power Seat Motor
(Driver's Seat Reclining Control)
P29 Power Seat Motor
(Driver's Seat Slide Control)
P30 Power Seat Motor
(Front Passenger's Seat Front Vertical Control)
P31 Power Seat Motor
(Front Passenger's Seat Rear Vertical Control)
P32 Power Seat Motor
(Front Passenger's Seat Reclining Control)
P33 Power Seat Motor
(Front Passenger's Seat Slide Control)

S 8 Seat Belt Warning Occupant Detection Sensor
S 9 Seat Heater (Driver's Seat)
S10 Seat Heater (Front Passenger's Seat)

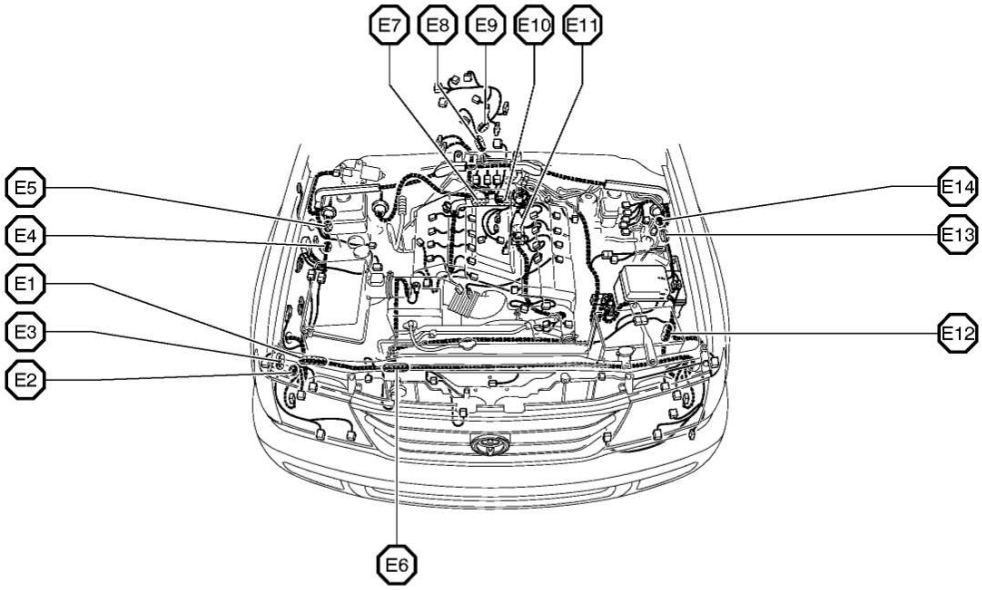
G ELECTRICAL WIRING ROUTING

▭ : Location of Connector Joining Wire Harness and Wire Harness

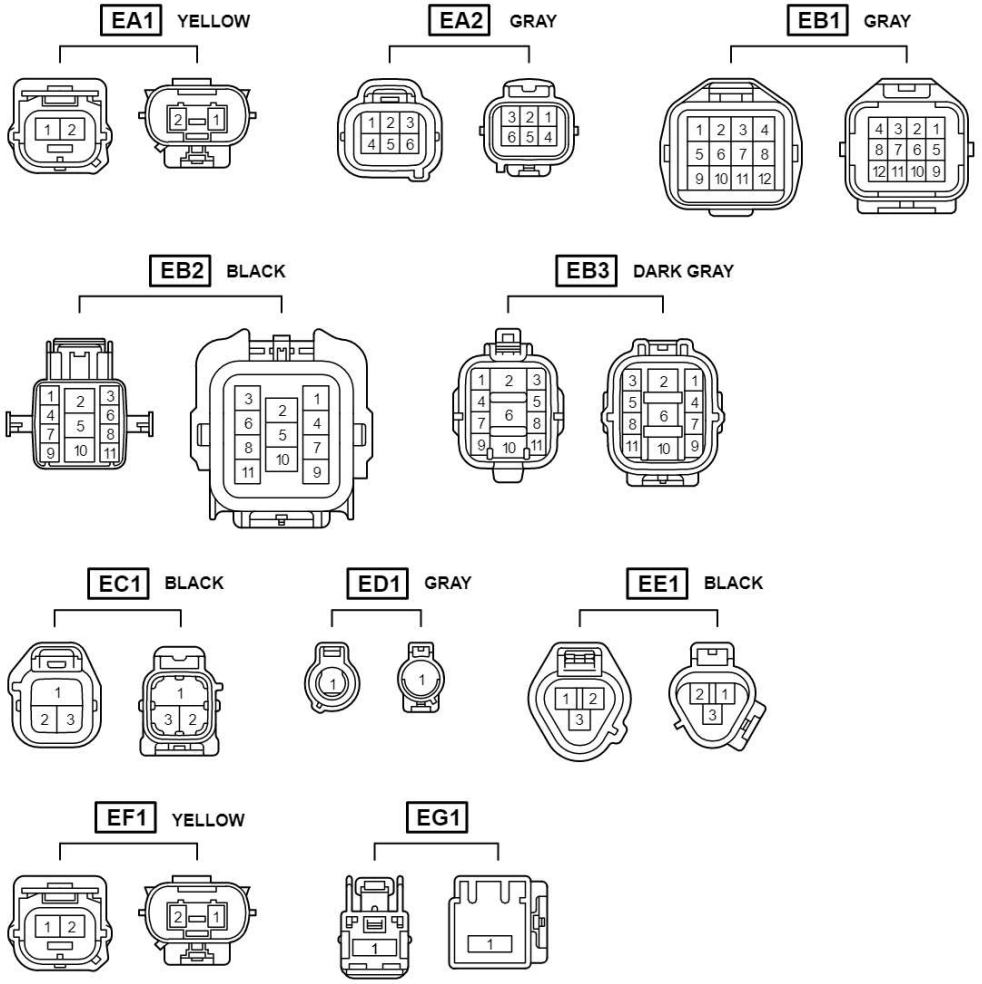
▽ : Location of Ground Points



⬡ : Location of Splice Points

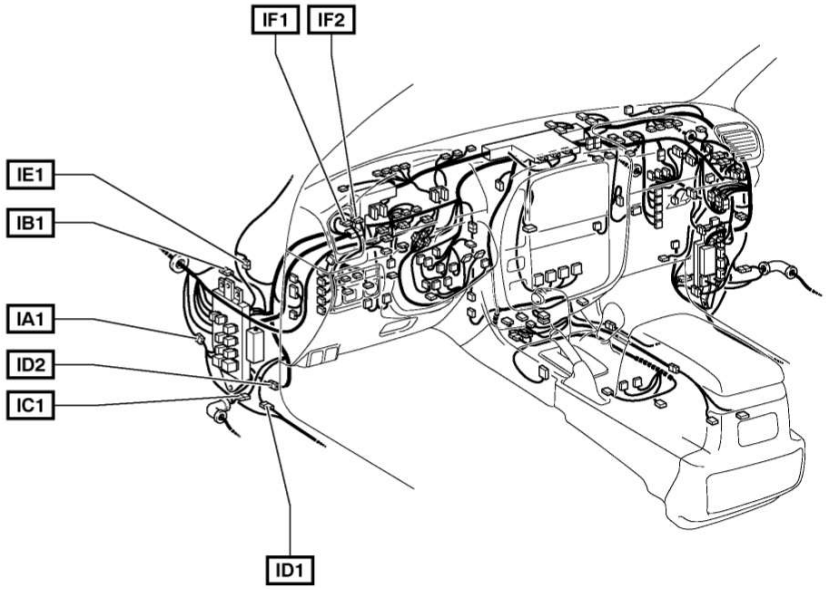


Connector Joining Wire Harness and Wire Harness

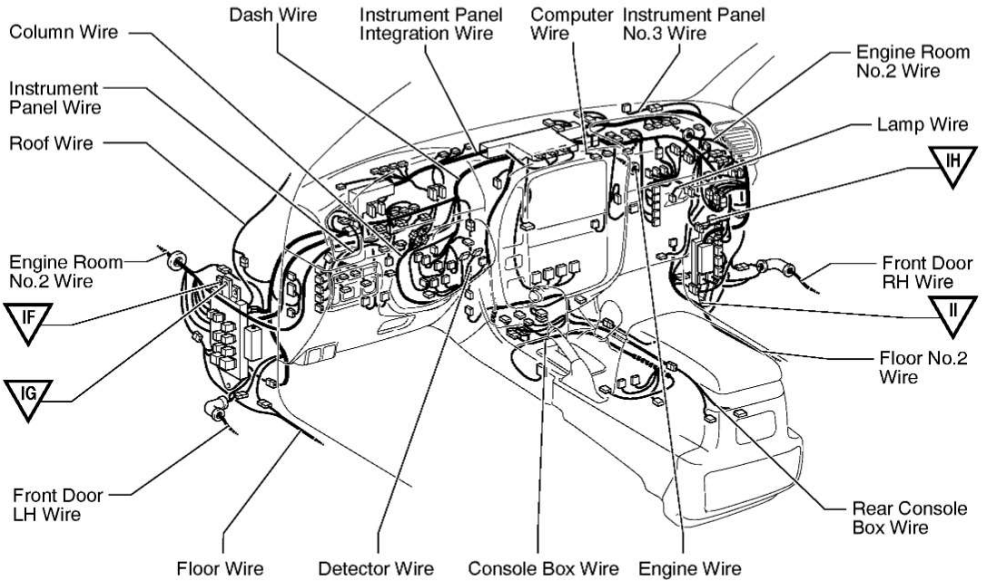


Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
EA2	
EB1	Engine Wire and Transmission Wire (On the Transmission)
EB2	
EB3	
EC1	Engine No.2 Wire and Engine Wire (On the Transmission)
ED1	Engine No.2 Wire and Engine Room No.2 Wire (Near the Engine Room J/B)
EE1	Engine Room Main Wire and Alternator Wire (Near the Battery)
EF1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Engine Room J/B)
EG1	Engine Room No.2 Wire and Engine Room No.3 Wire (Under the Engine Room J/B)

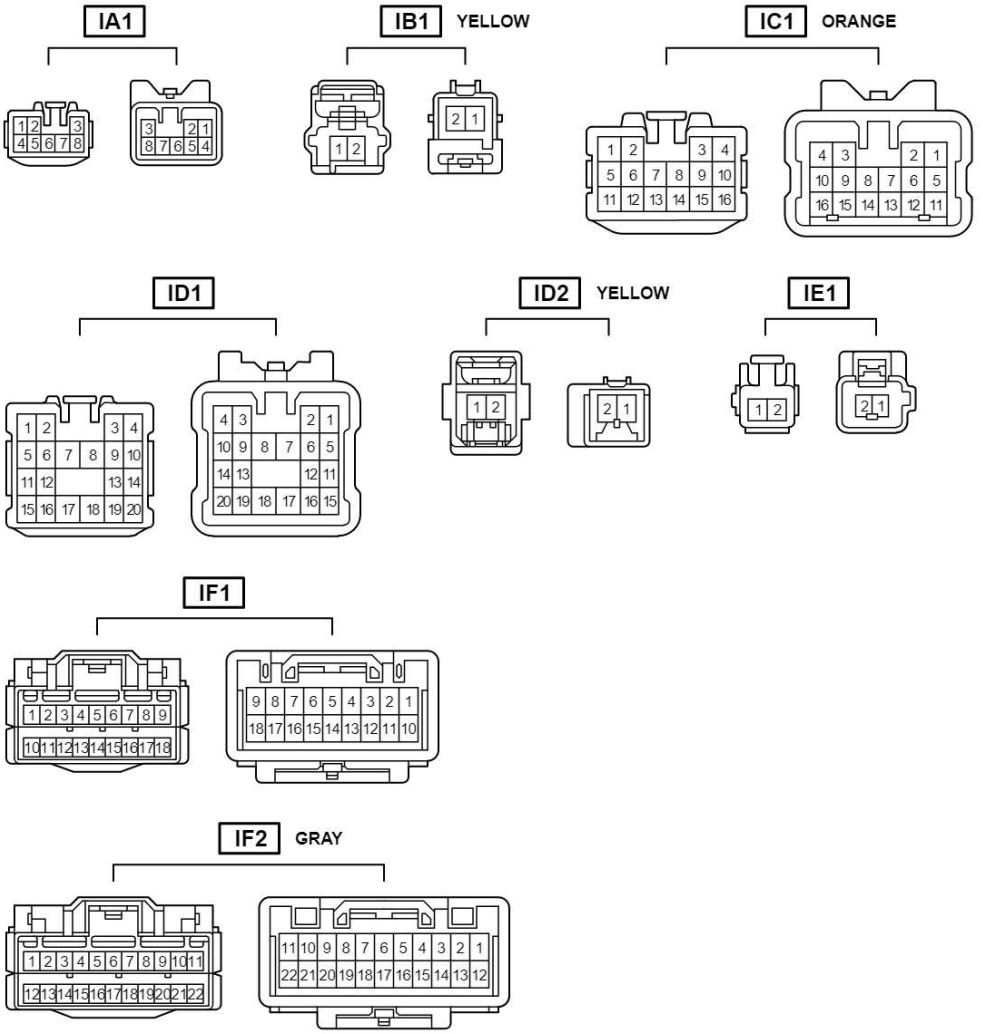
▭ : Location of Connector Joining Wire Harness and Wire Harness



▽ : Location of Ground Points

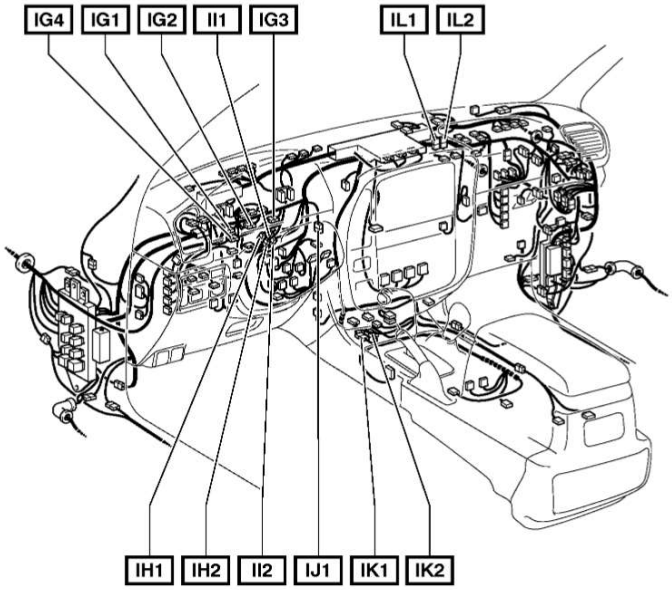


Connector Joining Wire Harness and Wire Harness

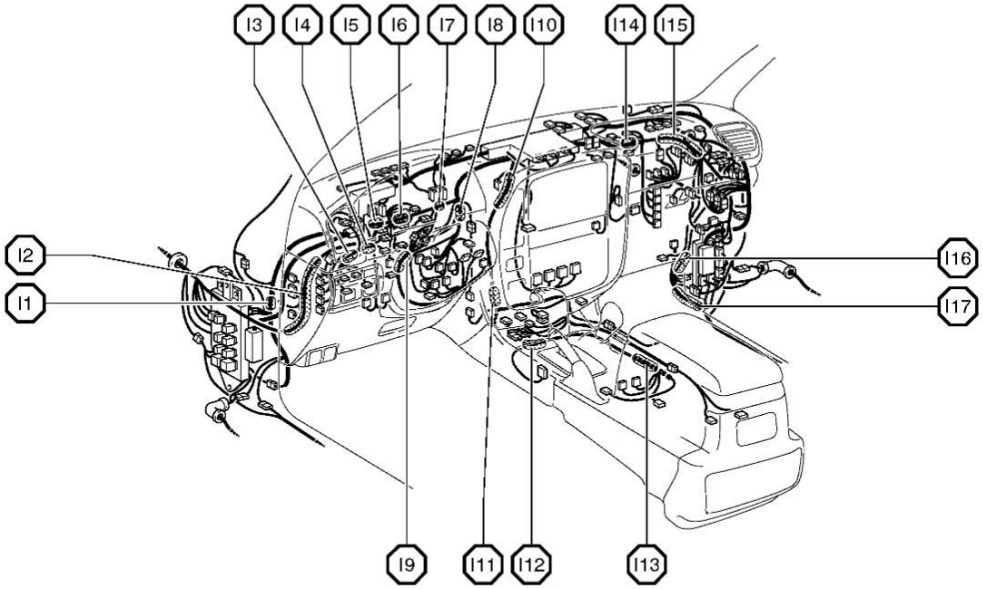


Code	Joining Wire Harness and Wire Harness (Connector Location)
IA1	Floor Wire and Engine Room No.2 Wire (Left Kick Panel)
IB1	Engine Room No.2 Wire and Dash Wire (Left Kick Panel)
IC1	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID1	Dash Wire and Floor Wire (Left Kick Panel)
ID2	
IE1	Dash Wire and Roof Wire (Left Kick Panel)
IF1	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IF2	

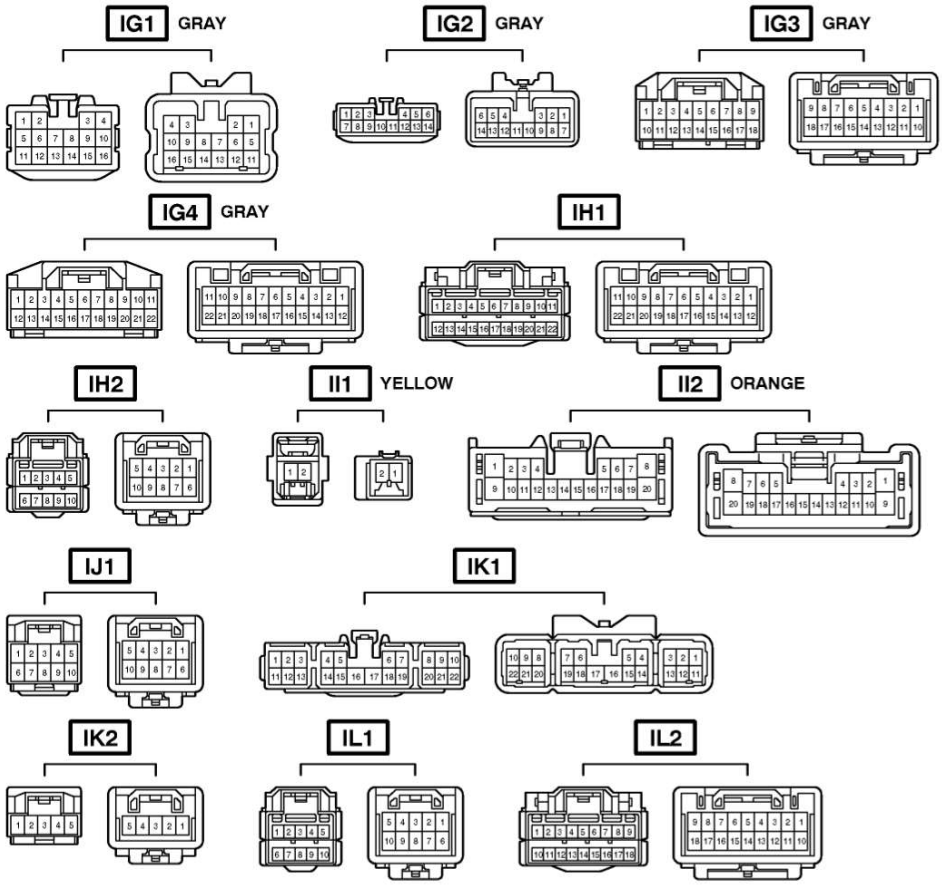
▭ : Location of Connector Joining Wire Harness and Wire Harness



○ : Location of Splice Points

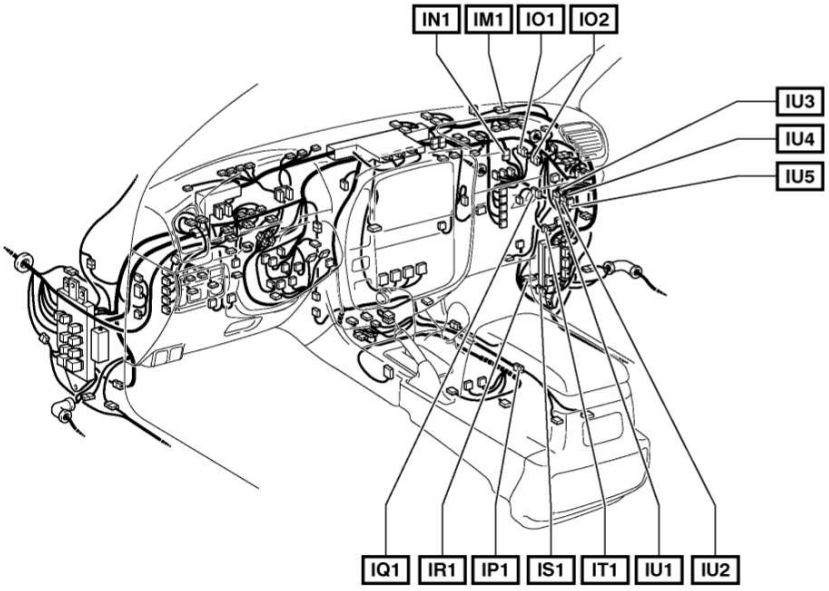


Connector Joining Wire Harness and Wire Harness

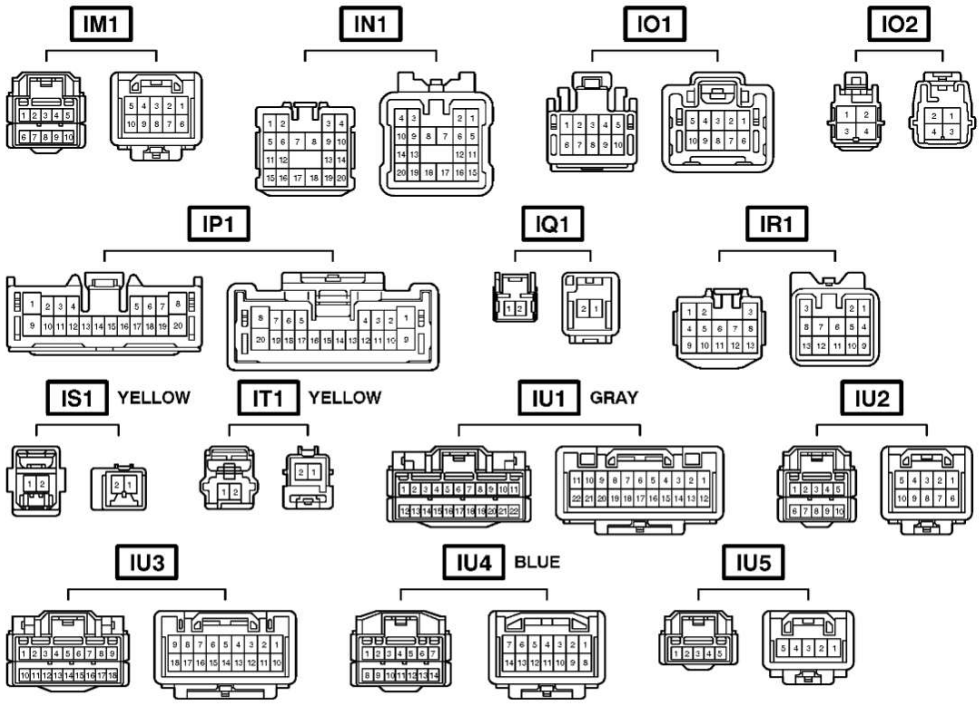


Code	Joining Wire Harness and Wire Harness (Connector Location)
IG1	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG2	
IG3	
IG4	
IH1	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
IH2	
II1	Dash Wire and Column Wire (Near the Ignition SW)
II2	Column Wire and Dash Wire (Near the Ignition SW)
IJ1	Dash Wire and Detector Wire (Instrument Panel Center)
IK1	Console Box Wire and Dash Wire (Left Side of Front Console)
IK2	
IL1	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IL2	

▭ : Location of Connector Joining Wire Harness and Wire Harness

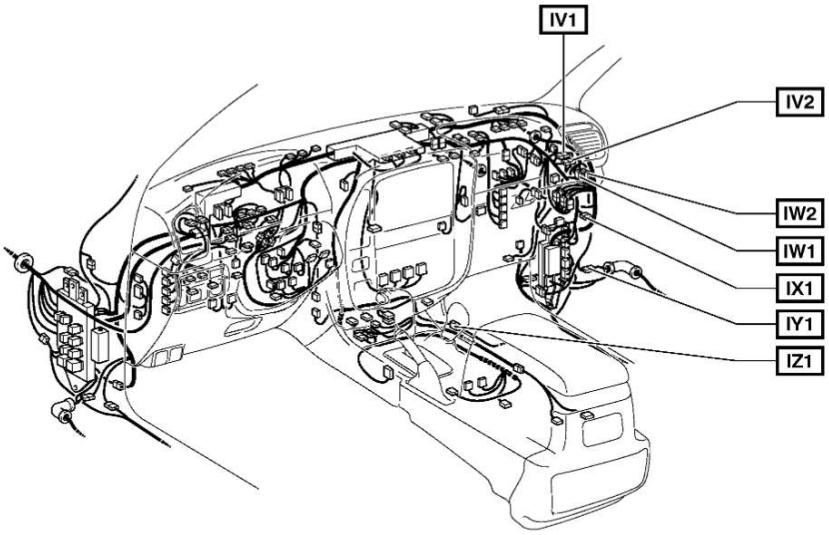


Connector Joining Wire Harness and Wire Harness

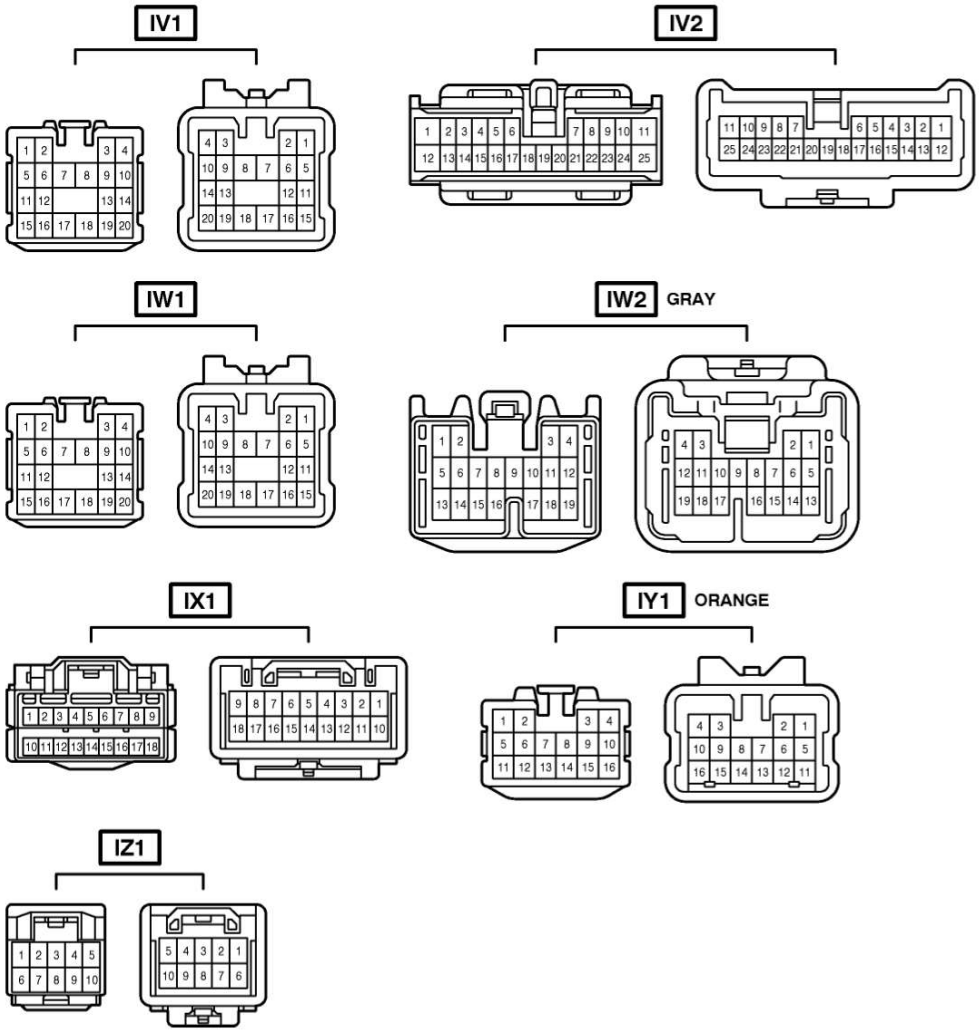


Code	Joining Wire Harness and Wire Harness (Connector Location)
IM1	Instrument Panel Integration Wire and Instrument Panel No.3 Wire (Right Side of Instrument Panel)
IN1	Engine Wire and Dash Wire (Behind the Glove Box)
IO1	
IO2	
IP1	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)
IQ1	Instrument Panel Integration Wire and Lamp Wire (Behind the Glove Box)
IR1	Engine Room No.2 Wire and Floor No.2 Wire (Right Kick Panel)
IS1	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IT1	Engine Room No.2 Wire and Dash Wire (Right Kick Panel)
IU1	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU2	
IU3	
IU4	
IU5	

▭ : Location of Connector Joining Wire Harness and Wire Harness

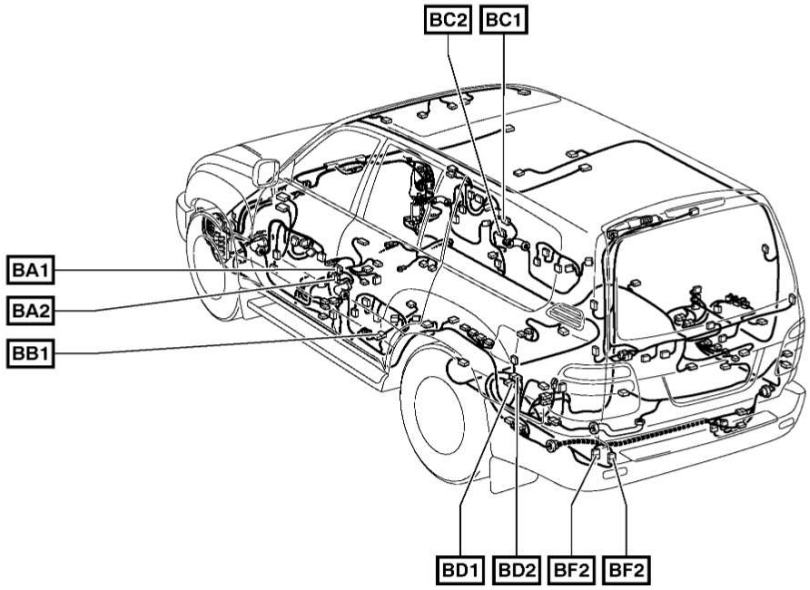


Connector Joining Wire Harness and Wire Harness

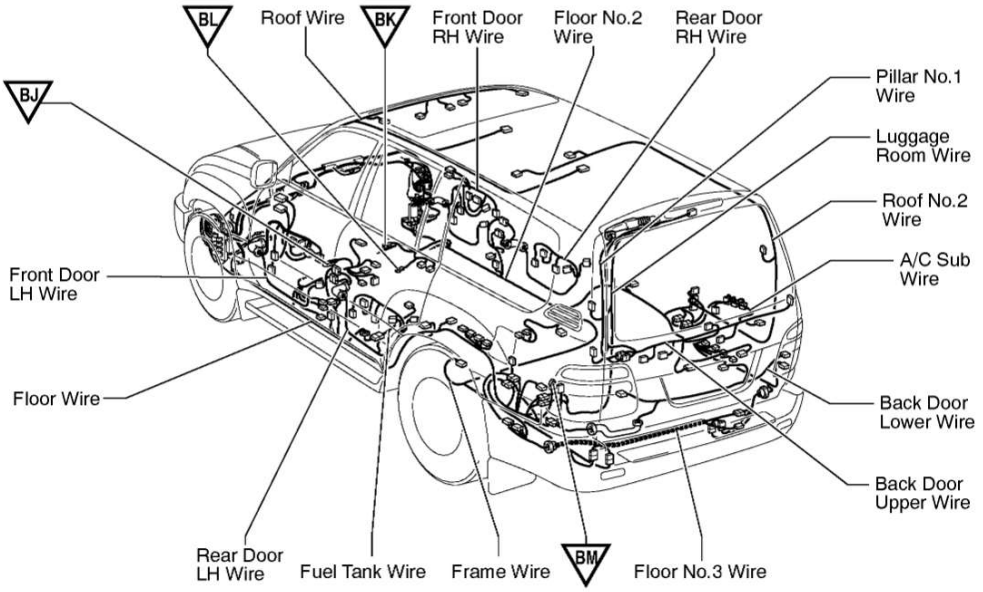


Code	Joining Wire Harness and Wire Harness (Connector Location)
IV1	Dash Wire and Floor No.2 Wire (Behind the Glove Box)
IV2	
IW1	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IW2	
IX1	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
IY1	Front Door RH Wire and Dash Wire (Right Kick Panel)
IZ1	Floor No.2 Wire and Dash Wire (Right Side of Rear Console)

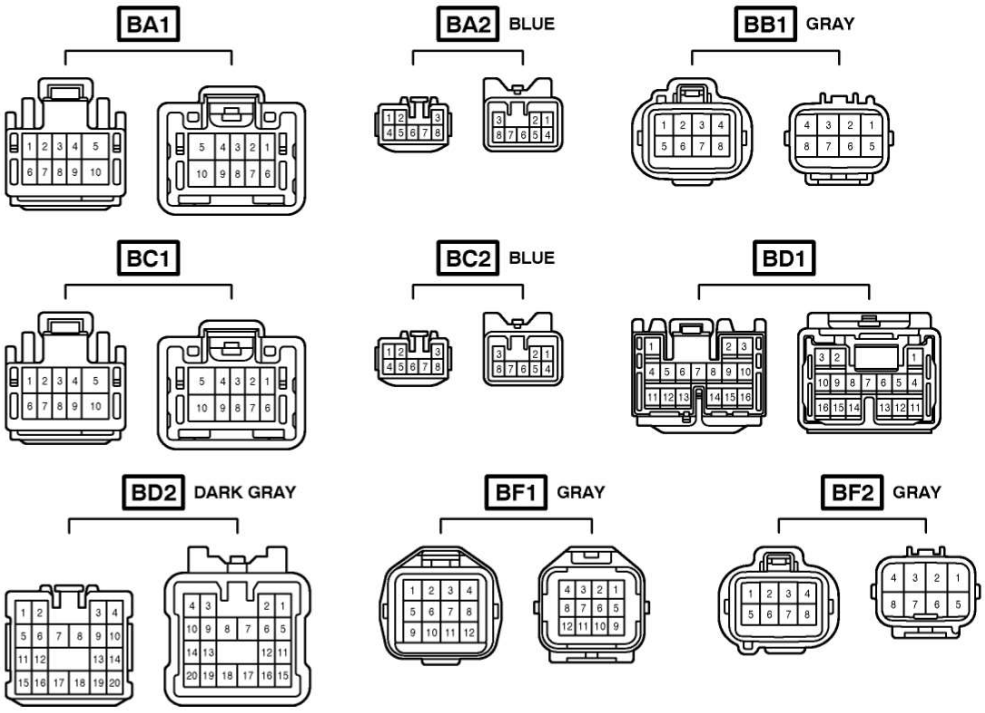
▭ : Location of Connector Joining Wire Harness and Wire Harness



▽ : Location of Ground Points

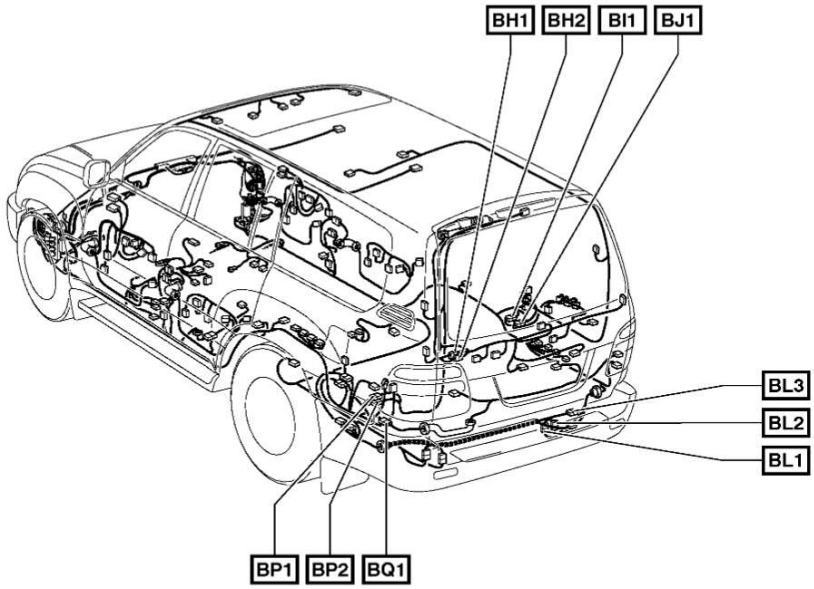


Connector Joining Wire Harness and Wire Harness

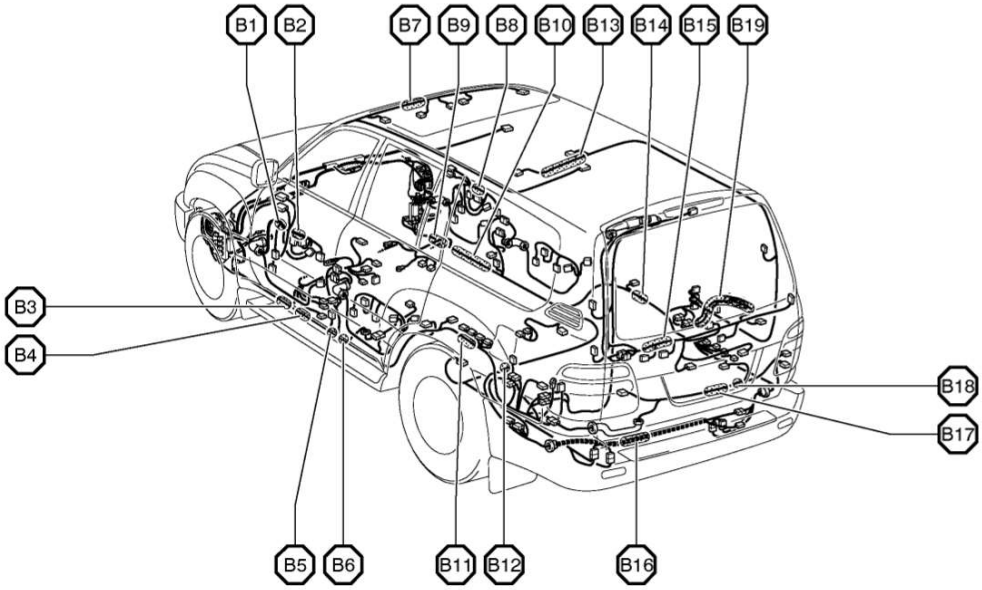


Code	Joining Wire Harness and Wire Harness (Connector Location)
BA1	Rear Door LH Wire and Floor Wire (Left Side of Center Pillar)
BA2	
BB1	Floor Wire and Fuel Tank Wire (Near the Fuel Tank)
BC1	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BC2	
BD1	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BD2	
BF1	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)
BF2	

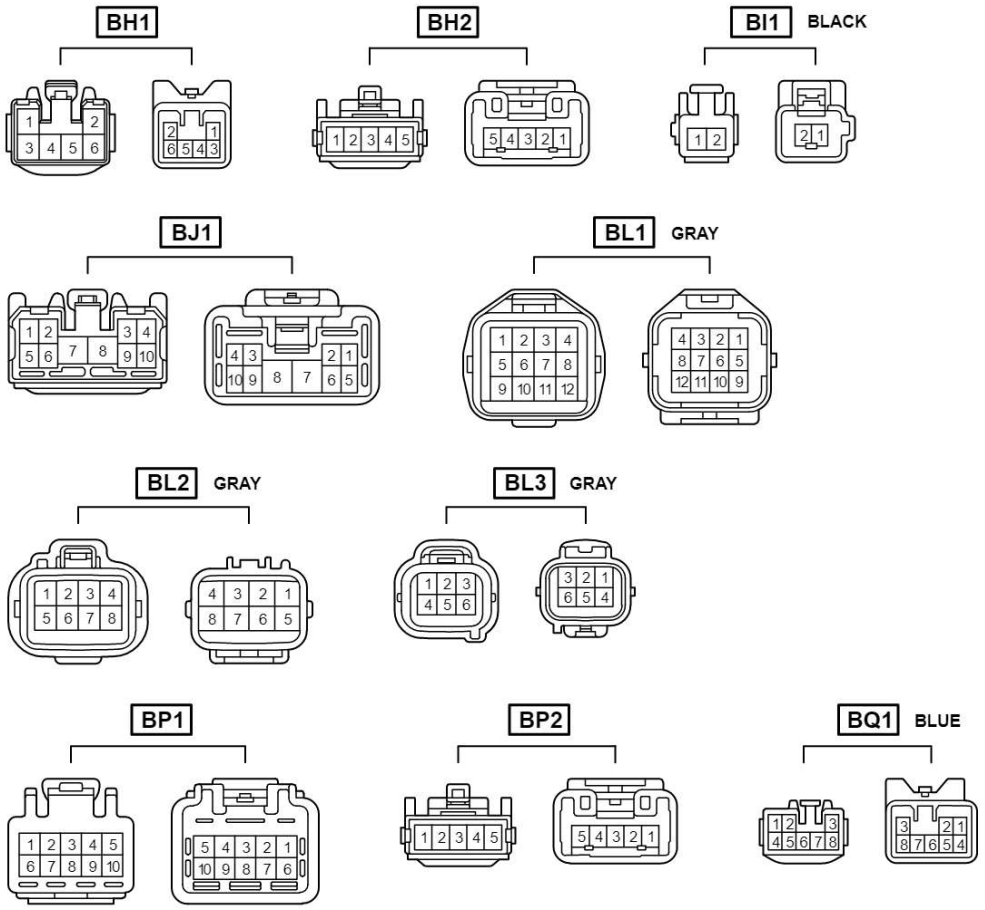
▭ : Location of Connector Joining Wire Harness and Wire Harness



○ : Location of Splice Points



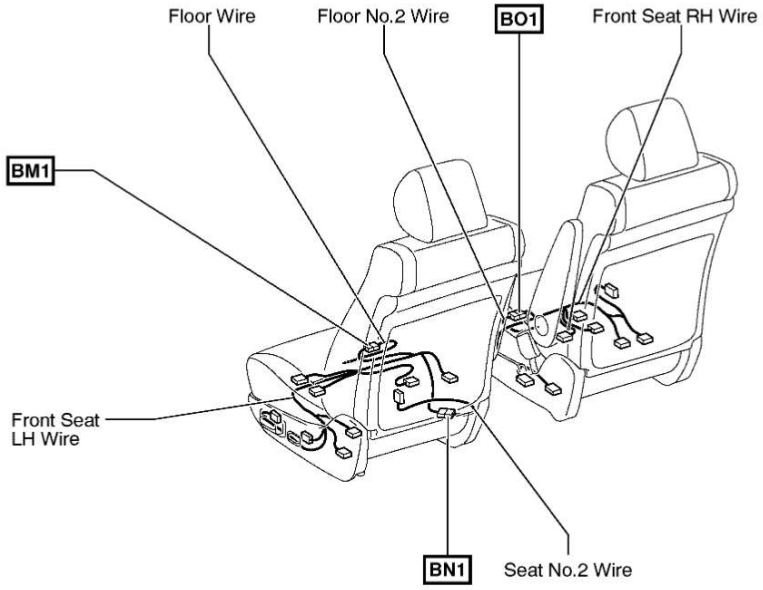
Connector Joining Wire Harness and Wire Harness



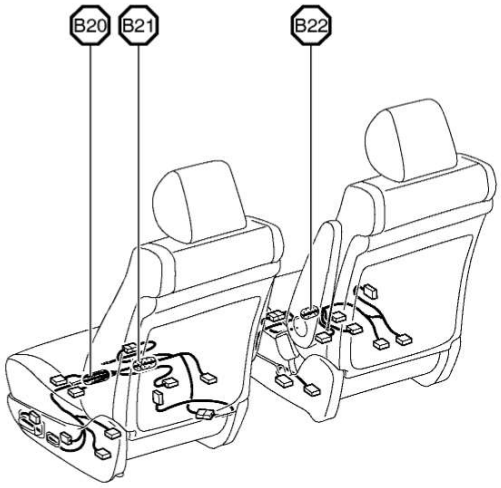
Code	Joining Wire Harness and Wire Harness (Connector Location)
BH1	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BH2	
BI1	Roor No.2 Wire and Floor No.2 Wire (Right Side Rear Quarter Panel)
BJ1	Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)
BL1	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BL2	
BL3	
BP1	Pillar No.1 Wire and Floor Wire (Left Rear Side Quarter Panel)
BP2	
BQ1	Back Door Lower Wire and Floor Wire (Right Side of Rear Floor Crossmember)

G ELECTRICAL WIRING ROUTING

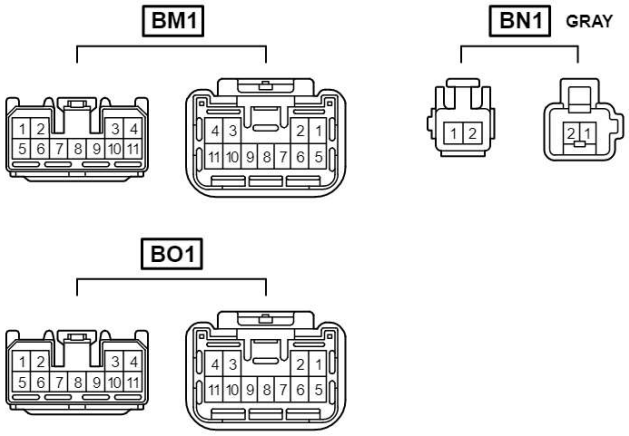
▭ : Location of Connector Joining Wire Harness and Wire Harness



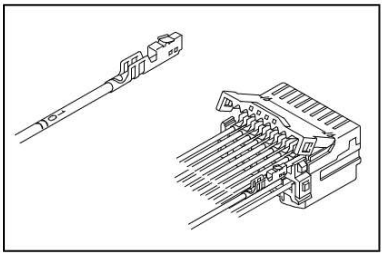
◯ : Location of Splice Points



Connector Joining Wire Harness and Wire Harness

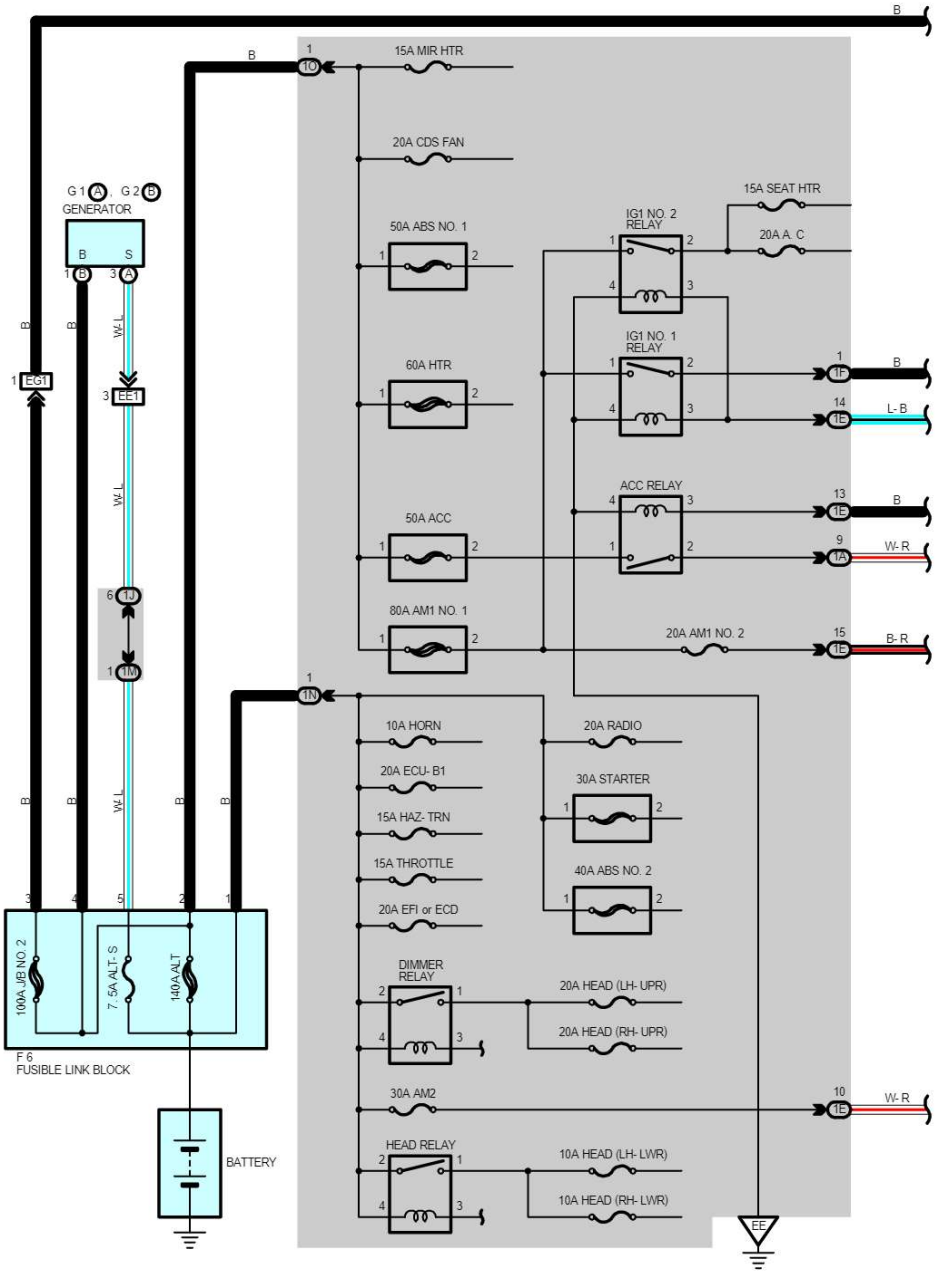


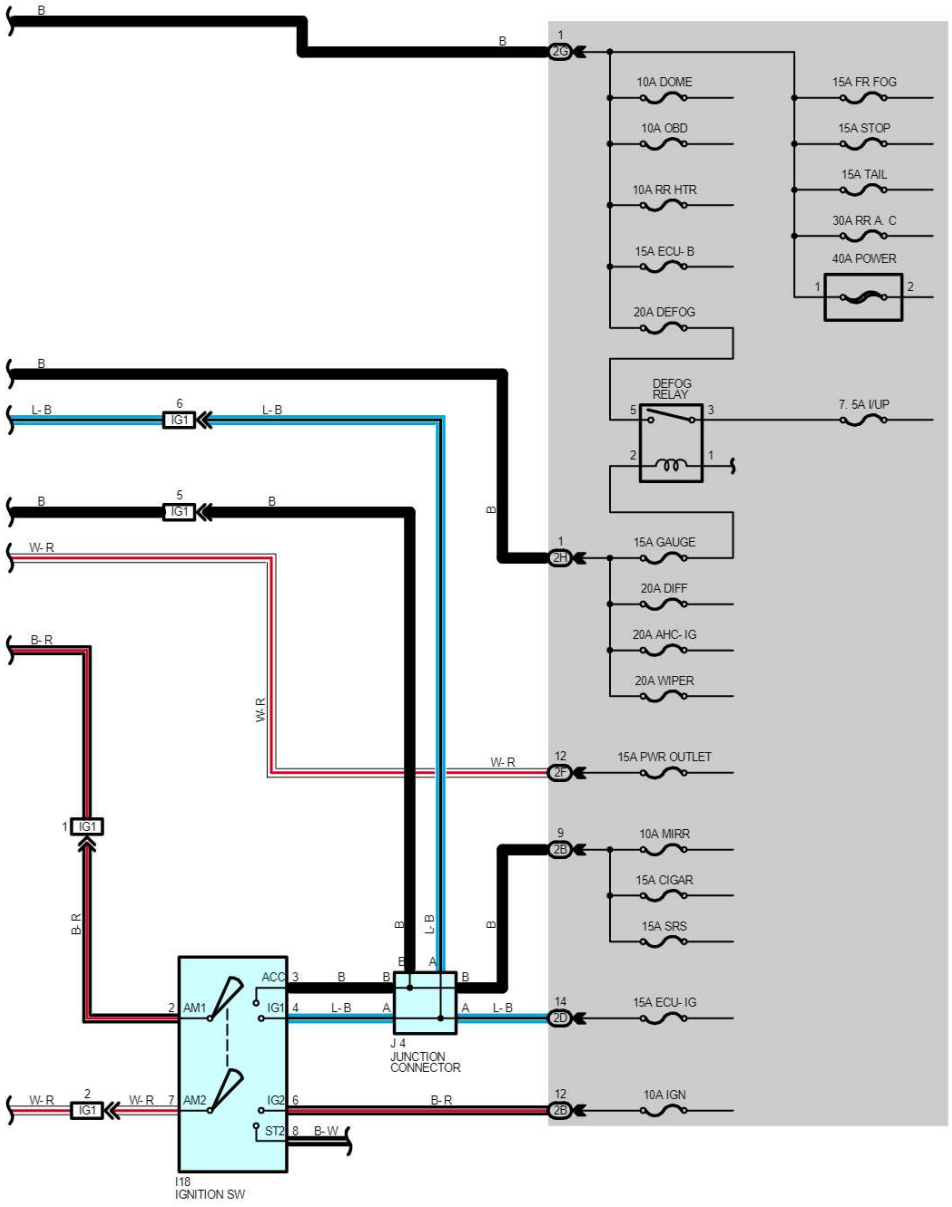
Code	Joining Wire Harness and Wire Harness (Connector Location)
BM1	Floor Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BN1	Seat No.2 Wire and Front Seat LH Wire (Rear Side Under the Driver's Seat)
BO1	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)



WIRE COLOR AND TERMINAL NUMBER

In some parts of the instrumental panel wiring harness, the same wire color (i.e. SB: Sky Blue) is used for all the wiring to a specific connector.
In order to identify the wiring, the terminal number is printed on the wiring.
Install the wiring to the connector position with the same terminal number.
Some early production vehicles may not have these terminal numbers printed.


B
15A MIR HTR
20A CDS FAN
15A SEAT HTR
20A A. C
IG1 NO. 2 RELAY
IG1 NO. 1 RELAY
ACC RELAY
50A ABS NO. 1
60A HTR
50A ACC
80A AM1 NO. 1
20A AM1 NO. 2
10A HORN
20A ECU- B1
15A HAZ- TRN
15A THROTTLE
20A EFI or ECD
20A RADIO
30A STARTER
40A ABS NO. 2
DIMMER RELAY
20A HEAD (LH- UPR)
20A HEAD (RH- UPR)
30A AM2
HEAD RELAY
10A HEAD (LH- LWR)
10A HEAD (RH- LWR)
L- B
B- R
W- R
G 1 (A) G 2 (B)
GENERATOR
B S
EG1
EE1
100A JB NO. 2
7. 5A ALT- S
140A ALT
F 6
FUSIBLE LINK BLOCK
BATTERY
EE


B
B
1
2G
10A DOME
10A OBD
10A RR HTR
15A ECU- B
20A DEFOG
15A FR FOG
15A STOP
15A TAIL
30A RR A. C
40A POWER
1
2
DEFOG
RELAY
5
3
2
1
7. 5A I/UP
B
L- B
6
IG1
L- B
B
5
IG1
B
B
W- R
1
2H
15A GAUGE
20A DIFF
20A AHC- IG
20A WIPER
B- R
W- R
W- R
12
2F
15A PWR OUTLET
1
IG1
9
2B
10A MIRR
15A CIGAR
15A SRS
B- R
B
L- B
B
ACC
3
B
B
A
B
2
AM1
IG1
4
L- B
A
A
L- B
14
2D
15A ECU- IG
J 4
JUNCTION
CONNECTOR
W- R
2
IG1
W- R
7
AM2
IG2
6
B- R
12
2B
10A IGN
ST2
8
B- W
I18
IGNITION SW

POWER SOURCE

SERVICE HINTS

HEAD RELAY

2-1 : Closed with light control SW at **HEAD** position or dimmer SW at **FLASH** position
(When the light auto turn off system does not operate)

DIMMER RELAY

1-2 : Closed with daytime running light operation
: Closed with light control SW at **HEAD** position and dimmer SW at **HIGH** position
: Closed with dimmer SW at **FLASH** position

I18 IGNITION SW

2-3 : Closed with ignition SW at **ACC** or **ON** position
2-4 : Closed with ignition SW at **ON** or **ST** position
7-6 : Closed with ignition SW at **ON** or **ST** position
7-8 : Closed with ignition SW at **ST** position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
F6	38	G2 B	38	J4	41
G1 A	38	I18	40		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

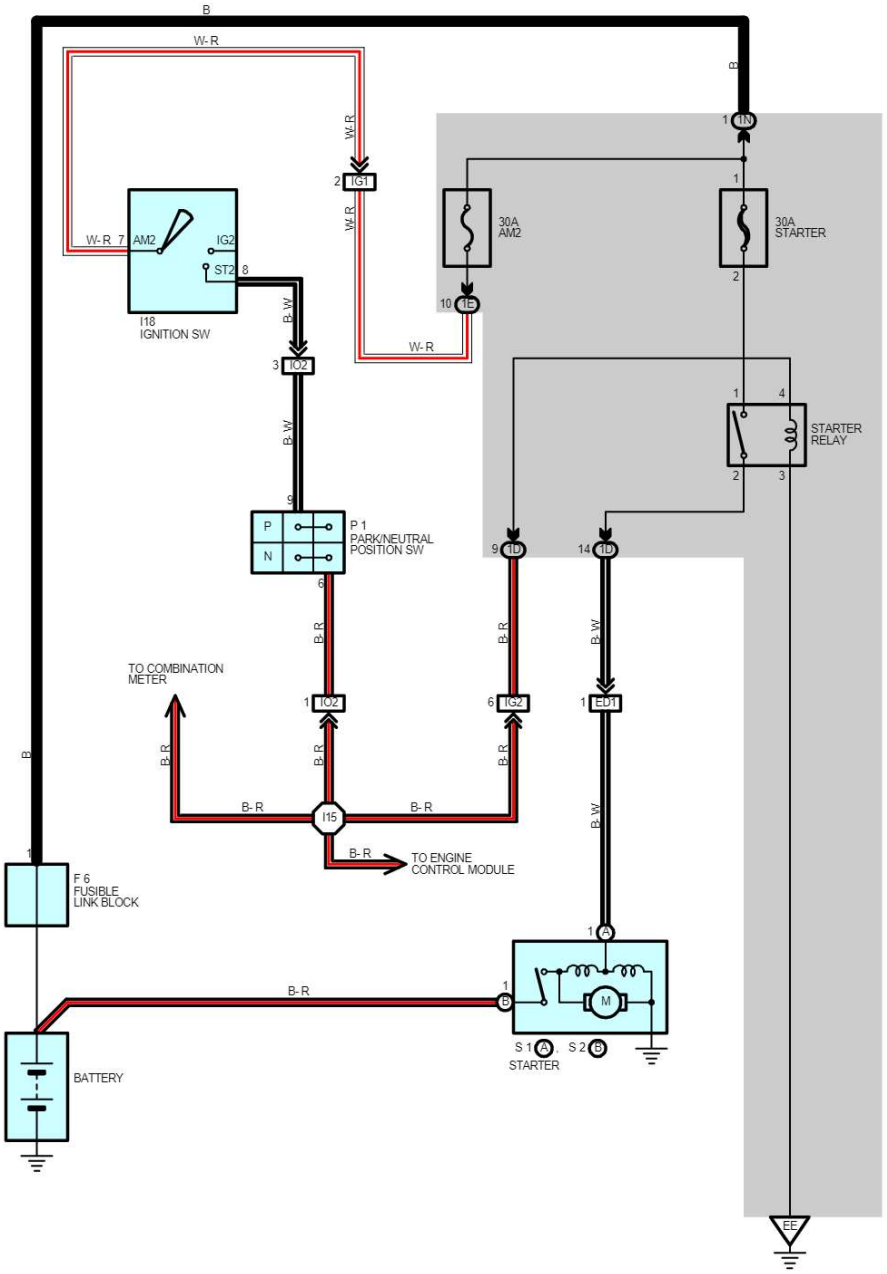
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1E		
1F		
1J	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1M	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)
1N		
1O		
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2F	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2G		
2H		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EE1	46	Engine Room Main Wire and Alternator Wire (Near the Battery)
EG1	46	Engine Room No.2 Wire and Engine Room No.3 Wire (Under the Engine Room J/B)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)

: GROUND POINTS

Code	See Page	Ground Points Location
EE	46	Front Left Side of Fender Apron


B
W-R
1IN
2IG1
W-R
W-R 7 AM2
IG2
ST2 8
I18
IGNITION SW
B-W
3IO2
B-W
9
P
N
P 1
PARK/NEUTRAL
POSITION SW
8
B-R
B-R
B-R
TO COMBINATION
METER
1IO2
6IG2
1ED1
B-R
B-R
B-R
B-R
B-R
I15
B-R
TO ENGINE
CONTROL MODULE
B-W
1
F 6
FUSIBLE
LINK BLOCK
1A
B-R
1B
M
S 1 A S 2 B
STARTER
BATTERY
10 1E
W-R
30A
AM2
30A
STARTER
1
2
1
4
2
3
STARTER
RELAY
9 1D
14 1D
EE

SERVICE HINTS

I18 IGNITION SW

7-8 : Closed with ignition SW at **ST** position

P1 PARK/NEUTRAL POSITION SW

9-6 : Closed with A/T shift lever in **P** or **N** position

S1 (A), S2 (B) STARTER

Points closed with Park/Neutral position SW at **P** or **N** position and ignition SW at **ST** position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
F6	38	P1	39	S2 B	39
I18	40	S1 A	39		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1E		
1N	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

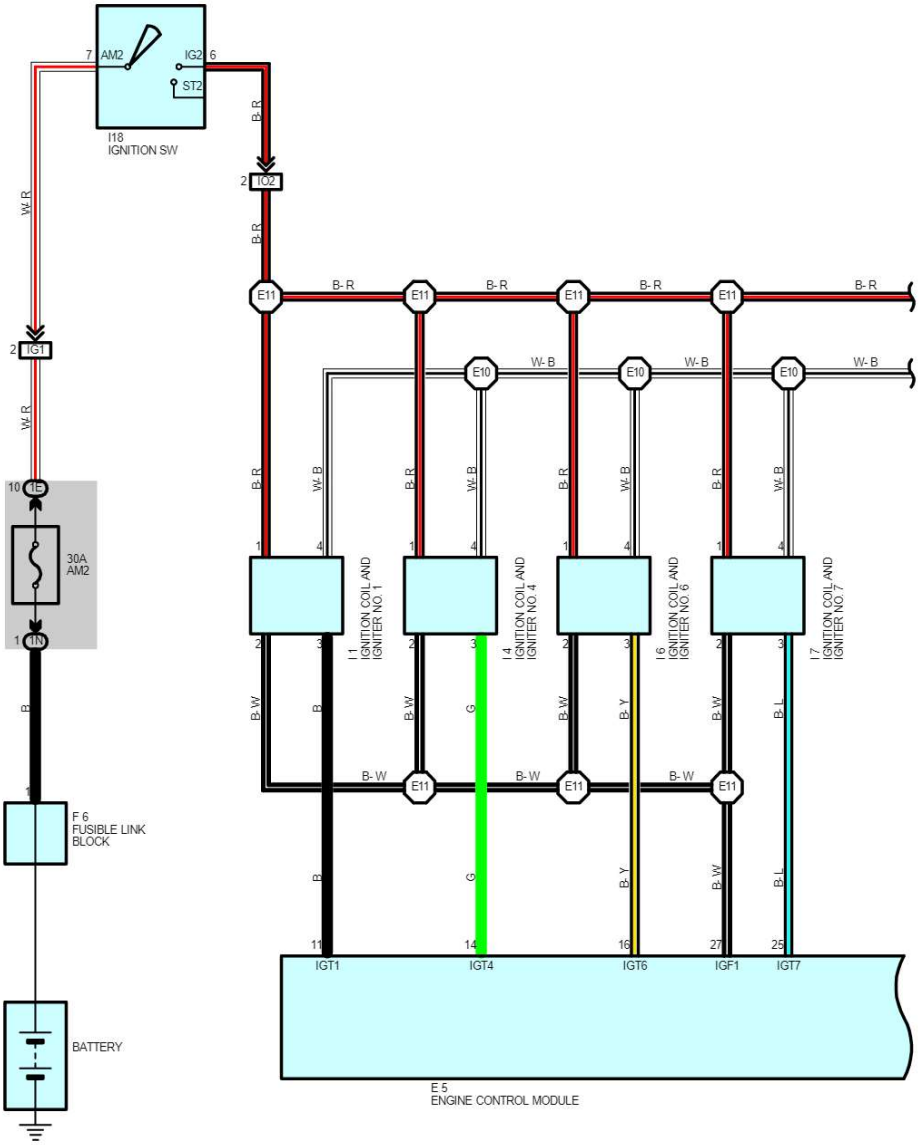
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ED1	46	Engine No.2 Wire and Engine Room No.2 Wire (Near the Engine Room J/B)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG2		
IO2	52	Engine Wire and Dash Wire (Behind the Glove Box)

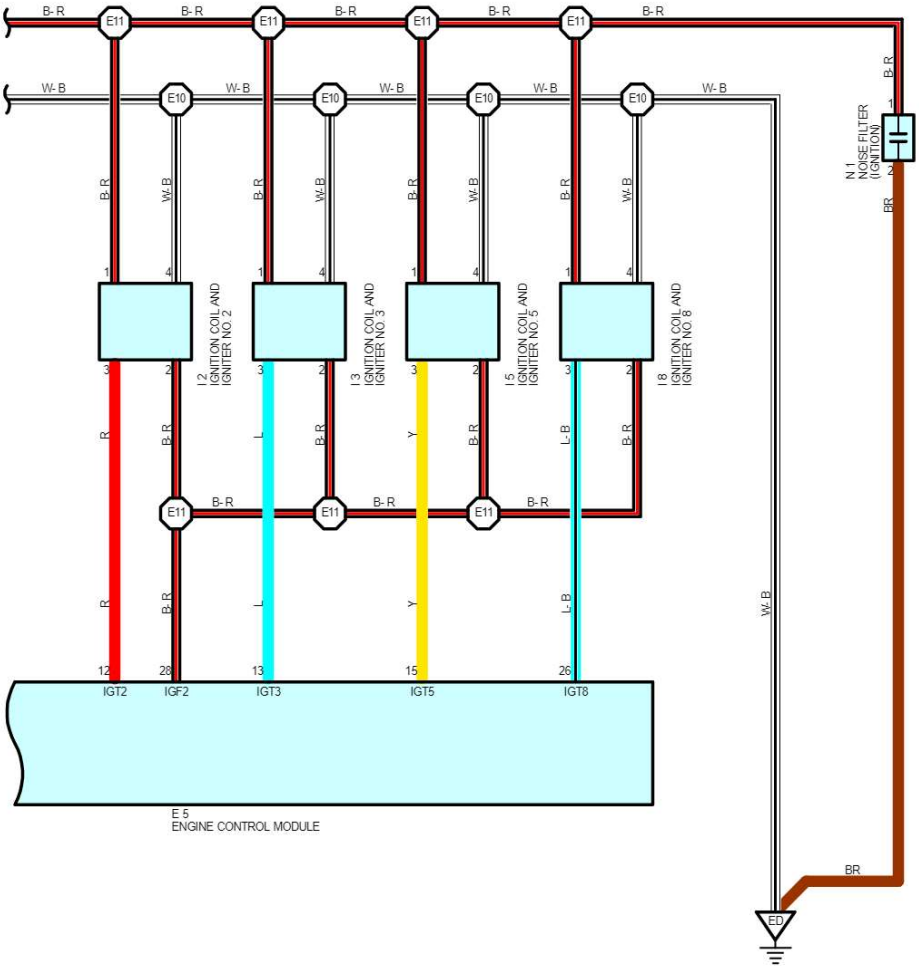
: GROUND POINTS

Code	See Page	Ground Points Location
EE	46	Front Left Side of Fender Apron

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I15	50	Dash Wire			


7 AM2
IG2 6
ST2
I18
IGNITION SW
W-R
B-R
2 TO2
B-R
E11
B-R
E11
B-R
E11
B-R
E11
B-R
2 IG1
W-R
E10
W-B
E10
W-B
E10
W-B
10 1F
30A
AM2
1 1N
B
B-R
W-B
4
I 1
IGNITION COIL AND
IGNITER NO. 1
I 4
IGNITION COIL AND
IGNITER NO. 4
I 6
IGNITION COIL AND
IGNITER NO. 6
I 7
IGNITION COIL AND
IGNITER NO. 7
B-W
R
G
B-Y
B-L
B-W
E11
F 6
FUSIBLE LINK
BLOCK
11
14
16
27
25
IGT1
IGT4
IGT6
IGF1
IGT7
BATTERY
E 5
ENGINE CONTROL MODULE


B-R
E11
W-B
E10
I2 IGNITION COIL AND IGNITER NO.2
I3 IGNITION COIL AND IGNITER NO.3
I5 IGNITION COIL AND IGNITER NO.5
I8 IGNITION COIL AND IGNITER NO.8
N1 NOISE FILTER (IGNITION)
R
L
Y
L-B
BR
IGT2
IGF2
IGT3
IGT5
IGT8
E5 ENGINE CONTROL MODULE
ED

IGNITION

SERVICE HINTS

I18 IGNITION SW

7-6 : Closed with ignition SW at **ON** or **ST** position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
E5	40	I3	39	I7	39
F6	38	I4	39	I8	39
I1	39	I5	39	I18	40
I2	39	I6	39	N1	39

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1N	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

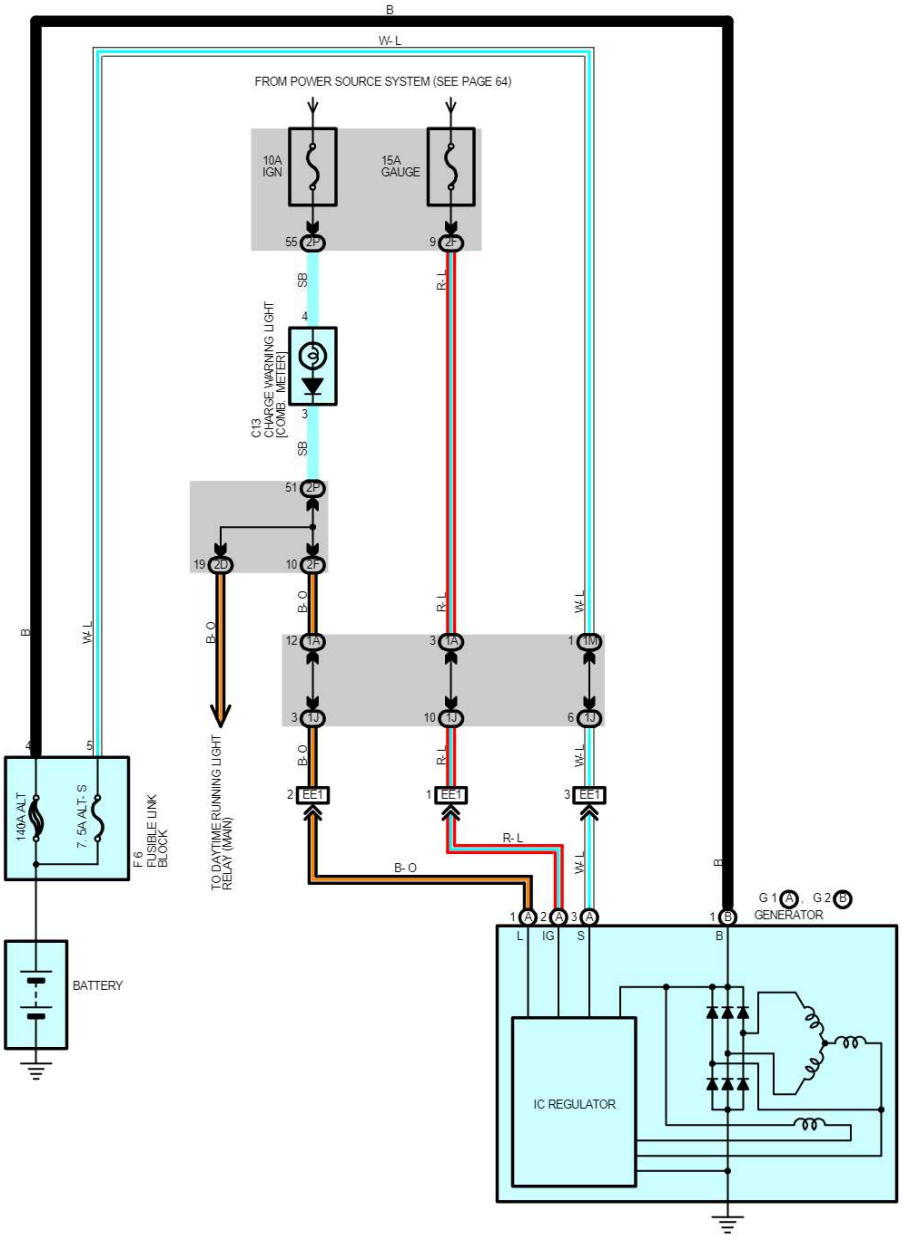
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IO2	52	Engine Wire and Dash Wire (Behind the Glove Box)

: GROUND POINTS

Code	See Page	Ground Points Location
ED	46	Rear Bank of Left Cylinder Head

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	46	Engine Wire	E11	46	Engine Wire


B
W-L
FROM POWER SOURCE SYSTEM (SEE PAGE 64)
10A IGN
15A GAUGE
55 2P
9 2F
SB
R-L
4
C13 CHARGE WARNING LIGHT [COMBI METER]
3
SB
51 2P
19 2D
10 2F
B-O
R-L
W-L
12 1A
3 1A
1 1M
3 1J
10 1J
6 1J
B-O
R-L
W-L
2 EE1
1 EE1
3 EE1
R-L
B-O
W-L
B
TO DAYTIME RUNNING LIGHT RELAY (MAIN)
140A ALT
7.5A ALT-S
F 6 FUSIBLE LINK BLOCK
BATTERY
1 A 2 A 3 A
L IG S
1 B
B
G 1 A , G 2 B
GENERATOR
IC REGULATOR

SERVICE HINTS

G1 GENERATOR

1-GROUND : **13.2- 14.0** volts with engine running at **5000** rpm and **115**°C (**239**°F)

○ : PARTS LOCATION

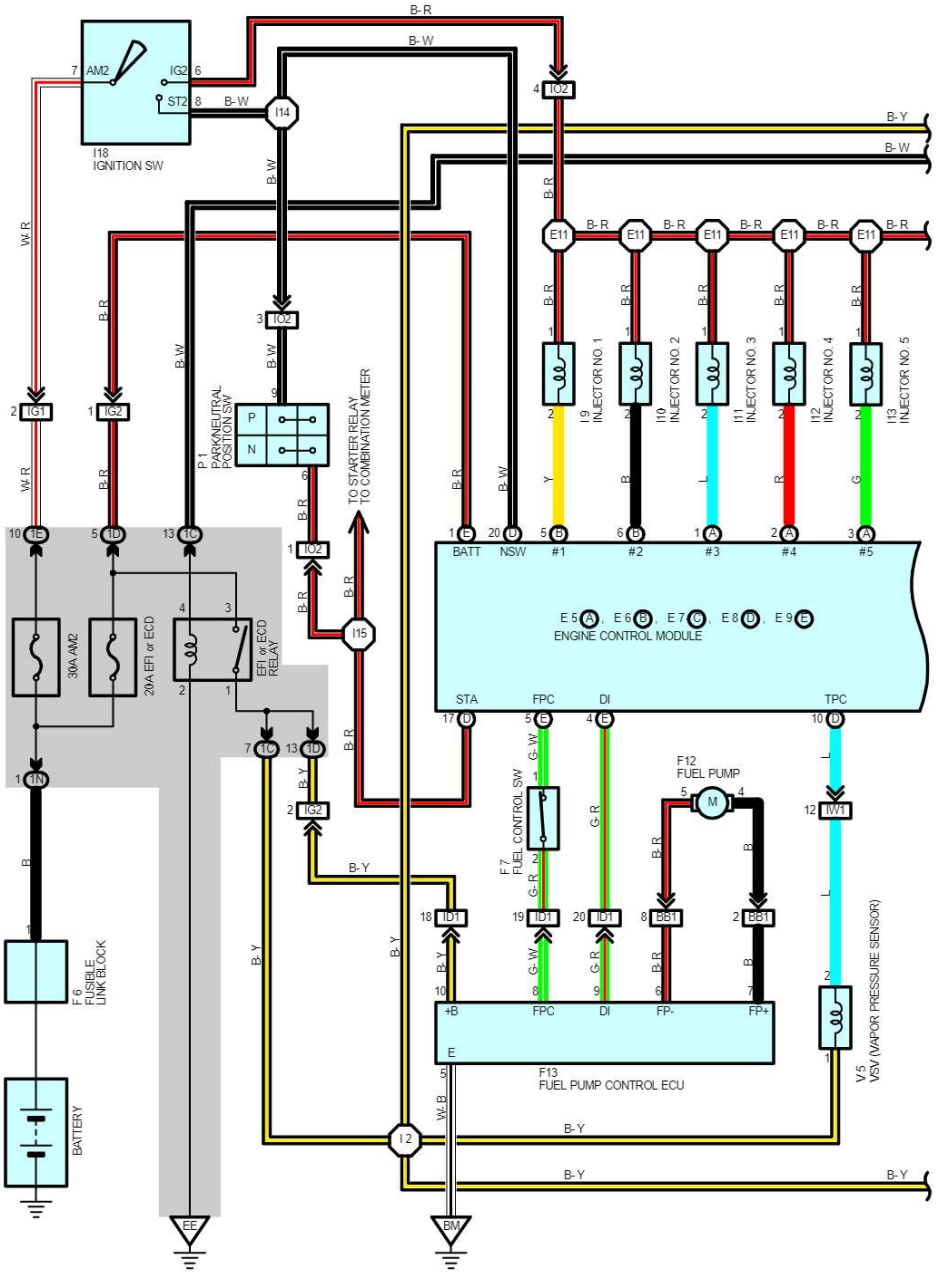
Code	See Page	Code		See Page	Code	See Page
C13	40	G1	A	38		
F6	38	G2	B	38		

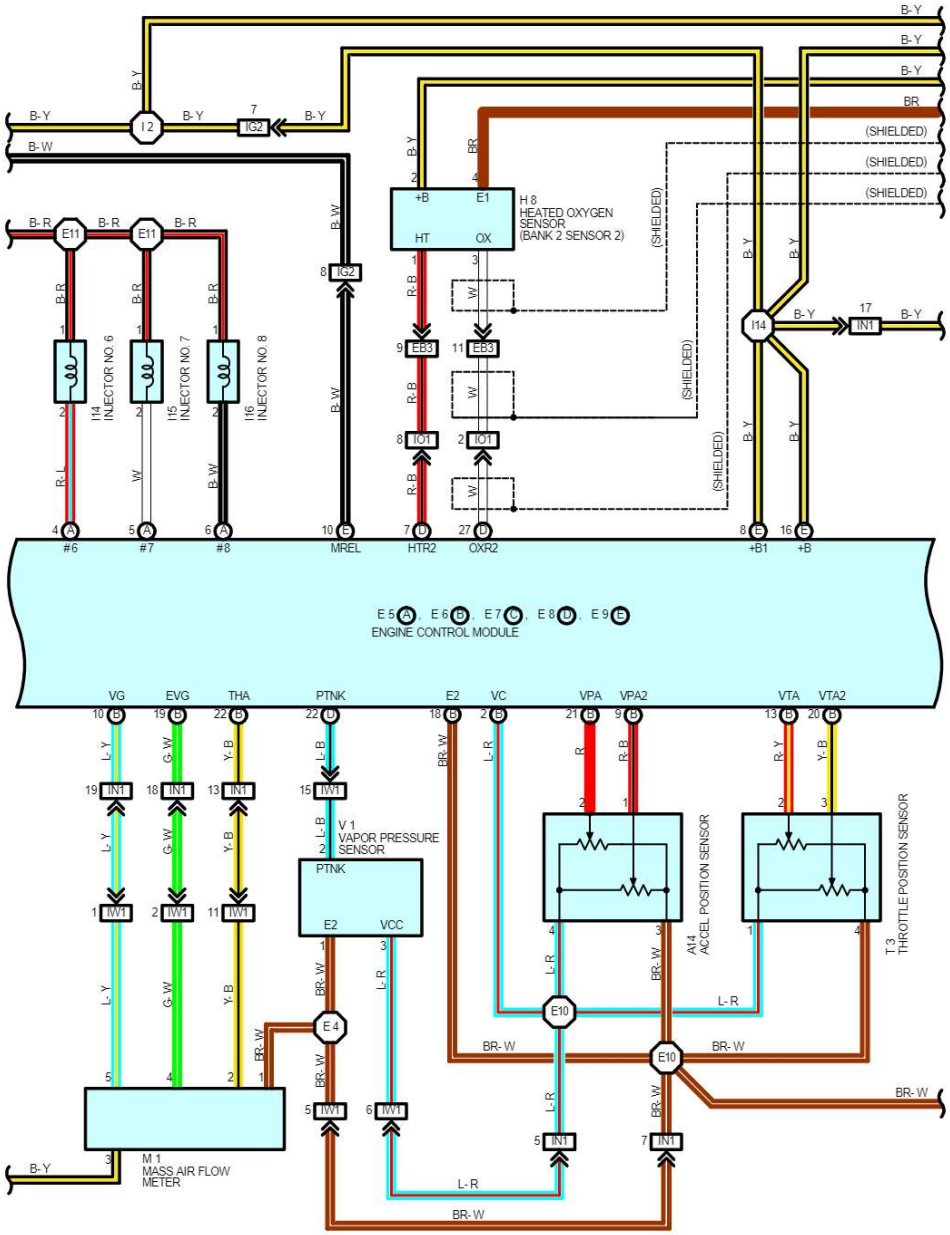
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

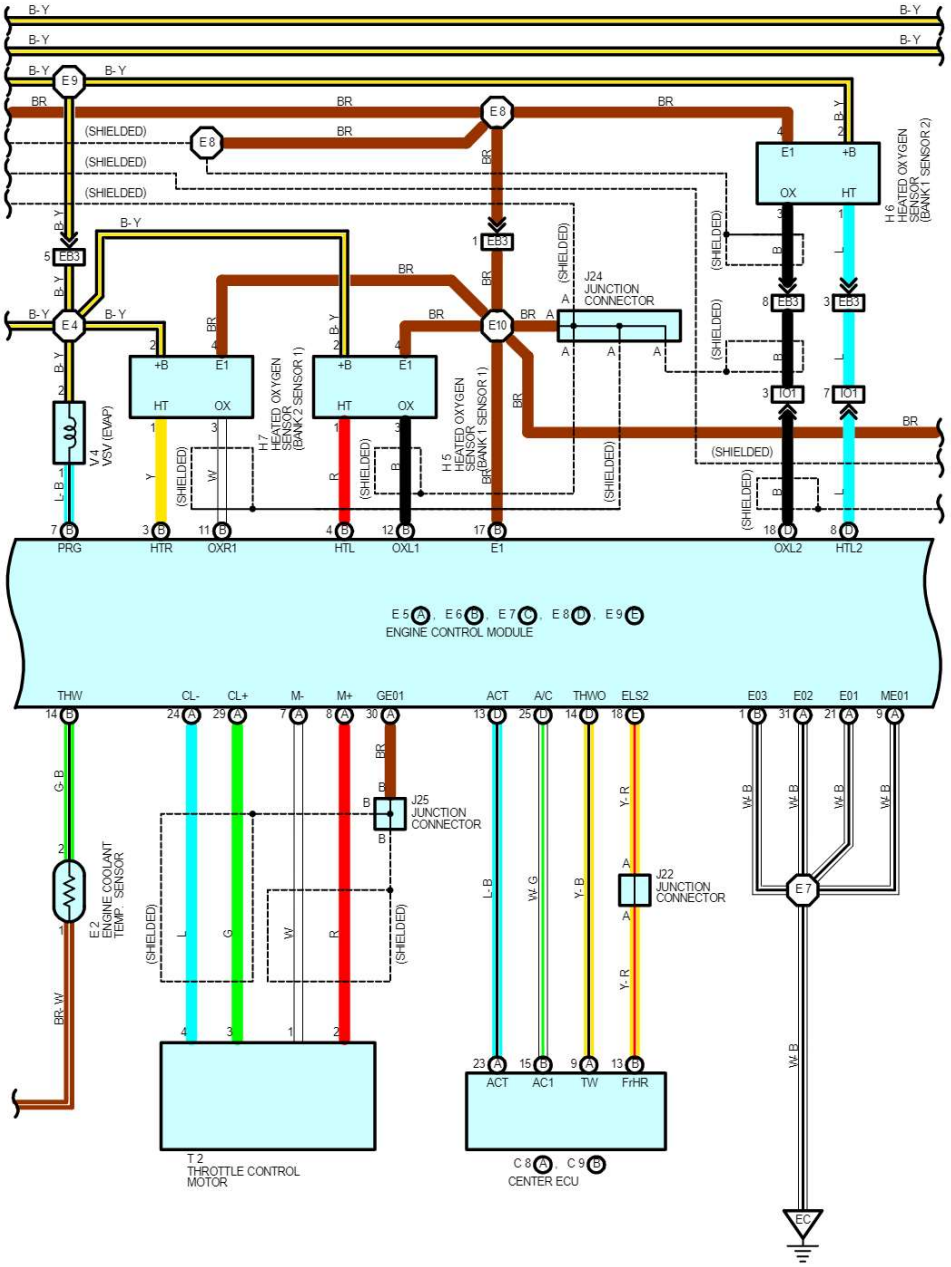
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1J	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1M	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)
2D	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2F	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

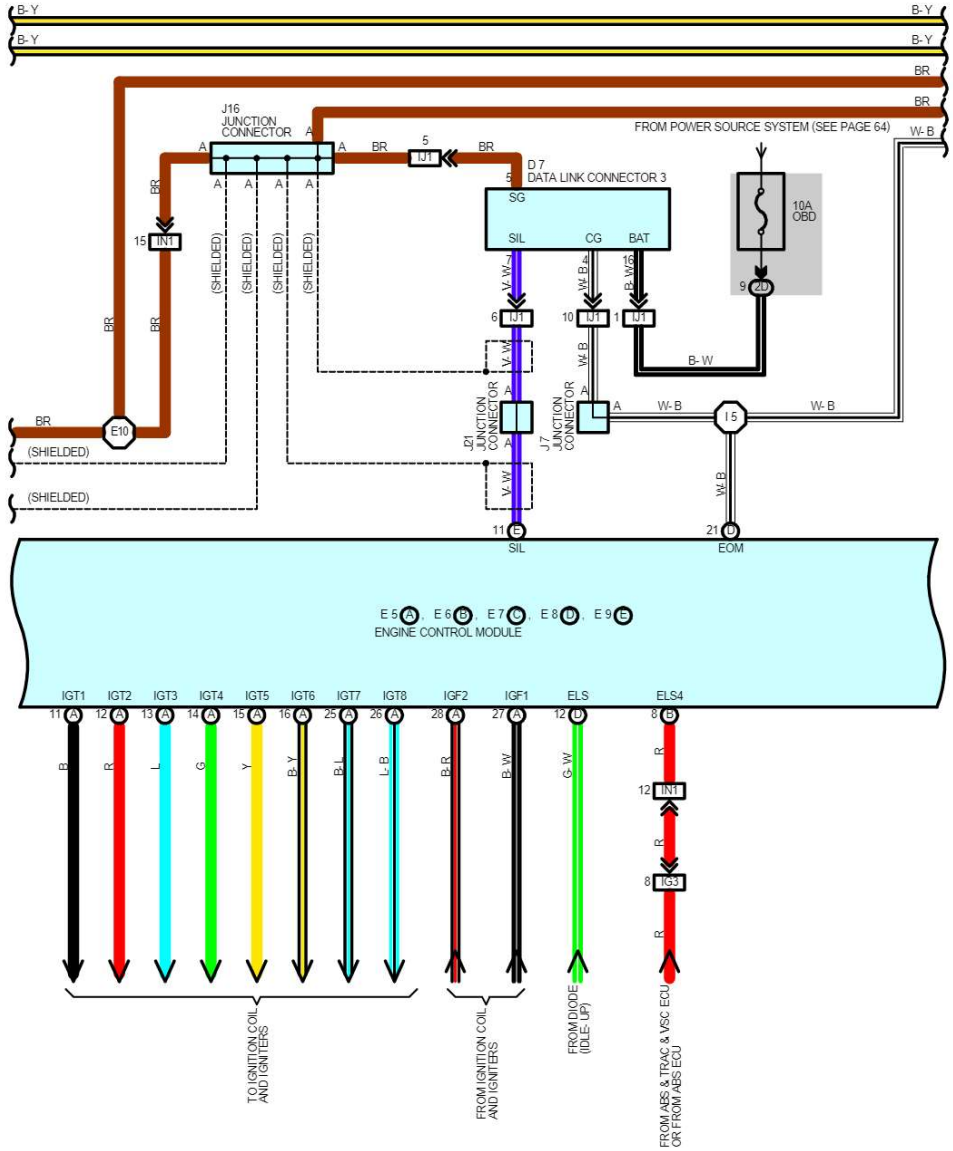
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

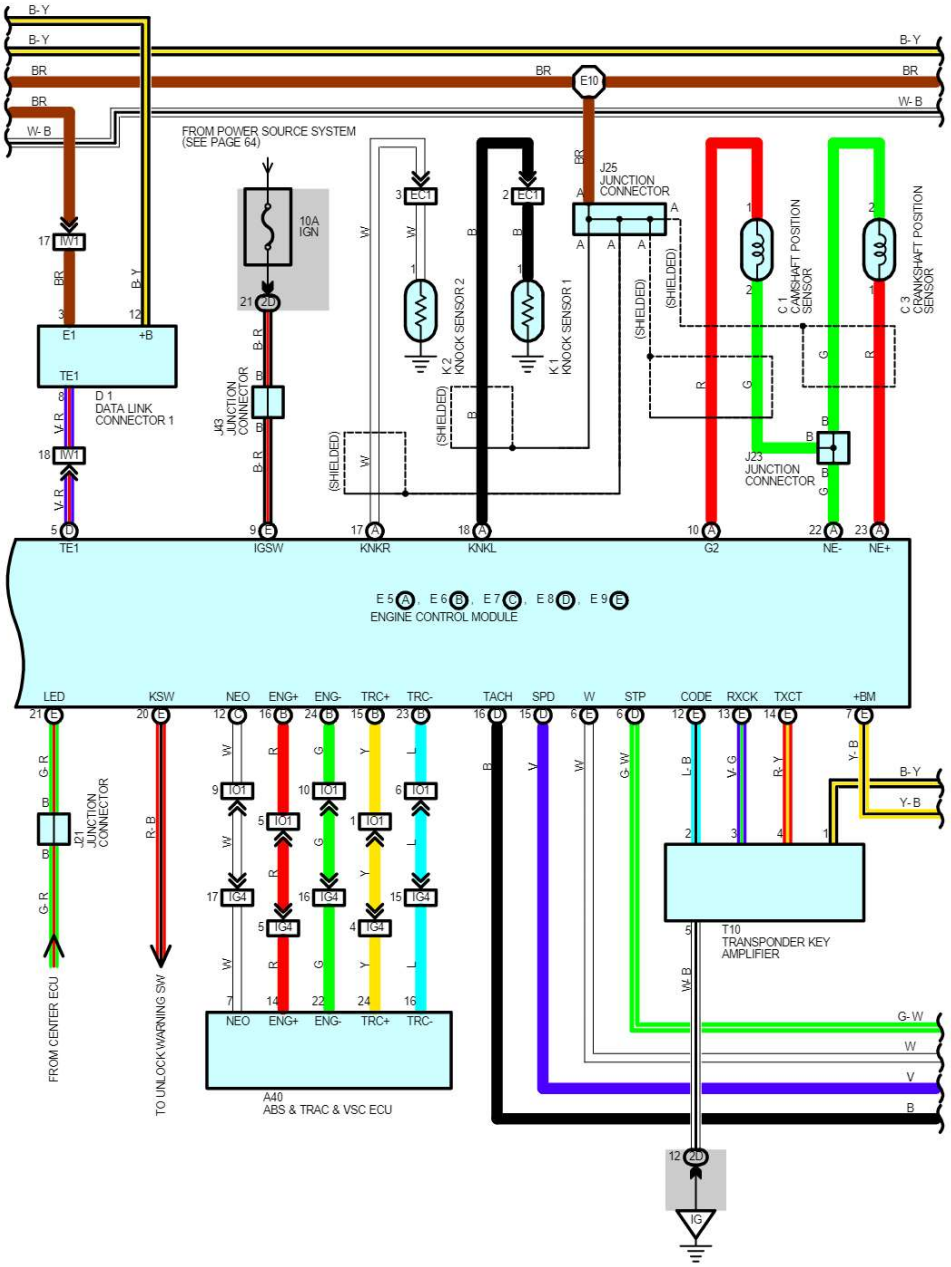
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EE1	46	Engine Room Main Wire and Alternator Wire (Near the Battery)

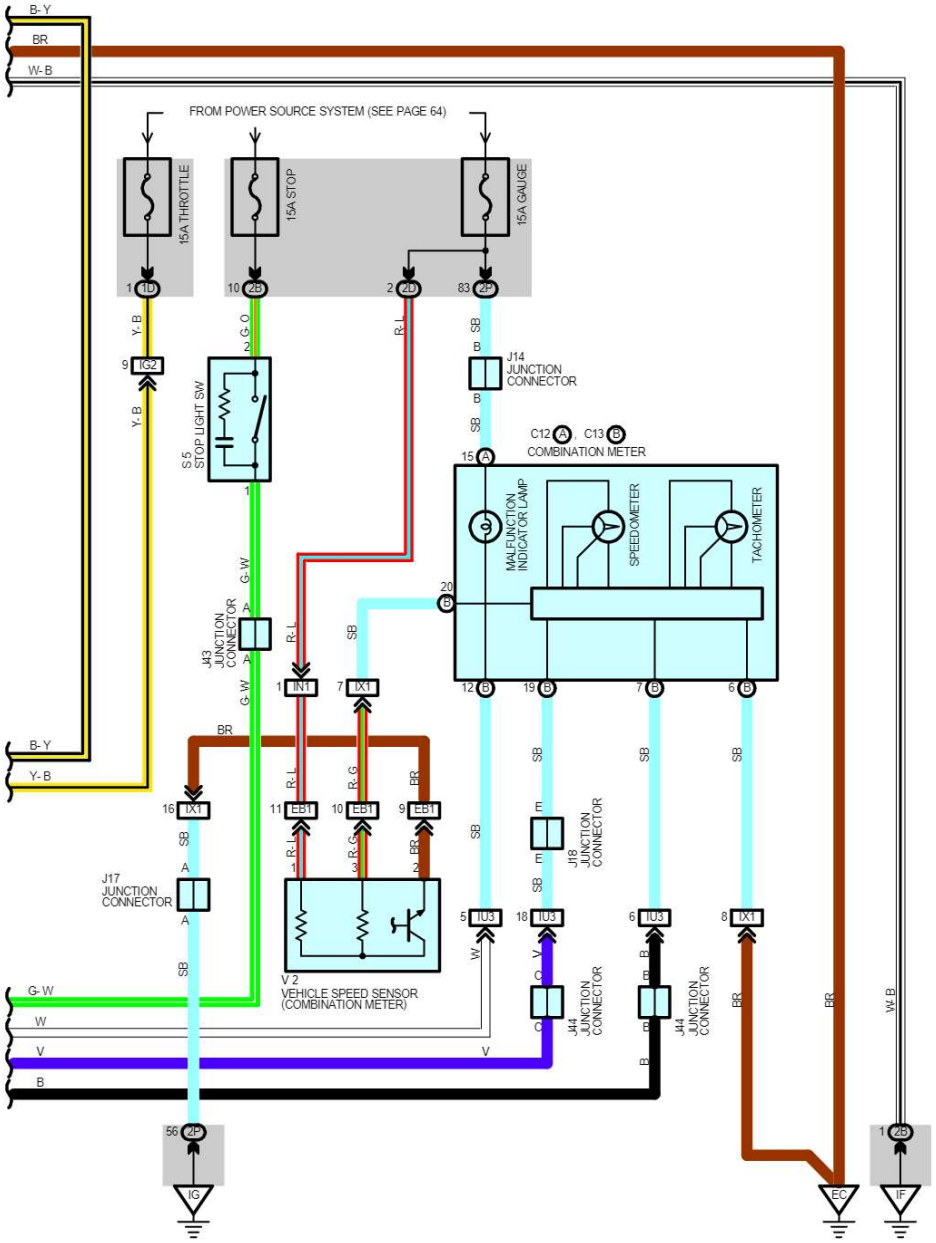

I18
IGNITION SW
AM2
IG2
ST2
I14
B-R
B-W
B-Y
W-R
I9 INJECTOR NO. 1
I10 INJECTOR NO. 2
I11 INJECTOR NO. 3
I12 INJECTOR NO. 4
I13 INJECTOR NO. 5
P 1
PARK/NEUTRAL POSITION SW
TO STARTER RELAY
TO COMBINATION METER
I15
30A AM2
20A EFI or ECD
EFI or ECD RELAY
BATT
NSW
#1
#2
#3
#4
#5
E5 A, E6 B, E7 C, E8 D, E9 E
ENGINE CONTROL MODULE
STA
FPC
DI
TPC
F7
FUEL CONTROL SW
F12
FUEL PUMP
F13
FUEL PUMP CONTROL ECU
+B
FP-
FP+
V5
VSV (VAPOR PRESSURE SENSOR)
F6
FUSIBLE LINK BLOCK
BATTERY
I2
EE
BM


B- Y
B- Y
B- Y
BR
(SHIELDED)
(SHIELDED)
(SHIELDED)
I 2
IG2
B- W
B- R
E11
I14 INJECTOR NO. 6
I15 INJECTOR NO. 7
I16 INJECTOR NO. 8
R- L
W
B- W
#6
#7
#8
MREL
HTR2
OXR2
+B1
+B
H 8
HEATED OXYGEN SENSOR (BANK 2 SENSOR 2)
+B
E1
HT
OX
R- B
W
EB3
IO1
I14
IN1
E5 A, E6 B, E7 C, E8 D, E9 E
ENGINE CONTROL MODULE
VG
EVG
THA
PTNK
E2
VC
VPA
VPA2
VTA
VTA2
L- Y
G- W
Y- B
L- B
BR- W
L- R
R
R- B
R- Y
IW1
V 1
VAPOR PRESSURE SENSOR
A14
ACCEL POSITION SENSOR
T 3
THROTTLE POSITION SENSOR
E 4
E10
M 1
MASS AIR FLOW METER


B-Y
BR
(SHIELDED)
E9
E8
E4
E10
EB3
J24 JUNCTION CONNECTOR
H6 HEATED OXYGEN SENSOR (BANK 1 SENSOR 2)
H7 HEATED OXYGEN SENSOR (BANK 2 SENSOR 1)
H5 HEATED OXYGEN SENSOR (BANK 1 SENSOR 1)
V4 VSV (EVAP)
PRG
HTR
OXR1
HTL
OXL1
E1
OXL2
HTL2
E5 A, E6 B, E7 C, E8 D, E9 E
ENGINE CONTROL MODULE
THW
CL-
CL+
M-
M+
GE01
ACT
A/C
THWO
ELS2
E03
E02
E01
ME01
J25 JUNCTION CONNECTOR
J22 JUNCTION CONNECTOR
E2 ENGINE COOLANT TEMP. SENSOR
T2 THROTTLE CONTROL MOTOR
C8 A, C9 B
CENTER ECU
EC


B-Y
B-Y
BR
J16
JUNCTION
CONNECTOR
FROM POWER SOURCE SYSTEM (SEE PAGE 64)
W-B
D 7
DATA LINK CONNECTOR 3
SG
SIL
CG
BAT
10A
OBD
(SHIELDED)
V-W
W-B
B-W
J21
JUNCTION
CONNECTOR
J7
JUNCTION
CONNECTOR
E10
I5
W-B
E5 A, E6 B, E7 C, E8 D, E9 E
ENGINE CONTROL MODULE
IGT1
IGT2
IGT3
IGT4
IGT5
IGT6
IGT7
IGT8
IGF2
IGF1
ELS
ELS4
R
L
G
Y
B-Y
B-L
L-B
B-R
B-W
G-W
IN1
IG3
TO IGNITION COIL
AND IGNITERS
FROM IGNITION COIL
AND IGNITERS
FROM DIODE
(IDLE-UP)
FROM ABS & TRAC & VSC ECU
OR FROM ABS ECU


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
10A IGN
J25 JUNCTION CONNECTOR
C 1 CAMSHAFT POSITION SENSOR
C 3 CRANKSHAFT POSITION SENSOR
K 2 KNOCK SENSOR 2
K 1 KNOCK SENSOR 1
D 1 DATA LINK CONNECTOR 1
J43 JUNCTION CONNECTOR
J23 JUNCTION CONNECTOR
(SHIELDED)
TE1
IGSW
KNKR
KNKL
G2
NE-
NE+
E5 A, E6 B, E7 C, E8 D, E9 E
ENGINE CONTROL MODULE
LED
KSW
NEO
ENG+
ENG-
TRC+
TRC-
TACH
SPD
W
STP
CODE
RXCK
TXCT
+BM
J21 JUNCTION CONNECTOR
FROM CENTER ECU
TO UNLOCK WARNING SW
T10 TRANSPONDER KEY AMPLIFIER
A40 ABS & TRAC & VSC ECU
IG


B-Y
BR
W-B
FROM POWER SOURCE SYSTEM (SEE PAGE 64)
15A THROTTLE
15A STOP
15A GAUGE
1 1D
10 2B
2 2D
83 2F
Y-B
G-W-O
R-L
SB
9 IG2
S-5 STOP LIGHT SW
J14 JUNCTION CONNECTOR
C12 A , C13 B
COMBINATION METER
15 A
MALFUNCTION INDICATOR LAMP
SPEEDOMETER
TACHOMETER
20 B
G-W
J43 JUNCTION CONNECTOR
1 IN1
7 IX1
12 B
19 B
7 B
6 B
BR
R-G
16 IX1
11 EB1
10 EB1
9 EB1
J17 JUNCTION CONNECTOR
J18 JUNCTION CONNECTOR
5 IU3
18 IU3
6 IU3
8 IX1
V 2
VEHICLE SPEED SENSOR (COMBINATION METER)
W
V
B
J44 JUNCTION CONNECTOR
56 2F
1 2B
IG
EC
IF
W-B

SYSTEM OUTLINE

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

1. INPUT SIGNALS

(1) Engine coolant temp. signal circuit

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

(2) Intake air temp. signal circuit

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

(3) Oxygen sensor signal circuit

The oxygen density in the exhaust emission is detected and is input as a control signal from the heated oxygen sensors to TERMINALS OXL1, OXR1, OXL2, OXR2 of the engine control module.

(4) RPM signal circuit

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

(5) Throttle position sensor signal circuit

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

(6) Vehicle speed circuit

The vehicle speed sensor (Combination meter) detects the vehicle speed, and the signal is input 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 through the EFI or ECD relay, to TERMINALS +B, +B1 of the engine control module. The current from the IGN fuse flows to TERMINAL IGSW of the engine control module, and voltage is constantly applied to TERMINAL +BM.

(8) Intake air volume signal circuit

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

(9) Stop light SW signal circuit

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

(10) Starter signal circuit

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

(11) Engine knock signal circuit

Engine knocking is detected by the knock sensors, and is input into TERMINALS KNKL, KNKR of the engine control module as a control signal.

2. CONTROL SYSTEM

- SFI system
  The SFI system monitors the engine condition through the signals input from each sensors to the engine control module. The control signal is sent to the engine control module TERMINALS #1, #2, #3, #4, #5, #6, #7, #8 to operate the injector (Fuel injection). The SFI system controls the fuel injection by the engine control module in response to the driving conditions.
- ESA system
  The ESA system monitors the engine condition through the signals input from each sensors to the engine control module. The best ignition timing is decided according to this data and the data memorized in the engine control module. The control signal is output to TERMINALS IGT1, IGT2, IGT3, IGT4, IGT5, IGT6, IGT7, IGT8, and these signals control the igniter to provide the best ignition timing.
- Heated oxygen sensor heater control system
  The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the heated oxygen sensors to improve their detection performance. The engine control module evaluates the signals from each sensors, and outputs current to TERMINALS HTL, HTR, HTL2, HTR2 to control the heater.
- Fuel pump control system
  The engine control module supplies current to TERMINAL FPC, and controls the operation speed of the fuel pump with the fuel pump control ECU.
- ACIS
  The ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages, for increased engine output in all ranges from low to high speeds.
- ETCS-i
  The ETCS-i controls the engine output at its optimal level in accordance with the opening of the accelerator pedal, under all driving conditions.

3. DIAGNOSIS SYSTEM

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

4. FAIL-SAFE SYSTEM

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

SERVICE HINTS

EFI OR ECD RELAY

1-3 : Closed with ignition SW at **ON** or **ST** position

E2 ENGINE COOLANT TEMP. SENSOR

1-2 : Approx. **16.2** kΩ (**-20** °C, **-4** °F)
: Approx. **2.45** kΩ (**20**°C, **68**°F)
: Approx. **0.32** kΩ (**80**°C, **176**°F)

E6 (B), E8 (D), E9 (E) ENGINE CONTROL MODULE

BATT-E1 : Always **9.0- 14.0** volts
+BM-E1 : Always **9.0- 14.0** volts
IGSW-E1 : **9.0- 14.0** volts with ignition SW at **ON** or **ST** position
+B, +B1-E1: **9.0- 14.0** volts with ignition SW at **ON** or **ST** position
VC-E2 : **4.5- 5.5** volts with ignition SW on
VTA2-E2 : **2.0- 2.9** volts with ignition SW on and throttle valve fully closed
: **4.6- 5.0** volts with ignition SW on and throttle valve fully opened
VTA-E2 : **0.4- 1.0** volts with ignition SW on and throttle valve fully closed
: **3.2- 4.8** volts with ignition SW on and throttle valve fully opened
VPA-E2 : **0.25- 0.9** volts with ignition SW at on and accelerator fully closed
: **3.2- 4.8** volts with ignition SW at on and accelerator fully opened
VPA2-E2 : **1.8- 2.7** volts with ignition SW at on and accelerator fully closed
: **4.7- 5.0** volts with ignition SW at on and accelerator fully opened
THA-E2 : **0.5- 3.4** volts with idling, intake air temp. **20**°C (**68**°F)
THW-E2 : **0.2- 1.0** volts with idling, coolant temp. **80**°C (**176**°F)
STA-E1 : **6.0** volts or more with cranking
TE1-E1 : **9.0- 14.0** volts with ignition SW on
W-E1 : **9.0- 14.0** volts with idling
: **0- 3.0** volts with ignition SW on

○ : **PARTS LOCATION**

Code	See Page	Code	See Page	Code	See Page
A14	38	F13	42	J21	41
A40	40	H5	39	J22	41
C1	38	H6	39	J23	41
C3	38	H7	39	J24	41
C8 A	40	H8	39	J25	41
C9 B	40	I9	39	J43	41
C12 A	40	I10	39	J44	41
C13 B	40	I11	39	K1	39
D1	38	I12	39	K2	39
D7	40	I13	39	M1	39
E2	38	I14	39	P1	39
E5 A	40	I15	39	S5	41
E6 B	40	I16	39	T2	39
E7 C	40	I18	40	T3	39
E8 D	40	J7	41	T10	41
E9 E	40	J14	41	V1	39
F6	38	J16	41	V2	39
F7	40	J17	41	V4	39
F12	42	J18	41	V5	39

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1D		
1E		
1N	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

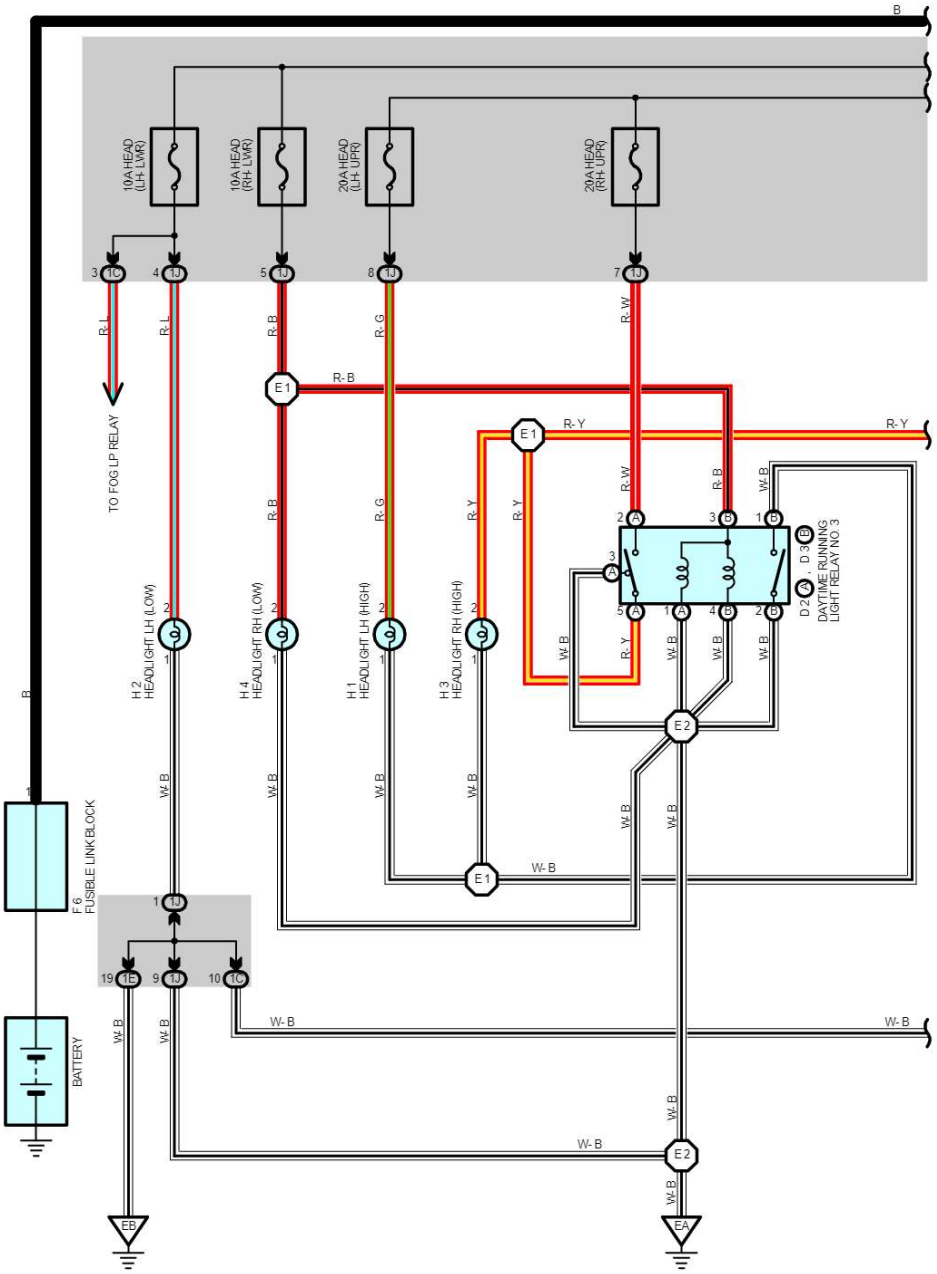
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	46	Engine Wire and Transmission Wire (On the Transmission)
EB3		
EC1	46	Engine No.2 Wire and Engine Wire (On the Transmission)
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG2		
IG3		
IG4		
IJ1	50	Dash Wire and Detector Wire (Instrument Panel Center)
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
IO1		
IO2		
IU3	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IX1	54	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
BB1	56	Floor Wire and Fuel Tank Wire (Near the Fuel Tank)

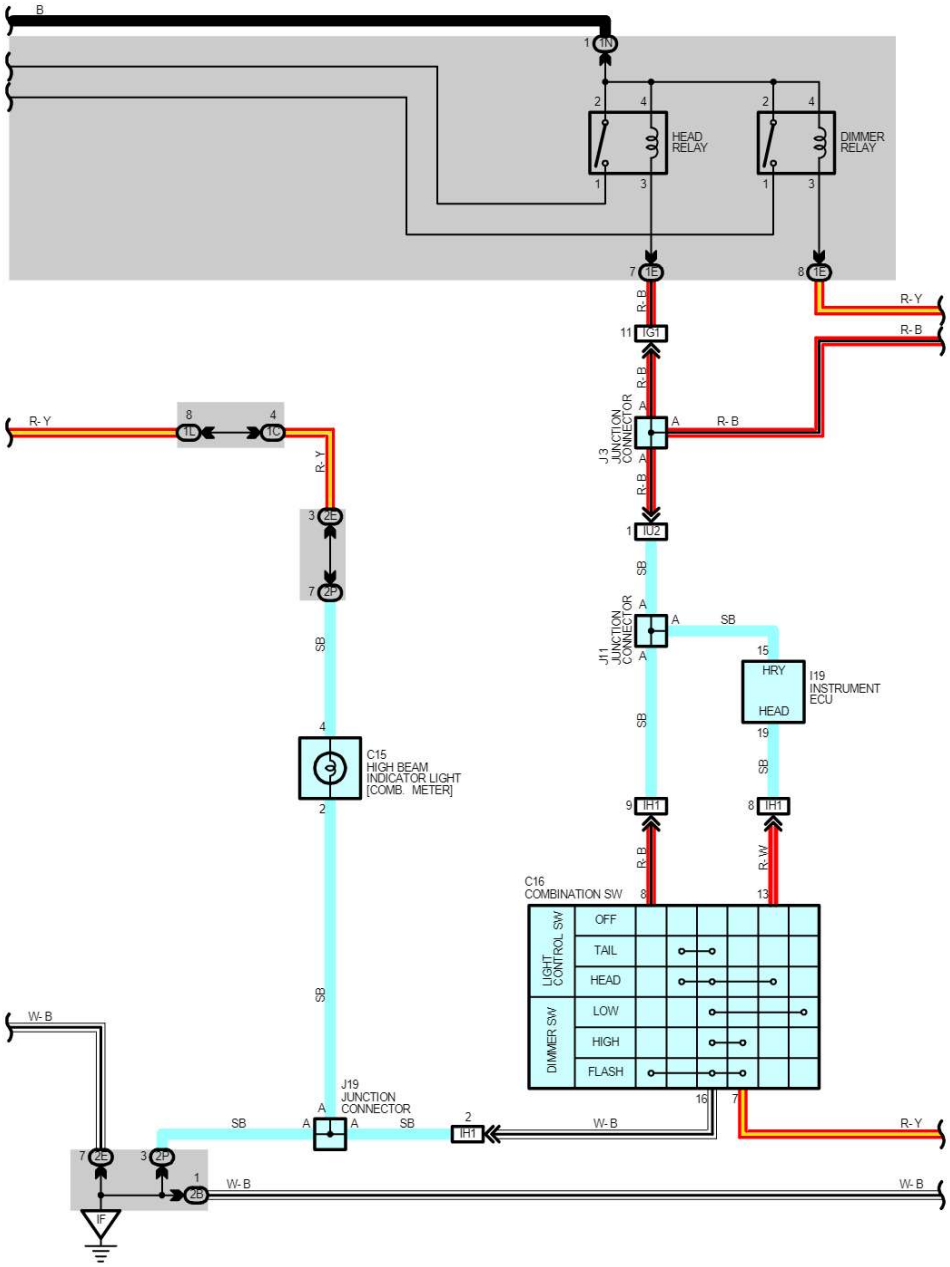
: GROUND POINTS

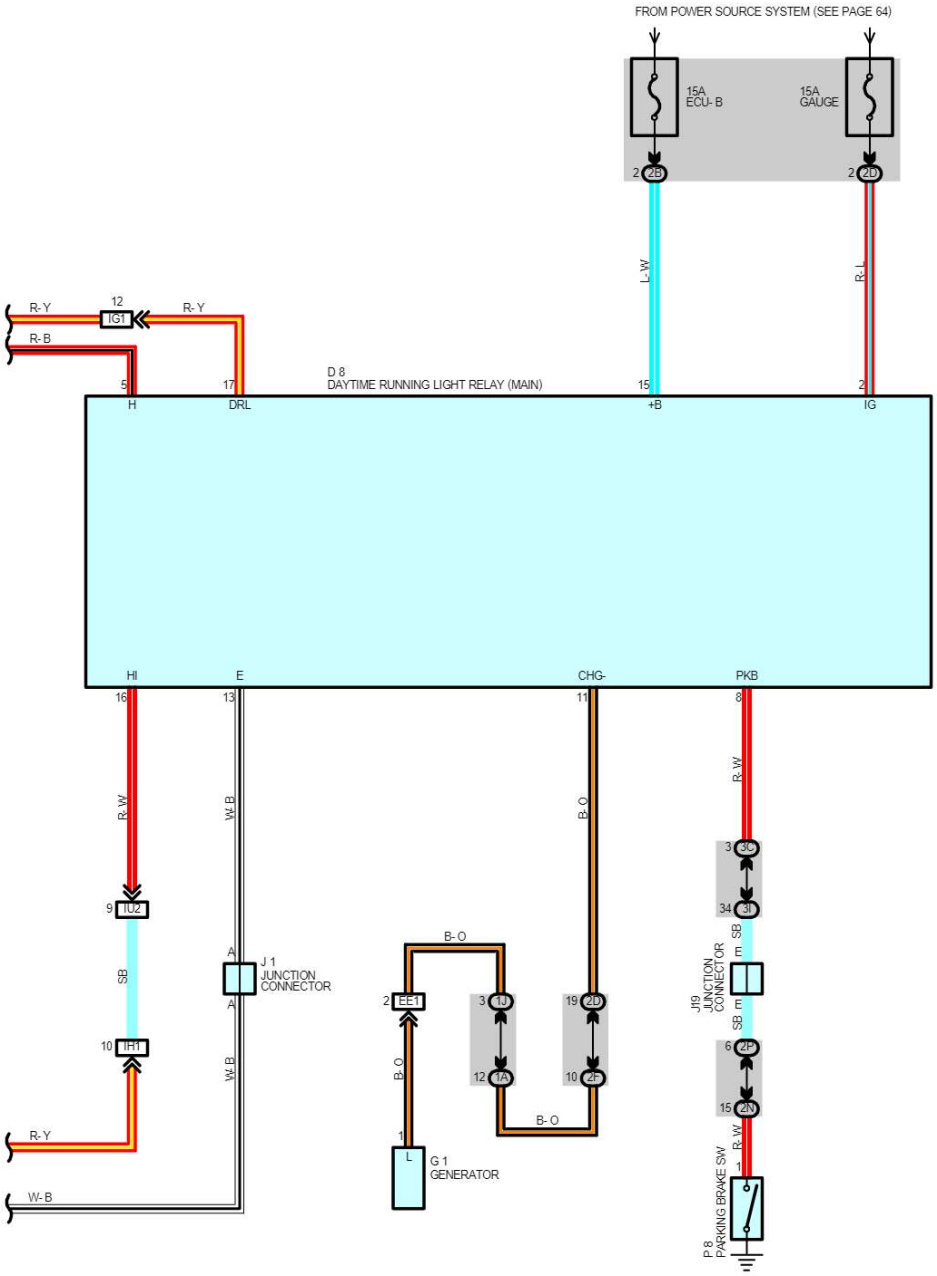
Code	See Page	Ground Points Location
EC	46	Rear Bank of Right Cylinder Head
EE	46	Front Left Side of Fender Apron
IF	48	Set Bolt of Cowl Side J/B LH
IG		
BM	56	Left Rear Side Quarter Panel

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E4	46	Engine Room No.2 Wire	E11	46	Engine Wire
E7	46	Engine Wire	I2	50	Engine Room No.2 Wire
E8	46	Transmission Wire	I5	50	Dash Wire
E9			I14		
E10	46	Engine Wire	I15		


B
10A HEAD (LH- LWR)
10A HEAD (RH- LWR)
20A HEAD (LH- UPR)
20A HEAD (RH- UPR)
TO FOG LP RELAY
H 2 HEADLIGHT LH (LOW)
H 4 HEADLIGHT RH (LOW)
H 1 HEADLIGHT LH (HIGH)
H 3 HEADLIGHT RH (HIGH)
DAYTIME RUNNING LIGHT RELAY NO 3
F 6 FUSIBLE LINK BLOCK
BATTERY
E1
E2
EB
EA
R-L
R-B
R-G
R-W
R-Y
W-B


B
1IN
HEAD RELAY
DIMMER RELAY
7IE
8IE
R-Y
R-B
11IG1
J3 JUNCTION CONNECTOR
1IU2
J11 JUNCTION CONNECTOR
HRY
HEAD
I19 INSTRUMENT ECU
C15 HIGH BEAM INDICATOR LIGHT [COMB. METER]
9IH1
8IH1
C16 COMBINATION SW
LIGHT CONTROL SW
OFF
TAIL
HEAD
DIMMER SW
LOW
HIGH
FLASH
W-B
SB
R-W
J19 JUNCTION CONNECTOR
2IH1
2E
2F
2B
IF


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
15A
ECU- B
15A
GAUGE
2B
2D
L- W
R- L
R- Y
12
TG1
R- Y
R- B
5
H
17
DRL
D 8
DAYTIME RUNNING LIGHT RELAY (MAIN)
15
+B
2
IG
HI
E
CHG-
PKB
16
13
11
8
R- W
W- B
B- O
R- W
9
TH2
A
J 1
JUNCTION
CONNECTOR
A
3
5C
34
5H
SB
B
J19
JUNCTION
CONNECTOR
SB
B
10
TH1
W- B
B- O
2
EE1
3
1J
12
1A
19
2D
10
2F
6
2P
15
2N
R- W
1
L
G 1
GENERATOR
B- O
B- O
R- Y
W- B
P 8
PARKING BRAKE SW

SYSTEM OUTLINE

1. DAYTIME RUNNING LIGHT OPERATION

When the engine is started, a signal from the generator is input to daytime running light relay (Main) TERMINAL 11.
At this time, if the parking brake lever is pulled up, the relay does not operate, so the daytime running light system does not operate. When the parking brake lever is released, a signal is input to daytime running light relay (Main) TERMINAL 8. This activates the daytime running light relay (Main), and turns on the DIMMER relay. The current from the battery flows through the fusible link block to DIMMER relay (Point side) to HEAD (LH-UPR) fuse to headlight LH (High) to headlight RH (High) to daytime running light relay No.3 TERMINAL (A) 5 to TERMINAL (A) 3 to GROUND, and the headlights are lit dimmer than usual. Once the daytime running light system is operated, the headlights remain lit even though the parking brake lever is pulled up. The headlights remain lit even when the engine stops with the ignition SW on, and the signal from the generator is cut off. When the ignition SW is turned from on to off, the daytime running light system is canceled and the headlights are turned off. If the engine is started with the parking brake lever released, the daytime running light system operates and the headlights are turned on when the engine starts running.

2. HEADLIGHT OPERATION

* When the light control SW is turned to HEAD position
  When the light control SW is turned to HEAD position, the HEAD relay is turned on. At the same time, a signal is input to the daytime running light relay (Main) TERMINAL 5.
  As a result, the daytime running light relay (Main) cancels the daytime running light system operation, and turns off the headlight LH, RH (High).
  Simultaneously, the current from the battery flows from the fusible link block to HEAD relay (Point side) to HEAD (LH-L WR), HEAD (RH-LWR) fuse to headlight LH, RH (Low) to GROUND, and turns on the headlights at normal brightness.
* When the dimmer SW is turned to HIGH position
  When the light control SW is turned to HEAD position, the low beam of the headlights are turned on, and at the same time, current flows from HEAD (RH-LWR) fuse to daytime running light relay No.3 (Coil side) to GROUND, and turns on the daytime running light relay No.3.
  When the dimmer SW is turned to HIGH position, a signal is input to daytime running light relay (Main) TERMINAL 16. This activates the DIMMER relay, and the current from the battery flows from the fusible link block to DIMMER relay (Point side) to HEAD (LH-UPR) fuse to headlight LH (High) to daytime running light relay No.3 TERMINAL (B) 2 to TERMINAL (B) 1 to GROUND. At the same time the current flows from DIMMER relay (Point side) to HEAD (RH-UPR) fuse to daytime running light relay No.3 TERMINAL (A) 2 to TERMINAL (A) 5 to headlight RH (High) to daytime running light relay No.3 TERMINAL (B) 2 to TERMINAL (B) 1 to GROUND. Also current flows from the daytime running light relay No.3 TERMINAL (A) 3 to TERMINAL (A) 5 to combination meter TERMINAL 4 to TERMINAL 2 to GROUND. As a result the headlight high beam, low beam, and high beam indicator light are turned on simultaneously.
* When the dimmer SW is turned to FLASH position
  When the dimmer SW is turned to FLASH position, the HEAD relay is turned on, the daytime running light system is canceled and the daytime running light relay No.3 is turned on, as when the light control SW is turned to HEAD position. At the same time, the DIMMER relay is turned on as when the dimmer SW is turned to HIGH position. As a result, the headlight high beam, low beam, and high beam indicator light are turned on simultaneously.

SERVICE HINTS

HEAD RELAY

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

DIMMER RELAY

1-2 : Closed with daytime running light operation
: Closed with light control SW at **HEAD** position and dimmer SW at **HIGH** position
: Closed with dimmer SW at **FLASH** position

C16 COMBINATION SW

13-16 : Closed with light control SW at **HEAD** position
8-16 : Closed with dimmer SW at **FLASH** position
7-16 : Closed with dimmer SW at **HIGH** or **FLASH** position

HEADLIGHT

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C15	40	G1	38	J1	41
C16	40	H1	39	J3	41
D2 A	38	H2	39	J11	41
D3 B	38	H3	39	J19	41
D8	40	H4	39	P8	43
F6	38	I19	40		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
1E		
1J	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1L		
1N	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2F		
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3C	32	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EE1	46	Engine Room Main Wire and Alternator Wire (Near the Battery)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
IU2	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)

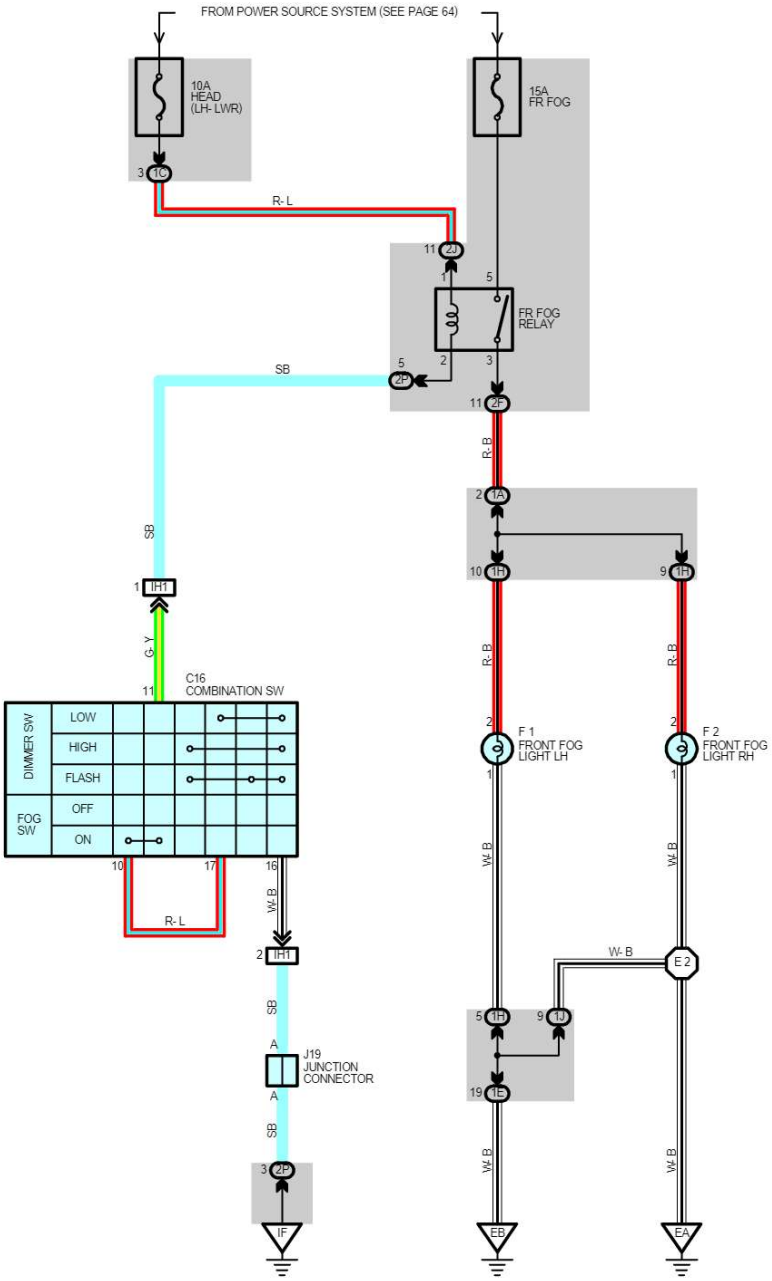
: GROUND POINTS

Code	See Page	Ground Points Location
EA	46	Front Right Side of Fender Apron
EB		
IF	48	Set Bolt of Cowl Side J/B LH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	46	Engine Room Main Wire	E2	46	Engine Room Main Wire

FRONT FOG LIGHT



SERVICE HINTS

FR FOG RELAY

5-3 : Closed with light control SW at **HEAD** position, dimmer SW at **LOW** position and fog SW at **ON** position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C16	40	F2	38		
F1	38	J19	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
1E		
1H	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1J		
2F	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2J		
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)

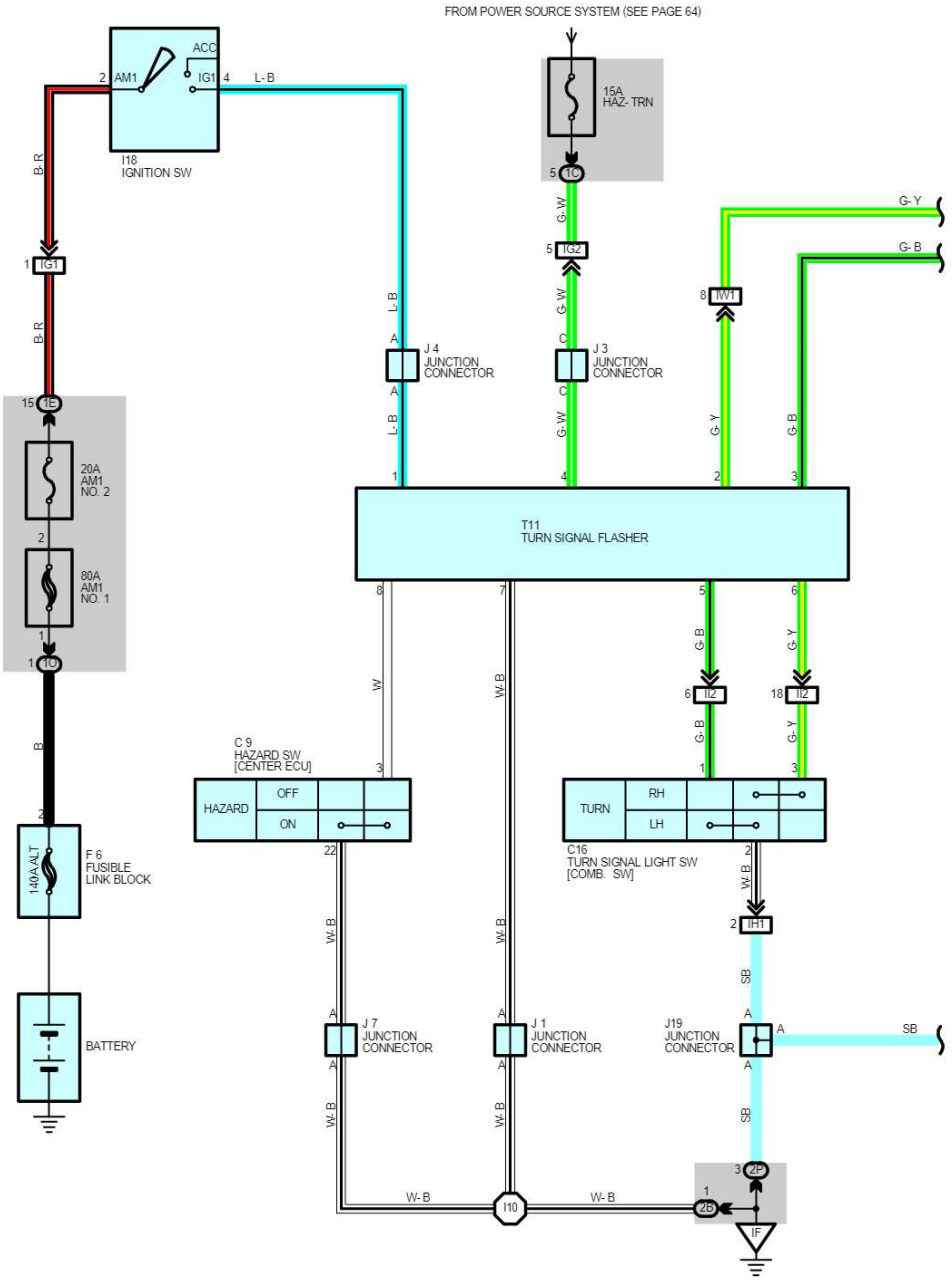
: GROUND POINTS

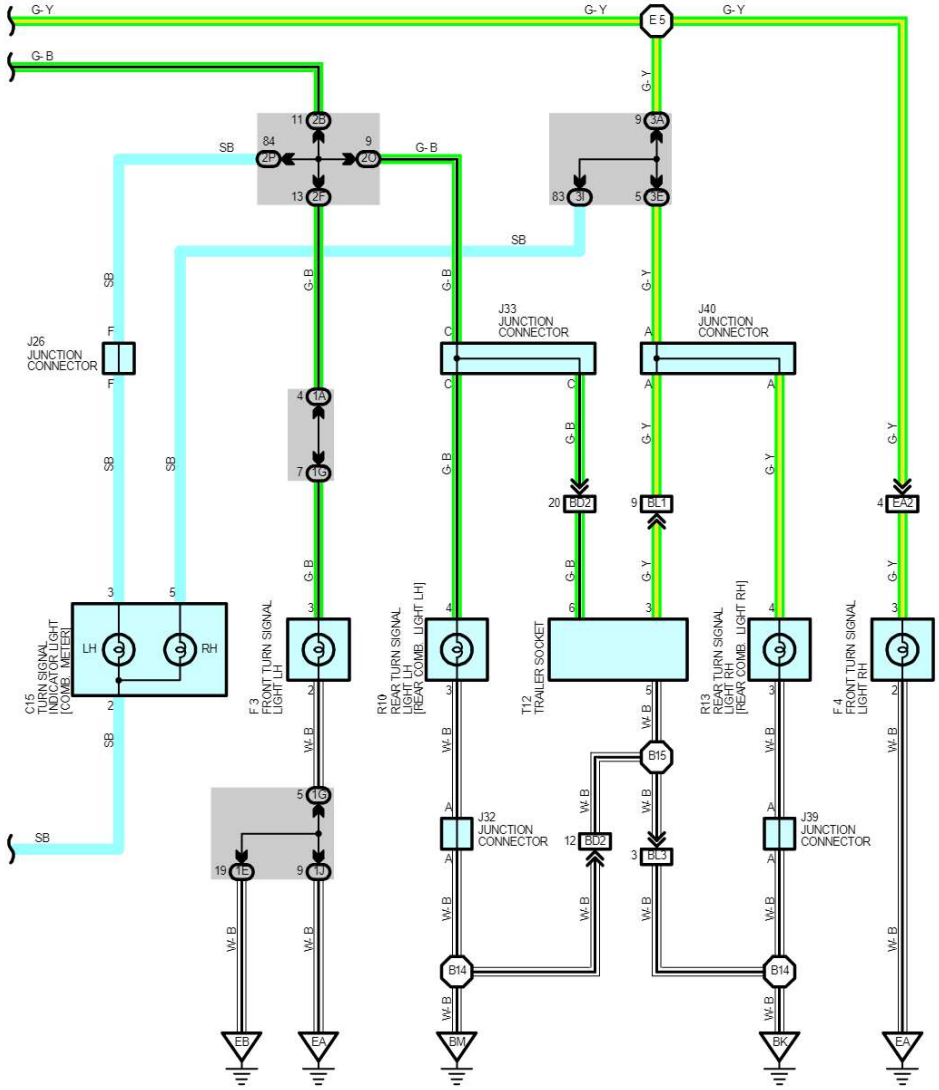
Code	See Page	Ground Points Location
EA	46	Front Right Side of Fender Apron
EB		
IF	48	Set Bolt of Cowl Side J/B LH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	46	Engine Room Main Wire			

TURN SIGNAL AND HAZARD WARNING LIGHT




G-Y
G-B
SB
W-B
E5
2B
2P
2O
2F
3A
3I
3E
J26 JUNCTION CONNECTOR
J33 JUNCTION CONNECTOR
J40 JUNCTION CONNECTOR
1A
1G
BD2
BL1
EA2
C15 TURN SIGNAL INDICATOR LIGHT [COMB. METER]
LH
RH
F3 FRONT TURN SIGNAL LIGHT LH
R10 REAR TURN SIGNAL LIGHT LH [REAR COMB. LIGHT LH]
T12 TRAILER SOCKET
R13 REAR TURN SIGNAL LIGHT RH [REAR COMB. LIGHT RH]
F4 FRONT TURN SIGNAL LIGHT RH
B15
BL3
J32 JUNCTION CONNECTOR
J39 JUNCTION CONNECTOR
B14
1I
1J
EB
EA
BM
BK

TURN SIGNAL AND HAZARD WARNING LIGHT

SERVICE HINTS

T11 TURN SIGNAL FLASHER

4-GROUND : Always approx. **12** volts
1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
7-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C9	40	J1	41	J33	42
C15	40	J3	41	J39	42
C16	40	J4	41	J40	42
F3	38	J7	41	R10	43
F4	38	J19	41	R13	43
F6	38	J26	41	T11	41
I18	40	J32	42	T12	43

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
1E		
1G	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1J		
1O	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2F	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2O	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3A	32	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	46	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG2		
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
II2	50	Column Wire and Dash Wire (Near the Ignition SW)
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
BD2	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BL1	58	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BL3		

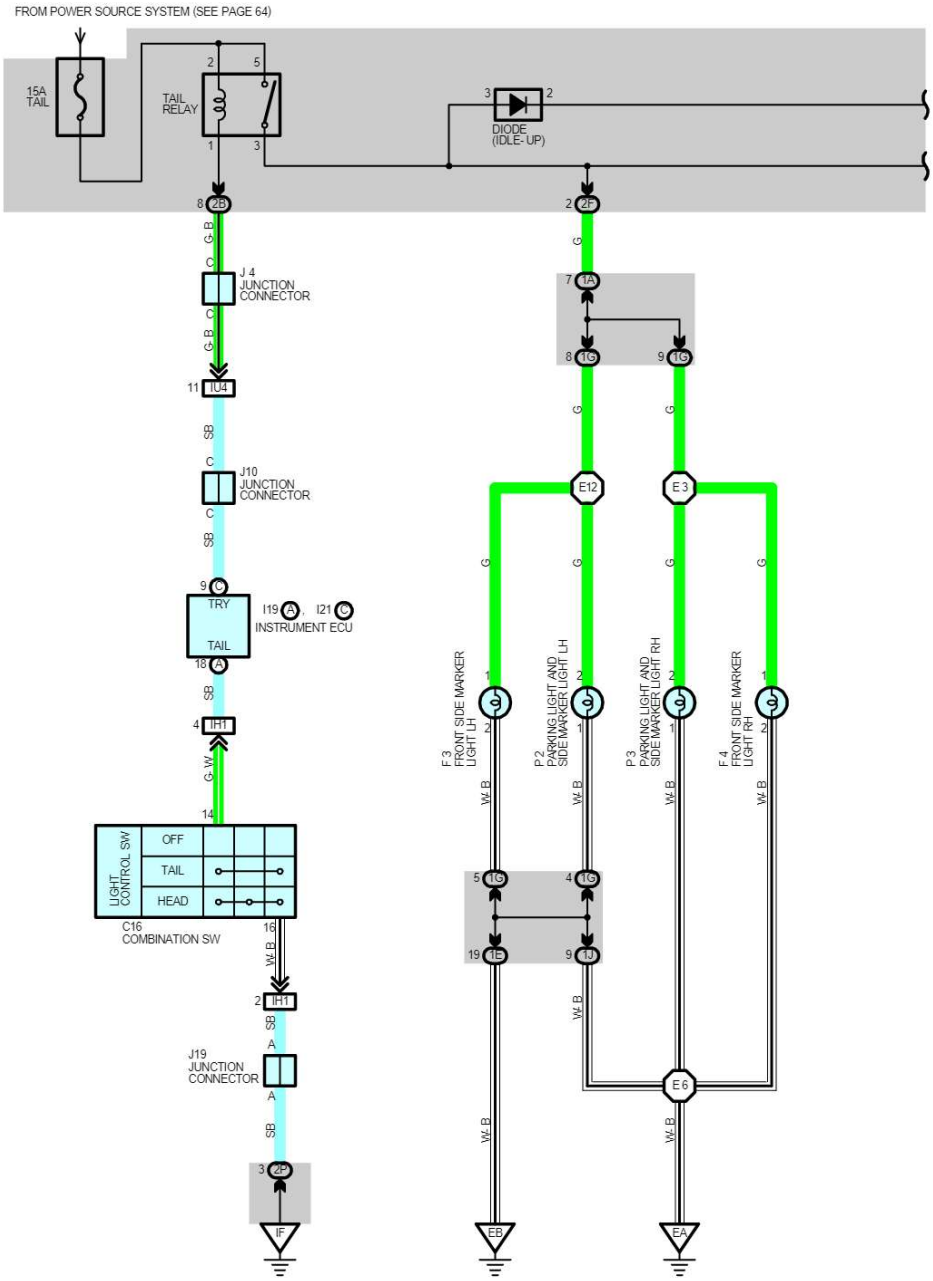
▽ : GROUND POINTS

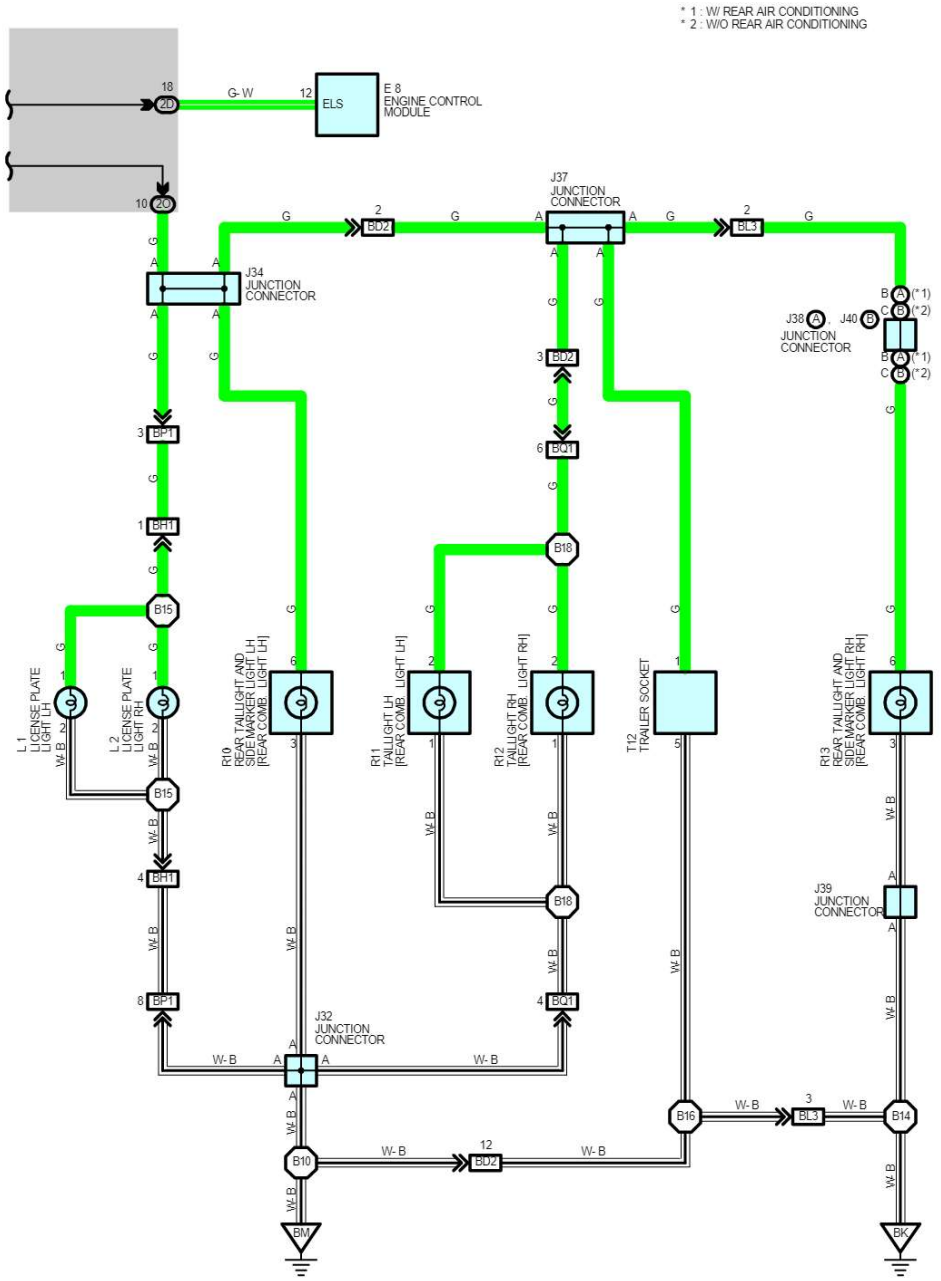
Code	See Page	Ground Points Location
EA	46	Front Right Side of Fender Apron
EB		
IF	48	Set Bolt of Cowl Side J/B LH
BK	56	Front Side Under the Front Passenger's Seat
BM	56	Left Rear Side Quarter Panel

: **SPLICE POINTS**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E5	46	Engine Room No.2 Wire	B14	58	Floor No.2 Wire
I10	50	Dash Wire	B15	58	Back Door Upper Wire

TAILLIGHT


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
15A TAIL
TAIL RELAY
DIODE (IDLE-UP)
2B
2F
J4 JUNCTION CONNECTOR
1U4
J10 JUNCTION CONNECTOR
TRY
TAIL
I19 I21 INSTRUMENT ECU
1H1
LIGHT CONTROL SW
OFF
TAIL
HEAD
C16 COMBINATION SW
J19 JUNCTION CONNECTOR
2P
1F
1A
1G
1E
1J
E12
E3
E6
F3 FRONT SIDE MARKER LIGHT LH
P2 PARKING LIGHT AND SIDE MARKER LIGHT LH
P3 PARKING LIGHT AND SIDE MARKER LIGHT RH
F4 FRONT SIDE MARKER LIGHT RH
EB
EA


* 1 : W/ REAR AIR CONDITIONING
* 2 : W/O REAR AIR CONDITIONING
E 8
ENGINE CONTROL MODULE
ELS
G-W
J37 JUNCTION CONNECTOR
J34 JUNCTION CONNECTOR
J38
J40
JUNCTION CONNECTOR
BD2
BL3
BP1
BH1
BQ1
B15
B18
B16
B14
B10
J32 JUNCTION CONNECTOR
J39 JUNCTION CONNECTOR
L1 LICENSE PLATE LIGHT LH
L2 LICENSE PLATE LIGHT RH
R10 REAR TAILLIGHT AND SIDE MARKER LIGHT LH [REAR COMB. LIGHT LH]
R11 TAILLIGHT LH [REAR COMB. LIGHT LH]
R12 TAILLIGHT RH [REAR COMB. LIGHT RH]
T12 TRAILER SOCKET
R13 REAR TAILLIGHT AND SIDE MARKER LIGHT RH [REAR COMB. LIGHT RH]
W-B
BM
BK

TAILLIGHT

SERVICE HINTS

TAIL RELAY

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

C16 COMBINATION SW

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

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C16	40	J19	41	L2	42
E8	40	J32	42	P2	39
F3	38	J34	42	P3	39
F4	38	J37	42	R10	43
I19 A	40	J38 A	42	R11	43
I21 C	40	J39	42	R12	43
J4	41	J40 B	42	R13	43
J10	41	L1	42	T12	43

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1E		
1G	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1J		
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2F	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2O	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

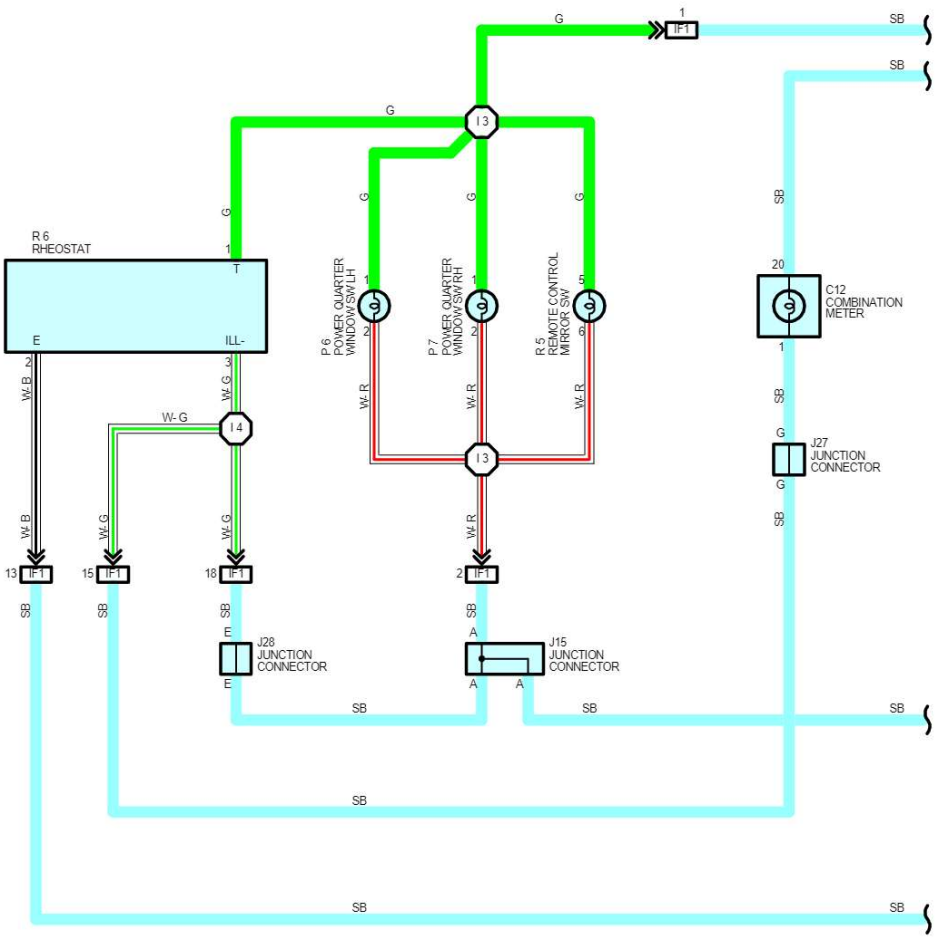
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
IU4	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
BD2	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BH1	58	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BL3	58	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BP1	58	Pillar No.1 Wire and Floor Wire (Left Rear Side Quarter Panel)
BQ1	58	Back Door Lower Wire and Floor Wire (Left Rear Side Quarter Panel)

: GROUND POINTS

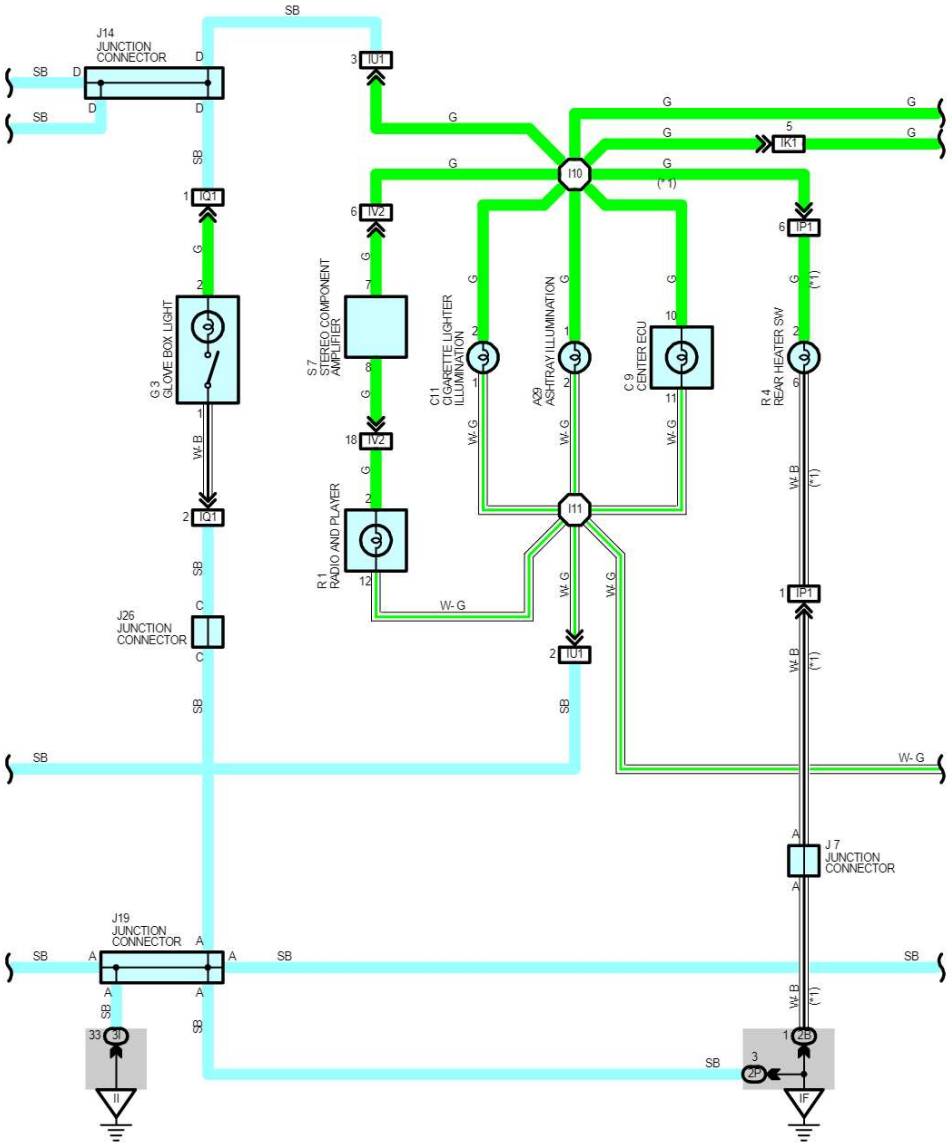
Code	See Page	Ground Points Location
EA	46	Front Right Side of Fender Apron
EB		
IF	48	Set Bolt of Cowl Side J/B LH
BK	56	Front Side Under the Front Passenger's Seat
BM	56	Left Rear Side Quarter Panel

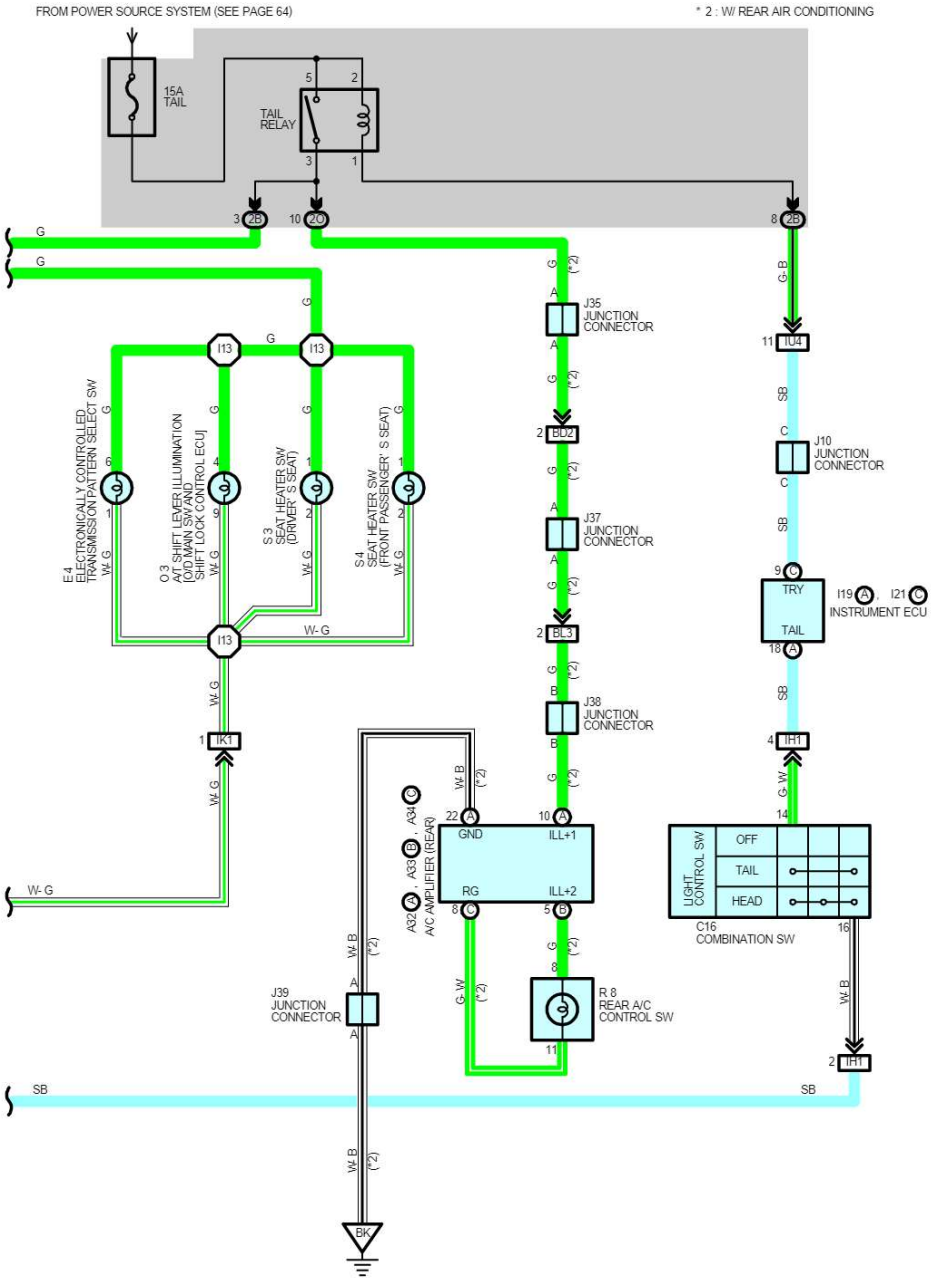
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E3	46	Engine Room Main Wire	B14	58	Floor No.2 Wire
E6			B15	58	Back Door Upper Wire
E12			B16	58	Floor No.3 Wire
B10	58	Floor No.2 Wire	B18	58	Back Door Lower Wire


R 6
RHEOSTAT
E
ILL-
T
1
2
3
W-B
W-G
W- G
I 4
I 3
P 6
POWER QUARTER
WINDOW SW LH
P 7
POWER QUARTER
WINDOW SW RH
R 5
REMOTE CONTROL
MIRROR SW
W-R
G
SB
1
IF1
13
15
18
2
C12
COMBINATION
METER
20
J27
JUNCTION
CONNECTOR
J28
JUNCTION
CONNECTOR
J15
JUNCTION
CONNECTOR
A

* 1 : W/O REAR AIR CONDITIONING




FROM POWER SOURCE SYSTEM (SEE PAGE 64)
* 2 : W/ REAR AIR CONDITIONING
15A TAIL
TAIL RELAY
J35 JUNCTION CONNECTOR
J37 JUNCTION CONNECTOR
J38 JUNCTION CONNECTOR
J39 JUNCTION CONNECTOR
J10 JUNCTION CONNECTOR
E 4 ELECTRONICALLY CONTROLLED TRANSMISSION PATTERN SELECT SW
O 3 A/T SHIFT LEVER ILLUMINATION [DOOR MAIN SW AND SHIFT LOCK CONTROL ECU]
S 3 SEAT HEATER SW (DRIVER' S SEAT)
S 4 SEAT HEATER SW (FRONT PASSENGER' S SEAT)
I19 , I21 INSTRUMENT ECU
TRY
TAIL
A32 , A33 , A34 A/C AMPLIFIER (REAR)
GND
ILL+1
RG
ILL+2
R 8 REAR A/C CONTROL SW
LIGHT CONTROL SW
OFF
TAIL
HEAD
C16 COMBINATION SW
G
W- G
G- B
G- W
W- B
SB
BK

SERVICE HINTS

TAIL RELAY

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

C16 COMBINATION SW

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

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A29	40	J7	41	O3	41
A32 A	42	J10	41	P6	41
A33 B	42	J14	41	P7	41
A34 C	42	J15	41	R1	41
C9	40	J19	41	R4	41
C11	40	J26	41	R5	41
C12	40	J27	41	R6	41
C16	40	J28	41	R8	43
E4	40	J35	42	S3	41
G3	40	J37	42	S4	41
I19 A	40	J38	42	S7	43
I21 C	40	J39	42		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2O	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

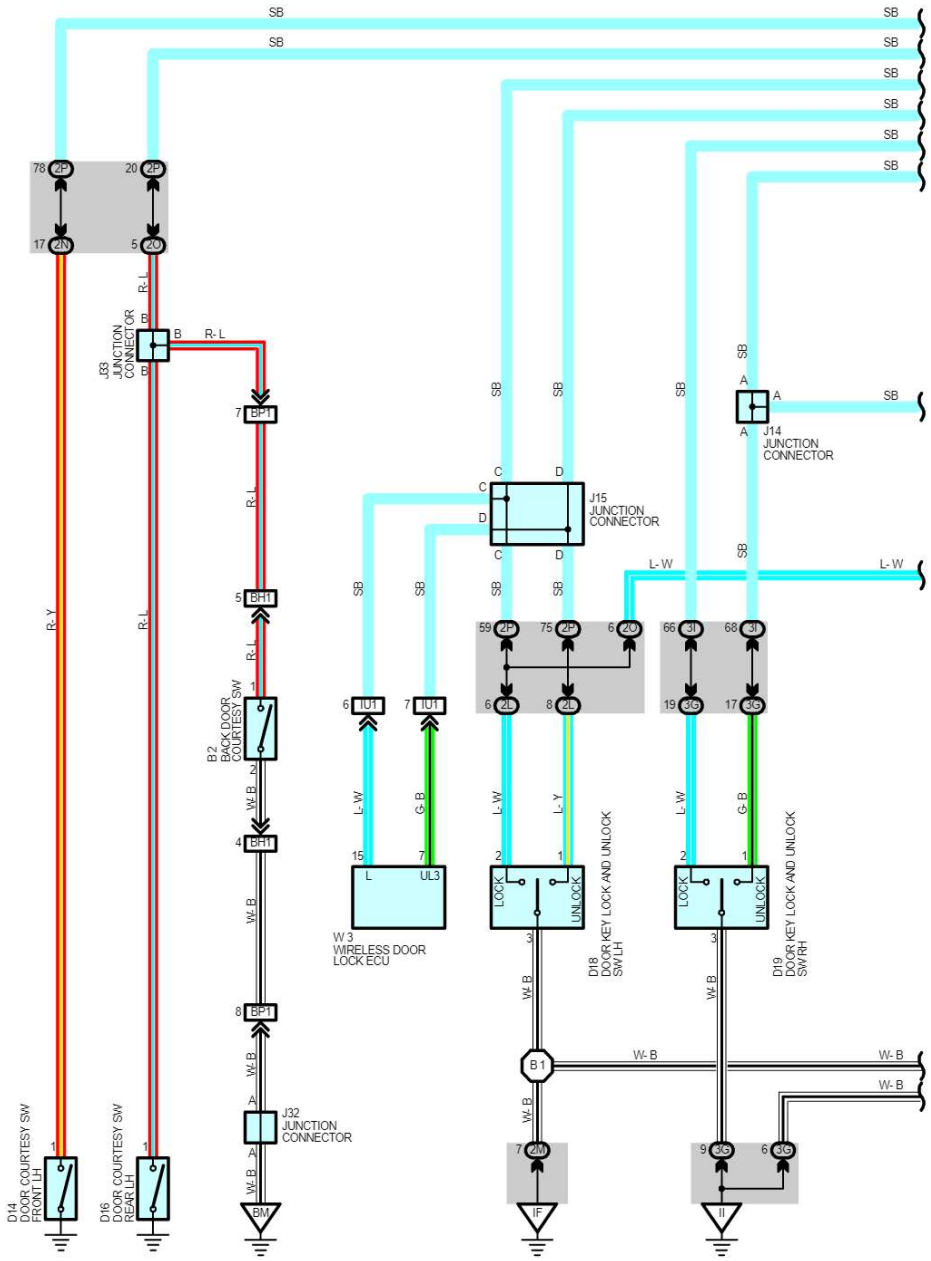
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	48	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
IK1	50	Console Box Wire and Dash Wire (Left Side of Front Console)
IP1	52	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)
IQ1	52	Instrument Panel Integration Wire and Lamp Wire (Behind the Glove Box)
IU1	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU4		
IV2	54	Dash Wire and Floor No.2 Wire (Behind the Glove Box)
BD2	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BL3	58	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)

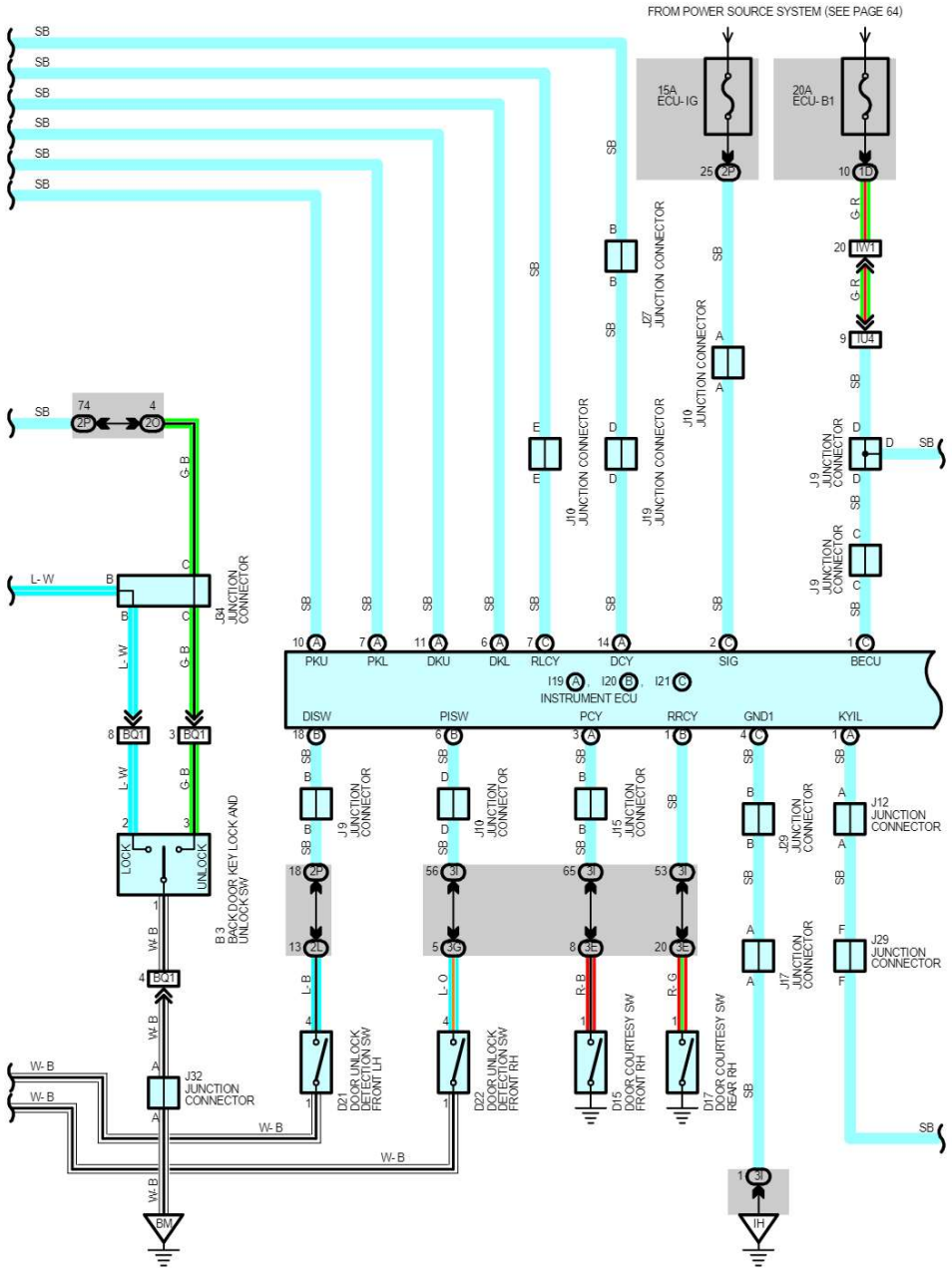
▽ : GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
II	48	Set Bolt of Cowl Side J/B RH
BK	56	Front Side Under the Front Passenger's Seat

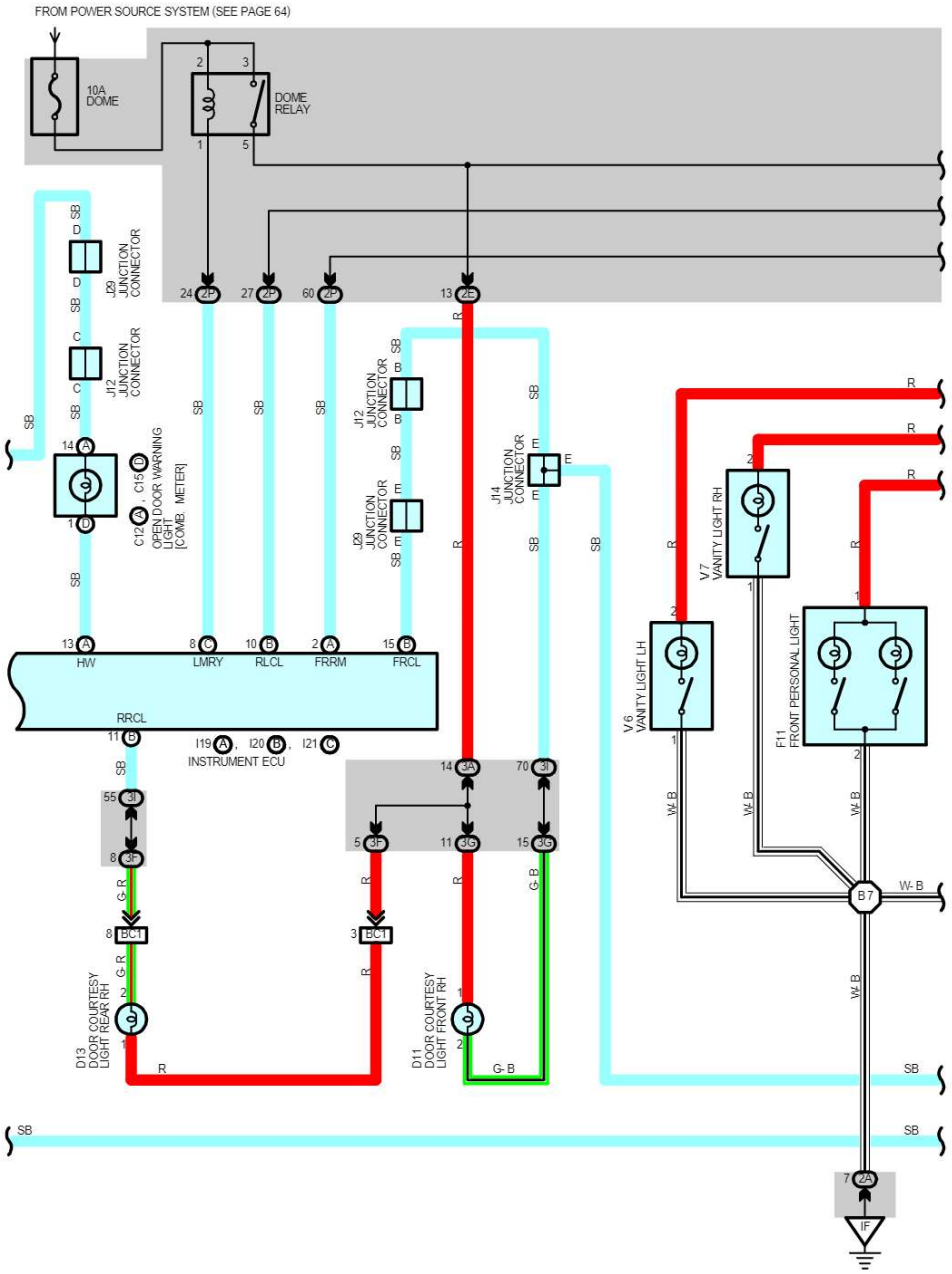
: SPLICE POINTS

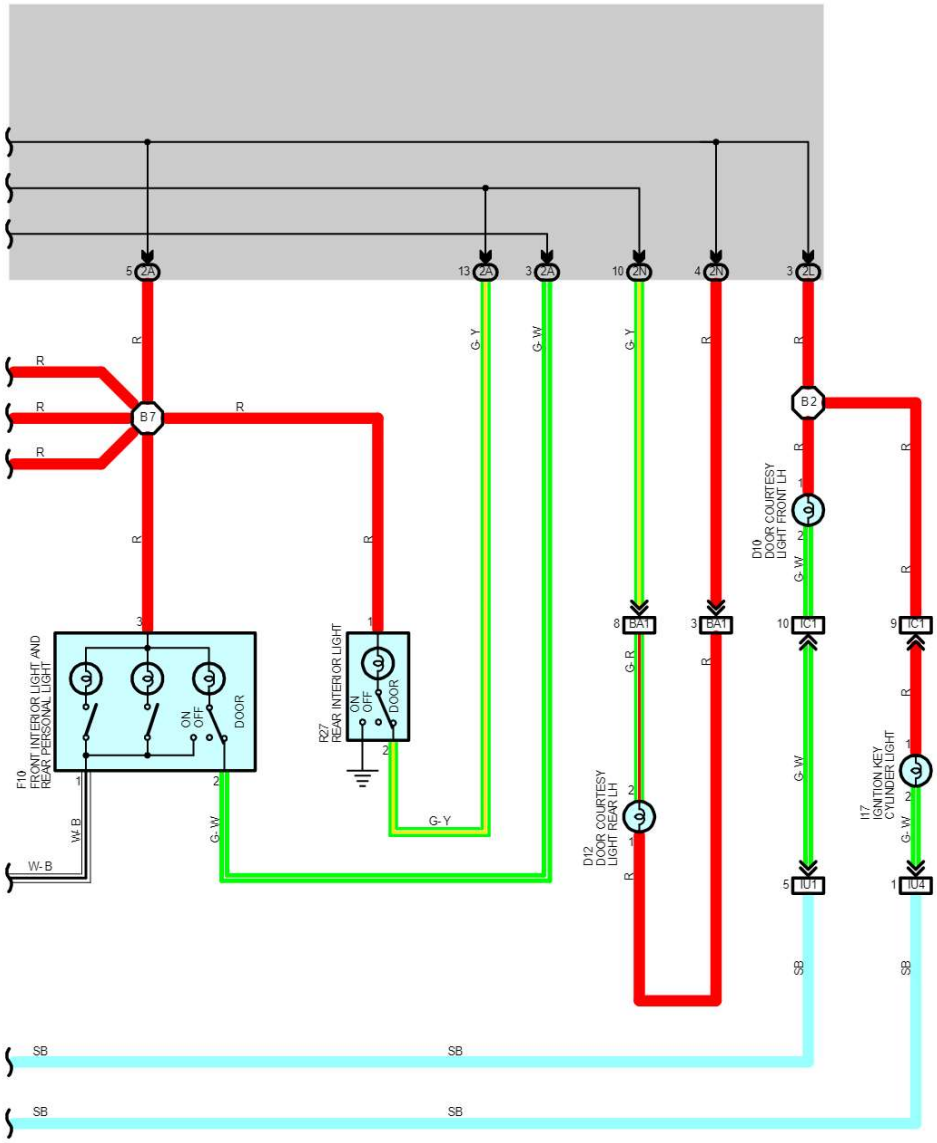
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I3	50	Instrument Panel Wire	I11	50	Dash Wire
I4			I13	50	Console Box Wire
I10	50	Dash Wire			


SB
78 2P
20 2P
17 2N
5 2O
R-L
J33 JUNCTION CONNECTOR
B
7 BP1
5 BH1
R-Y
B 2 BACK DOOR COURTESY SW
1
2
W-B
4 BH1
8 BP1
A
J32 JUNCTION CONNECTOR
BM
D14 DOOR COURTESY SW FRONT LH
D16 DOOR COURTESY SW REAR LH
J15 JUNCTION CONNECTOR
C
D
J14 JUNCTION CONNECTOR
L-W
6 1U1
7 1U1
W 3 WIRELESS DOOR LOCK ECU
L
UL3
G-B
L-Y
59 2P
75 2P
6 2O
6 2L
8 2L
LOCK
UNLOCK
D18 DOOR KEY LOCK AND UNLOCK SW LH
66 3I
68 3I
19 3G
17 3G
D19 DOOR KEY LOCK AND UNLOCK SW RH
B 1
7 2M
IF
9 3S
6 3G
II


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
15A ECU-IG
20A ECU-B1
INSTRUMENT ECU
PKU
PKL
DKU
DKL
RLCY
DCY
SIG
BECU
DISW
PISW
PCY
RRCY
GND1
KYIL
LOCK
UNLOCK
BACK DOOR KEY LOCK AND UNLOCK SW
DOOR UNLOCK DETECTION SW FRONT LH
DOOR UNLOCK DETECTION SW FRONT RH
DOOR COURTESY SW FRONT RH
DOOR COURTESY SW REAR RH
JUNCTION CONNECTOR

INTERIOR LIGHT




5 2A
13 2A
3 2A
10 2N
4 2N
3 2L
B7
B2
R
G-Y
G-W
G-R
W-B
SB
F10
FRONT INTERIOR LIGHT AND
REAR PERSONAL LIGHT
ON
OFF
DOOR
R27
REAR INTERIOR LIGHT
D10
DOOR COURTESY
LIGHT FRONT LH
D12
DOOR COURTESY
LIGHT REAR LH
I17
IGNITION KEY
CYLINDER LIGHT
8 BA1
3 BA1
10 IC1
9 IC1
5 IU1
1 IU4

INTERIOR LIGHT

SYSTEM OUTLINE

NORMAL OPERATION

- When the front Door LH or RH is opened
  When the door is opened, the door courtesy light front LH, RH and open door warning light is turned on. When the front door LH and RH are closed, the door courtesy light front LH, RH is turned off.
- When the rear door LH, RH or the back door is opened, door courtesy light rear LH, RH, rear interior light and the open door warning light is turned on. When the rear door LH, RH and back door are closed, the door courtesy light rear LH, RH is turned off.
- When all the doors are closed, the open door warning light is turned off.

TURN OFF FUNCTION

When the ignition SW turned off and there is no change in the door courtesy SW for approx. 30 minutes, the DOME relay is turned off. The DOME relay is turned on again when any of the following conditions are met.

- Ignition SW is turned from OFF position to ACC or ON position
- Change to any door courtesy SW
- Driver or front passenger door is unlocked by the key or transmitter

IMMEDIATE TURN OFF FUNCTION AT DOOR LOCK

When all the doors are closed, and the driver or front passenger door is locked by the key or transmitter, the DOME relay is turned off, after approx. 80 seconds. However, when the illuminated entry system is operating, the DOME relay is turned off after the operation is completed. the DOME relay is turned on again when any of the following conditions are met.

- Ignition SW is turned from OFF position to ACC or ON position
- Change to any door courtesy SW
- Driver or front passenger door is unlocked by the key or transmitter

ILLUMINATED ENTRY SYSTEM

- When any door is opened, each light is turned on.
- The light remains on for approx. 15 seconds after all doors are closed, and fades out.
- With the ignition SW is at ACC or ON position, and any door open, when all the doors are closed, each light fades out immediately.
- When the ignition SW is turned to ACC or ON position during timer lighting, each light fades out immediately.
- When the doors are locked during timer lighting, each light fades out immediately.
- The lights include, the front interior light, ignition key cylinder light, and front door courtesy light LH,RH.

SERVICE HINTS

D14, D15, D16, D17 DOOR COURTESY SW FRONT LH, RH, REAR LH, RH

1-GROUND : Closed with door open

B2 BACK DOOR COURTESY SW

1-2 : Closed with back door open

I19 (A), I20 (B), I21 (C) INSTRUMENT ECU

(C) 1-GROUND : Always approx. **12** volts
(C) 2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(C) 4-GROUND : Always continuity
(A) 3-GROUND : Continuity with front passenger door open
(A)14-GROUND : Continuity with driver door open
(B) 1-GROUND : Continuity with rear RH door open
(C) 7-GROUND : Continuity with rear LH door or back door open

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B2	42	D19	42	J15	41
B3	42	D21	42	J17	41
C12 A	40	D22	42	J19	41
C15 D	40	F10	42	J27	41
D10	42	F11	42	J29	41
D11	42	I17	40	J32	42
D12	42	I19 A	40	J33	42
D13	42	I20 B	40	J34	42
D14	42	I21 C	40	R27	43
D15	42	J9	41	V6	43
D16	42	J10	41	V7	43
D17	42	J12	41	W3	41
D18	42	J14	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	26	Roof Wire and Cowl Side J/B LH (Left Kick Panel)
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2L 2M	26	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2N 2O	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3A	32	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E 3F	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3G	32	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	48	Front Door LH Wire and Dash Wire (Left Kick Panel)
IU1 IU4	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
BA1	56	Rear Door LH Wire and Floor Wire (Left Side of Center Pillar)
BC1	56	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BH1	58	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BP1	58	Pillar No.1 Wire and Floor Wire (Left Rear Side Quarter Panel)
BQ1	58	Back Door Lower Wire and Floor Wire (Left Rear Side Quarter Panel)

: GROUND POINTS

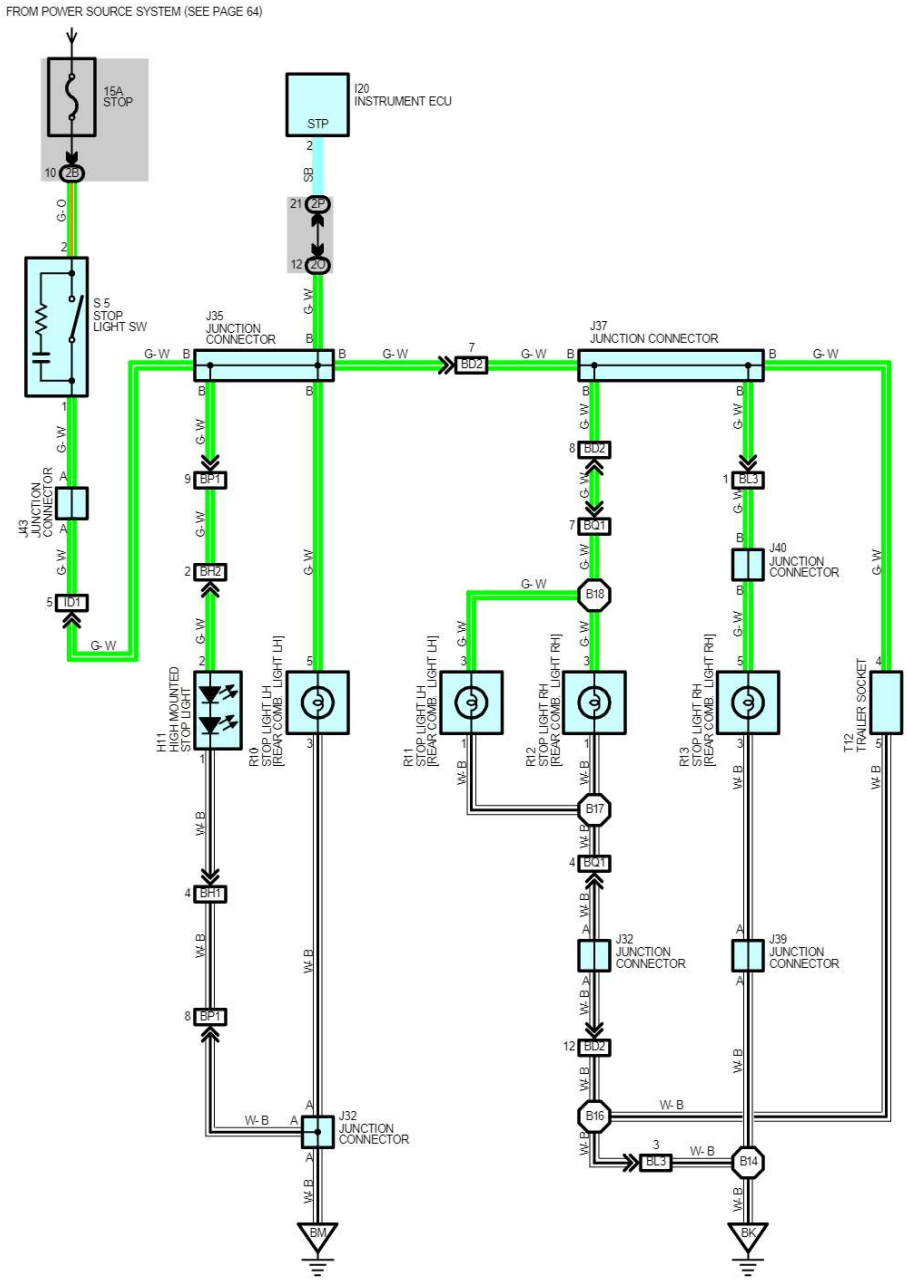
Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
IH II	48	Set Bolt of Cowl Side J/B RH
BM	56	Left Rear Side Quarter Panel

INTERIOR LIGHT

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B1	58	Front Door LH Wire	B7	58	Roof Wire
B2					

STOP LIGHT


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
15A STOP
I20 INSTRUMENT ECU
STP
2P
2O
S 5 STOP LIGHT SW
J35 JUNCTION CONNECTOR
J37 JUNCTION CONNECTOR
J43 JUNCTION CONNECTOR
J40 JUNCTION CONNECTOR
J32 JUNCTION CONNECTOR
J39 JUNCTION CONNECTOR
H11 HIGH MOUNTED STOP LIGHT
R10 STOP LIGHT LH [REAR COMB. LIGHT LH]
R11 STOP LIGHT LH [REAR COMB. LIGHT LH]
R12 STOP LIGHT RH [REAR COMB. LIGHT RH]
R13 STOP LIGHT RH [REAR COMB. LIGHT RH]
T12 TRAILER SOCKET
BD2
BQT
BL3
BP1
BH2
BH1
ID1
B18
B17
B16
B14
BM
BK
G-W
W-B

SERVICE HINTS

S5 STOP LIGHT SW

2-1 : Closed with brake pedal depressed

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
H11	42	J39	42	R12	43
I20	40	J40	42	R13	43
J32	42	J43	41	S5	41
J35	42	R10	43	T12	43
J37	42	R11	43		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2O	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)
BD2	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BH1	58	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BH2		
BL3	58	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BP1	58	Pillar No.1 Wire and Floor Wire (Left Rear Side Quarter Panel)
BQ1	58	Back Door Lower Wire and Floor Wire (Left Rear Side Quarter Panel)

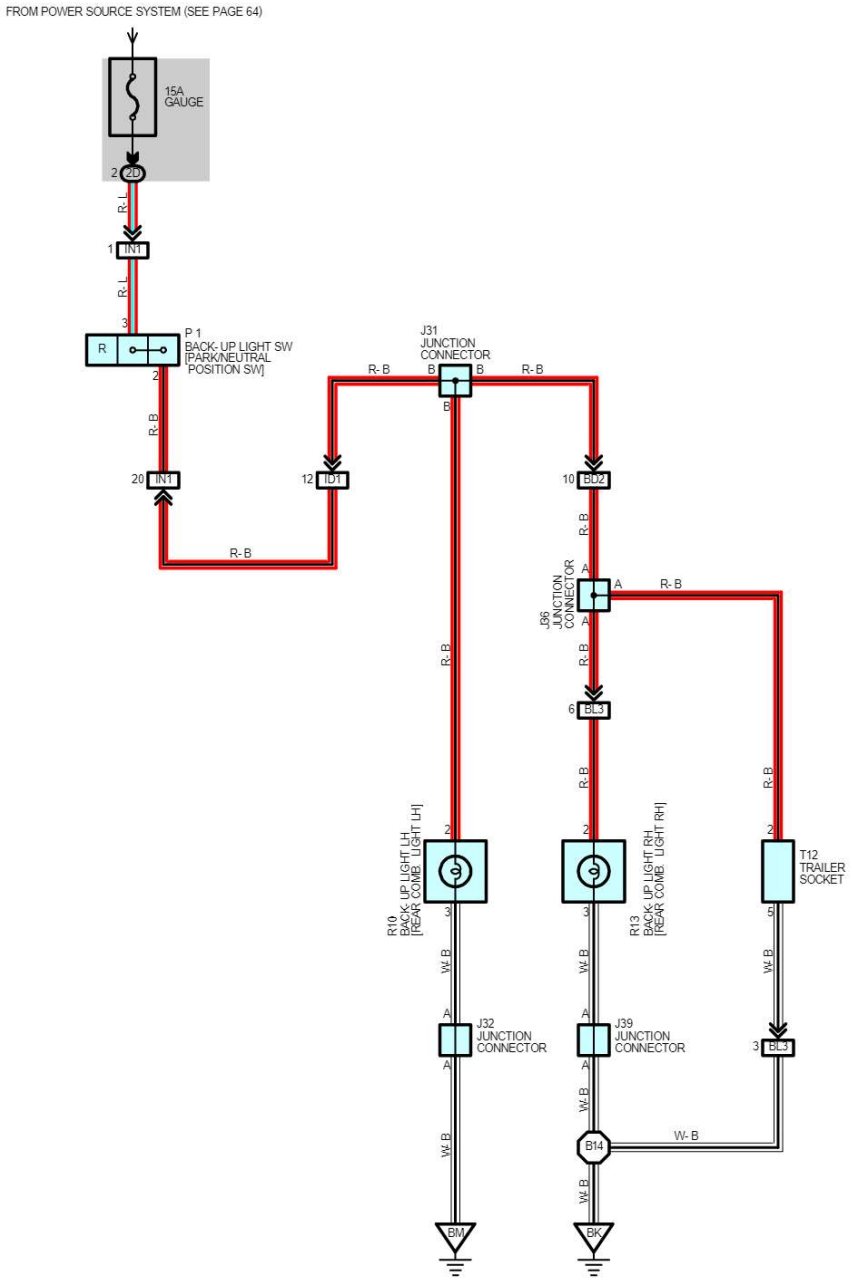
: GROUND POINTS

Code	See Page	Ground Points Location
BK	56	Front Side Under the Front Passenger's Seat
BM	56	Left Rear Side Quarter Panel

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B14	58	Floor No.2 Wire	B17	58	Back Door Lower Wire
B16	58	Floor No.3 Wire	B18		

BACK-UP LIGHT



SERVICE HINTS

P1 BACK-UP LIGHT SW [PARK/NEUTRAL POSITION SW]

4-8 : Closed with shift lever at **R** position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J31	42	J39	42	R13	43
J32	42	P1	39	T12	43
J36	42	R10	43		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

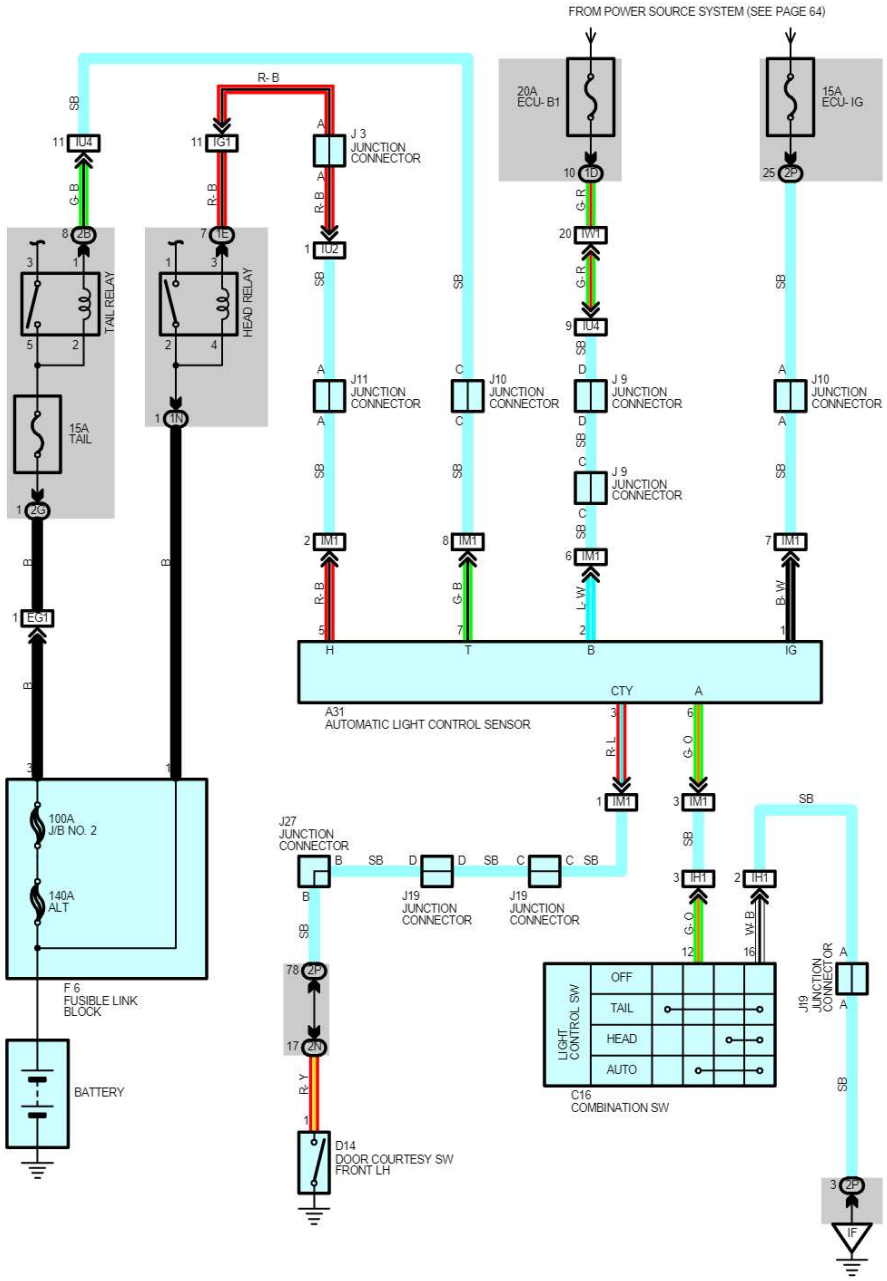
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
BD2	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BL3	58	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)

: GROUND POINTS

Code	See Page	Ground Points Location
BK	56	Front Side Under the Front Passenger's Seat
BM	56	Left Rear Side Quarter Panel

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B14	58	Floor No.2 Wire			


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
20A ECU- B1
15A ECU- IG
J 3 JUNCTION CONNECTOR
J11 JUNCTION CONNECTOR
J10 JUNCTION CONNECTOR
J 9 JUNCTION CONNECTOR
TAIL RELAY
HEAD RELAY
15A TAIL
100A J/B NO. 2
140A ALT
F 6 FUSIBLE LINK BLOCK
BATTERY
A31 AUTOMATIC LIGHT CONTROL SENSOR
J27 JUNCTION CONNECTOR
J19 JUNCTION CONNECTOR
J19 JUNCTION CONNECTOR
J19 JUNCTION CONNECTOR
LIGHT CONTROL SW
OFF
TAIL
HEAD
AUTO
C16 COMBINATION SW
D14 DOOR COURTESY SW FRONT LH

SYSTEM OUTLINE

When the light control SW is set at AUTO position, this system automatically turns ON/OFF the taillights and headlights depending on the brightness around the vehicle.

AUTOMATIC LIGHT CONTROL OPERATION

(1) Turn on operation

- With the ignition SW turned on, and the light control SW set at AUTO position, when the brightness around the vehicle drops in between a predetermined level, the timer of the automatic light control sensor starts counting, and turns on the taillight and headlight after approx. 5.8 seconds have elapsed. In case the brightness around the vehicle increases over a predetermined level during timer counting, the timer will be reset.
- With the ignition SW turned on and the light control SW set at AUTO position, when the brightness around the vehicle drops below a predetermined level, the timer of the automatic light control sensor starts counting, and turns on the taillight and headlight after approx. 2.9 seconds have elapsed. In case the brightness around the vehicle increases in between a predetermined level during timer counting, the timer will be stopped, and when the brightness increases over a predetermined level, the timer will be reset.

(2) Turn off operation

- When the brightness increases over a predetermined level while the automatic light control system is operating, the timer of the automatic light control sensor starts counting, and turns off the taillight and headlight after approx. 5.8 seconds have elapsed. In case the brightness around the vehicle drops below a predetermined level during timer counting, the timer will be reset.
- The taillights and headlights will be turned off when the ignition SW is turned from on to off and driver door is opened, during automatic light control system operation, with the light control SW set at AUTO position.

SERVICE HINTS

A31 AUTOMATIC LIGHT CONTROL SENSOR

1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
2-GROUND : Always approx. **12** volts
3-GROUND : Continuity with driver door open
6-GROUND : Continuity with light control SW at **AUTO** position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A31	40	J3	41	J19	41
C16	40	J9	41	J27	41
D14	42	J10	41		
F6	38	J11	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1E		
1N	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2G	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

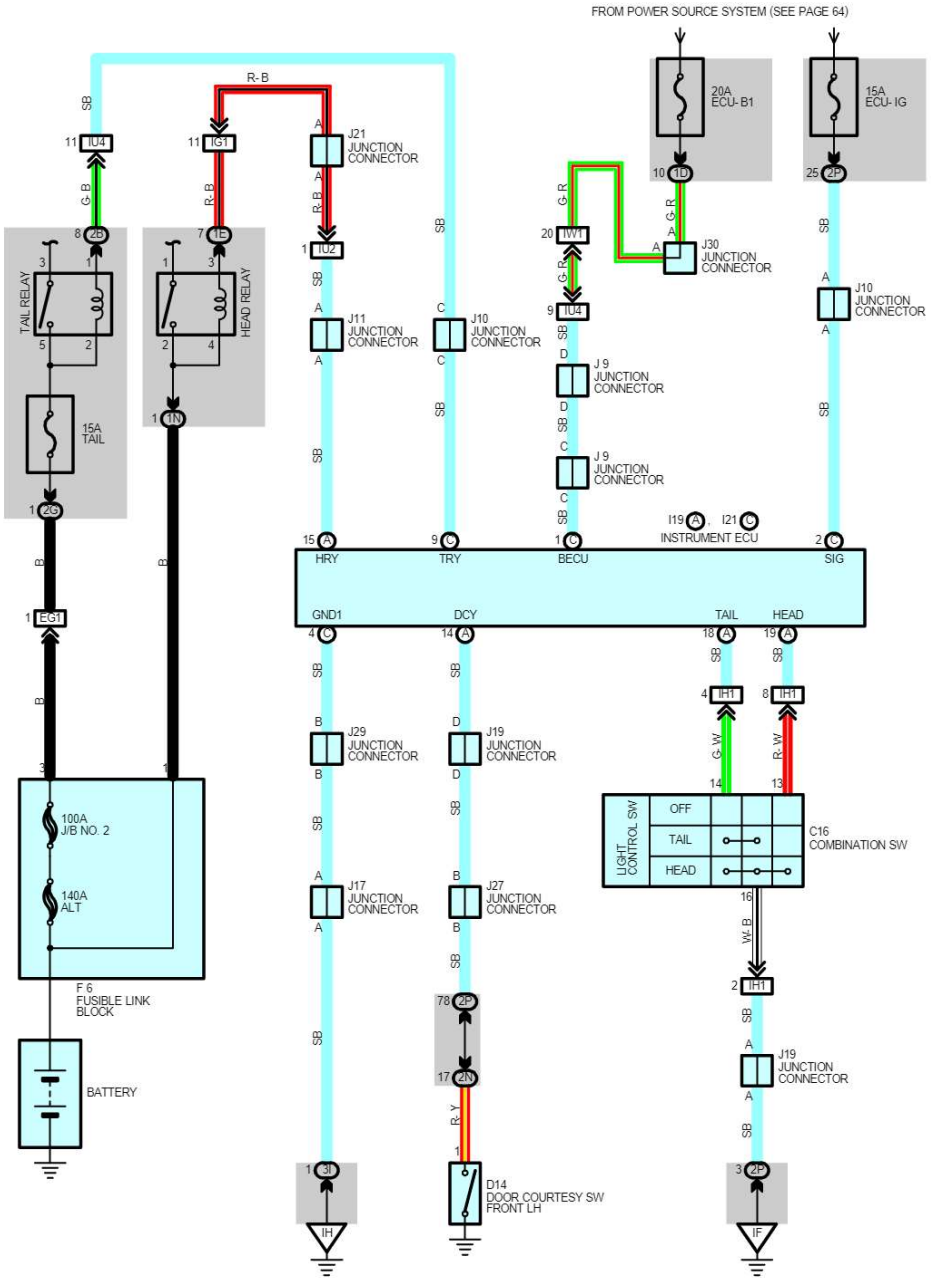
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EG1	46	Engine Room No.2 Wire and Engine Room No.3 Wire (Under the Engine Room J/B)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
IM1	52	Instrument Panel Integration Wire and Instrument Panel No.3 Wire (Right Side of Instrument Panel)
IU2	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU4		
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH

LIGHT AUTO TURN OFF



SYSTEM OUTLINE

This system automatically turns off the taillight or headlight by the opening/closing of the driver door, to prevent the lights from remaining lit.

LIGHT AUTO TURN OFF OPERATION

* When headlights are on
  When the ignition SW is turned from on to off with the headlights on (Light control SW at HEAD position), a signal is input to instrument ECU TERMINAL SIG. When the driver door is opened at this time, a signal is input from the door courtesy SW front LH to the instrument ECU TERMINAL DCY. The instrument ECU TERMINAL HRY is controlled to turn off the HEAD relay. As a result, the current to the headlight is cut off and the light is turned off.
* When taillights are on
  When the ignition SW is turned from on to off with the taillights on (Light control SW at TAIL position), a signal is input to instrument ECU TERMINAL SIG. When the driver door is opened at this time, a signal is input from the door courtesy SW front LH to the instrument ECU TERMINAL DCY. The instrument ECU TERMINAL TRY is controlled to turn off the TAIL relay. As a result, the current to the taillight is cut off and the light is turned off.

SERVICE HINTS

I19 (A), I21 (C) INSTRUMENT ECU

(A)14-GROUND : Continuity with driver door open
(A)18-GROUND : Continuity with light control SW at **TAIL** or **HEAD** position
(A)19-GROUND : Continuity with light control SW at **HEAD** position
(C) 1-GROUND : Always approx. **12** volts
(C) 2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(C) 4-GROUND : Always continuity

D14 DOOR COURTESY SW FRONT LH

1-GROUND : Closed with door open

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
C16		40	J9	41	J21	41
D14		42	J10	41	J27	41
F6		38	J11	41	J29	41
I19	A	40	J17	41	J30	41
I21	C	40	J19	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1E		
1N	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2G	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

▭ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

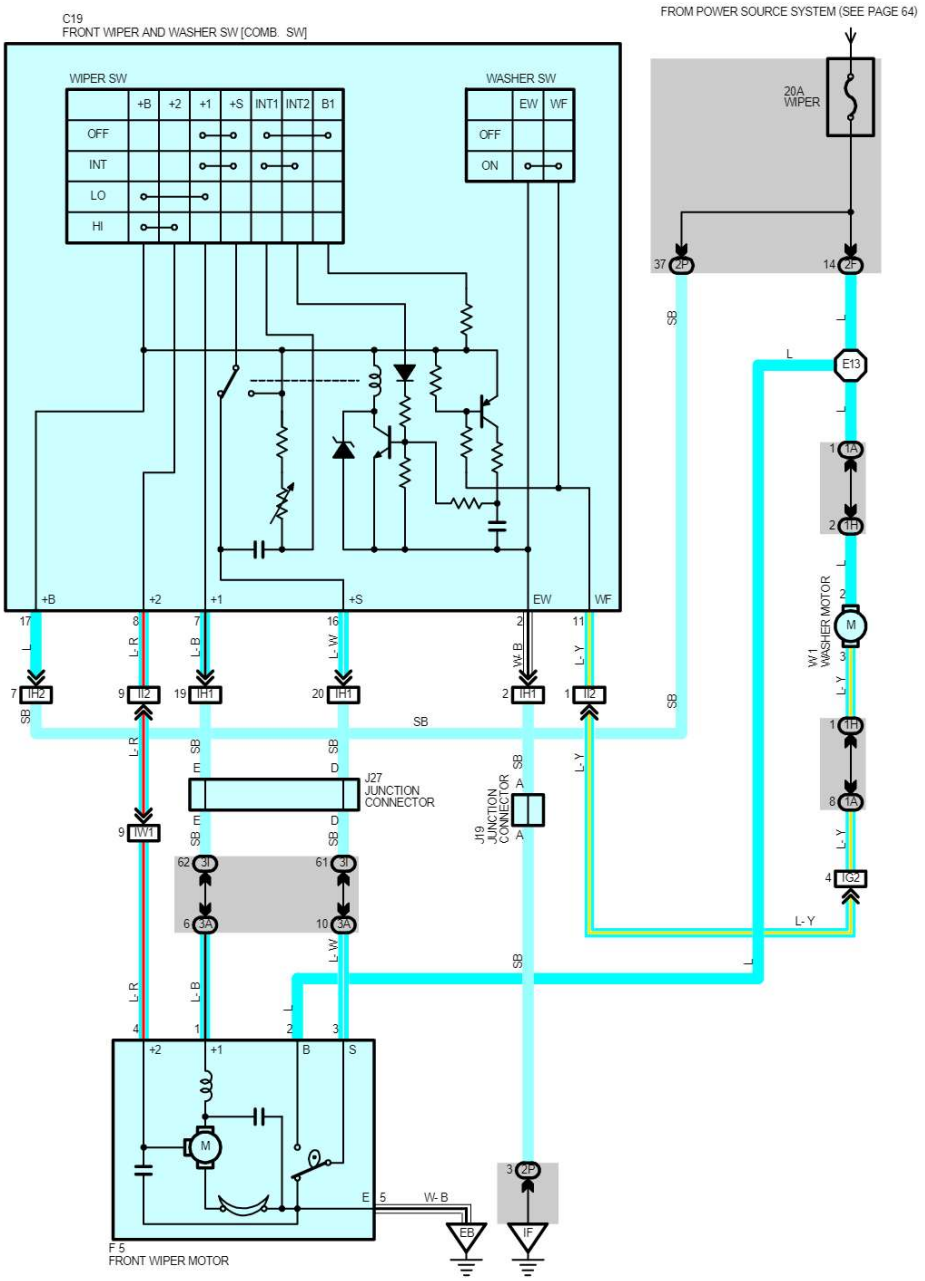
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EG1	46	Engine Room No.2 Wire and Engine Room No.3 Wire (Under the Engine Room J/B)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
IU2	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU4		
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)

LIGHT AUTO TURN OFF

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
IH	48	Set Bolt of Cowl Side J/B RH

FRONT WIPER AND WASHER



SYSTEM OUTLINE

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

1. LOW POSITION

When the wiper SW is turned to LO position, the current flows from the front wiper and washer SW TERMINAL 17 to TERMINAL 7 to front wiper motor TERMINAL 1 to TERMINAL 5 to GROUND, and operates the front wiper motor at low speed.

2. HIGH POSITION

When the wiper SW is turned to HI position, the current flows from the front wiper and washer SW TERMINAL 17 to TERMINAL 8 to front wiper motor TERMINAL 4 to TERMINAL 5 to GROUND, and operates the front wiper motor at high speed.

3. INT POSITION

When the wiper SW is turned to INT position, the relay operates and the current which is connected by the relay function flows from the front wiper and washer SW TERMINAL 17 to TERMINAL 2 to GROUND, and operates the wipe.
The intermittent operation is controlled by the charge/discharge function of the condenser installed in the relay, and the intermittent time is controlled by a time control SW to change the charging time of the condenser.

4. WASHER CONTINUOUS OPERATION

When the washer SW is turned on, the current flows from the washer motor TERMINAL 2 to TERMINAL 1 to front wiper and washer SW TERMINAL 11 to TERMINAL 2 to GROUND, operates the washer motor and the window washer emits a water spray. This causes the current to flow to the washer continuous operation circuit in front wiper and washer SW TERMINAL 11 to TERMINAL 7 to front wiper motor TERMINAL 1 to TERMINAL 5 to GROUND, and operates the wiper.

SERVICE HINTS

C19 FRONT WIPER AND WASHER SW [COMB. SW]

2-GROUND : Always continuity
17-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
7-GROUND : Approx. **12** volts with front wiper and washer SW at **LO** position
: Approx. **12** volts **1.6** to **10.7** seconds intermittently with the front wiper and washer SW at **INT** position
16-GROUND : Approx. **12** volts with ignition SW on unless the front wiper motor at **STOP** position
8-GROUND : Approx. **12** volts with front wiper and washer SW at **HI** position

F5 FRONT WIPER MOTOR

2-3 : Closed unless the wiper motor at **STOP** position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C19	40	J19	41	W1	39
F5	38	J27	41		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1H	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3A	32	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

▭ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

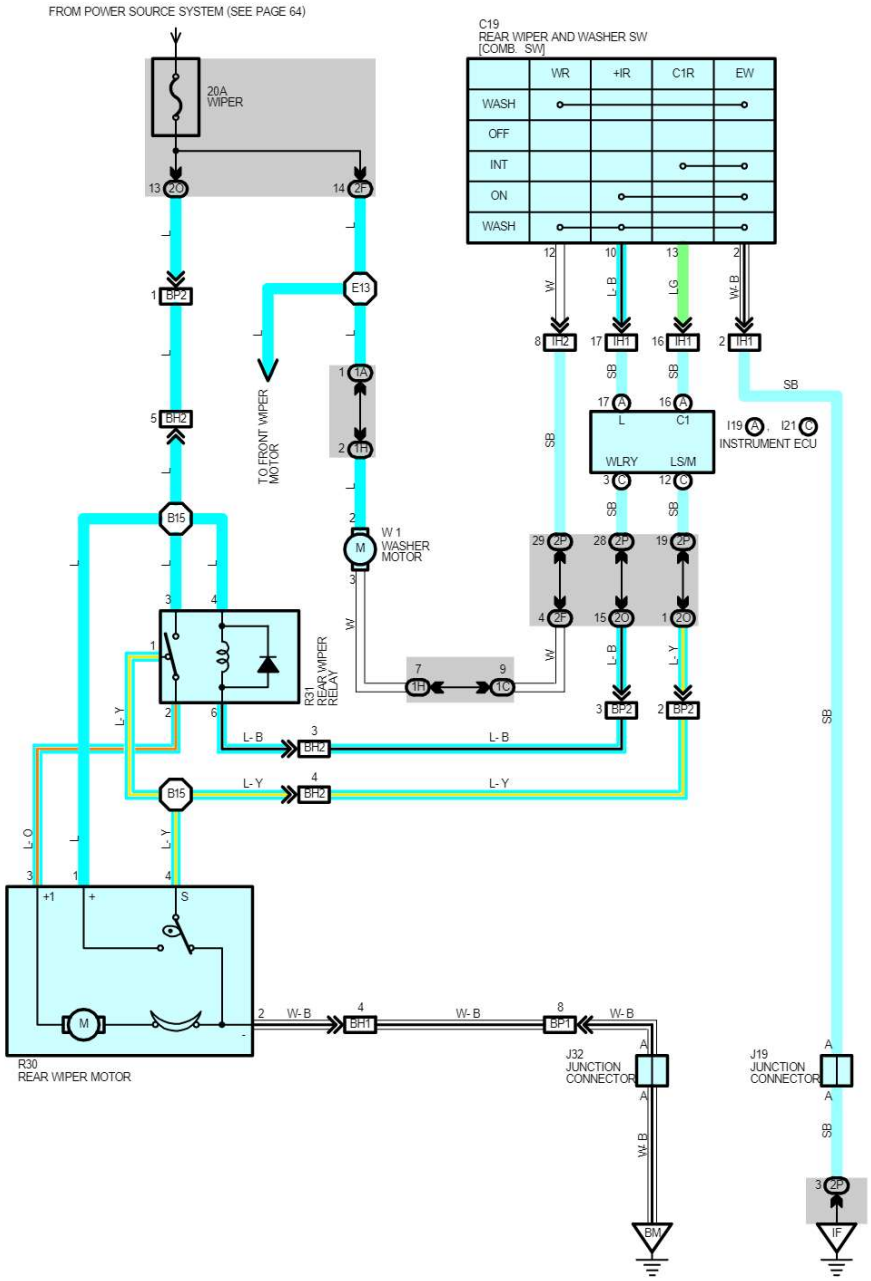
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG2	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
IH2		
II2	50	Column Wire and Dash Wire (Near the Ignition SW)
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)

: GROUND POINTS

Code	See Page	Ground Points Location
EB	46	Front Right Side of Fender Apron
IF	48	Set Bolt of Cowl Side J/B LH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E13	46	Engine Room No.2 Wire			


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
20A
WIPER
C19
REAR WIPER AND WASHER SW
[COMB. SW]
WR
+IR
C1R
EW
WASH
OFF
INT
ON
WASH
TO FRONT WIPER MOTOR
W 1
WASHER
MOTOR
R31
REAR WIPER
RELAY
INSTRUMENT ECU
R30
REAR WIPER MOTOR
J32
JUNCTION
CONNECTOR
J19
JUNCTION
CONNECTOR
BM
IF

SYSTEM OUTLINE

When the ignition SW is turned on, the current flows from WIPER fuse to washer motor TERMINAL 2, rear wiper relay TERMINAL 3 and TERMINAL 4, and rear wiper motor TERMINAL 1 respectively.

1. REAR WIPER NORMAL OPERATION

When the ignition SW is turned on, and the rear wiper and washer SW is turned to ON position, the current flows from rear wiper relay (Coil side) to instrument ECU TERMINAL (C) 3 to TERMINAL (A) 17 to rear wiper and washer SW TERMINAL 10 to TERMINAL 2 to GROUND, and turns on the rear wiper relay. As a result, the current flows from rear wiper relay TERMINAL 3 to TERMINAL 2 to rear wiper motor TERMINAL 3 to TERMINAL 2 to GROUND, and operates the rear wiper.

2. REAR WIPER INTERMITTENT OPERATION

When the ignition SW is turned on, and the rear wiper and washer SW is turned to INT position, the current flows from rear wiper relay (Coil side) to instrument ECU TERMINAL (C) 3 to TERMINAL (A) 16 to rear wiper and washer SW TERMINAL 13 to TERMINAL 2 to GROUND, and the intermittent circuit in the instrument ECU is controlled to operate the wiper intermittently.

3. WASHER OPERATION

When the ignition SW is turned on, and the rear wiper and washer SW is turned from OFF to WASH position, the current flows from the WIPER fuse to washer motor TERMINAL 2 to TERMINAL 3 to rear wiper and washer SW TERMINAL 12 to TERMINAL 2 to GROUND. This activates the washer motor, and the window washer emits a water spray. When the rear wiper and washer SW is turned to ON position, the window washer emits a water spray during rear wiper normal operation.

SERVICE HINTS

W1 WASHER MOTOR

2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
3-GROUND : Continuity with rear wiper and washer SW at **WASH** position

R30 REAR WIPER MOTOR

1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
2-GROUND : Always continuity

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
C19		40	J19	41	R31	43
I19	A	40	J32	42	W1	39
I21	C	40	R30	43		

⬭ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
1H	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2O	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

▭ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
IH2		
BH1	58	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BH2		
BP1	58	Pillar No.1 Wire and Floor Wire (Left Rear Side Quarter Panel)
BP2		

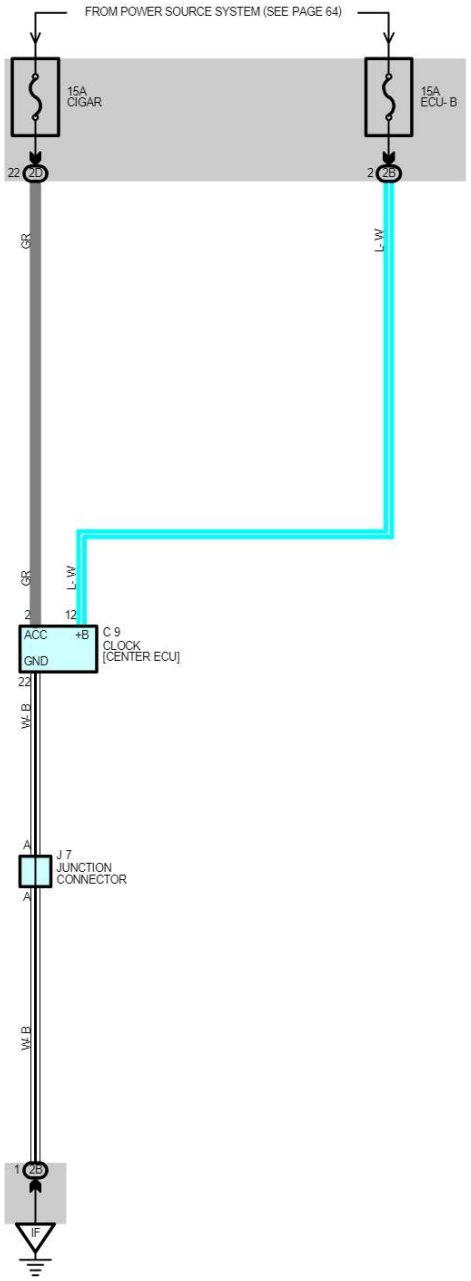
REAR WIPER AND WASHER

: GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
BM	56	Left Rear Side Quarter Panel

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E13	46	Engine Room No.2 Wire	B15	58	Back Door Upper Wire


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
15A
CIGAR
15A
ECU- B
22
2B
2
2B
GR
L-W
GR
L-W
2
12
ACC
+B
GND
C 9
CLOCK
[CENTER ECU]
22
W-B
A
J 7
JUNCTION
CONNECTOR
A
W-B
1
2B
1F

SERVICE HINTS

C9 CLOCK [CENTER ECU]

2-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position
12-GROUND : Always approx. **12** volts
22-GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C9	40	J7	41		

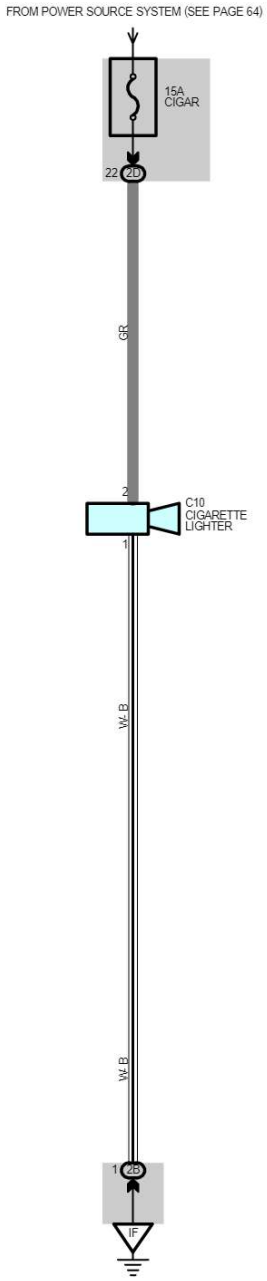
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		

: GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH

CIGARETTE LIGHTER



SERVICE HINTS

C10 CIGARETTE LIGHTER

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

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C10	40				

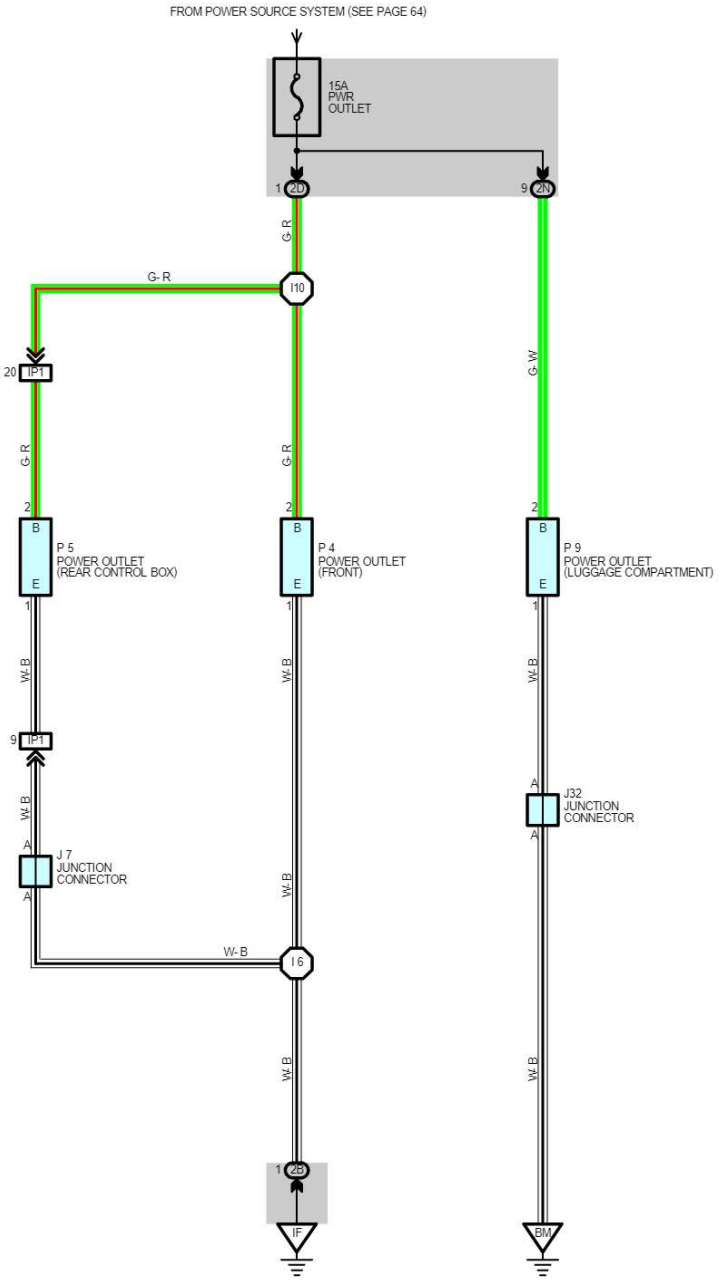
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		

: GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH

POWER OUTLET



SERVICE HINTS

P4 POWER OUTLET (FRONT)

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

P5 POWER OUTLET (REAR CONSOLE BOX)

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

P9 POWER OUTLET (LUGGAGE COMPARTMENT)

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

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J7	41	P4	41	P9	43
J32	42	P5	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

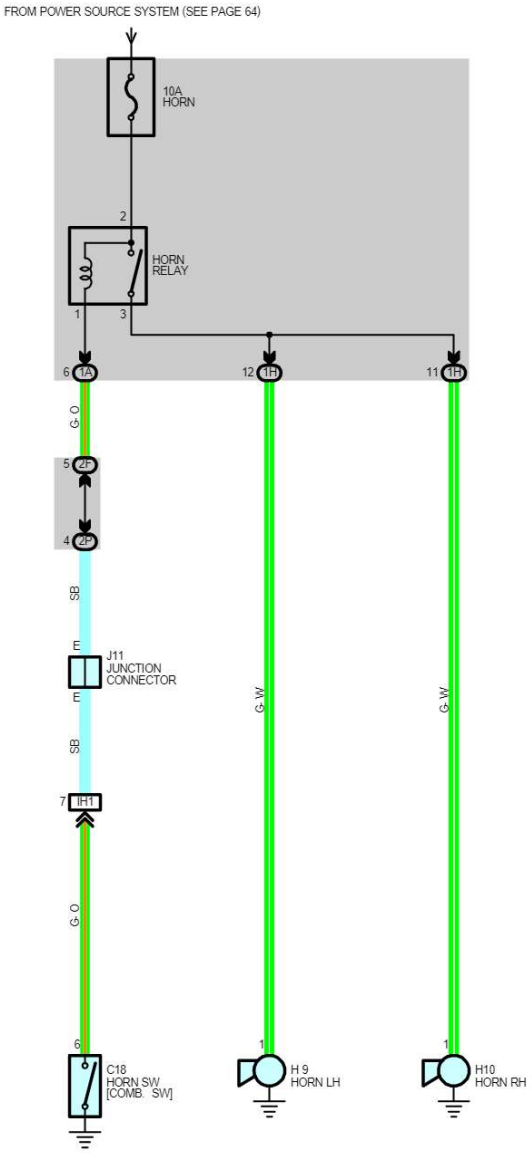
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IP1	52	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)

: GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
BM	56	Left Rear Side Quarter Panel

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I6	50	Dash Wire	I10	50	Dash Wire


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
10A
HORN
2
HORN
RELAY
1
3
6
1A
12
1H
11
1H
G-O
5
ZF
4
ZF
SB
E
J11
JUNCTION
CONNECTOR
E
SB
7
IH1
G-O
G-W
G-W
6
C18
HORN SW
[COMB. SW]
1
H 9
HORN LH
1
H10
HORN RH

SERVICE HINTS

HORN RELAY

2-3 : Closed horn SW on

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C18	40	H10	39		
H9	39	J11	41		

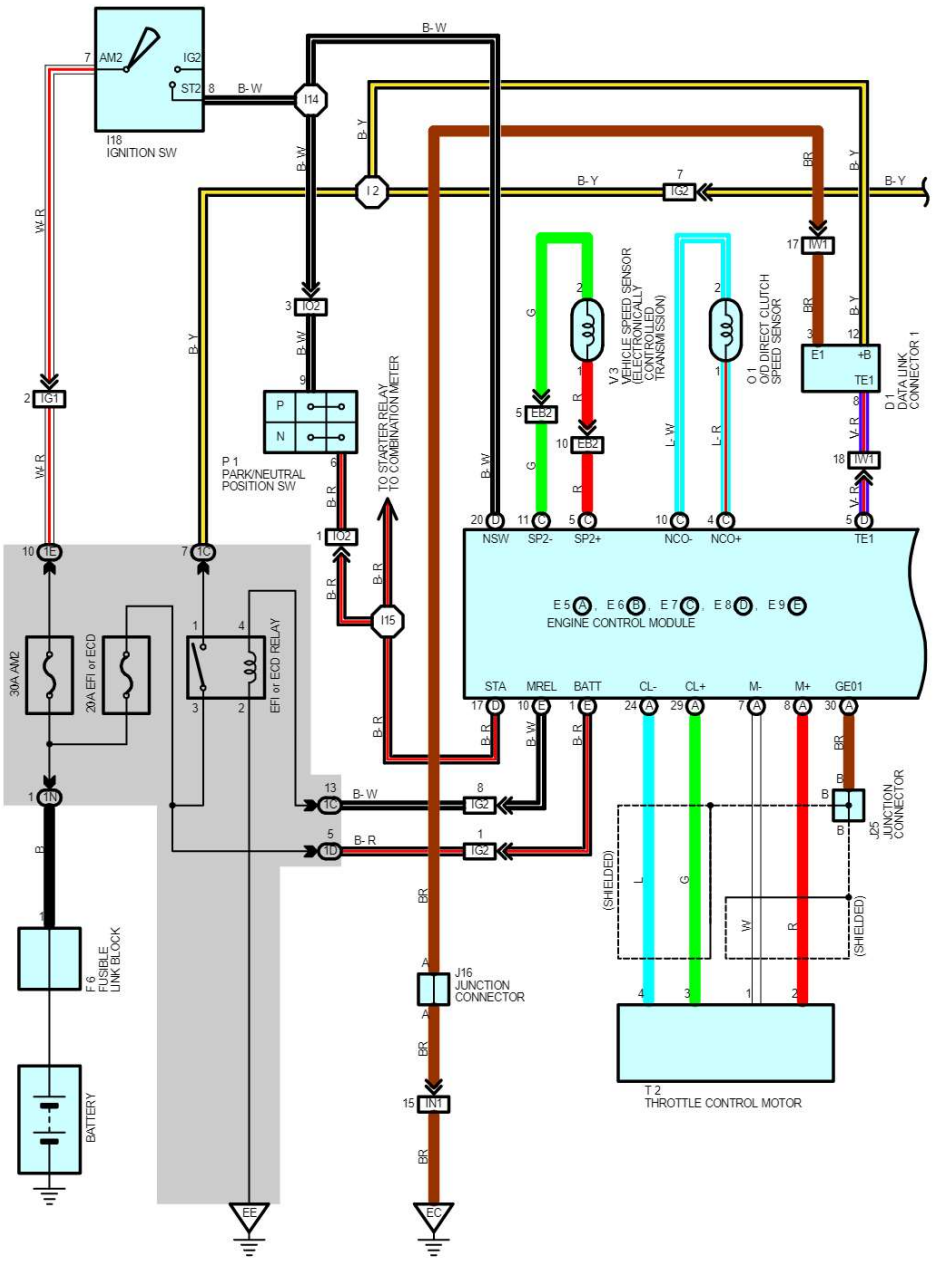
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

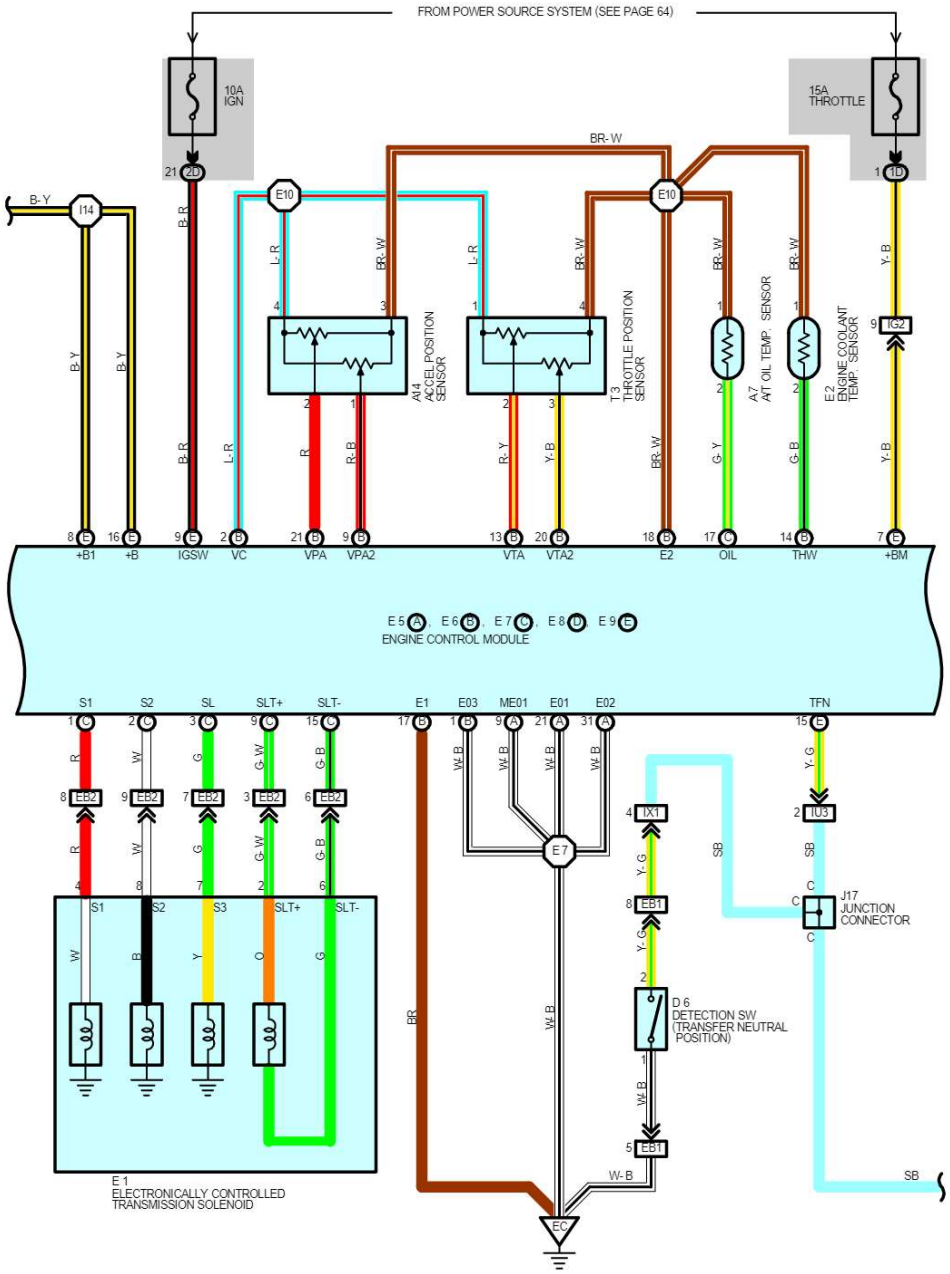
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1H	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

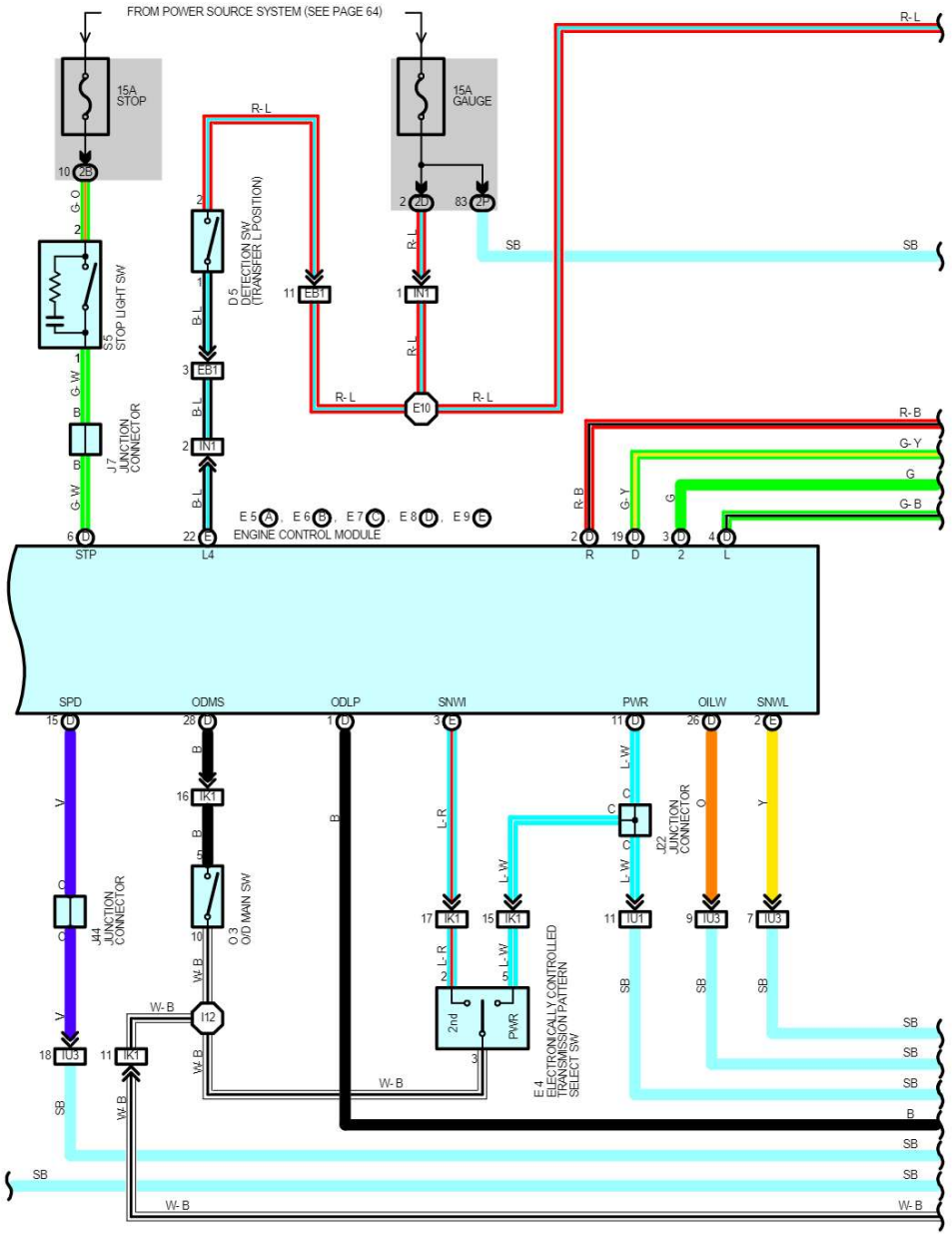
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)

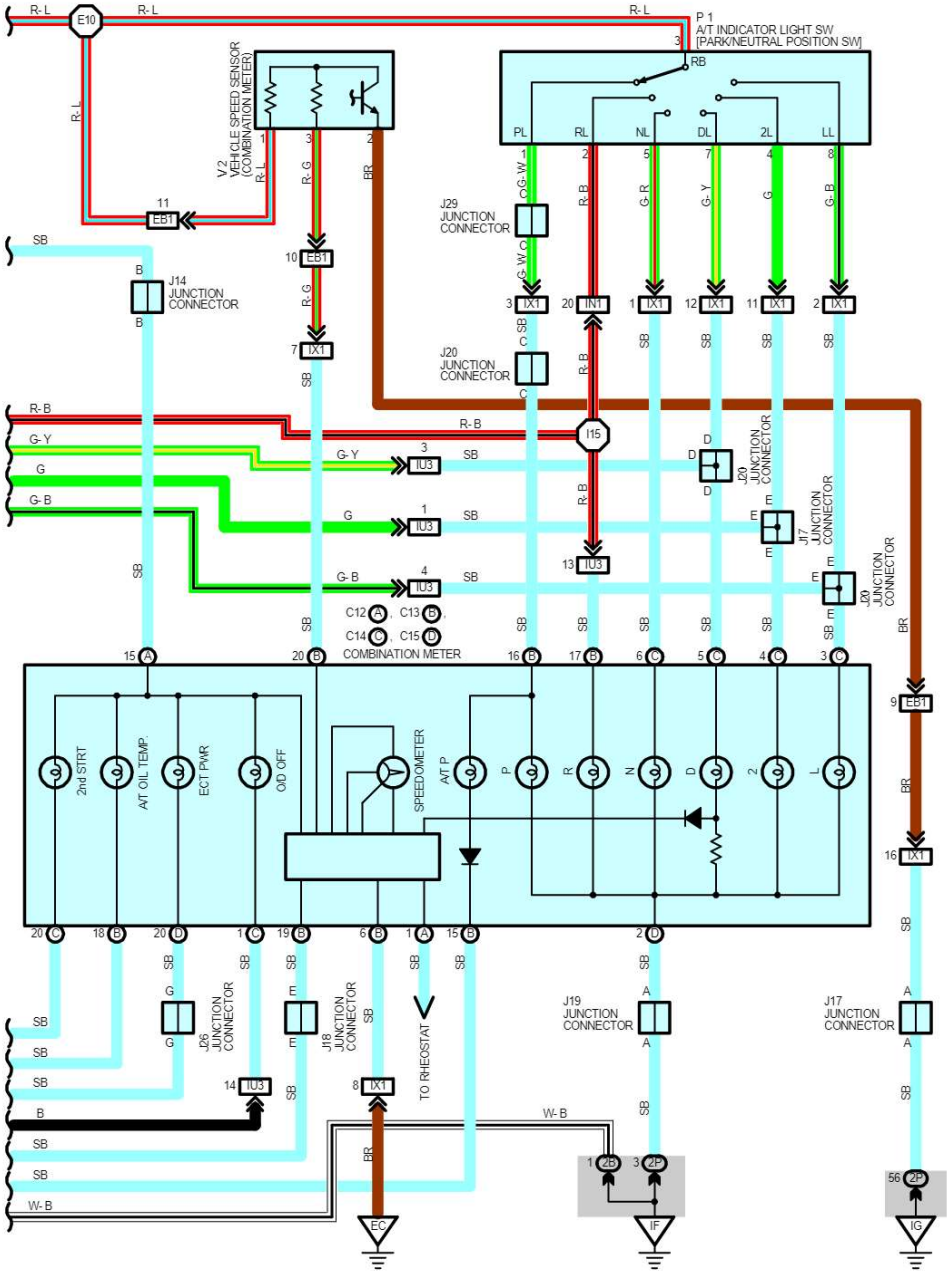
ELECTRONICALLY CONTROLLED TRANSMISSION AND A/T INDICATOR




FROM POWER SOURCE SYSTEM (SEE PAGE 64)
10A IGN
15A THROTTLE
BR-W
B-Y
I14
E10
E10
E10
B-R
L-R
BR-W
L-R
BR-W
BR-W
BR-W
Y-B
A14 ACCEL POSITION SENSOR
T3 THROTTLE POSITION SENSOR
A7 A/T OIL TEMP. SENSOR
E2 ENGINE COOLANT TEMP. SENSOR
IG2
R
R-B
R-Y
Y-B
BR-W
G-Y
G-B
Y-B
+B1
+B
IGSW
VC
VPA
VPA2
VTA
VTA2
E2
OIL
THW
+BM
E5 (A), E6 (B), E7 (C), E8 (D), E9 (E)
ENGINE CONTROL MODULE
S1
S2
SL
SLT+
SLT-
E1
E03
ME01
E01
E02
TFN
EB2
W-B
E7
IX1
IU3
Y-G
SB
EB1
J17 JUNCTION CONNECTOR
D 6 DETECTION SW (TRANSFER NEUTRAL POSITION)
BR
W-B
SB
E 1 ELECTRONICALLY CONTROLLED TRANSMISSION SOLENOID
EC

ELECTRONICALLY CONTROLLED TRANSMISSION AND A/T INDICATOR




E10
P 1
A/T INDICATOR LIGHT SW
[PARK/NEUTRAL POSITION SW]
V2
VEHICLE SPEED SENSOR
(COMBINATION METER)
J29
JUNCTION
CONNECTOR
J14
JUNCTION
CONNECTOR
J20
JUNCTION
CONNECTOR
I15
C12 (A), C13 (B),
C14 (C), C15 (D)
COMBINATION METER
2nd STRT
A/T OIL TEMP.
ECT PWR
O/D OFF
SPEEDOMETER
A/T P
P
R
N
D
2
L
J6
JUNCTION
CONNECTOR
J18
JUNCTION
CONNECTOR
J19
JUNCTION
CONNECTOR
J17
JUNCTION
CONNECTOR
TO RHEOSTAT
EC
IF
IG

ELECTRONICALLY CONTROLLED TRANSMISSION AND A/T INDICATOR

SYSTEM OUTLINE

The electronically controlled transmission electrically controls the, throttle pressure, lock-up pressure, and accumulator pressure etc. through the solenoid valve.
The electronically controlled transmission is a system which precisely controls the gear shift timing and lock-up timing in response to the vehicle's driving conditions and the engine condition detected by various sensors. It makes smooth driving possible by shift selection of the gear which is the most appropriate to the driving conditions at that time, and by preventing downing, squat and gear shift shock when starting off.

1. GEAR SHIFT OPERATION

When driving, the engine warm up condition is input as a control signal from the engine coolant temp. sensor to TERMINAL THW of the engine control module, and the vehicle speed is input to TERMINAL SP2+ of the engine control module from the vehicle speed sensor. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINALS VTA, VTA2 of the engine control module as a throttle angle signal. Based on these signals, the engine control module selects the best shift position for the driving conditions and sends current to the electronically controlled transmission solenoid.

2. LOCK-UP OPERATION

When the engine control module decides based on each signal that the lock-up condition has been met, the current flows from the engine control module TERMINAL SL to TERMINAL 7 of the electronically controlled transmission solenoid to GROUND.

3. STOP LIGHT SW CIRCUIT

If the brake pedal is depressed (Stop light SW on) when driving in lock-up position, a signal is input to TERMINAL STP of the engine control module. As a result, the engine control module cuts the current to the solenoid to release the lock-up.

4. ELECTRONICALLY CONTROLLED TRANSMISSION PATTERN SELECT SW CIRCUIT

When the electronically controlled transmission pattern select SW is switched to PWR, a signal is input to TERMINAL PWR of the engine control module, and the engine control module controls to enable shift-up and shift-down at a higher speed range than usual. In that case, the ECT PWR indicator light in the combination meter is lit up. When the electronically controlled transmission pattern select SW is switched to 2nd position, a signal is input to the engine control module TERMINAL SNWL, and through control of the engine control module, the gear shift of the transmission is made from 2nd position. The 2nd STRT indicator light in the combination meter is lit up.

5. OVERDRIVE CIRCUIT

* O/D main SW on
  When the O/D main SW is turned on (SW point is open), a signal is input to TERMINAL ODMS of the engine control module and engine control module operation causes gear shift when the conditions for overdrive are met.
* O/D main SW off
  When the O/D main SW is turned off (SW point is closed), a signal is input into TERMINAL ODMS of the engine control module, and turns on the O/D off indicator light. This activates the ECU, and the transmission system is controlled not to shift to overdrive.

6. TRANSFER SHIFT OPERATION

When the transfer shift lever is moved to L position, a signal is input into TERMINAL L4 of the engine control module.
In addition when the transfer shift lever is moved to N position a signal is input to engine control module TERMINAL TFN.
The engine control module detects the transfer condition through this.

SERVICE HINTS

E4 ELECTRONICALLY CONTROLLED TRANSMISSION PATTERN SELECT SW

5-3 : Closed with select SW at **PWR** position
2-3 : Closed with select SW at **2nd** position

E6 (B), E8 (D), E9 (E) ENGINE CONTROL MODULE

BATT-E1 : Always **9.0- 14.0** volts
+B-E1 : **9.0- 14.0** volts with ignition SW at **ON** or **ST** position
+B1-E1 : **9.0- 14.0** volts with ignition SW at **ON** or **ST** position
NSW-E1 : **9.0- 14.0** volts with ignition SW at **ST** position
: **0- 3.0** volts with ignition SW on and shift lever in **P** or **N** position
STA-E1 : **6.0** volts or more with ignition SW at **ST** position and shift lever in **P** or **N** position

P1 A/T INDICATOR LIGHT SW [PARK/NEUTRAL POSITION SW]

3-1 : Closed with shift lever in **P** position
3-2 : Closed with shift lever in **R** position
3-5 : Closed with shift lever in **N** position
3-7 : Closed with shift lever in **D** position
3-4 : Closed with shift lever in **2** position
3-8 : Closed with shift lever in **L** position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A7	38	E6 B	40	J22	41
A14	38	E7 C	40	J25	41
C12 A	40	E8 D	40	J26	41
C13 B	40	E9 E	40	J29	41
C14 C	40	F6	38	J44	41
C15 D	40	I18	40	O1	39
D1	38	J7	41	O3	41
D5	38	J14	41	P1	39
D6	38	J16	41	S5	41
E1	38	J17	41	T2	39
E2	38	J18	41	T3	39
E4	40	J19	41	V2	39
E5 A	40	J20	41	V3	39

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1D		
1E		
1N	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

ELECTRONICALLY CONTROLLED TRANSMISSION AND A/T INDICATOR

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

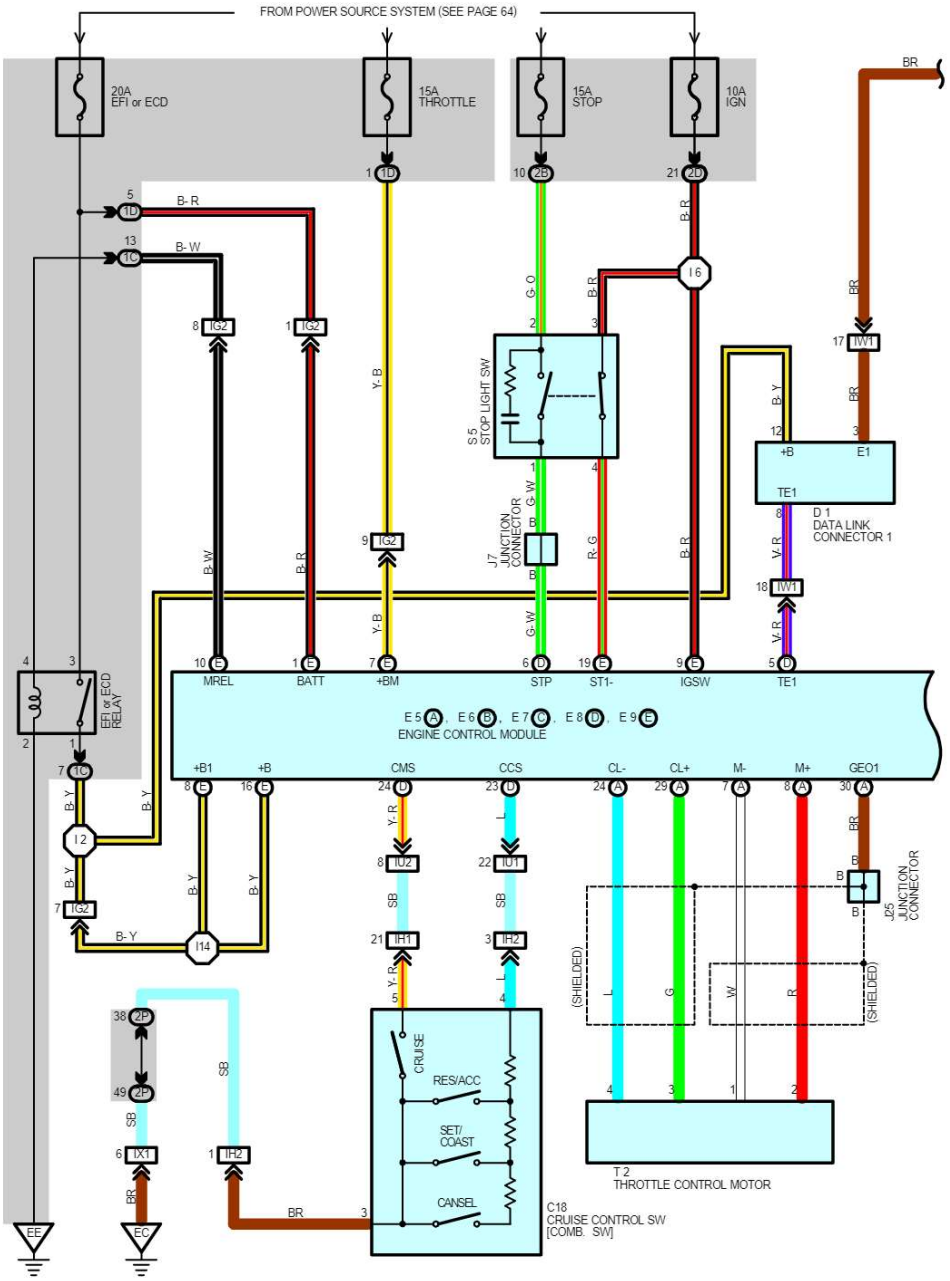
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	46	Engine Wire and Transmission Wire (On the Transmission)
EB2		
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG2		
IK1	50	Console Box Wire and Dash Wire (Left Side of Front Console)
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
IO2		
IU1	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU3		
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IX1	54	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)

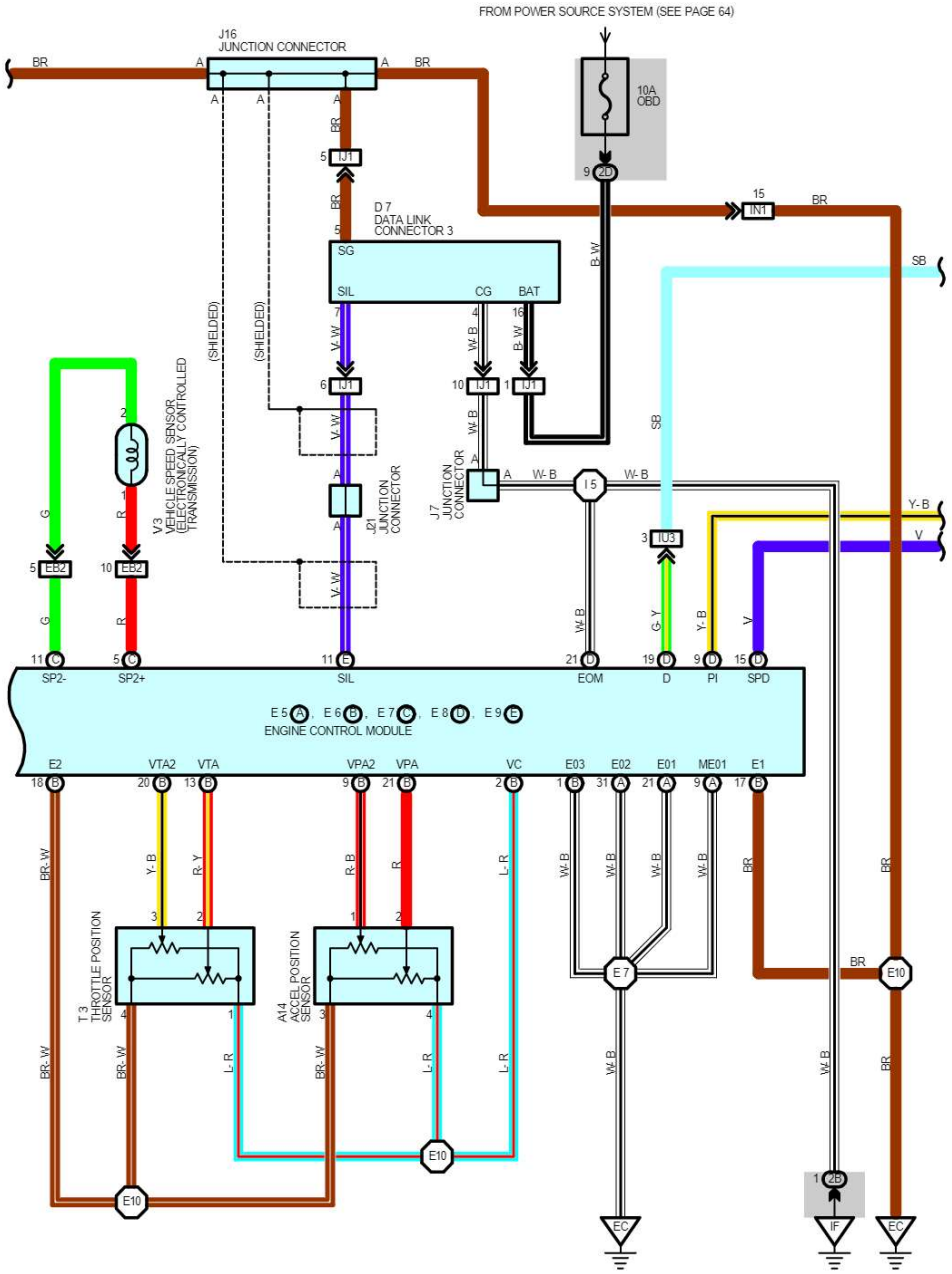
: GROUND POINTS

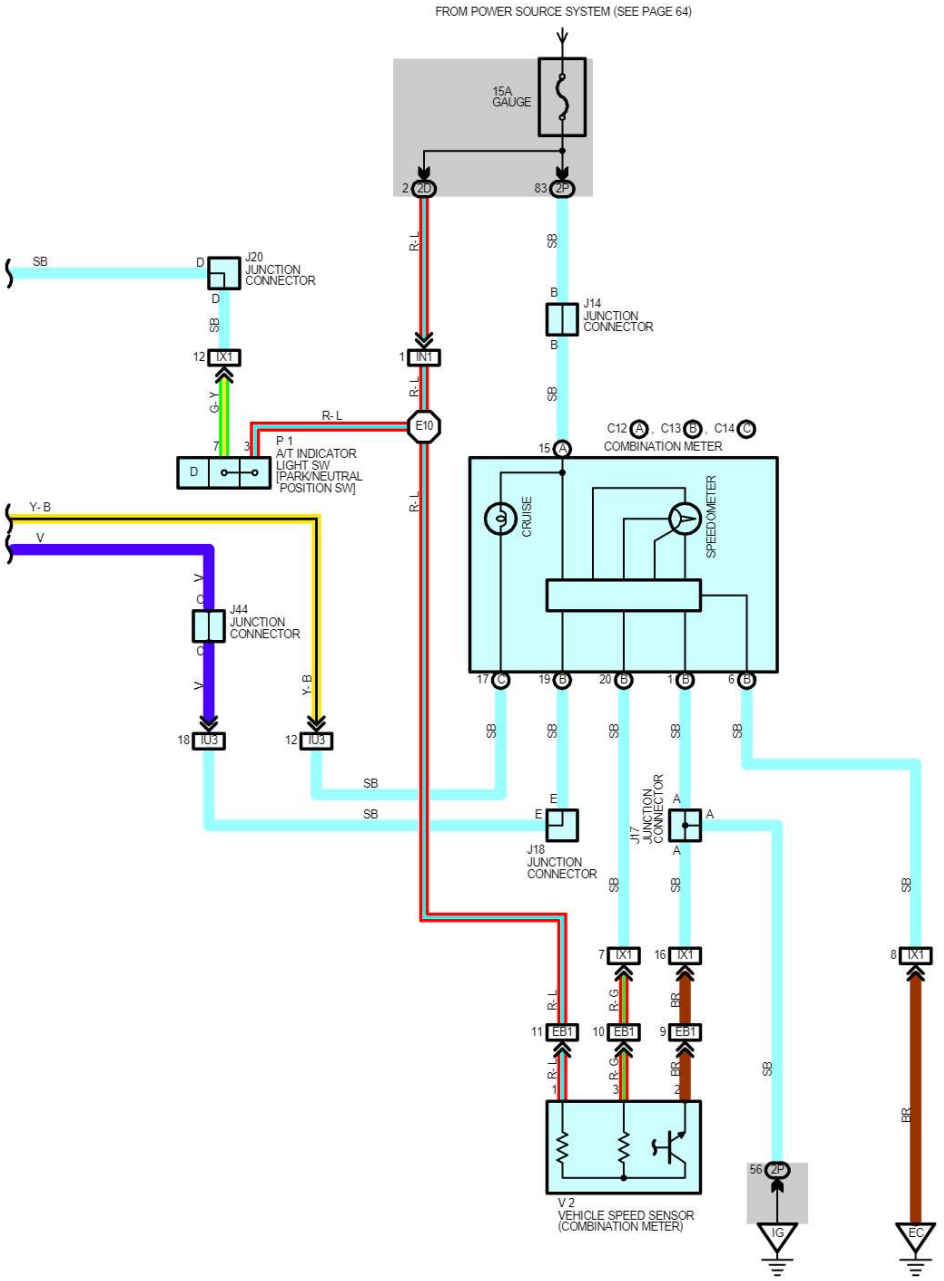
Code	See Page	Ground Points Location
EC	46	Rear Bank of Right Cylinder Head
EE	46	Front Left Side of Fender Apron
IF	48	Set Bolt of Cowl Side J/B LH
IG		

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E7	46	Engine Wire	I12	50	Console Box Wire
E10			I14	50	Dash Wire
I2	50	Engine Room No.2 Wire	I15		


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
20A EFI or ECD
15A THROTTLE
15A STOP
10A IGN
B-R
B-W
G-O
B-R
BR
B-Y
S5 STOP LIGHT SW
J7 JUNCTION CONNECTOR
+B
E1
TE1
D1 DATA LINK CONNECTOR 1
MREL
BATT
+BM
STP
ST1-
IGSW
TE1
EFI or ECD RELAY
E5 A, E6 B, E7 C, E8 D, E9 E
ENGINE CONTROL MODULE
+B1
+B
CMS
CCS
CL-
CL+
M-
M+
GEO1
J25 JUNCTION CONNECTOR
(SHIELDED)
SB
Y-R
L
G
W
R
CRUISE
RES/ACC
SET/ COAST
CANSEL
C18 CRUISE CONTROL SW [COMB. SW]
T2 THROTTLE CONTROL MOTOR
EE
EC


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
J16
JUNCTION CONNECTOR
10A
OBD
D 7
DATA LINK
CONNECTOR 3
SG
SIL
CG
BAT
(SHIELDED)
V3
VEHICLE SPEED SENSOR
(ELECTRONICALLY CONTROLLED
TRANSMISSION)
J1
JUNCTION
CONNECTOR
J7
JUNCTION
CONNECTOR
I 5
IU3
IN1
EB2
SP2-
SP2+
SIL
EOM
D
PI
SPD
ENGINE CONTROL MODULE
E2
VTA2
VTA
VPA2
VPA
VC
E03
E02
E01
ME01
E1
T 3
THROTTLE POSITION
SENSOR
A14
ACCEL POSITION
SENSOR
E7
E10
2B
EC
IF
BR
BR-W
W-B
Y-B
R-Y
R-B
R
L-R
G
G-Y
V
V-W
B-W
SB


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
15A GAUGE
2 2D
83 2P
R-L
SB
J20 JUNCTION CONNECTOR
J14 JUNCTION CONNECTOR
12 IX1
1 IN1
G-Y
P 1 A/T INDICATOR LIGHT SW [PARK/NEUTRAL POSITION SW]
E10
C12 A, C13 B, C14 C
15 A
COMBINATION METER
CRUISE
SPEEDOMETER
Y-B
V
J44 JUNCTION CONNECTOR
18 IU3
12 IU3
17 C
19 B
20 B
1 B
6 B
J18 JUNCTION CONNECTOR
J17 JUNCTION CONNECTOR
7 IX1
16 IX1
8 IX1
BR
11 EB1
10 EB1
9 EB1
V 2 VEHICLE SPEED SENSOR (COMBINATION METER)
56 2P
IG
EC

SYSTEM OUTLINE

The cruise control system is a constant vehicle speed controller which controls the opening angle of the engine throttle valve by the SW, and allows driving at a constant speed without depressing the accelerator pedal.

SET OPERATION

When the CRUISE SW is turned on, the systems starts preparations for cruise control and turns on the indicator light in the combination meter.

SET SPEED CONTROL

When the SET/COAST SW is operated with the CRUISE SW turned on during driving, the speed is controlled at a constant speed.

COAST CONTROL

When the SET/COAST SW is kept turned on during cruise control driving, the engine control module controls the throttle valve to decelerate the vehicle speed.
Every time the SET/COAST SW is turned on instantaneously, the vehicle speed is decelerated approx. 1.5 km/h.

ACCEL CONTROL

When the RES/ACC SW is kept turned on during cruise control driving, the engine control module controls the throttle valve to accelerate the vehicle speed.
Every time the SET/COAST SW is turned on instantaneously, the vehicle speed is accelerated approx. 1.5 km/h.

RESUME CONTROL

If the vehicle speed is within the low speed limit (Approx. 40 km/h, 25 mph) when canceling the cruise control, operation of the RES/ACC SW accelerates the vehicle speed and resumes the level before canceling the cruise control.

MANUAL CANCEL MECHANISM

If any of the following signals are input during cruise control driving, the cruise control is canceled.
- The stop light SW is on
- The CANCEL SW is turned on
- The CRUISE SW is turned off

AUTO CANCEL FUNCTION

If any of the following conditions are detected, the cruise control is canceled:
- Failure in the stop light SW wiring
- Abnormality in the vehicle speed signal
- Malfunction in the electronically controlled throttle parts

OVERDRIVE FUNCTION

The overdrive may be canceled if the vehicle travels on a upward slope during cruise control driving. After the overdrive is canceled, if the vehicle speed exceeds the overdrive return speed (Set speed (2 km/h, 1.2 mph)) and it is determined that the slope has finished, and the vehicle returns to overdrive mode again.

SERVICE HINTS

E5 (A), E6 (B), E8 (D), E9 (E) ENGINE CONTROL MODULE

IGSW-E1 : **9.0- 14.0** volts with ignition SW at **ON** or **ST** position
BATT-E1 : Always approx. **9.0- 14.0** volts
STP-E1 : Approx. **12** volts with stop light SW at on
: Below **1.5** volts with brake pedal is released

C18 CRUISE CONTROL SW [COMB. SW]

4-3 : Approx. **418** Ω with CANCEL SW on
: Approx. **198** Ω with SET/COAST SW on
: Approx. **68** Ω with RES/ACC SW on

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A14	38	E7 C	40	J21	41
C12 A	40	E8 D	40	J25	41
C13 B	40	E9 E	40	J44	41
C14 C	40	J7	41	P1	39
C18	40	J14	41	S5	41
D1	38	J16	41	T2	39
D7	40	J17	41	T3	39
E5 A	40	J18	41	V2	39
E6 B	40	J20	41	V3	39

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1D		
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

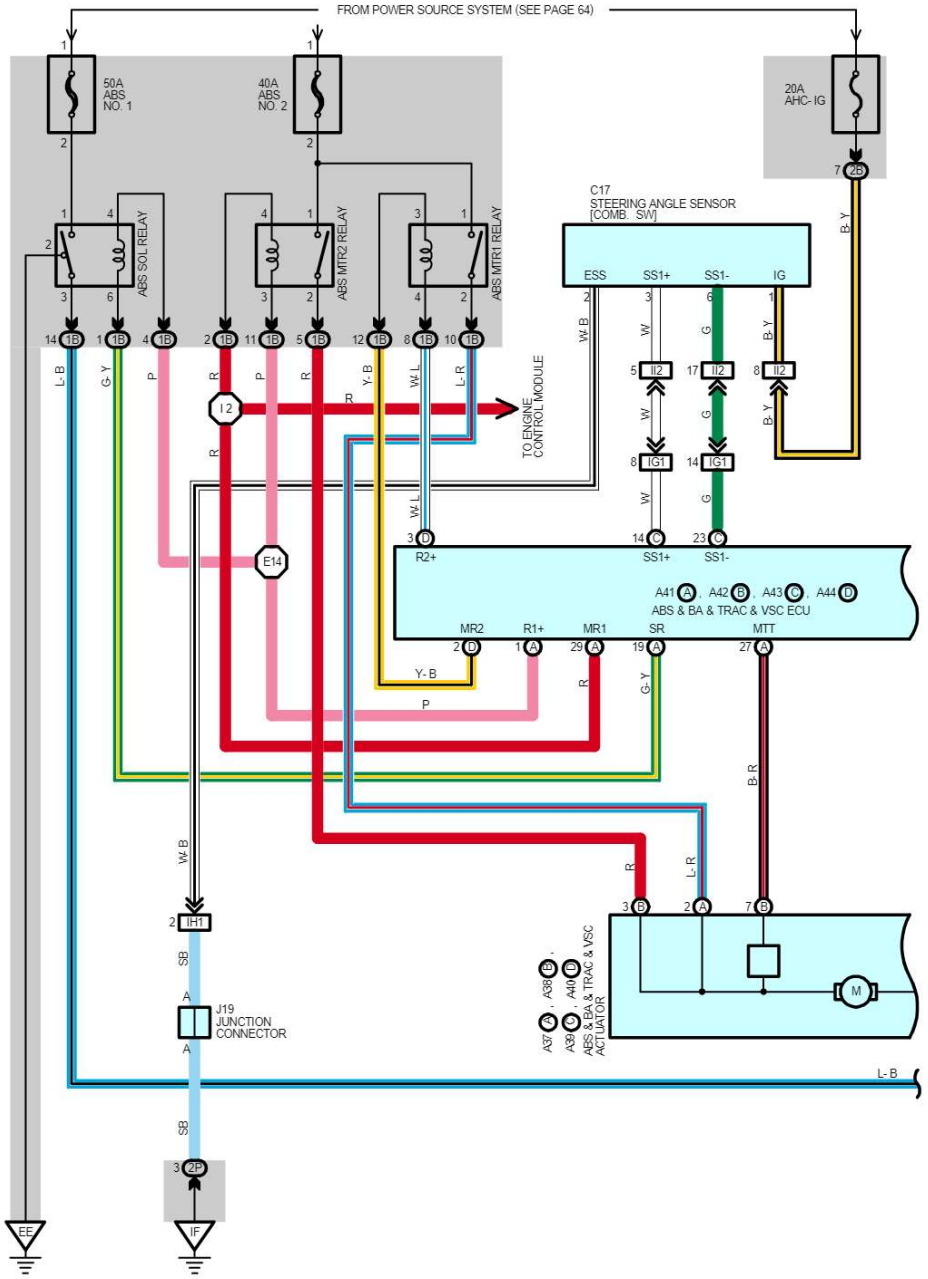
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	46	Engine Wire and Transmission Wire (On the Transmission)
EB2		
IG2	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
IH2		
IJ1	50	Dash Wire and Detector Wire (Instrument Panel Center)
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
IU1	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU2		
IU3		
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IX1	54	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)

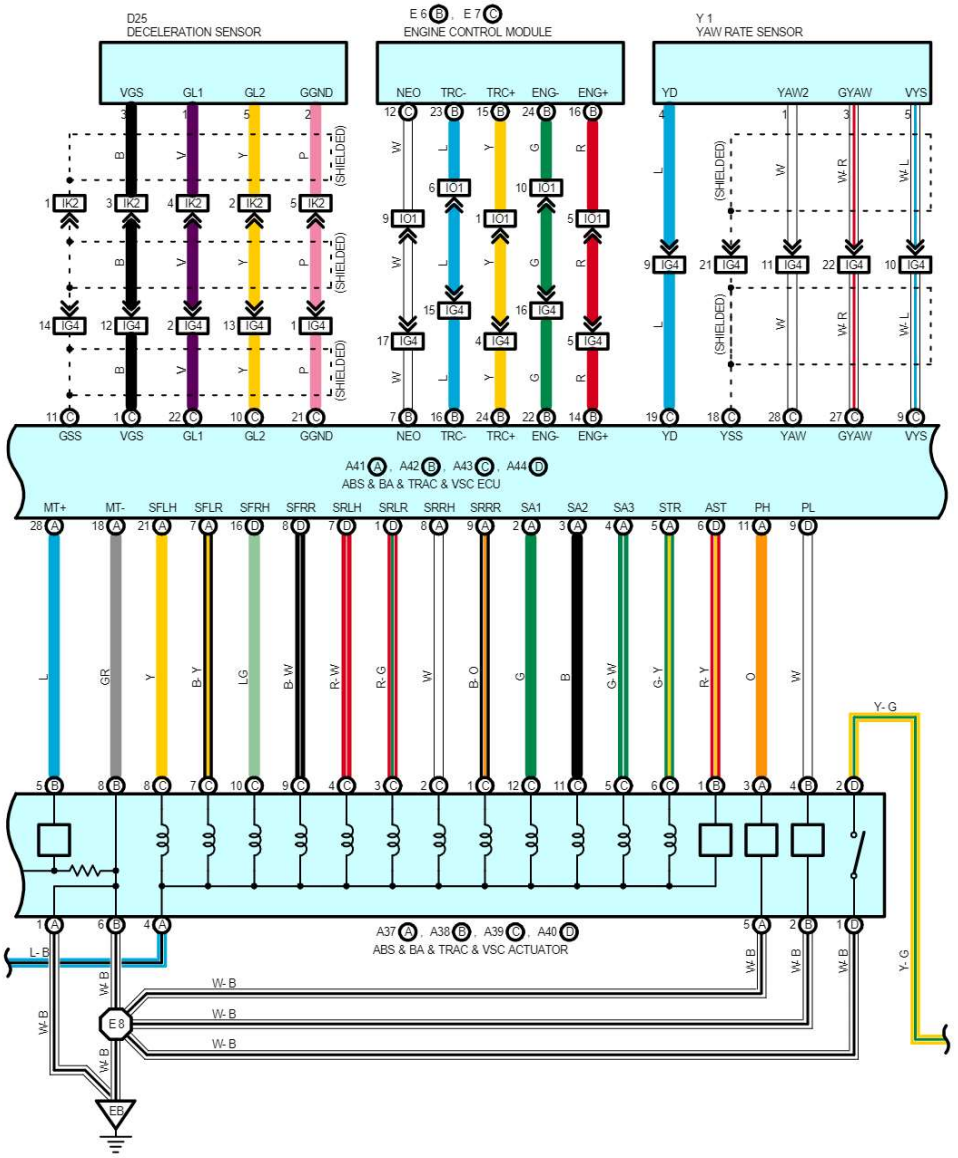
: GROUND POINTS

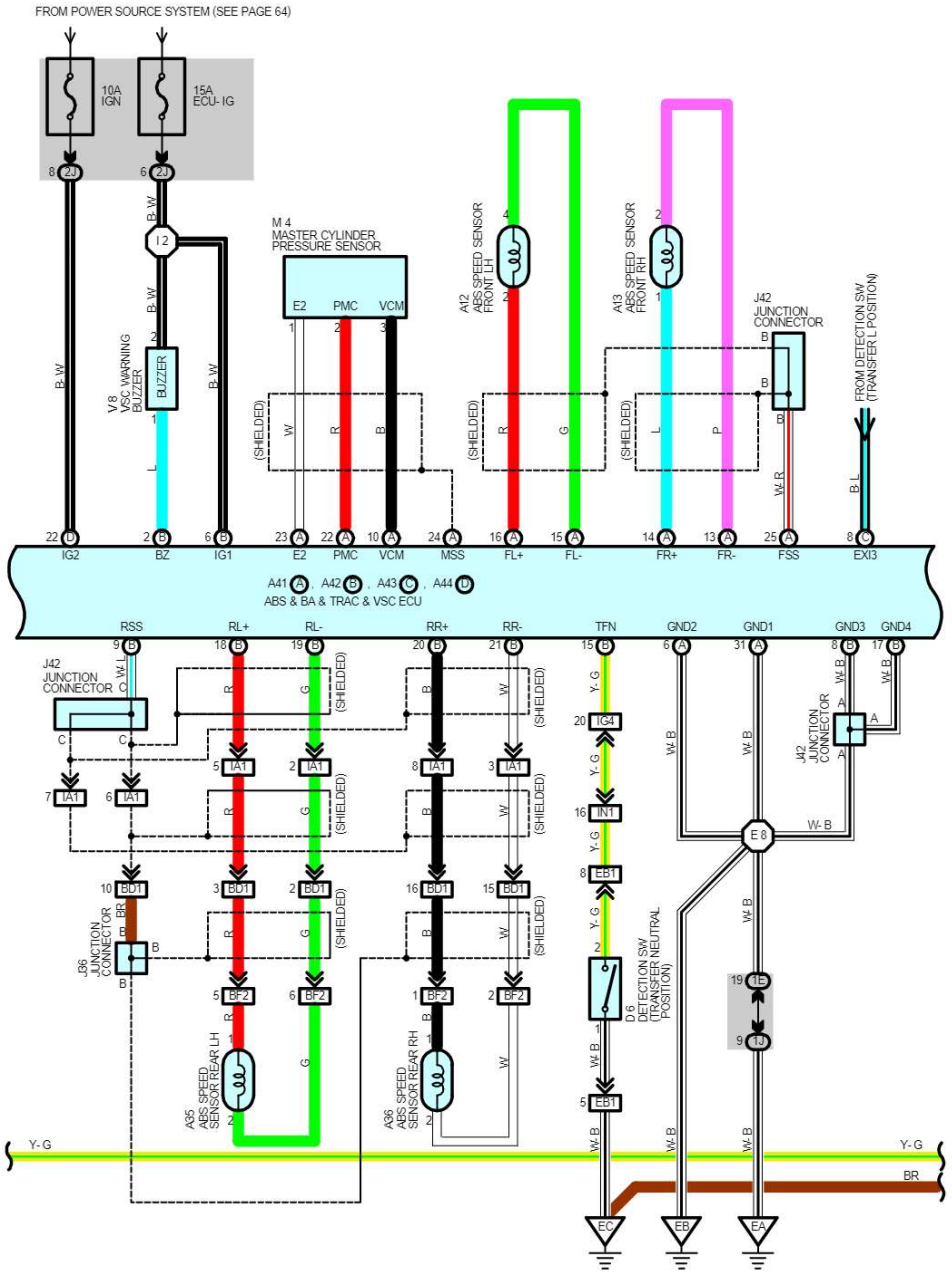
Code	See Page	Ground Points Location
EC	46	Rear Bank of Right Cylinder Head
EE	46	Front Left Side of Fender Apron
IF	48	Set Bolt of Cowl Side J/B LH
IG		

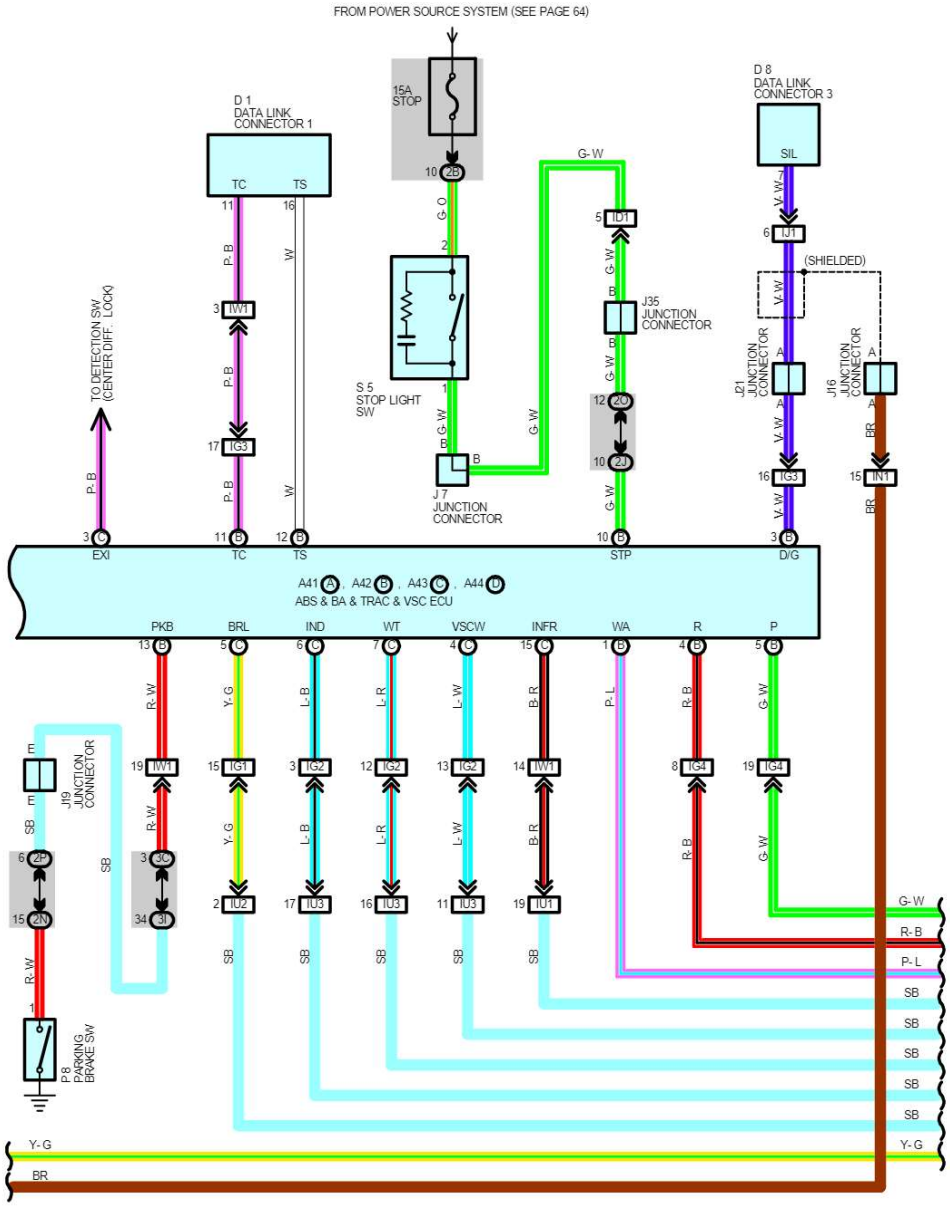
: SPLICE POINTS

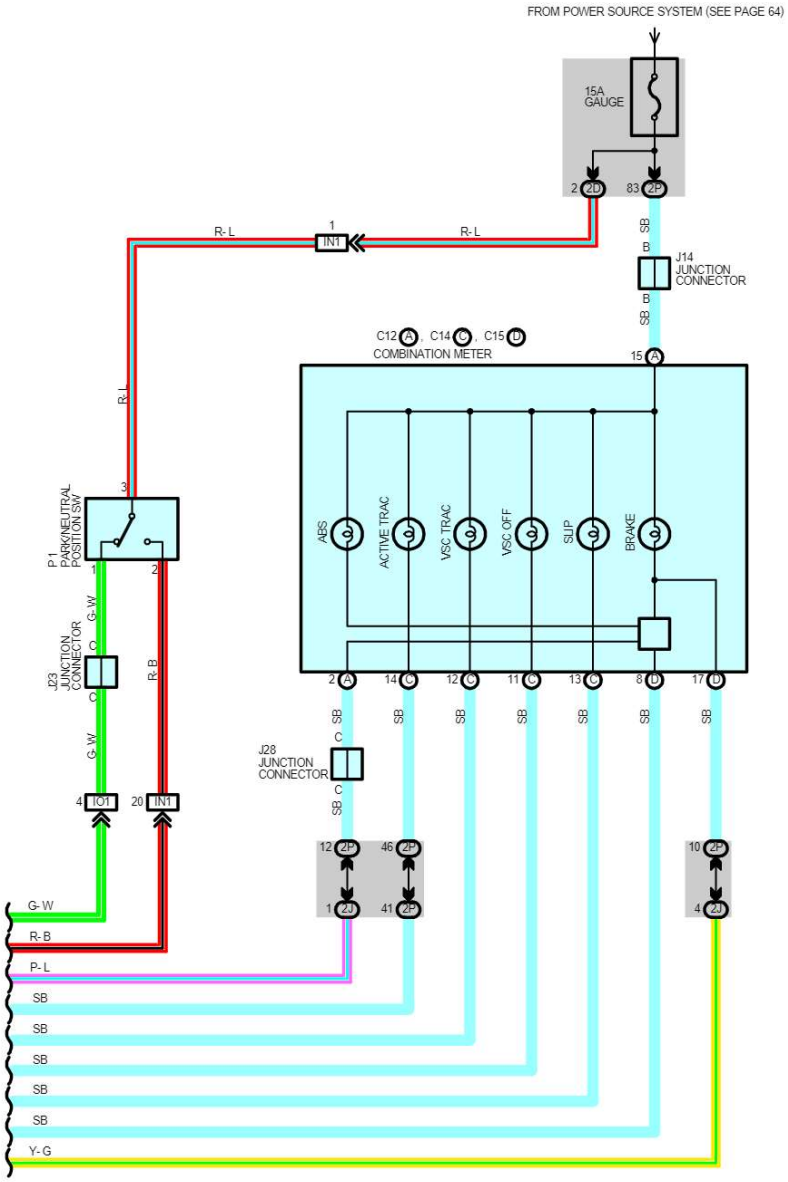
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E7	46	Engine Wire	I5	50	Dash Wire
E10			I6		
I2	50	Engine Room No.2 Wire	I14		


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
50A ABS NO. 1
40A ABS NO. 2
20A AHC- IG
ABS SOL RELAY
ABS MTR2 RELAY
ABS MTR1 RELAY
C17
STEERING ANGLE SENSOR [COMB. SW]
ESS
SS1+
SS1-
IG
TO ENGINE CONTROL MODULE
R2+
SS1+
SS1-
A41 , A42 , A43 , A44
ABS & BA & TRAC & VSC ECU
MR2
R1+
MR1
SR
MTT
J19 JUNCTION CONNECTOR
ABS & BA & TRAC & VSC ACTUATOR
M
EE
IF
L- B
G- Y
P
R
Y- B
W- L
L- R
W- B
SB
B- Y
B- R
W
G


D25
DECELERATION SENSOR
VGS
GL1
GL2
GGND
E 6 , E 7
ENGINE CONTROL MODULE
NEO
TRC-
TRC+
ENG-
ENG+
Y 1
YAW RATE SENSOR
YD
YAW2
GYAW
VYS
(SHIELDED)
IK2
IG4
IO1
GSS
YSS
YAW
A41 , A42 , A43 , A44
ABS & BA & TRAC & VSC ECU
MT+
MT-
SFLH
SFLR
SFRH
SFRR
SRLH
SRLR
SRRH
SRRR
SA1
SA2
SA3
STR
AST
PH
PL
L
GR
Y
B-Y
L-G
B-W
R-W
R-G
W
B-O
G
B
G-W
G-Y
R-Y
O
W
Y-G
A37 , A38 , A39 , A40
ABS & BA & TRAC & VSC ACTUATOR
L-B
W-B
E8
EB


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
10A IGN
15A ECU-IG
M 4 MASTER CYLINDER PRESSURE SENSOR
A12 ABS SPEED SENSOR FRONT LH
A13 ABS SPEED SENSOR FRONT RH
J42 JUNCTION CONNECTOR
V 8 VSC WARNING BUZZER
BUZZER
FROM DETECTION SW (TRANSFER L POSITION)
IG2
BZ
IG1
E2
PMC
VCM
MSS
FL+
FL-
FR+
FR-
FSS
EXI3
A41 , A42 , A43 , A44
ABS & BA & TRAC & VSC ECU
RSS
RL+
RL-
RR+
RR-
TFN
GND2
GND1
GND3
GND4
J42 JUNCTION CONNECTOR
J36 JUNCTION CONNECTOR
A35 ABS SPEED SENSOR REAR LH
A36 ABS SPEED SENSOR REAR RH
D6 DETECTION SW (TRANSFER NEUTRAL POSITION)
E 8
(SHIELDED)
Y- G
W- B
BR
EC
EB
EA


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
15A STOP
D 1 DATA LINK CONNECTOR 1
D 8 DATA LINK CONNECTOR 3
TC
TS
SIL
S 5 STOP LIGHT SW
J7 JUNCTION CONNECTOR
J35 JUNCTION CONNECTOR
J21 JUNCTION CONNECTOR
J16 JUNCTION CONNECTOR
J19 JUNCTION CONNECTOR
TO DETECTION SW (CENTER DIFF. LOCK)
(SHIELDED)
EXI
STP
D/G
A41 A42 A43 A44
ABS & BA & TRAC & VSC ECU
PKB
BRL
IND
WT
VSCW
INFR
WA
R
P
P8 PARKING BRAKE SW
G-W
R-B
P-L
SB
Y-G
BR


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
15A GAUGE
2 2D
83 2P
R-L
1 IN1
R-L
SB
B
J14 JUNCTION CONNECTOR
B
SB
C12 A, C14 C, C15 D
COMBINATION METER
15 A
R-L
3
P1 PARK/NEUTRAL POSITION SW
1
2
G-W
C
J23 JUNCTION CONNECTOR
C1
R-B
G-W
4 TC1
20 IN1
ABS
ACTIVE TRAC
VSC TRAC
VSC OFF
SLIP
BRAKE
2 A
14 C
12 C
11 C
13 C
8 D
17 D
SB
C
J28 JUNCTION CONNECTOR
C
SB
12 2P
46 2P
1 2J
41 2P
10 2P
4 2J
G-W
R-B
P-L
SB
SB
SB
SB
SB
Y-G

SYSTEM OUTLINE

1. ABS OPERATION

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

2. TRACTION CONTROL OPERATION

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

3. VSC OPERATION

Unexpected road conditions, vehicle speed, emergency situation, and any other external factors may cause large under- or over-steering of the vehicle. If this occurs, the VSC system automatically controls the engine power and wheel brakes to reduce the under- or over-steering.
To reduce large over-steering :
If the VSC system determines that the over-steering is large, it activates the brakes for the outer turning wheels depending on the degree of the over-steering to produce the moment toward the outside of the vehicle and reduce the over-steering.
To reduce large under-steering :
If the VSC system determines that the under-steering is large, it controls the engine power and activates the rear wheel brakes to reduce the under-steering.
VSC indicator light
If an error occurs in the VSC system, the VSC indicator lights up to warn the driver.

4. TRACTION MODE AND VSC FUNCTION

When the center differential of the transfer is locked, the VSC function is turned off. At this time, the VSC OFF indicator light in the combination meter will come on, and informs the driver that the VSC function is OFF.

5. MUTUAL SYSTEM CONTROL

To efficiently operate the VSC system at its optimal level, the VSC system and other control systems are mutually controlled while the VSC system is being operated.
Engine throttle control
The engine power does not interfere with the VSC brake control by controlling the opening of the throttle and reducing the engine output.
Engine control and electronically controlled transmission control
The strong braking force does not interfere with the braking force control of the VSC system by turning off the accel. and reducing changes in the driving torque at shift-down.
VSC system operation indication
The slip indicator light flashes and the buzzer sounds intermittently to warn the driver that the current road is slippery, while the VSC system is being operated.

6. FAIL SAFE FUNCTION

If an error occurs in the ABS & BA & TRAC & VSC ECU, sensor signals, and/or actuators, the ABS & BA & TRAC & VSC ECU inhibits the brake actuator control and inputs the error signal to the engine control module. According to the error signal, the brake actuator turns off the solenoid and the engine control module rejects any electronically controlled throttle open request from the VSC system. As a result, the vehicle functions without the ABS, TRAC, and VSC systems.

SERVICE HINTS

A41 (A), A42 (B), A43 (C), A44 (D) ABS & BA & TRAC & VSC ECU

(B) 6-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(D)22-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(B)10-GROUND : Approx. **12** volts with brake pedal depressed
(A)8, (A) 31, (B) 8, (B) 17-GROUND : Always continuity
(B)12-GROUND : Approx. **12** volts with ignition SW at **ON** position and data link connector 1 **TS-E1** not connected
(B)11-GROUND : Approx. **12** volts with ignition SW at **ON** position and data link connector 1 **TC-E1** not connected

A12 ABS SPEED SENSOR FRONT LH

2-4 : Approx. **1.07** kΩ (**20** °C, **68** °F)

A13 ABS SPEED SENSOR FRONT RH

1-2 : Approx. **1.07** kΩ (**20** °C, **68** °F)

A35, A36 ABS SPEED SENSOR REAR LH, RH

1-2 : Approx. **1.2** kΩ (**25** °C, **77** °F)

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A12	38	C14 C	40	J21	41
A13	38	C15 D	40	J23	41
A35	42	C17	40	J28	41
A36	42	D1	38	J35	42
A37 A	38	D6	38	J36	42
A38 B	38	D8	40	J42	41
A39 C	40	D25	40	M4	39
A40 D	40	E6 B	40	P1	39
A41 A	40	E7 C	40	P8	43
A42 B	40	J7	41	S5	41
A43 C	40	J14	41	V8	41
A44 D	40	J16	41	Y1	41
C12 A	40	J19	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1E		
1J	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2J	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2O		
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3C	32	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: **CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS**

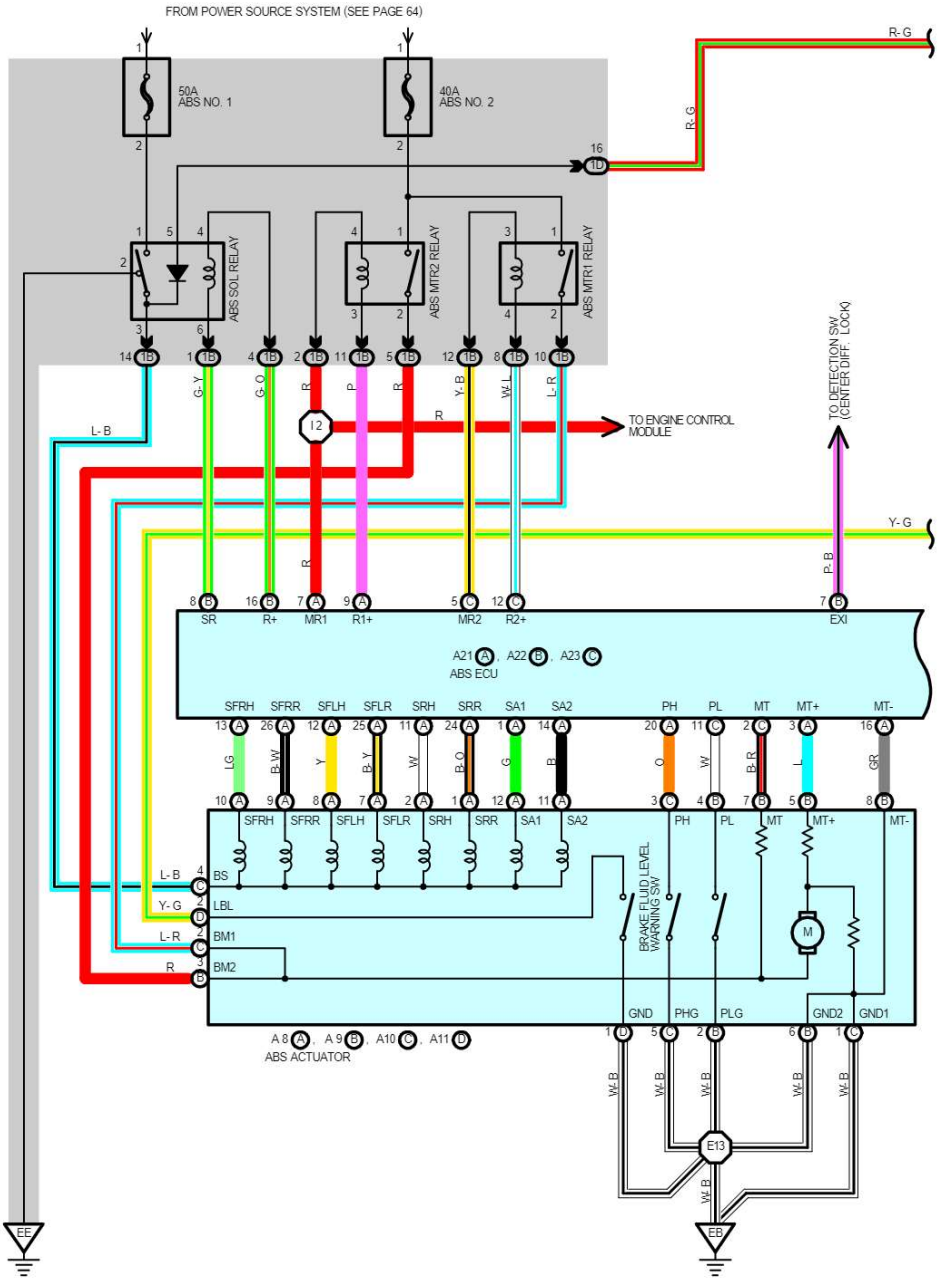
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	46	Engine Wire and Transmission Wire (On the Transmission)
IA1	48	Floor Wire and Engine Room No.2 Wire (Left Kick Panel)
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG2		
IG3		
IG4		
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
II2	50	Column Wire and Dash Wire (Near the Ignition SW)
IJ1	50	Dash Wire and Detector Wire (Instrument Panel Center)
IK2	50	Console Box Wire and Dash Wire (Left Side of Front Console)
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
IO1		
IU1	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU2		
IU3		
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
BD1	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BF2	56	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)

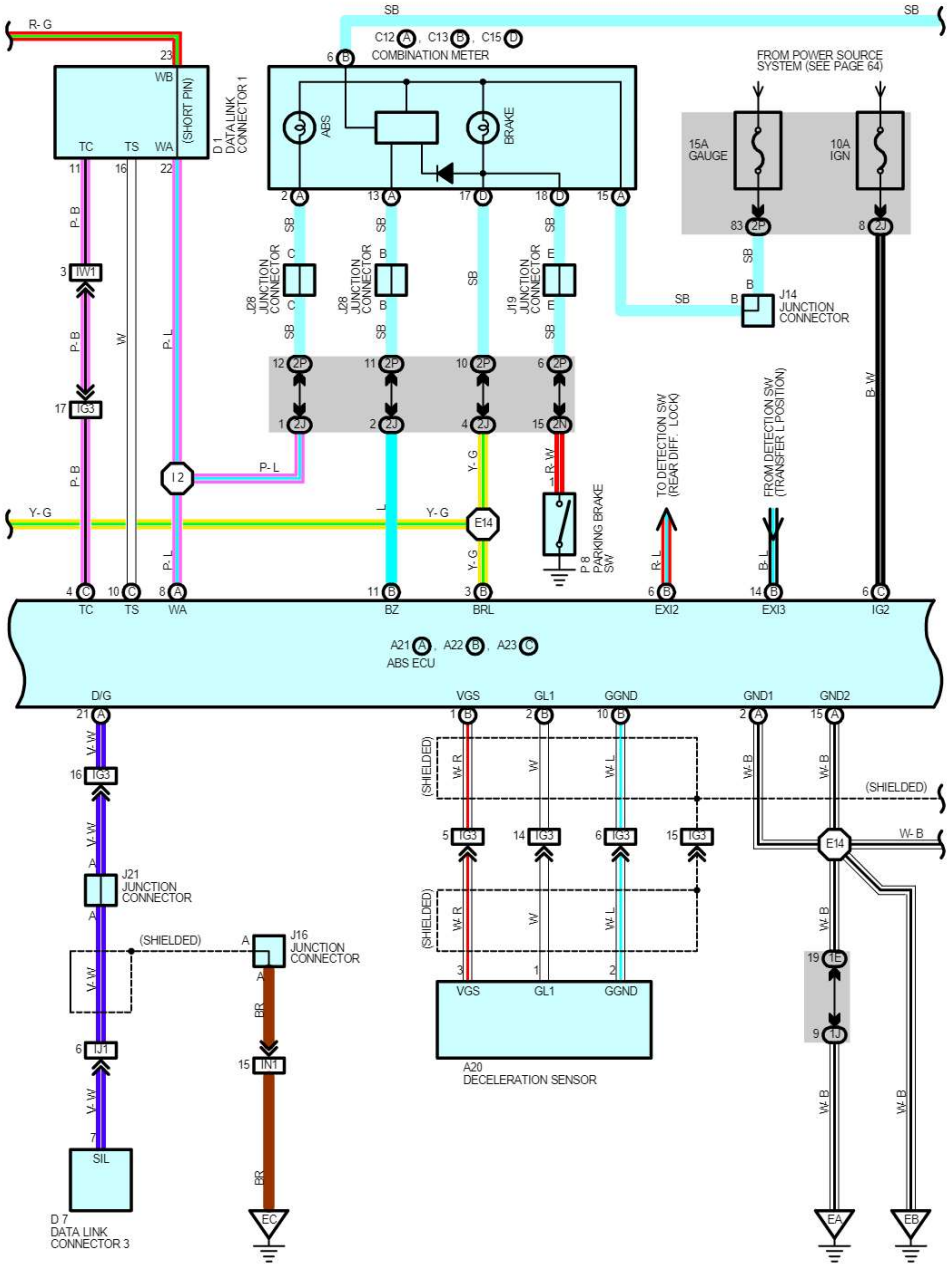
: **GROUND POINTS**

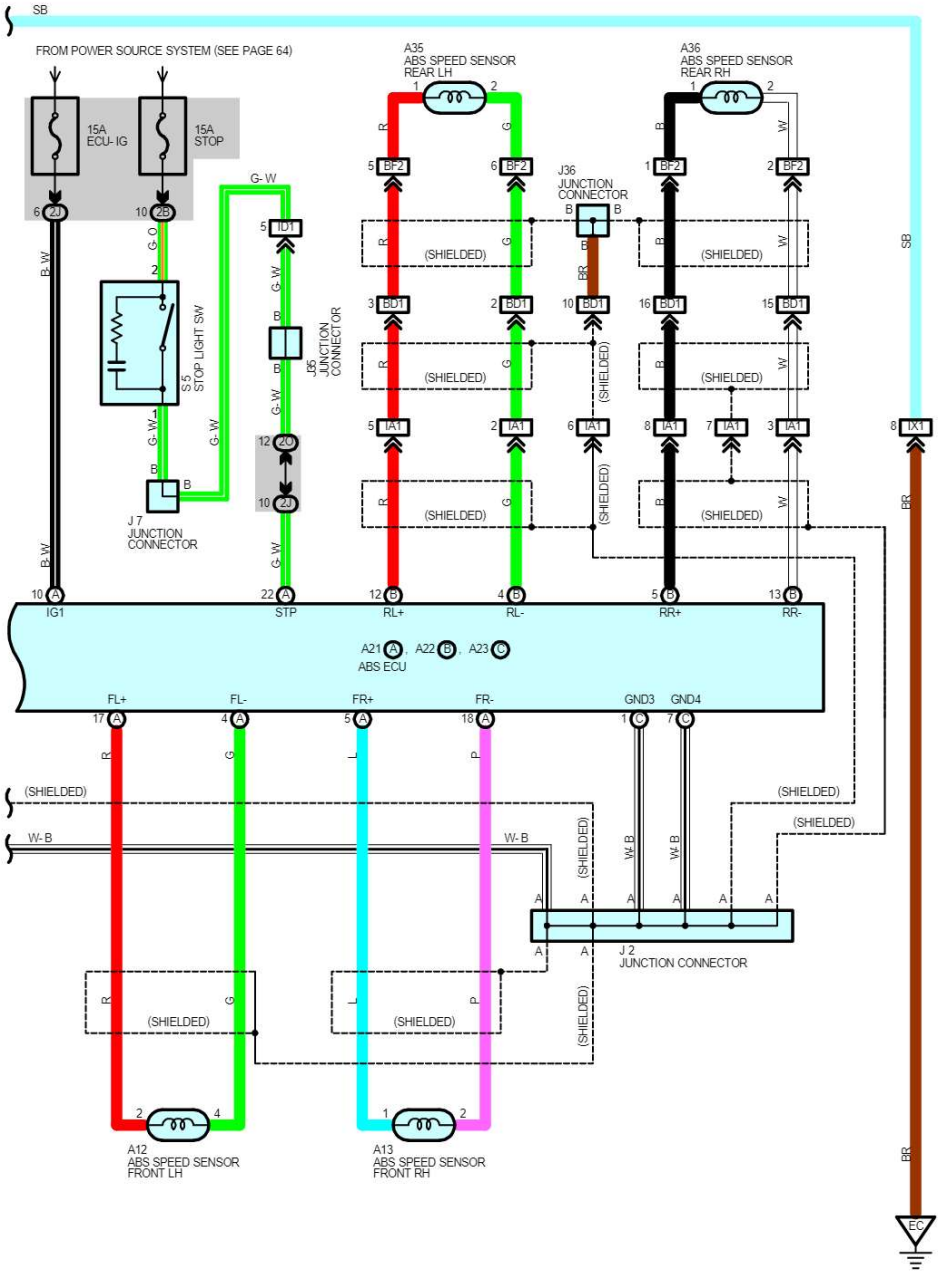
Code	See Page	Ground Points Location
EA	46	Front Right Side of Fender Apron
EB		
EC	46	Rear Bank of Right Cylinder Head
EE	46	Front Left Side of Fender Apron
IF	48	Set Bolt of Cowl Side J/B LH

: **SPLICE POINTS**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E8	46	Transmission Wire	I2	50	Engine Room No.2 Wire
E14	46	Engine Room No.2 Wire			


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
50A
ABS NO. 1
40A
ABS NO. 2
R-G
ABS SOL RELAY
ABS MTR2 RELAY
ABS MTR1 RELAY
TO ENGINE CONTROL MODULE
TO DETECTION SW (CENTER DIFF. LOCK)
L-B
Y-G
P-B
SR
R+
MR1
R1+
MR2
R2+
EXI
A21, A22, A23
ABS ECU
SFRH
SFRR
SFLH
SFLR
SRH
SRR
SA1
SA2
PH
PL
MT
MT+
MT-
BS
LBL
BM1
BM2
BRAKE FLUID LEVEL WARNING SW
GND
PHG
PLG
GND2
GND1
A8, A9, A10, A11
ABS ACTUATOR
E13
EE
EB


R-G
SB
SB
C12 A , C13 B , C15 D
COMBINATION METER
FROM POWER SOURCE SYSTEM (SEE PAGE 64)
WB
(SHORT PIN)
D1 DATA LINK CONNECTOR 1
TC TS WA
ABS
BRAKE
15A GAUGE
10A IGN
J28 JUNCTION CONNECTOR
J19 JUNCTION CONNECTOR
J14 JUNCTION CONNECTOR
IW1
IG3
I2
E14
P-B
P-L
W
Y-G
L
SB
R-W
B-W
R-L
B-L
P-8 PARKING BRAKE SW
TO DETECTION SW (REAR DIFF. LOCK)
FROM DETECTION SW (TRANSFER L POSITION)
TC TS WA BZ BRL EXI2 EXI3 IG2
A21 A , A22 B , A23 C
ABS ECU
D/G
VGS GL1 GGND GND1 GND2
V-W
W-R
W-L
W-B
(SHIELDED)
J21 JUNCTION CONNECTOR
J16 JUNCTION CONNECTOR
IJ1
IN1
BR
SIL
D 7 DATA LINK CONNECTOR 3
EC
A20 DECELERATION SENSOR
IE
IJ
EA
EB


SB
FROM POWER SOURCE SYSTEM (SEE PAGE 64)
15A
ECU- IG
15A
STOP
G-W
B-W
G-O
S-5
STOP LIGHT SW
J 7
JUNCTION
CONNECTOR
J6
JUNCTION
CONNECTOR
A35
ABS SPEED SENSOR
REAR LH
A36
ABS SPEED SENSOR
REAR RH
J36
JUNCTION
CONNECTOR
(SHIELDED)
IG1
STP
RL+
RL-
RR+
RR-
A21 , A22 , A23
ABS ECU
FL+
FL-
FR+
FR-
GND3
GND4
W-B
J 2
JUNCTION CONNECTOR
A12
ABS SPEED SENSOR
FRONT LH
A13
ABS SPEED SENSOR
FRONT RH
BR
EC

SYSTEM OUTLINE

ABS OPERATION

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

FAIL-SAFE FUNCTION

If an error occurs in the ABS ECU, sensor signals, and/or actuators, the ABS ECU inhibits the brake actuator control. According to this, the brake actuator turns off the solenoid, and the vehicle operates without the ABS system.

SERVICE HINTS

A21 (A), A22 (B), A23 (C) ABS ECU

(A)10-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(C) 6-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(A)22-GROUND : Approx. **12** volts with brake pedal depressed
(A) 2, (A) 15, (C) 1, (C) 7-GROUND : Always continuity
(C)10-GROUND : Approx. **12** volts with ignition SW at **ON** position and the data link connector 1 **TS-E1** not connected
(C) 4-GROUND : Approx. **12** volts with ignition SW at **ON** position and the data link connector 1 **TC-E1** not connected

A11 (D) BRAKE FLUID LEVEL WARNING SW [ABS ACTUATOR]

(D) 2-(D) 1 : Closed with the float down

A12 ABS SPEED SENSOR FRONT LH

2-4 : Approx. **1.07** kΩ (**20**°C, **68**°F)

A13 ABS SPEED SENSOR FRONT RH

1-2 : Approx. **1.07** kΩ (**20**°C, **68**°F)

A35, A36 ABS SPEED SENSOR REAR LH, RH

1-2 : Approx. **1.2** kΩ (**25**°C, **77**°F)

: PARTS LOCATION

Code		See Page	Code		See Page	Code	See Page
A8	A	38	A35		42	J16	41
A9	B	38	A36		42	J19	41
A10	C	38	C12	A	40	J21	41
A11	D	38	C13	B	40	J28	41
A12		38	C15	D	40	J35	42
A13		38	D1		38	J36	42
A20			D7		40	P8	43
A21	A	40	J2		41	S5	41
A22	B	40	J7		41		
A23	C	40	J14		41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1D		
1E		
1J	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2J	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2O		
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Floor Wire and Engine Room No.2 Wire (Left Kick Panel)
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)
IG3	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IJ1	50	Dash Wire and Detector Wire (Instrument Panel Center)
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IX1	54	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
BD1	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BF2	56	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)

: GROUND POINTS

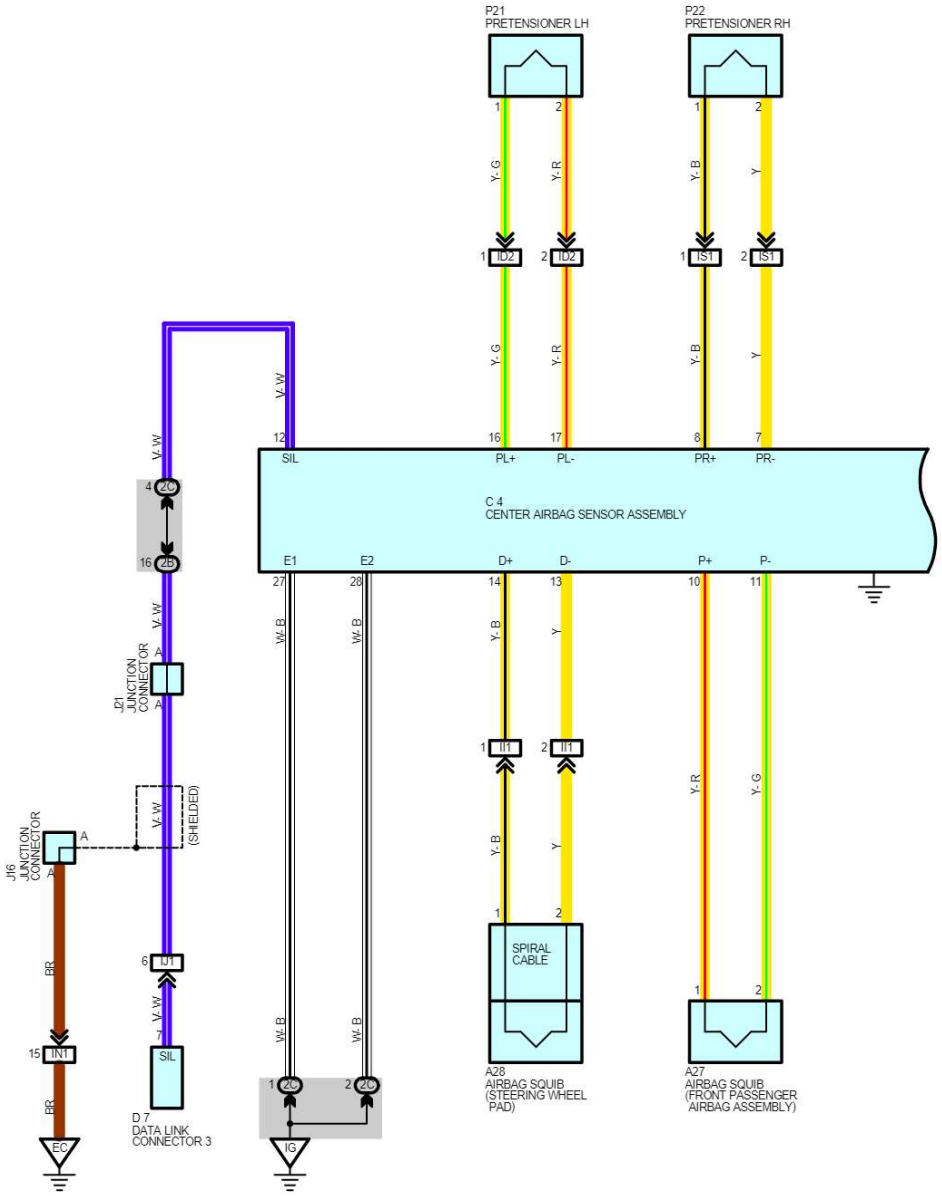
Code	See Page	Ground Points Location
EA	46	Front Right Side of Fender Apron
EB		
EC	46	Rear Bank of Right Cylinder Head
EE	46	Front Left Side of Fender Apron

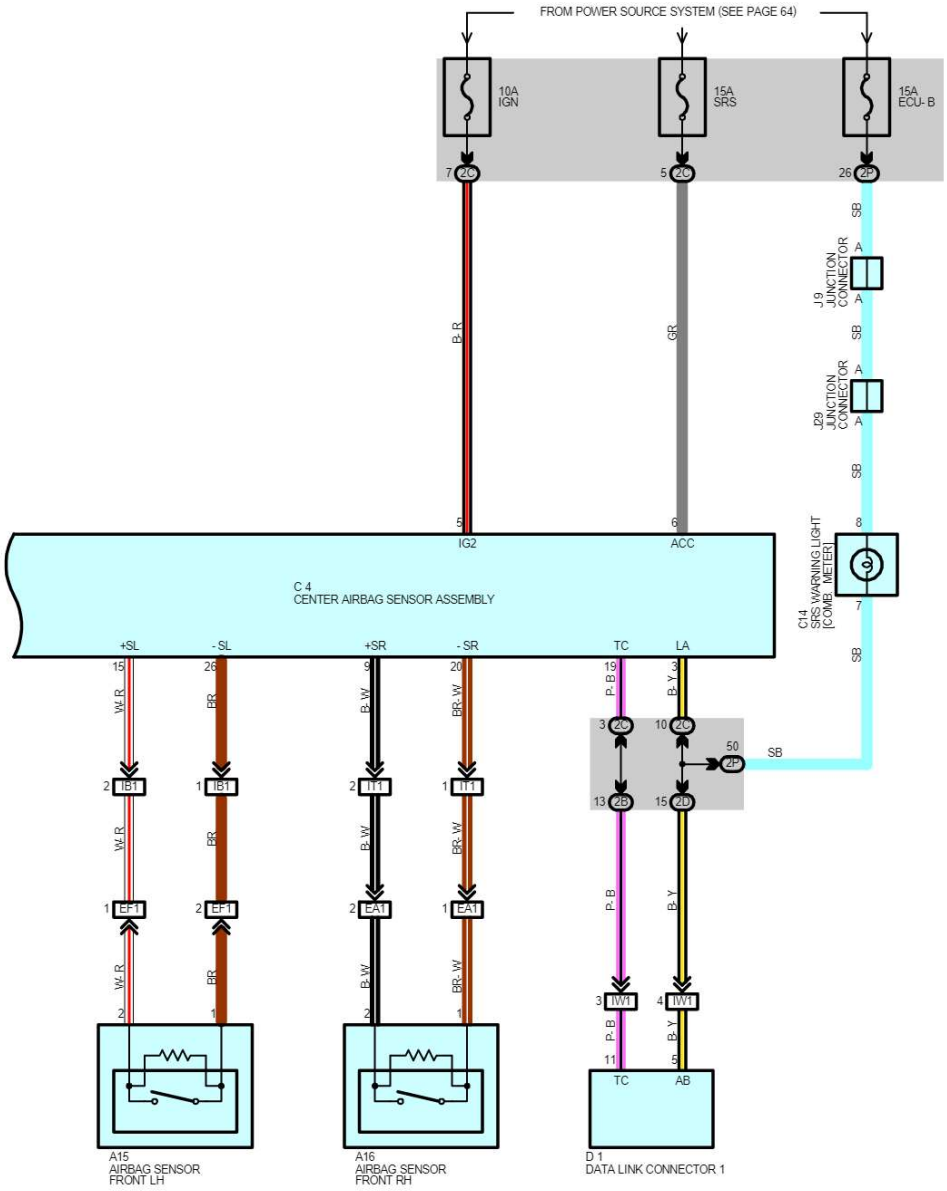
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E13	46	Engine Room No.2 Wire	I2	50	Engine Room No.2 Wire
E14					

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. This vehicle has power tilt and power telescopic steering, power seat and power outside rear view mirror which are all equipped with memory function. However, it is not possible to make a record of the memory contents. So when the work is finished, it will be necessary to explain this fact tot the customer, and ask the customer to adjust the features and reset the memory. 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, seat belt pretensioner and center airbag sensor assembly 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, seat belt pretensioner and center 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, seat belt pretensioner and center airbag sensor assembly in order to reuse it.
- If the steering wheel pad, front passenger airbag assembly, seat belt pretensioner and center 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.


P21
PRETENSIONER LH
P22
PRETENSIONER RH
1
2
Y-G
Y-R
Y-B
Y
1D2
1S1
V-W
12
SIL
16
17
8
7
PL+
PL-
PR+
PR-
C 4
CENTER AIRBAG SENSOR ASSEMBLY
4
2C
16
2B
E1
E2
D+
D-
P+
P-
27
28
14
13
10
11
W-B
1I1
J21
JUNCTION
CONNECTOR
A
(SHIELDED)
J16
JUNCTION
CONNECTOR
BR
6
1J1
15
1INT
7
SIL
SPIRAL
CABLE
A28
AIRBAG SQUIB
(STEERING WHEEL
PAD)
A27
AIRBAG SQUIB
(FRONT PASSENGER
AIRBAG ASSEMBLY)
D 7
DATA LINK
CONNECTOR 3
EC
IG


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
10A
IGN
15A
SRS
15A
ECU- B
7 2C
5 2C
26 2F
B-R
GR
SB
J9
JUNCTION
CONNECTOR
J29
JUNCTION
CONNECTOR
C14
SRS WARNING LIGHT
[COMBI METER]
5
IG2
6
ACC
8
7
C 4
CENTER AIRBAG SENSOR ASSEMBLY
+SL
- SL
+SR
- SR
TC
LA
15
26
9
20
19
3
W-R
BR
R-W
BR-W
P-B
B-Y
3 2C
10 2C
50
2F
SB
13 2B
15 2B
2 IB1
1 IB1
2 IT1
1 IT1
1 EF1
2 EF1
2 EA1
1 EA1
3 IW1
4 IW1
11
5
TC
AB
A15
AIRBAG SENSOR
FRONT LH
A16
AIRBAG SENSOR
FRONT RH
D 1
DATA LINK CONNECTOR 1

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 on, the current from the SRS fuse flows to the center airbag sensor assembly TERMINAL 6.
Only when the ignition SW is on does the current from the IGN fuse flow to center airbag sensor assembly TERMINAL 5.
In case an accident occurs while driving, when the frontal impact exceeds a predetermined level, the current from the SRS or IGN fuse flows to center airbag sensor assembly TERMINALS 14, 10, 16, 8 to airbag squibs and pretensioners to center airbag sensor assembly TERMINALS 13, 11, 17, 7 to TERMINALS 27, 28 or BODY GROUND to GROUND.
As a result, the current flows to the airbag squibs and pretensioner squibs, and operates the airbag and pretensioners.
The airbag stored in the steering wheel pad is instantaneously expanded to soften the shock to the driver.
The airbag stored in the front passenger's instrument panel is instantaneously expanded to soften the shock to the front passenger.
The pretensioners ensure the seat belt restrainability.

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A15	38	C14	40	J21	41
A16	38	D1	38	J29	41
A27	40	D7	40	P21	43
A28	40	J9	41	P22	43
C4	40	J16	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2C		
2D		
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

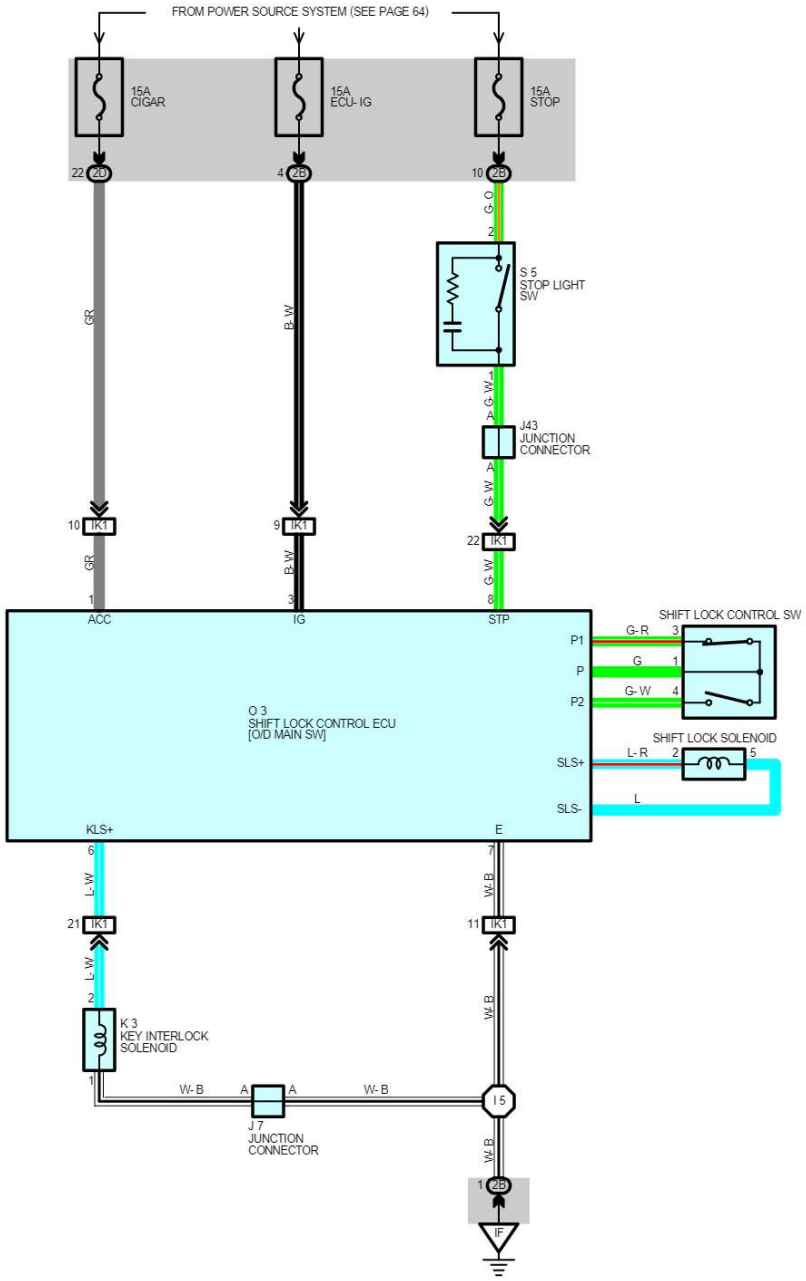
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	46	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
EF1	46	Engine Room No.2 Wire and Engine Room Main Wire (Under the Engine Room J/B)
IB1	48	Engine Room No.2 Wire and Dash Wire (Left Kick Panel)
ID2	48	Dash Wire and Floor Wire (Left Kick Panel)
II1	50	Dash Wire and Column Wire (Near the Ignition SW)
IJ1	50	Dash Wire and Detector Wire (Instrument Panel Center)
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
IS1	52	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IT1	52	Engine Room No.2 Wire and Dash Wire (Right Kick Panel)
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)

: GROUND POINTS

Code	See Page	Ground Points Location
EC	46	Rear Bank of Right Cylinder Head
IG	48	Set Bolt of Cowl Side J/B LH

SHIFT LOCK


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
15A CIGAR
15A ECU-IG
15A STOP
22 2D
4 2B
10 2B
G-O
2
S 5 STOP LIGHT SW
GR
B-W
1
G-W
A
J43 JUNCTION CONNECTOR
A
G-W
10 IK1
9 IK1
22 IK1
GR
B-W
G-W
1
3
8
ACC
IG
STP
SHIFT LOCK CONTROL SW
P1
G-R
3
G
1
P
G-W
4
P2
O 3 SHIFT LOCK CONTROL ECU [O/D MAIN SW]
SHIFT LOCK SOLENOID
SLS+
L-R
2
5
SLS-
L
KLS+
E
6
7
L-W
W-B
21 IK1
11 IK1
L-W
W-B
2
K 3 KEY INTERLOCK SOLENOID
1
W-B
A
A
W-B
J 7 JUNCTION CONNECTOR
I 5
W-B
1 2B
IF

SYSTEM OUTLINE

1. SHIFT LOCK MECHANISM

When the brake pedal is depressed with the ignition SW is turned on (Stop light SW on), the shift lock control ECU is activated and allows the driver to change the shift lever to a position other than P position.

2. KEY INTERLOCK MECHANISM

When the ignition SW is turned on and the shift lever is at a position other than P position, shift lock control ECU is activated to flow current to the key interlock solenoid. This inhibits to turn the ignition SW is turned from on to OFF position.

SERVICE HINTS

O3 SHIFT LOCK CONTROL ECU [O/D MAIN SW]

3-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
7-GROUND : Always continuity
1-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position
8-GROUND : Approx. **12** volts with brake pedal depressed

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J7	41	K3	41	S5	41
J43	41	O3	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IK1	50	Console Box Wire and Dash Wire (Left Side of Front Console)

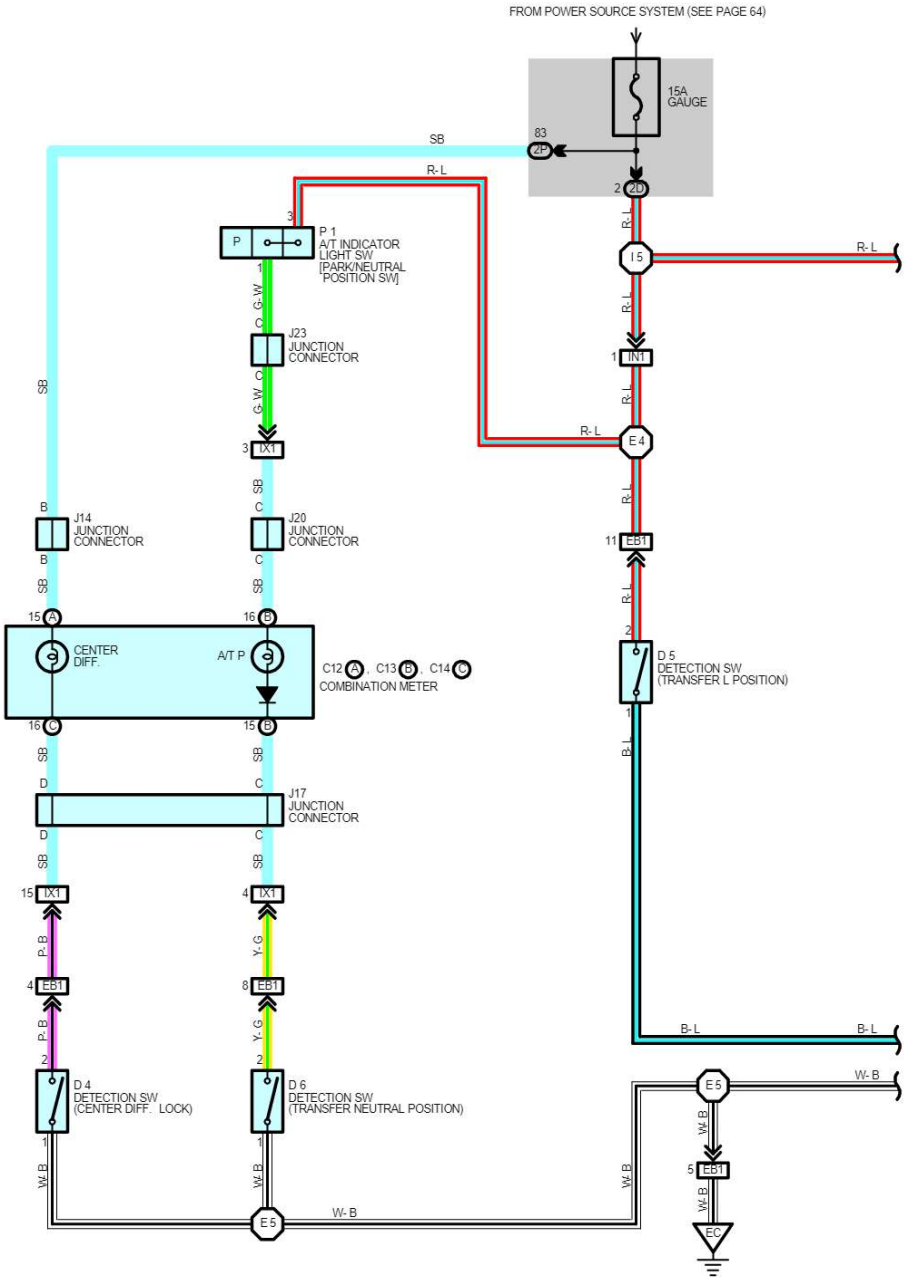
: GROUND POINTS

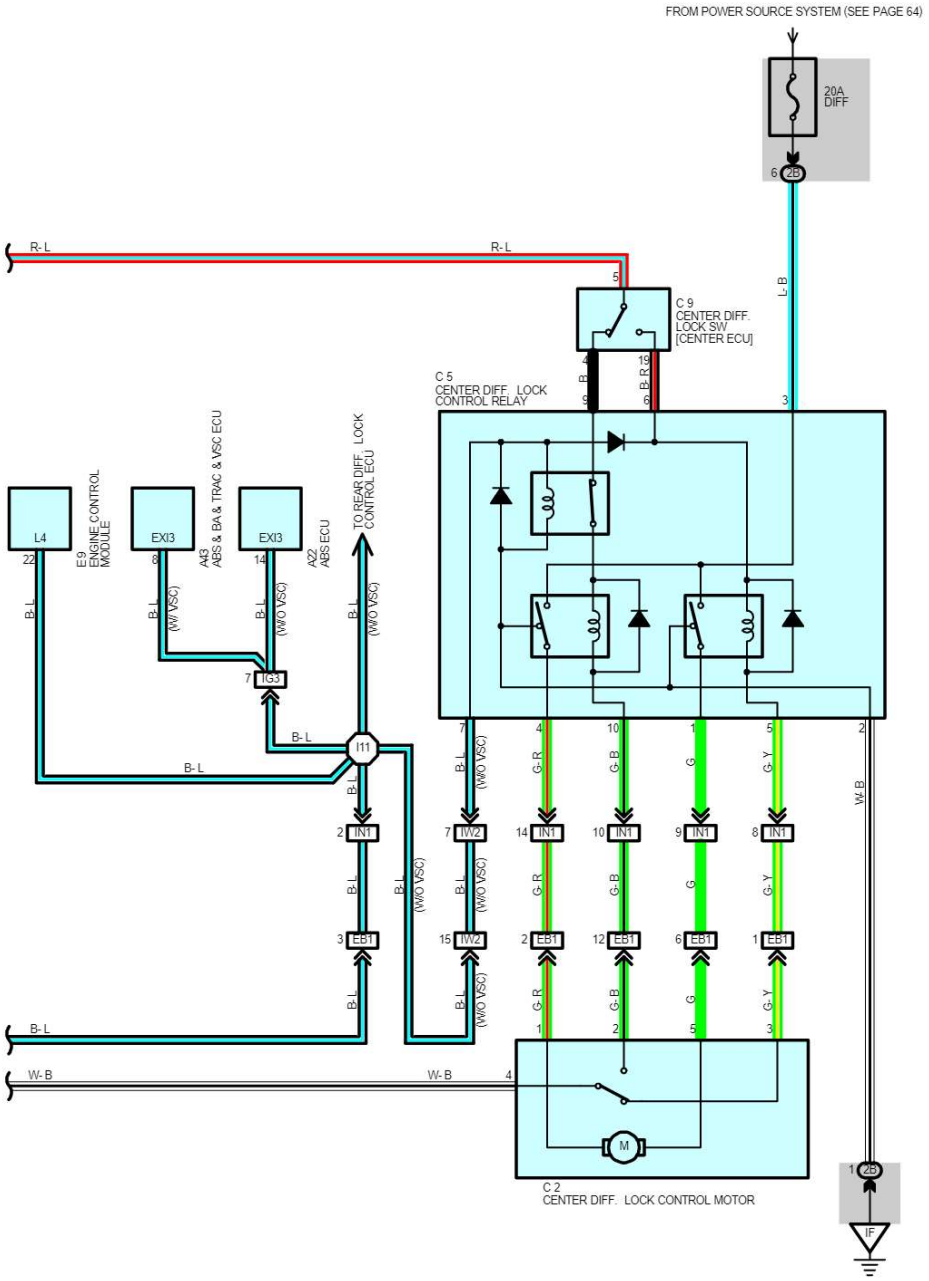
Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I5	50	Dash Wire			

CENTER DIFFERENTIAL LOCK




FROM POWER SOURCE SYSTEM (SEE PAGE 64)
20A DIFF
6 2B
L-B
R-L
R-L
5
C 9
CENTER DIFF. LOCK SW [CENTER ECU]
C 5
CENTER DIFF. LOCK CONTROL RELAY
TO REAR DIFF. LOCK CONTROL ECU
L4
E9
ENGINE CONTROL MODULE
EXI3
A45
ABS & BA & TRAC & VSC ECU
EXI3
A22
ABS ECU
22
8
14
B-L
(W/ VSC)
(W/O VSC)
7 IG3
I11
IN1
IW2
EB1
G-R
G-B
G
G-Y
W-B
M
C 2
CENTER DIFF. LOCK CONTROL MOTOR
1 2B
IF

CENTER DIFFERENTIAL LOCK

SERVICE HINTS

C5 CENTER DIFF. LOCK CONTROL RELAY

3-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
7-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position and transfer lever at **L** position
2-GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A22	40	C13 B	40	J14	41
A43	40	C14 C	40	J17	41
C2	38	D4	38	J20	41
C5	40	D5	38	J23	41
C9	40	D6	38	P1	39
C12 A	40	E9	40		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	46	Engine Wire and Transmission Wire (On the Transmission)
IG3	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
IW2	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IX1	54	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)

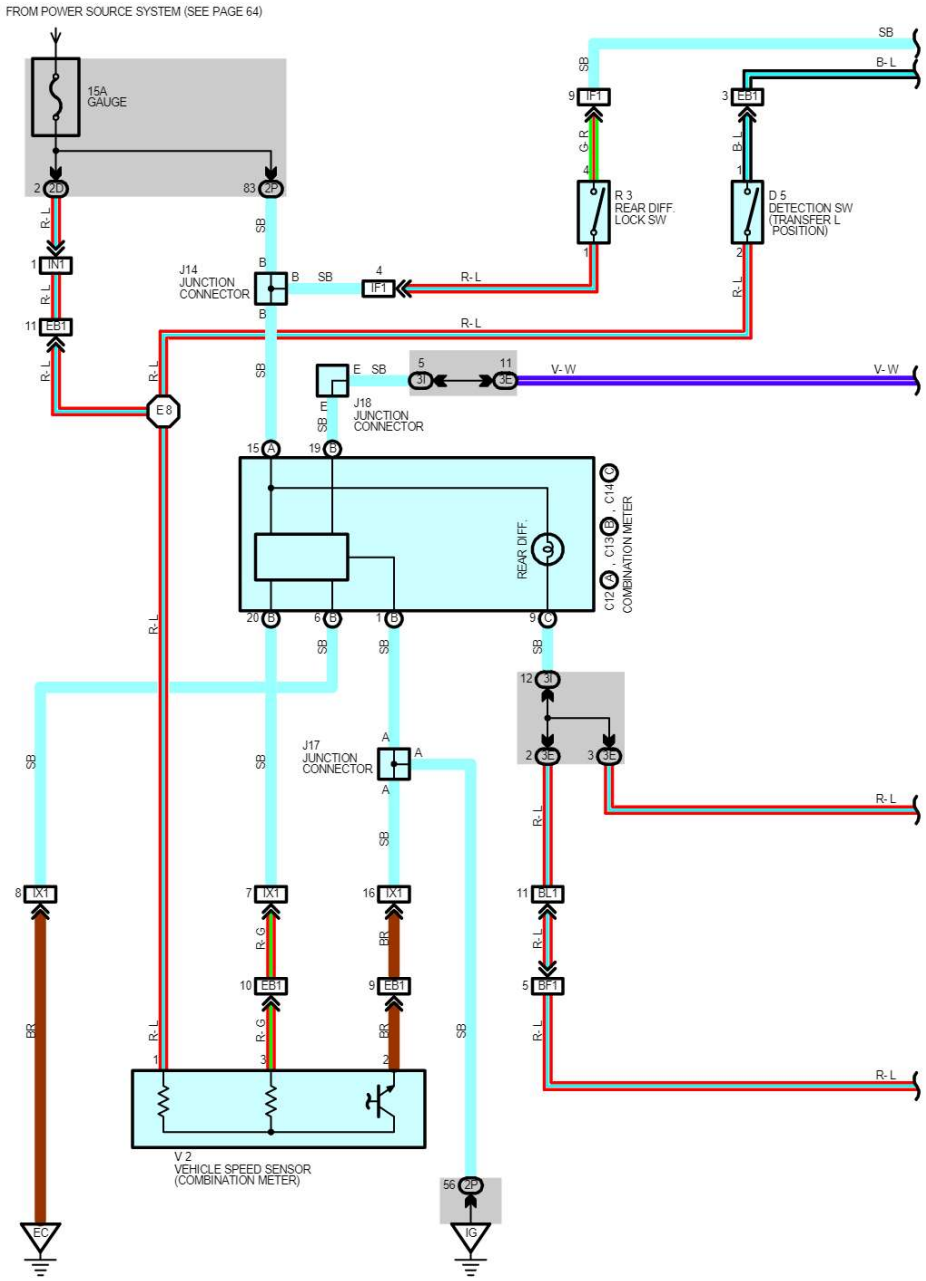
: GROUND POINTS

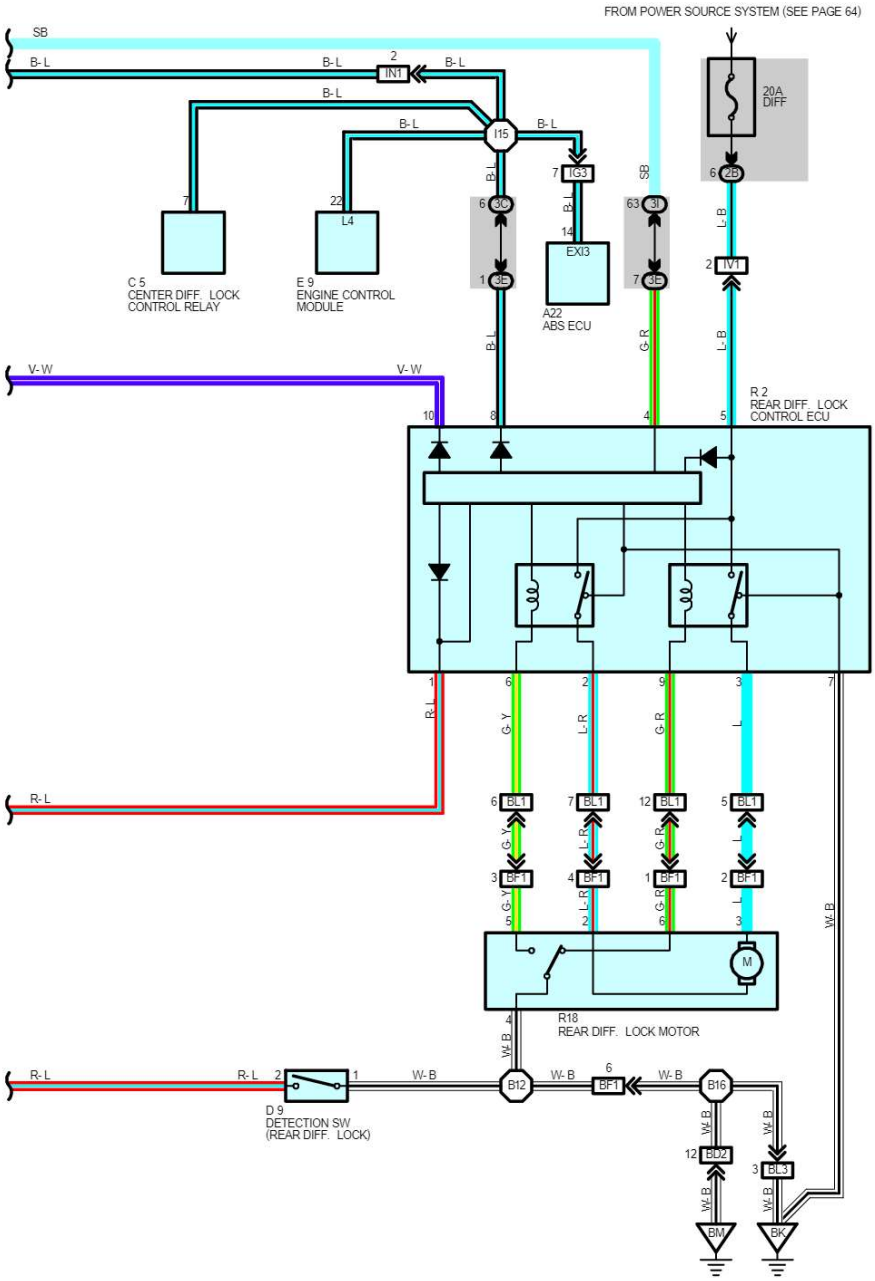
Code	See Page	Ground Points Location
EC	46	Rear Bank of Right Cylinder Head
IF	48	Set Bolt of Cowl Side J/B LH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E4	46	Engine Room No.2 Wire	I5	50	Dash Wire
E5			I11		

REAR DIFFERENTIAL LOCK




FROM POWER SOURCE SYSTEM (SEE PAGE 64)
SB
B- L
IN1
I15
IG3
20A
DIFF
2B
3C
3E
3I
IV1
EXI3
C 5
CENTER DIFF. LOCK
CONTROL RELAY
E 9
ENGINE CONTROL
MODULE
A22
ABS ECU
V- W
R 2
REAR DIFF. LOCK
CONTROL ECU
R- L
G- Y
L- R
G- R
L
W- B
BL1
BF1
M
R18
REAR DIFF. LOCK MOTOR
B12
B16
BD2
BL3
BM
BK
D 9
DETECTION SW
(REAR DIFF. LOCK)

REAR DIFFERENTIAL LOCK

SYSTEM OUTLINE

This system locks/frees the rear differential by operation of the rear diff. lock SW.

* With the ignition SW turned on, rear diff. lock SW on, transfer lever in L, and the speed below 8 km/h (5 mph), the relay installed in the rear diff. lock control ECU is turned on through control of the rear diff. lock control ECU, and the current flows from DIFF fuse to rear diff. lock control ECU TERMINAL 5 to TERMINAL 3 to rear diff. lock motor TERMINAL 3 to TERMINAL 2 to rear diff. lock control ECU TERMINAL 2 to TERMINAL 7 to GROUND. As a result, the rear differential lock operates and the rear differential is locked. At the same time, the detection SW (Rear diff. lock) is turned on, and the rear diff. indicator light in the combination meter lights up.
* When the rear diff. lock SW is turned to off from on, the relay installed in the rear diff. lock control ECU is turned on through control of the rear diff. lock control ECU, and the current flows from DIFF fuse to rear diff. lock control ECU TERMINAL 5 to TERMINAL 2 to rear diff. lock motor TERMINAL 2 to TERMINAL 3 to rear diff. lock control ECU TERMINAL 3 to TERMINAL 7 to GROUND. As a result, the rear differential lock operates and the rear differential is made free. At the same time, the detection SW (Rear diff. lock) is turned off, and the rear diff. indicator light in the combination meter is turned off.

The rear diff. indicator light blinks under the following conditions :

* When the rear diff. lock SW is turned on with the ignition SW on and the transfer lever at a position other than L.
* When the rear diff. lock SW is turned on at a speed over 8 km/h (5 mph), with the ignition SW on and the transfer position lever at L position.
* When the rear diff. lock motor is operating the rear differential to free from lock, and the detection SW (Rear diff. lock) is off.

SERVICE HINTS

R2 REAR DIFF. LOCK CONTROL ECU

5-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
4-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position and rear diff. lock SW at **ON** position
7-GROUND : Always continuity

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
A22		40	D5	38	J18	41
C5		40	D9	42	R2	41
C12	A	40	E9	40	R3	41
C13	B	40	J14	41	R18	43
C14	C	40	J17	41	V2	39

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3C	32	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

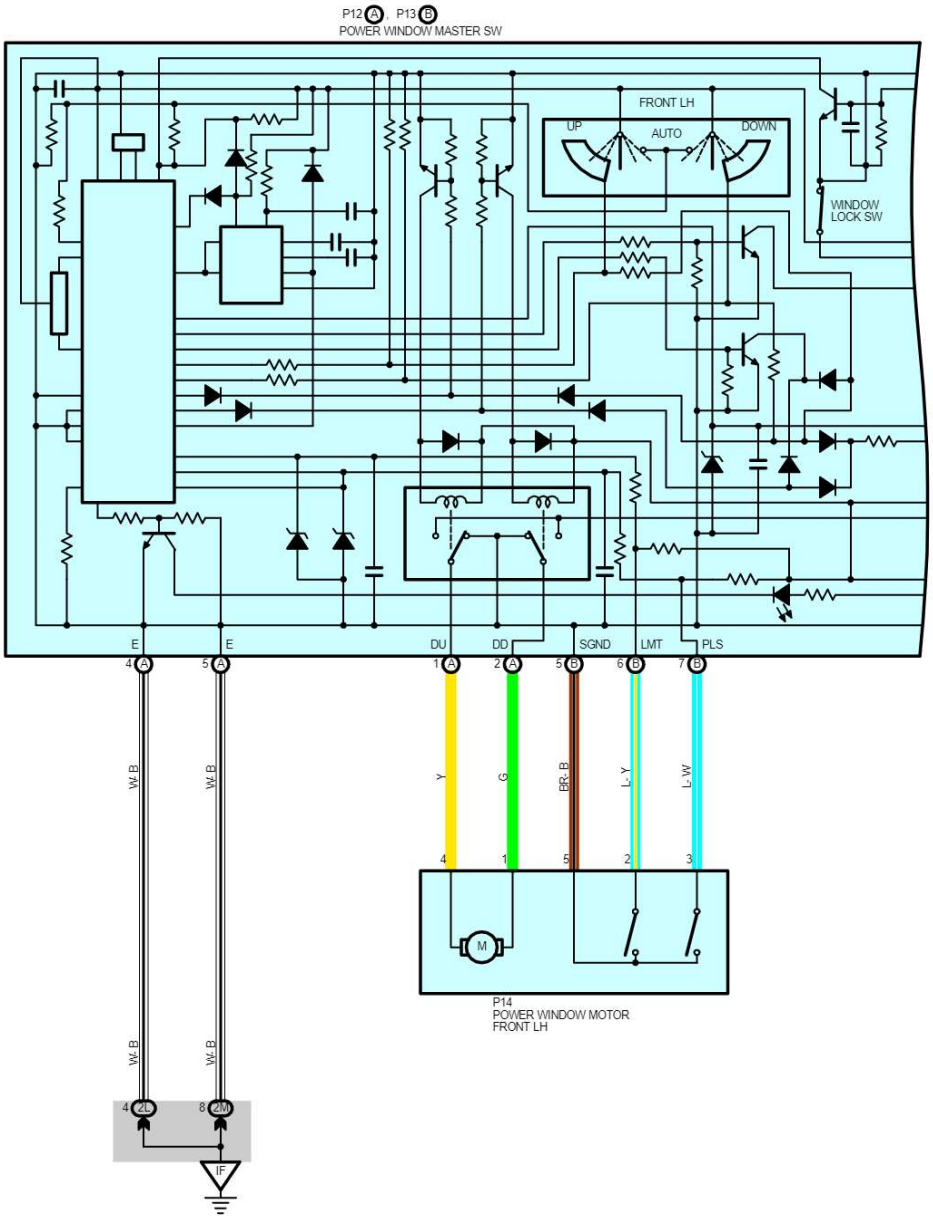
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	46	Engine Wire and Transmission Wire (On the Transmission)
IF1	48	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IG3	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
IV1	54	Dash Wire and Floor No.2 Wire (Behind the Glove Box)
IX1	54	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
BD2	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BF1	56	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)
BL1	58	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BL3		

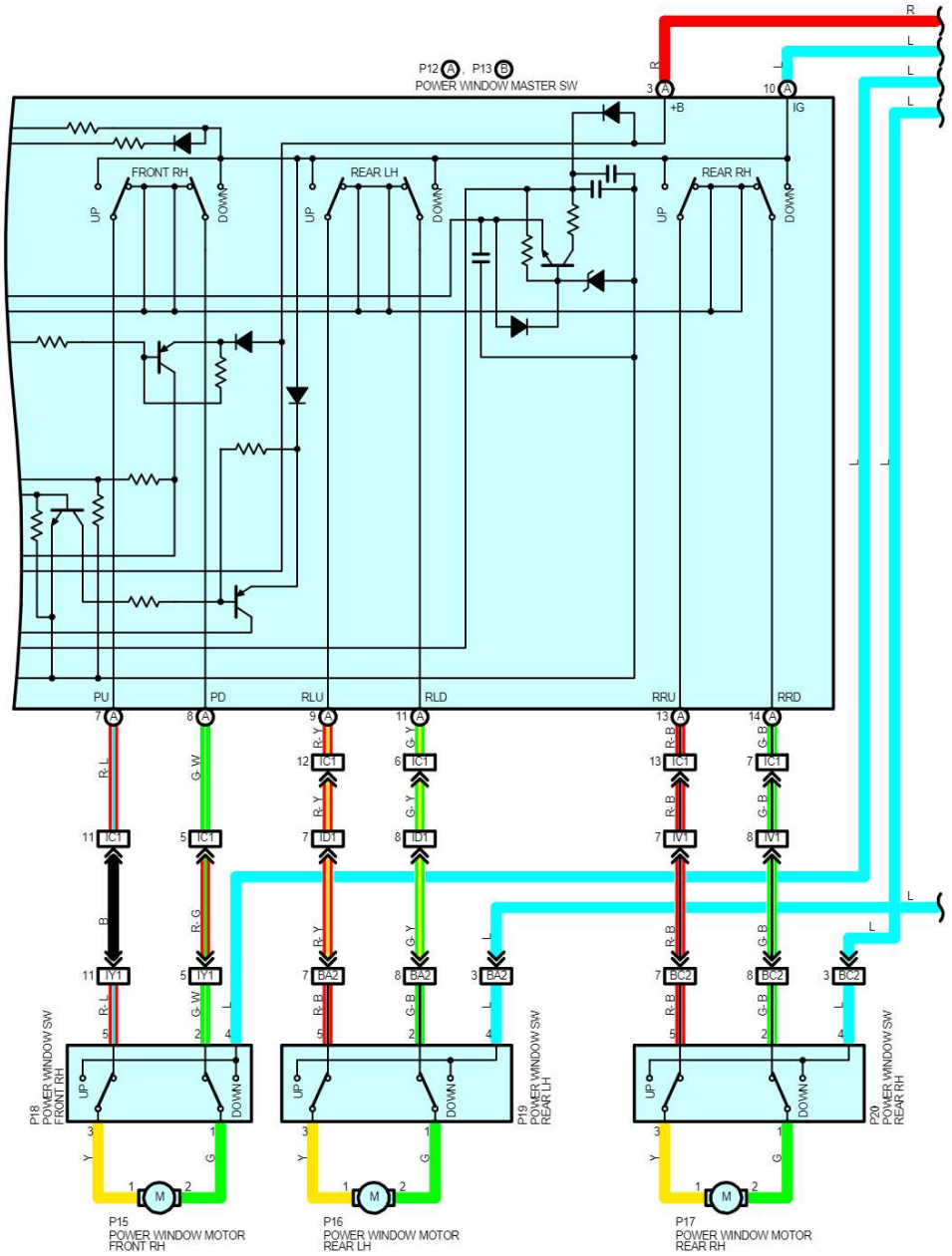
: GROUND POINTS

Code	See Page	Ground Points Location
EC	46	Rear Bank of Right Cylinder Head
IG	48	Set Bolt of Cowl Side J/B LH
BK	56	Front Side Under the Front Passenger's Seat
BM	56	Left Rear Side Quarter Panel

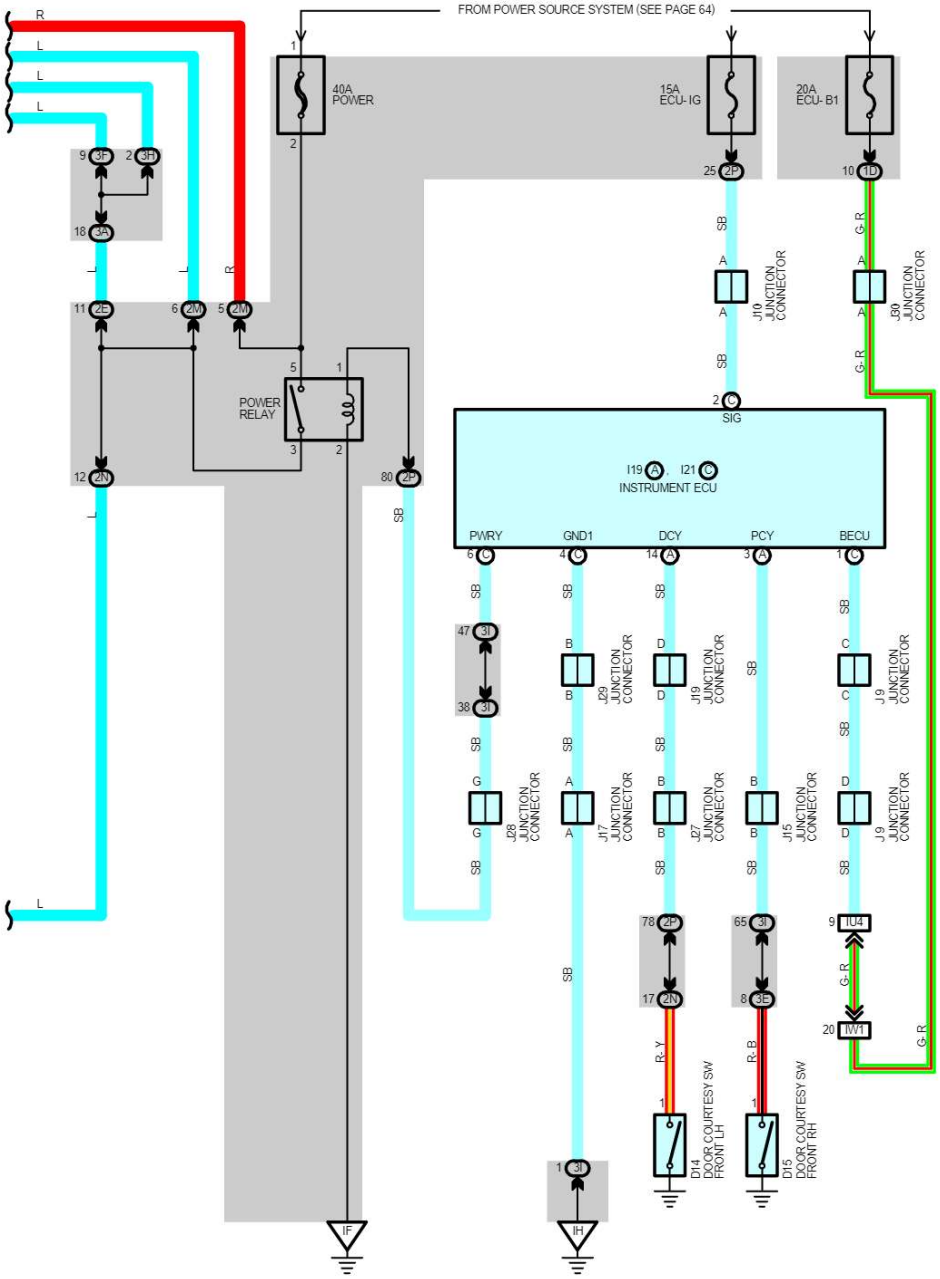
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E8	46	Transmission Wire	B12	58	Frame Wire
I15	50	Dash Wire	B16	58	Floor No.3 Wire


P12 A , P13 B
POWER WINDOW MASTER SW
FRONT LH
UP
AUTO
DOWN
WINDOW LOCK SW
E
E
DU
DD
SGND
LMT
PLS
4 A
5 A
1 A
2 A
5 B
6 B
7 B
W-B
W-B
Y
G
BR-B
L-Y
L-W
4
1
5
2
3
M
P14
POWER WINDOW MOTOR FRONT LH
W-B
W-B
4 ZL
8 ZM
IF


P12 A , P13 B
POWER WINDOW MASTER SW
+B
IG
FRONT RH
REAR LH
REAR RH
UP
DOWN
PU
PD
RLU
RLD
RRU
RRD
P18
POWER WINDOW SW
FRONT RH
P19
POWER WINDOW SW
REAR LH
P20
POWER WINDOW SW
REAR RH
P15
POWER WINDOW MOTOR
FRONT RH
P16
POWER WINDOW MOTOR
REAR LH
P17
POWER WINDOW MOTOR
REAR RH

POWER WINDOW



SYSTEM OUTLINE

1. MANUAL DOWN OR UP OPERATION (DRIVER'S SIDE)

When the power window master SW is pressed one step, the current flows from the power window master SW TERMINAL DD to power window motor front LH to power window master SW TERMINAL DU to GROUND, and rotates the motor to open the window.
When the power window master SW is pulled one step, the current flows from the power window master SW TERMINAL DU to power window motor front LH to power window master SW TERMINAL DD to GROUND, and rotates the motor to close the window.
For the other windows, as the power window master SW and power window SW is operated, the relevant door window is opened or closed.

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

When the power window master SW is pushed two steps, the power window master SW determines it is in auto mode and the current flows from the power window master SW TERMINAL DD to power window motor front LH to power window master SW TERMINAL DU to GROUND, and rotates the motor to open the window automatically.
When the power window master SW is pulled two steps, the power window master SW determines it is in auto mode and the current flows from the power window master SW TERMINAL DU to power window motor front LH to power window master SW TERMINAL DD to GROUND, and rotates the motor to close the window automatically.

3. CATCHING PREVENTION FUNCTION (DRIVER'S SIDE)

When any foreign matter is caught in the window during power window up operation, the pulse sensor in the power window motor detects the changes in the number of motor rotations and forcibly opens the door window 50 mm, or when the window opening is less than 200 mm, it opens the window until the opening is 200 mm.

4. KEY OFF POWER WINDOW OPERATION

It is possible to operate the power window for approx. 43 seconds after the ignition SW is turned from on to off. However, when the door is opened while the window is being operated, the power window operation is stopped even though 43 seconds have not elapsed.

SERVICE HINTS

P12 POWER WINDOW MASTER SW

3-GROUND : Always approx. **12** volts
10-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
: Approx. **12** volts with key off power window operation
4, 5-GROUND : Always continuity
1-GROUND : Continuity with power window master SW at **MANUAL UP** position
: Continuity with power window master SW at **AUTO UP** position
2-GROUND : Continuity with power window master SW at **MANUAL DOWN** position
: Continuity with power window master SW at **AUTO DOWN** position

WINDOW LOCK SW

Open with the window lock SW at lock position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
D14	42	J19	41	P15	43
D15	42	J27	41	P16	43
I19 A	40	J28	41	P17	43
I21 C	40	J29	41	P18	43
J9	41	J30	41	P19	43
J10	41	P12 A	43	P20	43
J15	41	P13 B	43		
J17	41	P14	43		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2L	26	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2M		
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3A	32	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3F		
3H	32	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

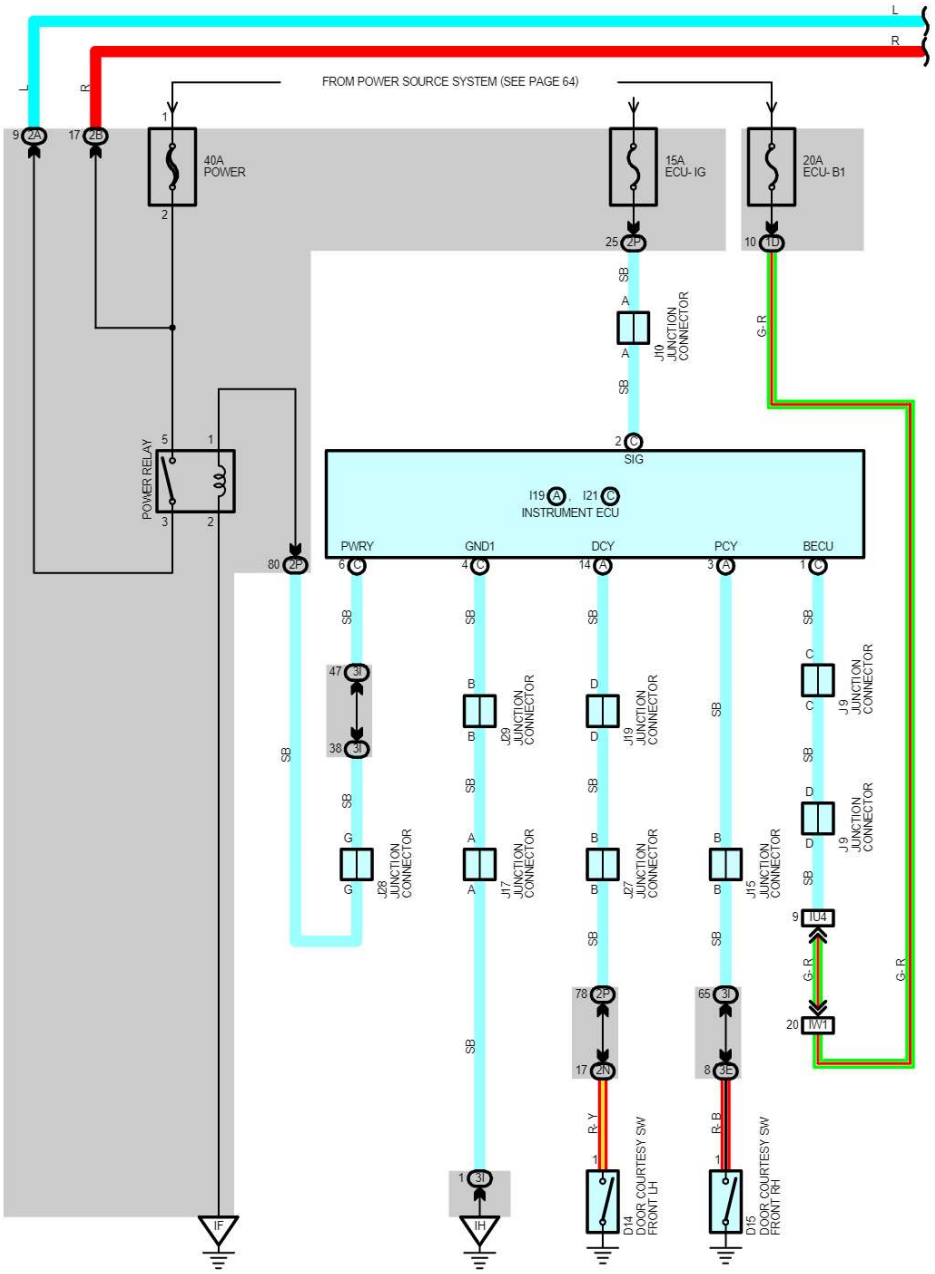
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

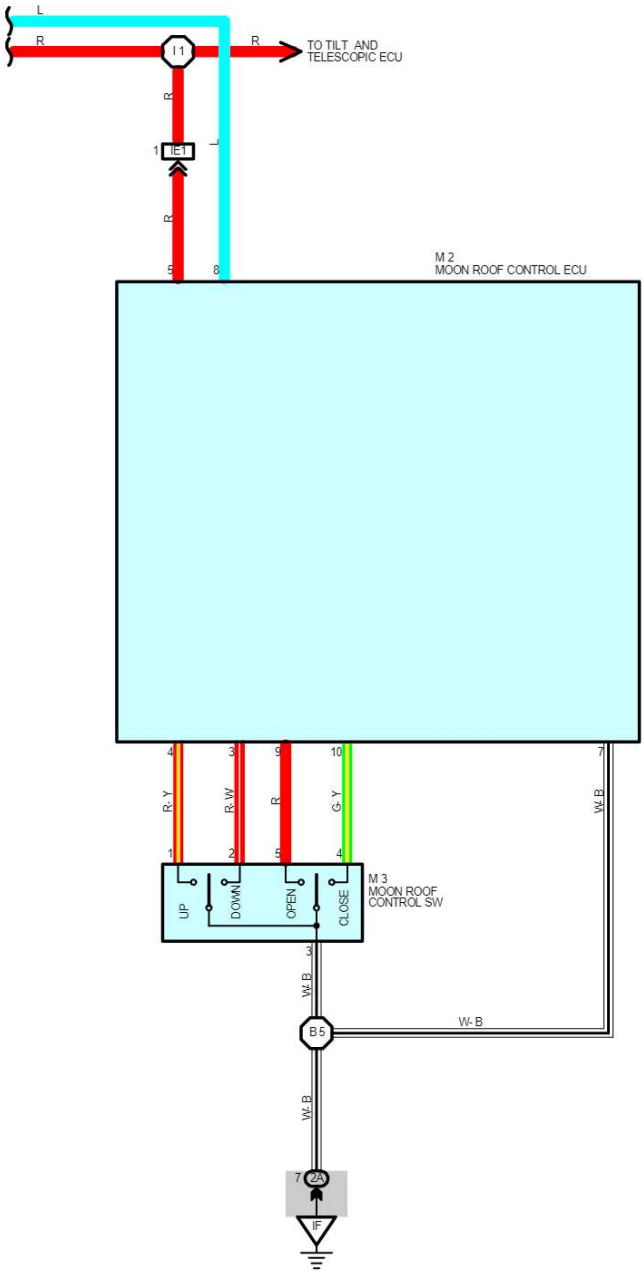
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	48	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)
IU4	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IV1	54	Dash Wire and Floor No.2 Wire (Behind the Glove Box)
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IY1	54	Front Door RH Wire and Dash Wire (Right Kick Panel)
BA2	56	Rear Door LH Wire and Floor Wire (Left Side of Center Pillar)
BC2	56	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)

: GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
IH	48	Set Bolt of Cowl Side J/B RH

MOON ROOF


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
40A POWER
15A ECU- IG
20A ECU- B1
POWER RELAY
I19 A , I21 C
INSTRUMENT ECU
PWRY
GND1
DCY
PCY
BECU
J10 JUNCTION CONNECTOR
J29 JUNCTION CONNECTOR
J19 JUNCTION CONNECTOR
J9 JUNCTION CONNECTOR
J28 JUNCTION CONNECTOR
J17 JUNCTION CONNECTOR
J7 JUNCTION CONNECTOR
J15 JUNCTION CONNECTOR
D14 DOOR COURTESY SW FRONT LH
D15 DOOR COURTESY SW FRONT RH
SB
G-R
R-Y
R-B


L
R
I1
R
TO TILT AND TELESCOPIC ECU
R
1
IE1
R
5
8
M 2
MOON ROOF CONTROL ECU
4
3
9
10
7
R-Y
R-W
R
G-Y
W-B
1
2
5
4
M 3
MOON ROOF CONTROL SW
UP
DOWN
OPEN
CLOSE
W-B
B5
W-B
W-B
7
ZA
IF

SYSTEM OUTLINE

In this system, the HALL IC in the moon roof control ECU detects the changes in motor rotation, and allows opening/closing, tilting up/down of the moon roof by one touch operation.
In addition, catching prevention function during moon roof operation is also provided.
Voltage is constantly applied from POWER fuse to moon roof control ECU TERMINAL 5. When the ignition SW is turned on, the current flows from POWER fuse to moon roof control ECU TERMINAL 8.

1. SLIDE OPEN OPERATION

When the moon roof control SW is kept pressed to OPEN position for approx. 0.3 seconds or longer (Limit SW No.1 off, limit SW No.2 on), a signal is input from moon roof control SW TERMINAL 5 to moon roof control ECU TERMINAL 9. This activates the moon roof control ECU and rotates the motor to open the moon roof automatically. Then, when the limit SW No.1 is turned on and then turned off again, the pulse signal sent from the HALL IC activates the moon roof control ECU, and determines that the moon roof is fully open, and stops the motor. If other operation SW or the open SW is operated while the moon roof is being opened, the moon roof control ECU is activated to stop the moon roof operation. In addition, when the moon roof is tilted up, the slide open operation does not function.

2. SLIDE CLOSE OPERATION

When the moon roof control SW is kept pressed to CLOSE position for approx. 0.3 seconds or longer (Limit SW No.1 off, limit SW No.2 off), a signal is input from moon roof control SW TERMINAL 4 to moon roof control ECU TERMINAL 10. This activates the moon roof control ECU and rotates the motor to close the moon roof automatically. Then, when the limit SW No.2 is turned on, the pulse signal sent from the HALL IC activates the moon roof control ECU, and determines that the moon roof is closed fully, and stops the motor. If other operation SW or the close SW is operated while the moon roof is being closed, the moon roof control ECU is activated to stop the moon roof operation.

3. TILT UP OPERATION

When the moon roof control SW is kept pressed to UP position for approx. 0.3 seconds or longer (Limit SW No.1 off, limit SW No.2 on), a signal is input from moon roof control SW TERMINAL 1 to moon roof control ECU TERMINAL 4. This activates the moon roof control ECU and rotates the motor to tilt up the moon roof automatically. If the pulse signal is not input from the HALL IC for 0.5 seconds or longer, it determines that the moon roof is fully tilted up, and stops the motor. If other operation SW or the tilt up SW is operated while the moon roof is being tilted up, the moon roof control ECU is activated to stop the moon roof operation. In addition, when the moon roof is opened, the tilt up operation does not function.

4. TILT DOWN OPERATION

When the moon roof control SW is kept pressed to DOWN position for approx. 0.3 seconds or longer (Limit SW No.1 on, limit SW No.2 on), a signal is input from moon roof control SW TERMINAL 2 to moon roof control ECU TERMINAL 3. This activates the moon roof control ECU and rotates the motor to tilt down the moon roof automatically.
Then, when the limit SW No.1 is turned off, the pulse signal sent from the HALL IC activated the moon roof control ECU, and determines that the moon roof is closed fully, and stops the motor.
If other operation SW or the tilt down SW is operated while the moon roof is being tilted down, the moon roof control ECU is activated to stop the moon roof operation.

5. CATCHING PREVENTION FUNCTION

During slide close or tilt down operation, if the moon roof control ECU detects a catching load from the changes in the rotation of the motor, the operation is stopped, and the motor is rotated in the reverse direction.

- Slide close operation
  The moon roof is moved approx. 200 mm in the reverse direction (Slide open) after a catching load has been detected. However, if the full open position is detected before moving approx. 200 mm, the reverse movement is stopped.
- Tilt down operation
  If a catching load is detected, the moon roof is moved in the reverse direction until fully tilted up.

6. KEY OFF MOON ROOF OPERATION

Within approx. 45 seconds after the ignition SW is turned from ON to OFF, the moon roof can be operated. However, if the driver or front passenger door is opened during this period of time, the moon roof operation is stopped even though 45 seconds have not elapsed.

7. FAIL-SAFE FUNCTION

If the moon roof is operated continuously in the same direction, the current flowing to the motor is cut off when the time shown below has elapsed after the motor operation has been started.

- Slide open/close operation by the moon roof SW approx. 20 seconds
- Tilt up/down operation by the moon roof SW approx. 2 second
- Slide open operation for reverse movement in case of catching prevention function approx. 20 seconds
- Tilt up operation for reverse movement in case of catching prevention function approx. 2 seconds

SERVICE HINTS

M2 MOON ROOF CONTROL ECU

5-GROUND : Always approx. **12** volts
8-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position or key off moon roof operation
: Approx. **12** volts with key off moon roof operation
7-GROUND : Always continuity

M3 MOON ROOF CONTROL SW

1-3 : Closed with moon roof control SW at **TILT UP** position
2-3 : Closed with moon roof control SW at **TILT DOWN** position
5-3 : Closed with moon roof control SW at **OPEN** position
4-3 : Closed with moon roof control SW at **CLOSE** position
3-GROUND : Always continuity

POWER RELAY

5-3 : Closed with ignition SW at **ON** or **ST** position
: Closed with key off moon roof operation

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
D14	42	J10	41	J28	41
D15	42	J15	41	J29	41
I19 A	40	J17	41	M2	42
I21 C	40	J19	41	M3	42
J9	41	J27	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	26	Roof Wire and Cowl Side J/B LH (Left Kick Panel)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	48	Dash Wire and Roof Wire (Left Kick Panel)
IU4	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)

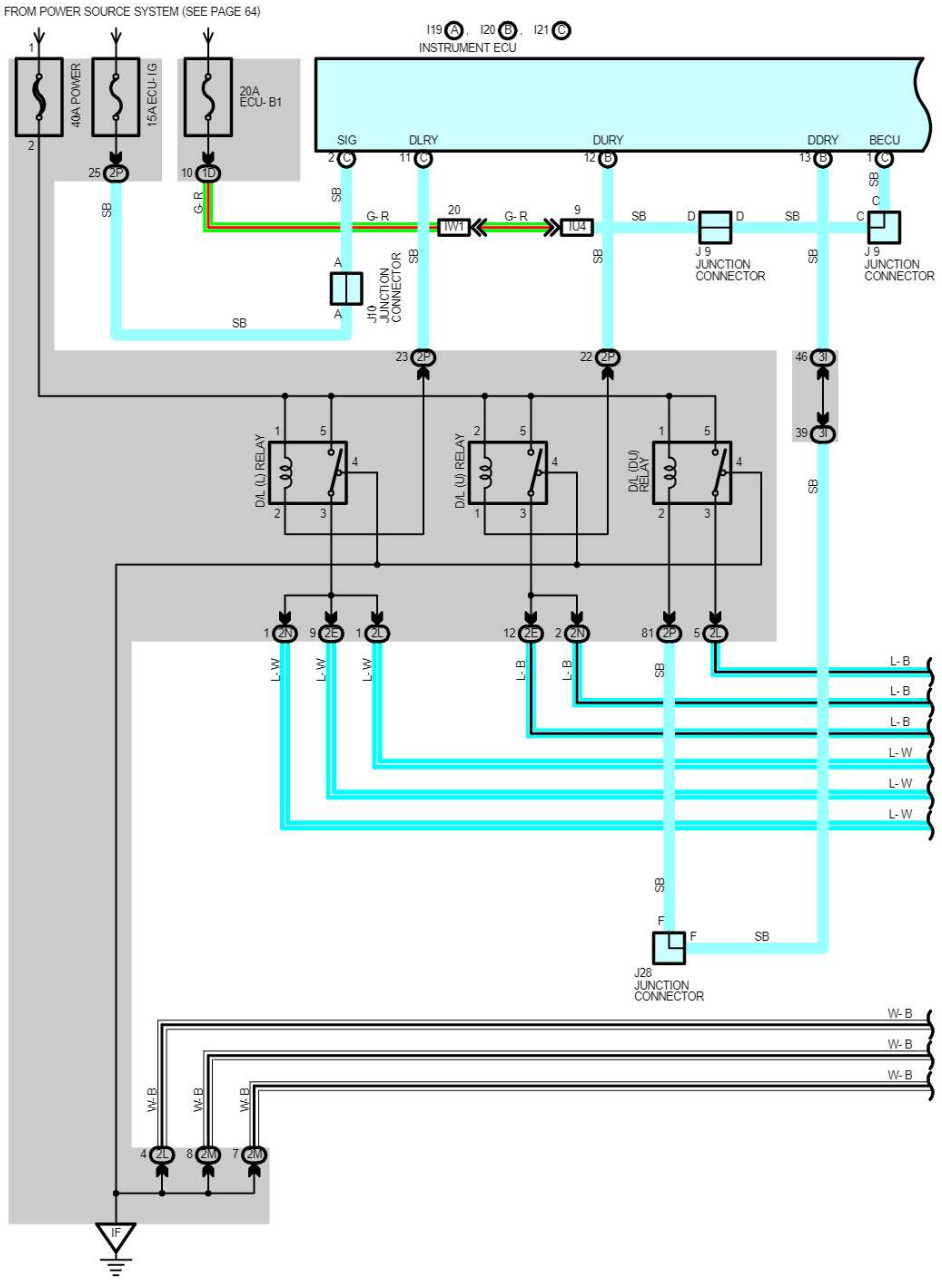
: GROUND POINTS

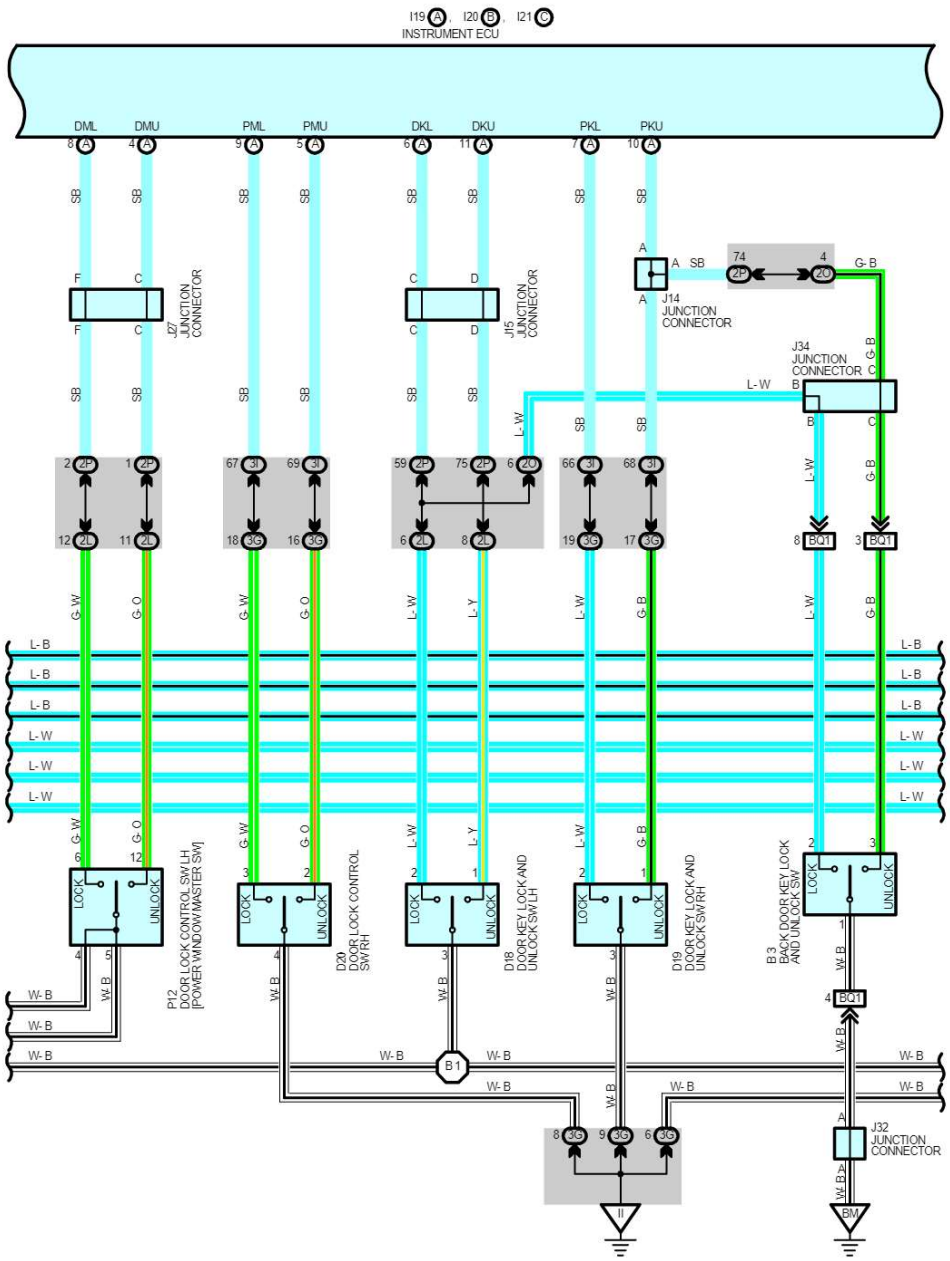
Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
IH	48	Set Bolt of Cowl Side J/B RH

: SPLICE POINTS

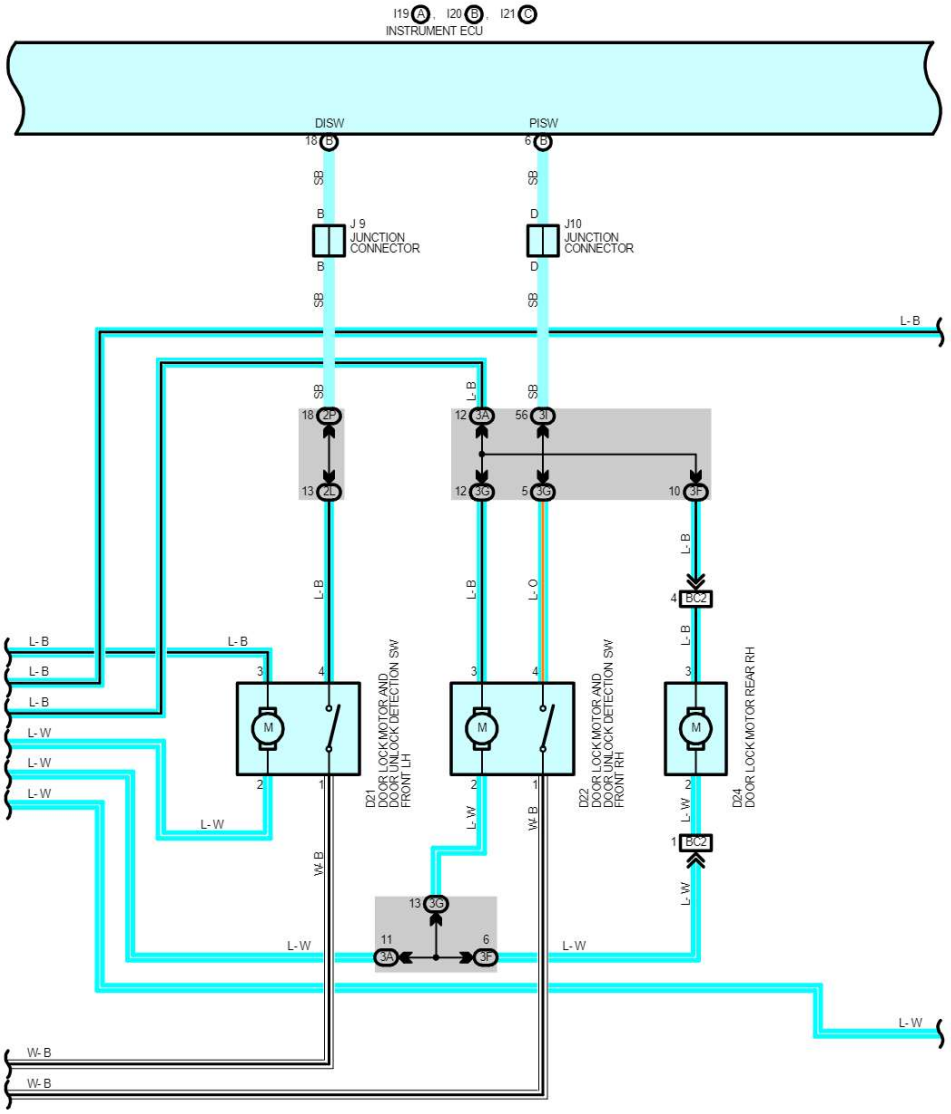
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I1	50	Dash Wire	B5	58	Floor Wire

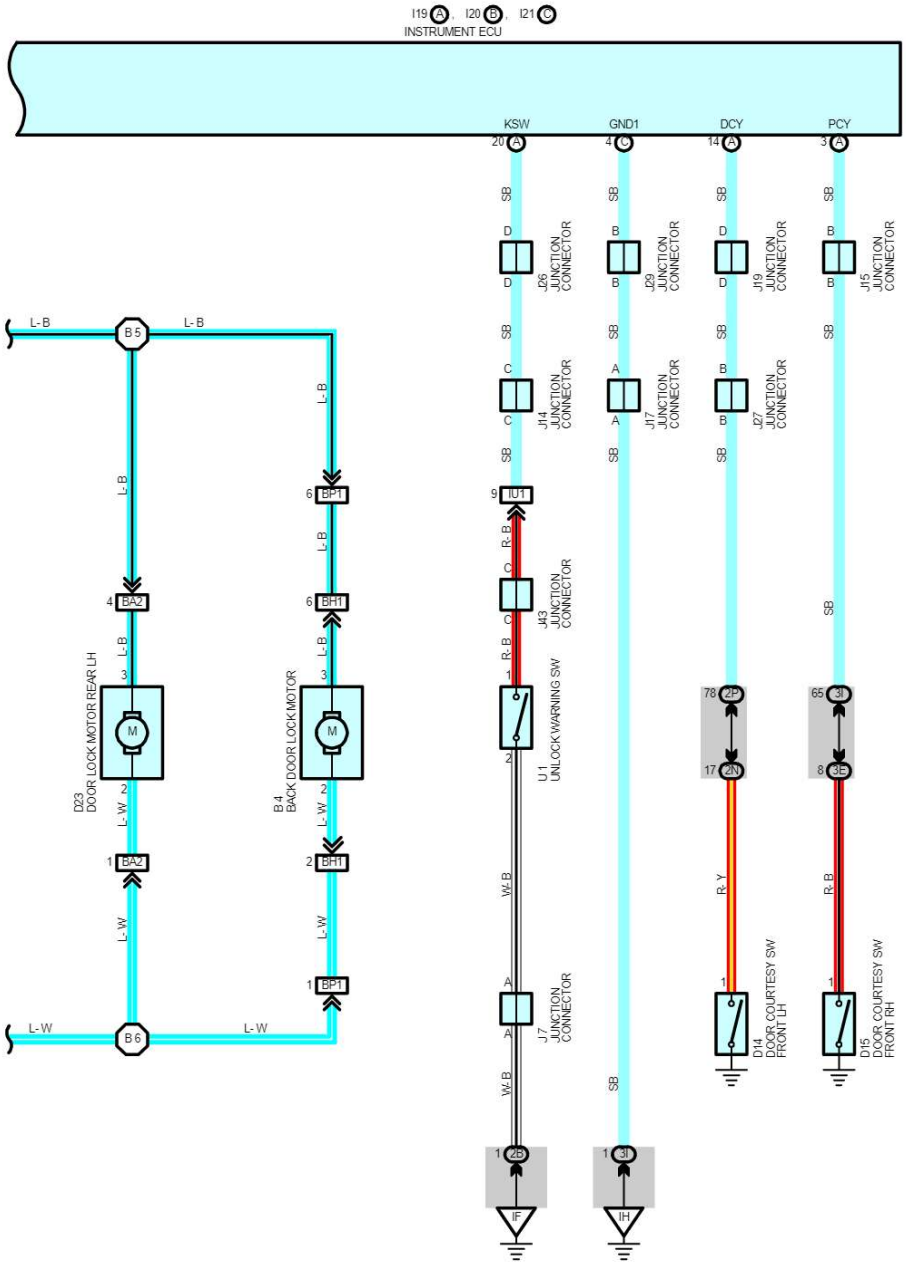
DOOR LOCK CONTROL




I19 A, I20 B, I21 C
INSTRUMENT ECU
DML
DMU
PML
PMU
DKL
DKU
PKL
PKU
J7 JUNCTION CONNECTOR
J15 JUNCTION CONNECTOR
J14 JUNCTION CONNECTOR
J34 JUNCTION CONNECTOR
P12 DOOR LOCK CONTROL SW LH [POWER WINDOW/MASTER SW]
D20 DOOR LOCK CONTROL SW RH
D18 DOOR KEY LOCK AND UNLOCK SW LH
D19 DOOR KEY LOCK AND UNLOCK SW RH
B3 BACK DOOR KEY LOCK AND UNLOCK SW
J32 JUNCTION CONNECTOR
B1
II
BM
LOCK
UNLOCK
SB
G-B
L-W
G-W
G-O
L-Y
L-B
W-B

DOOR LOCK CONTROL




I19 A
I20 B
I21 C
INSTRUMENT ECU
KSW
GND1
DCY
PCY
20 A
4 C
14 A
3 A
SB
D
J26 JUNCTION CONNECTOR
B
J29 JUNCTION CONNECTOR
J19 JUNCTION CONNECTOR
J15 JUNCTION CONNECTOR
C
J14 JUNCTION CONNECTOR
A
J17 JUNCTION CONNECTOR
J27 JUNCTION CONNECTOR
9 IU1
R-B
J43 JUNCTION CONNECTOR
U1 UNLOCK WARNING SW
W-B
J7 JUNCTION CONNECTOR
1 2B
IF
1 3I
IH
78 2P
17 2N
R-Y
D14 DOOR COURTESY SW FRONT LH
65 3I
8 3E
D15 DOOR COURTESY SW FRONT RH
L-B
B 5
6 BP1
4 BA2
6 BH1
L-W
D23 DOOR LOCK MOTOR REAR LH
B 4 BACK DOOR LOCK MOTOR
M
2
3
1 BA2
2 BH1
1 BP1
B 6

DOOR LOCK CONTROL

SYSTEM OUTLINE

1. MANUAL UNLOCK OPERATION

When the door lock control SW of the driver or front passenger door is pressed to unlock side, a signal is input to the instrument ECU TERMINAL DMU, and TERMINAL PMU respectively. Then the current flows from the POWER fuse to D/L (U) relay (Coil side) to instrument ECU TERMINAL DURY to TERMINAL GND1 to GROUND, and turns on the D/L (U) relay and D/L (DU) relay. At the same time, the current flows from the POWER fuse to D/L (U) relay, D/L (DU) relay TERMINAL 5 to TERMINAL 3 to door lock motor and back door lock motor to D/L (L) relay TERMINAL 3 to TERMINAL 4 to GROUND, and unlocks the door.

2. MANUAL LOCK OPERATION

When the door lock control SW of the driver or front passenger door is pressed to lock side, a signal is input to the instrument ECU TERMINAL DML, and TERMINAL PML respectively. Then the current flows from the POWER fuse to D/L (L) relay (Coil side) to instrument ECU TERMINAL DLRY to TERMINAL GND1 to GROUND. This turns on the D/L (L) relay and the current flows from the POWER fuse to D/L (L) relay TERMINAL 5 to TERMINAL 3 to door lock motor and back door lock motor to D/L (U) relay, D/L (DU) relay TERMINAL 3 to TERMINAL 4 to GROUND, and locks the door.

3. DOOR KEY UNLOCK OPERATION

* Unlock operation from driver door
  When the door is unlocked once by the ignition key from the driver side, a signal is input from door key lock and unlock SW LH to instrument ECU TERMINAL DKU. As a result, the instrument ECU operates and the current flows from POWER fuse to D/L (DU) relay (Coil side) to instrument ECU TERMINAL DDRY to TERMINAL GND1 to GROUND, and turns on the D/L (DU) relay. At the same time, the current flows from the POWER fuse to D/L (DU) relay TERMINAL 5 to TERMINAL 3 to door lock motor front LH to D/L (L) relay TERMINAL 3 to TERMINAL 4 to GROUND, and unlocks the driver door only. Accordingly, if the second unlock operation is made within 3 seconds , a signal is input to instrument ECU TERMINAL DKU, and the current flows as manual unlock operation, and unlocks all the doors.
* Unlock operation from front passenger or back door
  When the front passenger door or back door is unlocked using the ignition key, a signal from the door key lock and unlock SW RH and/or back door key lock and unlock SW is input to instrument ECU TERMINAL PKU. As a result, the current flows as manual unlock operation and unlocks all the doors at once.

4. IGNITION KEY REMINDER OPERATION

When the door is locked using the door lock knob with the ignition key remaining in the key cylinder and door opened, it is automatically unlocked. Additionally, if lock operation is made by the door lock control SW or door key lock SW, after the lock operation is completed, the doors are unlocked automatically.

SERVICE HINTS

I19 (A), I21 (C) INSTRUMENT ECU

(C) 1-GROUND : Always approx. **12** volts
(C) 2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(C) 4-GROUND : Always continuity
(A) 3-GROUND : Continuity with front RH door open
(A)14-GROUND : Continuity with front LH door open
(A)20-GROUND : Continuity with ignition key in ignition key cylinder

D21, D22 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW FRONT LH, RH

2-GROUND : Approx. **12** volts with door lock motor at lock operate
3-GROUND : Approx. **12** volts with door lock motor at unlock operate

D23, D24 DOOR LOCK MOTOR REAR LH, RH

2-GROUND : Approx. **12** volts with door lock motor at lock operate
3-GROUND : Approx. **12** volts with door lock motor at unlock operate

B4 BACK DOOR LOCK MOTOR

2-GROUND : Approx. **12** volts with door lock motor at lock operate
3-GROUND : Approx. **12** volts with door lock motor at unlock operate

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B3	42	D24	42	J19	41
B4	42	I19 A	40	J26	41
D14	42	I20 B	40	J27	41
D15	42	I21 C	40	J28	41
D18	42	J7	41	J29	41
D19	42	J9	41	J32	42
D20	42	J10	41	J34	42
D21	42	J14	41	J43	41
D22	42	J15	41	P12	43
D23	42	J17	41	U1	41

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2L 2M	26	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2N 2O	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3A	32	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E 3F	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3G	32	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IU1 IU4	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
BA2	56	Rear Door LH Wire and Floor Wire (Left Side of Center Pillar)
BC2	56	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BH1	58	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BP1	58	Pillar No.1 Wire and Floor Wire (Left Rear Side Quarter Panel)
BQ1	58	Back Door Lower Wire and Floor Wire (Left Rear Side Quarter Panel)

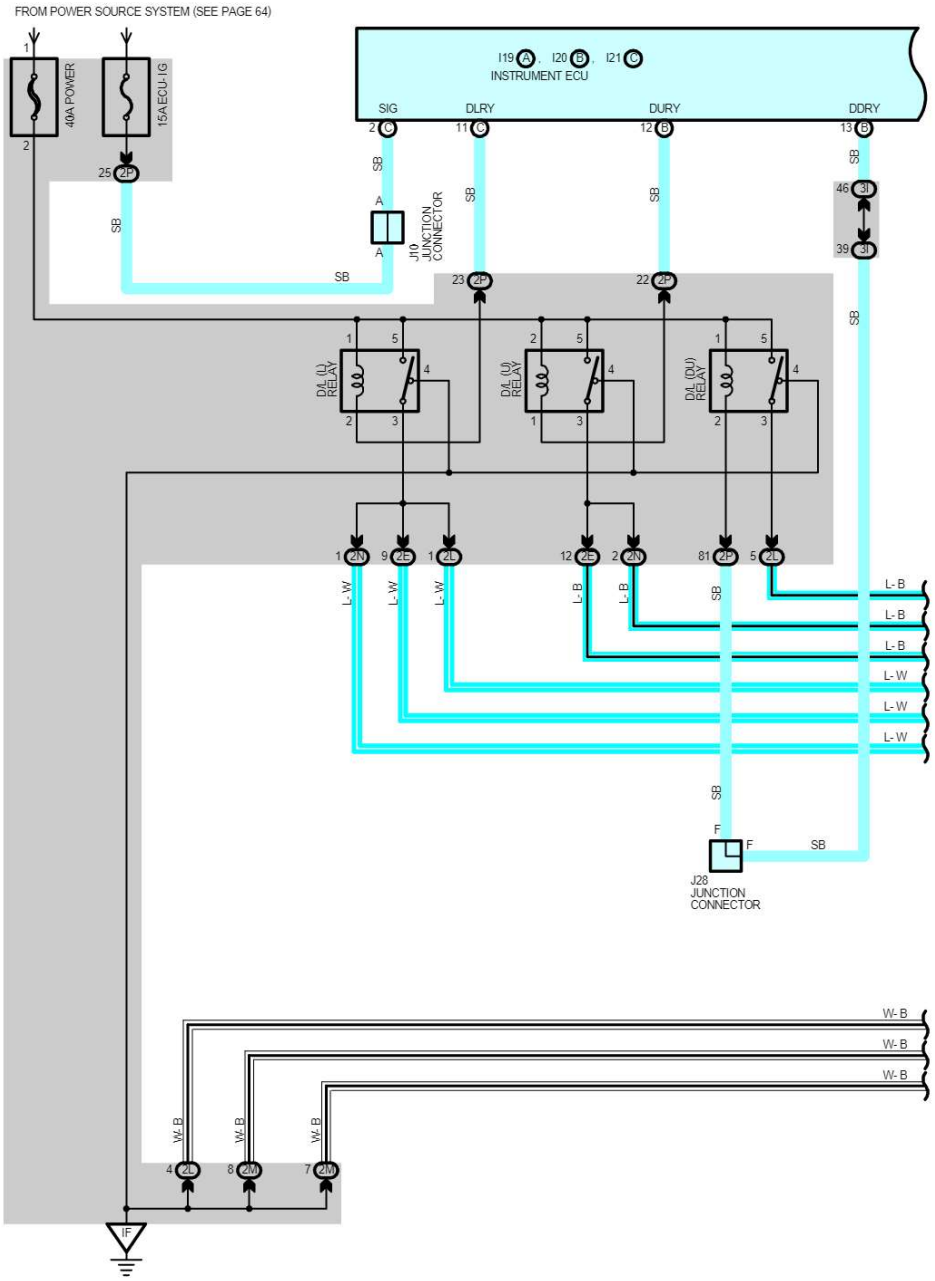
: GROUND POINTS

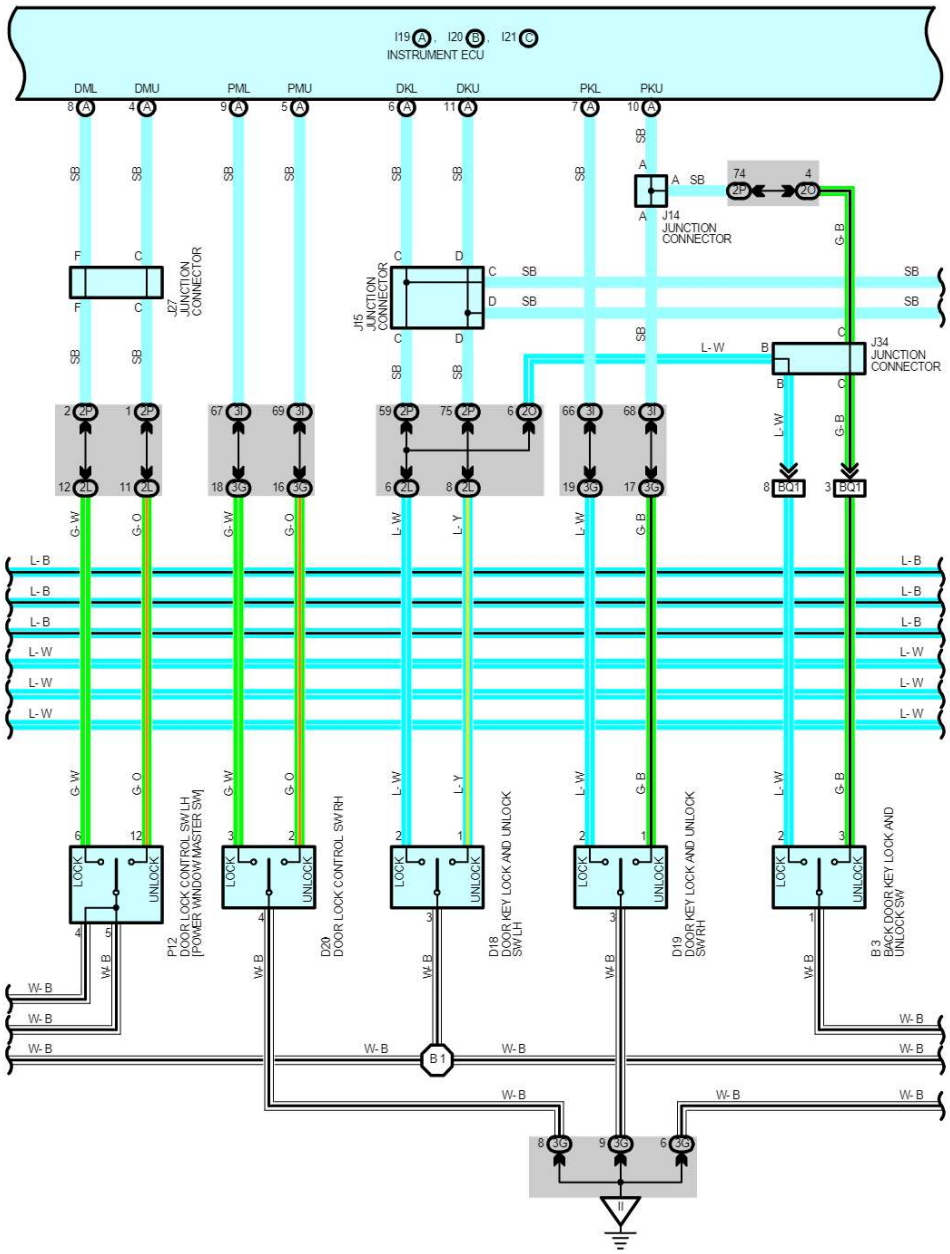
Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
IH II	48	Set Bolt of Cowl Side J/B RH
BM	56	Left Rear Side Quarter Panel

: SPLICE POINTS

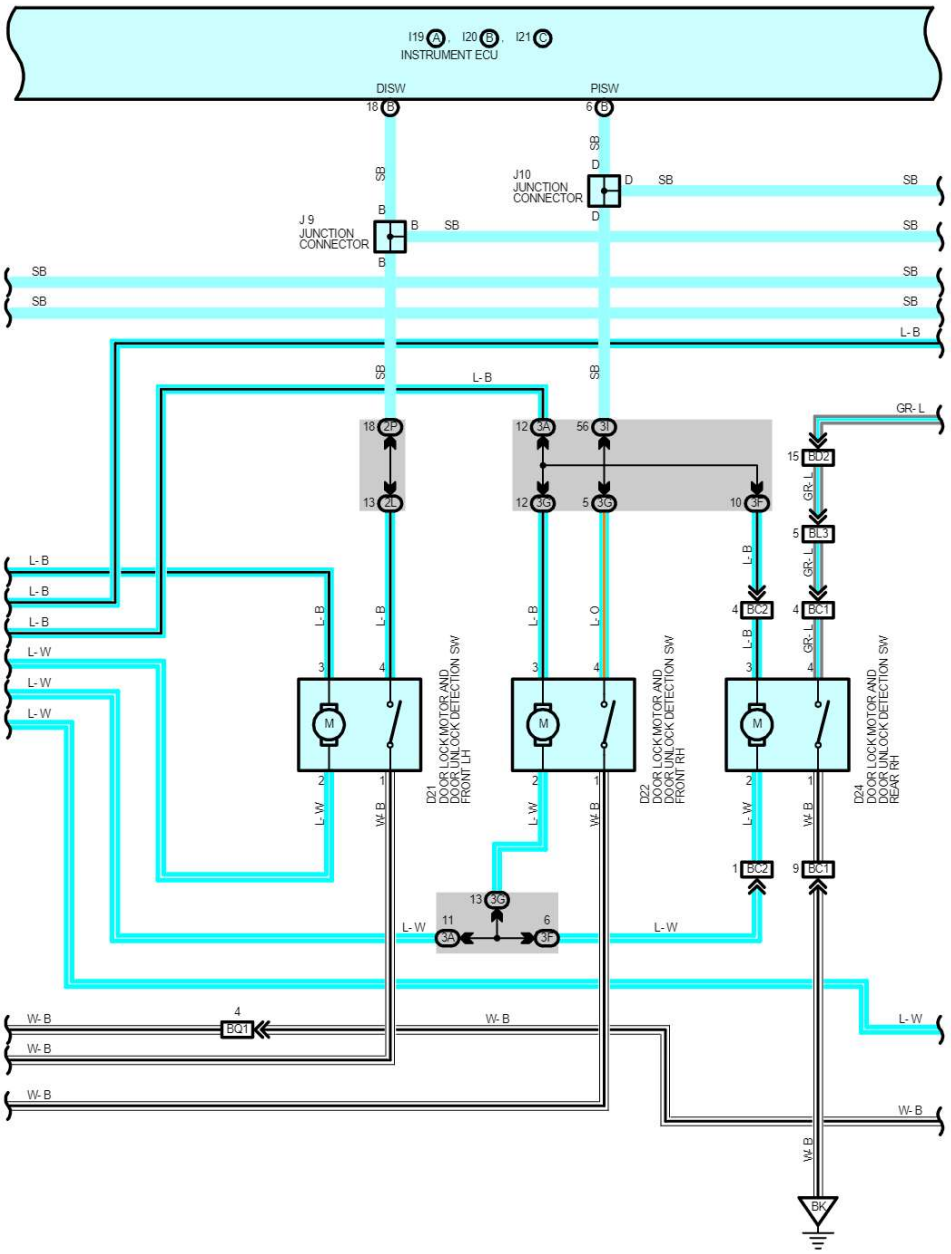
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B1	58	Front Door LH Wire	B6	58	Floor Wire
B5	58	Floor Wire			

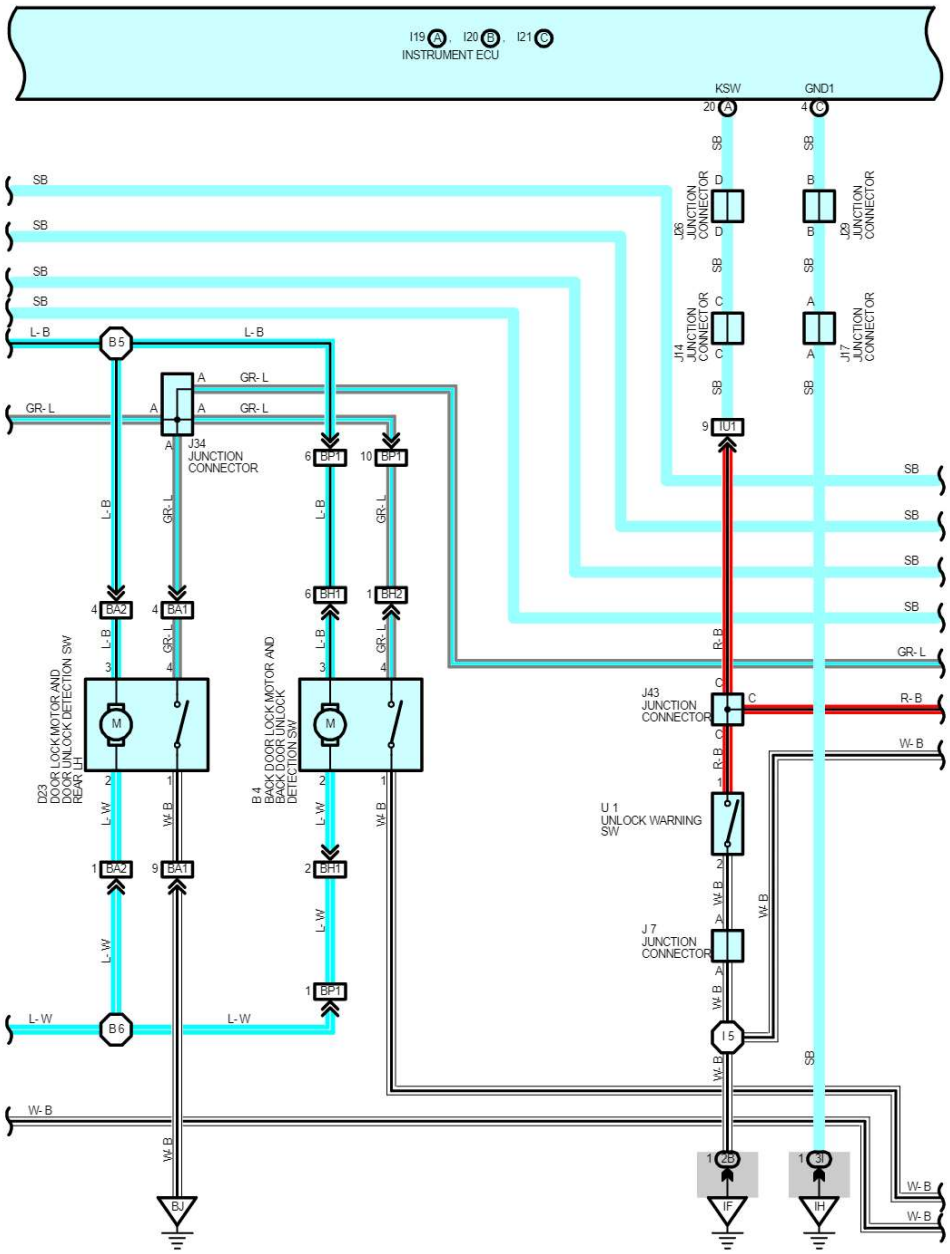
WIRELESS DOOR LOCK CONTROL



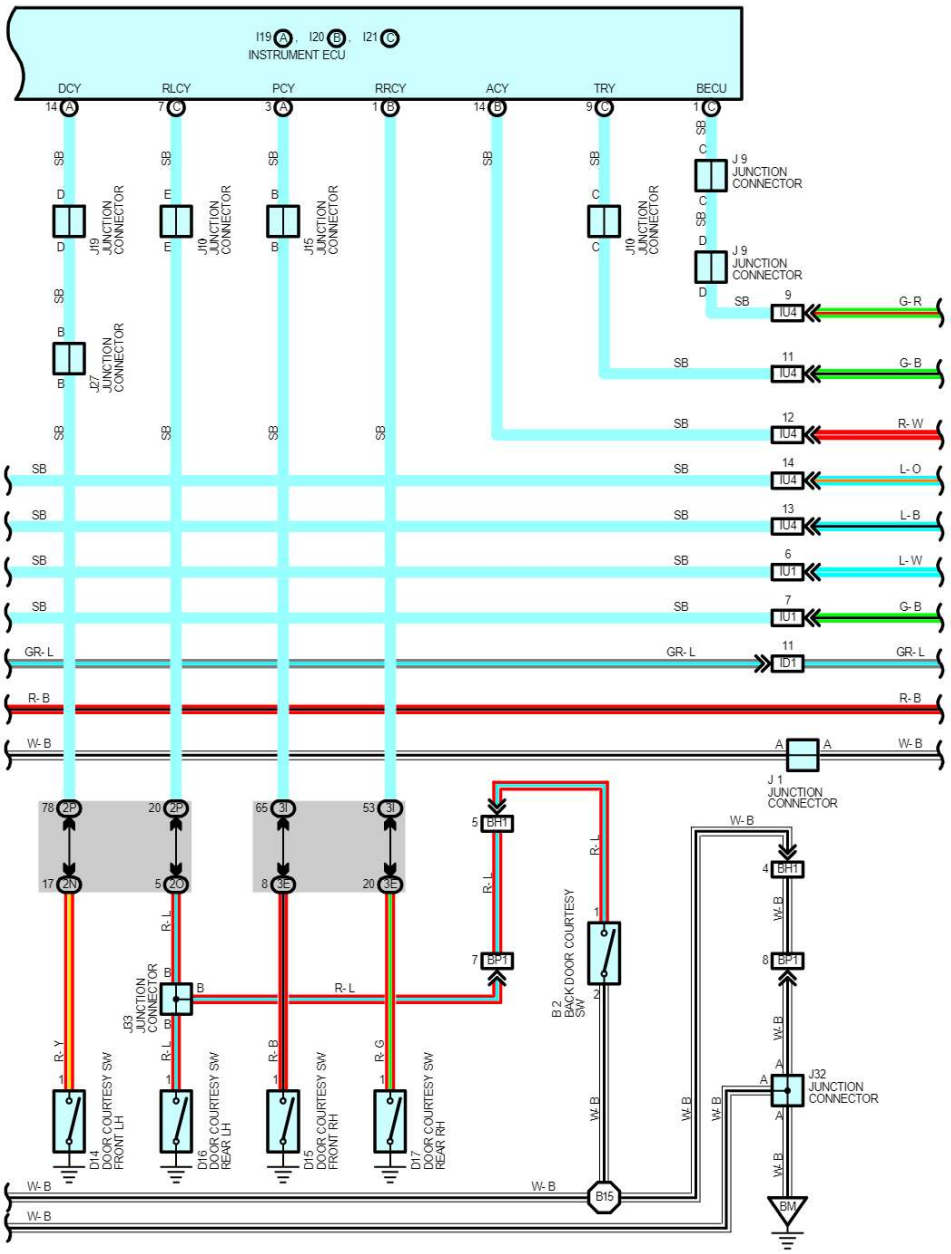

I19 A, I20 B, I21 C
INSTRUMENT ECU
DML
DMU
PML
PMU
DKL
DKU
PKL
PKU
J14 JUNCTION CONNECTOR
J7 JUNCTION CONNECTOR
J15 JUNCTION CONNECTOR
J34 JUNCTION CONNECTOR
P12 DOOR LOCK CONTROL SW LH (POWER WINDOW MASTER SW)
D20 DOOR LOCK CONTROL SW RH
D18 DOOR KEY LOCK AND UNLOCK SW LH
D19 DOOR KEY LOCK AND UNLOCK SW RH
B3 BACK DOOR KEY LOCK AND UNLOCK SW
LOCK
UNLOCK
B1

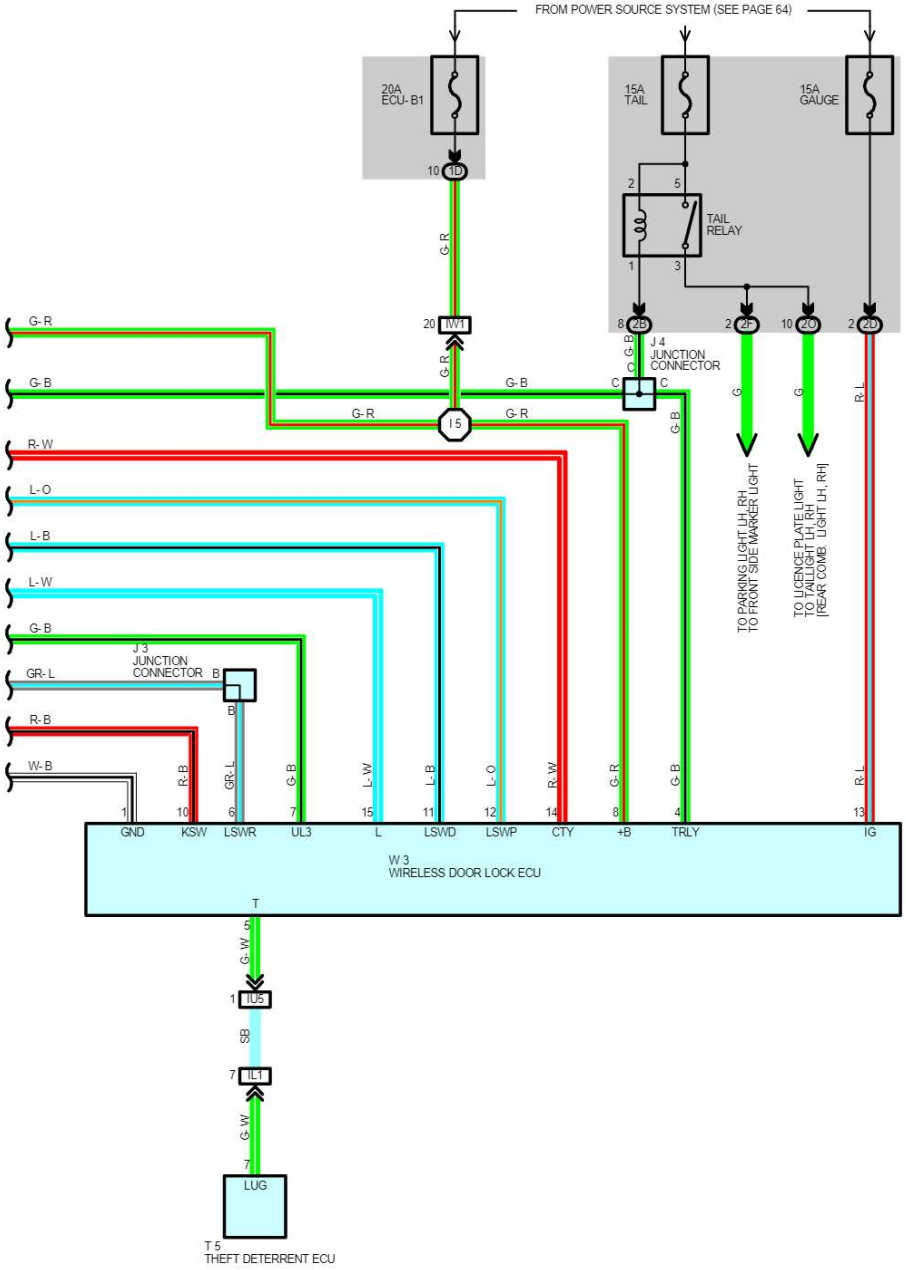
WIRELESS DOOR LOCK CONTROL




I19 A , I20 B , I21 C
INSTRUMENT ECU
KSW
GND1
20 A
4 C
SB
D
B
D6 JUNCTION CONNECTOR
D9 JUNCTION CONNECTOR
C
A
J14 JUNCTION CONNECTOR
J17 JUNCTION CONNECTOR
9 IU1
L-B
GR-L
B5
B6
A
J34 JUNCTION CONNECTOR
6 BP1
10 BP1
1 BP1
4 BA2
4 BA1
6 BH1
1 BH2
2 BH1
1 BA2
9 BA1
D23 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR LH
B 4 BACK DOOR LOCK MOTOR AND BACK DOOR UNLOCK DETECTION SW
M
L-W
W-B
R-B
J43 JUNCTION CONNECTOR
C
U 1 UNLOCK WARNING SW
J 7 JUNCTION CONNECTOR
I 5
W-B
BJ
1 2B
1 3I
IF
IH

WIRELESS DOOR LOCK CONTROL




FROM POWER SOURCE SYSTEM (SEE PAGE 64)
20A
ECU- B1
15A
TAIL
15A
GAUGE
TAIL
RELAY
J 4
JUNCTION
CONNECTOR
J 3
JUNCTION
CONNECTOR
TO PARKING LIGHT LH, RH
TO FRONT SIDE MARKER LIGHT
TO LICENCE PLATE LIGHT
TO TAILLIGHT LH, RH
(REAR COMB. LIGHT LH, RH)
GND
KSW
LSWR
UL3
L
LSWD
LSWP
CTY
+B
TRLY
IG
W 3
WIRELESS DOOR LOCK ECU
LUG
T 5
THEFT DETERRENT ECU

WIRELESS DOOR LOCK CONTROL

SYSTEM OUTLINE

In this system, the wireless door lock ECU receivers weak radio wave transmitted from the transmitter built-into the ignition key, and outputs a signal to the instrument ECU. Accordingly, all the doors are can be locked and unlocked by remote control.

1. NORMAL OPERATION

- Lock operation
  When the lock SW on the transmitter is pressed, all the doors are locked.
- Unlock operation
  When the unlock SW on the transmitter is pressed once, only the driver door is unlocked. When the unlock SW is pressed again within 3 seconds, all the doors are unlocked.

2. AUTO LOCK FUNCTION

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

- Any door is opened.
- The ignition key is inserted into the ignition SW.
- When the unlock detection SW of all the doors are locked.

3. WIRELESS DOOR LOCK STOP FUNCTION

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

Lock operation

- When any door is open (Door courtesy SW on)
- The ignition key is inserted into the ignition SW (Unlock warning SW on)
- Ignition SW is on

Unlock operation

- Ignition SW is on

4. VISUAL CONFIRMATION OF LOCK OR UNLOCK

During lock operation, when the wireless door lock ECU receives a lock signal from the door unlock detection SW, the taillight and parking light is flashed once. During unlock operation, when the wireless door lock ECU receives an unlock signal from the door unlock detection SW, the taillight and parking light is flashed twice.

5. PANIC MODE FUNCTION

When the panic SW on the transmitter is pressed, the wireless door lock ECU receives a signal and enters the panic mode. The signal input into the theft deterrent ECU from the wireless door lock ECU turns on the theft deterrent horn, and flashes the taillight and headlight. When the panic SW or the unlock SW of the transmitter is pressed during the panic mode, the panic mode is canceled, and the theft deterrent horn stops, and the taillight and headlight are turned off.

6. REPEAT FUNCTION

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

SERVICE HINTS

W3 WIRELESS DOOR LOCK ECU

1-GROUND : Always continuity
8-GROUND : Always approx. **12** volts
13-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

D21, D22, D23, D24 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW FRONT LH, RH, REAR LH, RH

2-GROUND : Approx. **12** volts with door lock motor at lock operation
3-GROUND : Approx. **12** volts with door lock motor at unlock operation

B4 BACK DOOR LOCK MOTOR AND BACK DOOR UNLOCK DETECTION SW

2-GROUND : Approx. **12** volts with door lock motor at lock operation
3-GROUND : Approx. **12** volts with door lock motor at unlock operation

I19 (A), I20 (B), I21 (C) INSTRUMENT ECU

(A) 3-GROUND : Continuity with front passenger door open
(A)14-GROUND : Continuity with driver door open
(B) 1-GROUND : Continuity with rear RH door open
(C) 7-GROUND : Continuity with rear LH door or back door open
(C) 1-GROUND : Always approx. **12** volts
(C) 2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(C) 4-GROUND : Always continuity

D14, D15, D16, D17 DOOR COURTESY SW FRONT LH, RH, REAR LH, RH

1-GROUND : Closed with door open

B2 BACK DOOR COURTESY SW

1-2 : Closed with back door open

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B2	42	D24	42	J19	41
B3	42	I19 A	40	J26	41
B4	42	I20 B	40	J27	41
D14	42	I21 C	40	J28	41
D15	42	J1	41	J29	41
D16	42	J3	41	J32	42
D17	42	J4	41	J33	42
D18	42	J7	41	J34	42
D19	42	J9	41	J43	41
D20	42	J10	41	P12	43
D21	42	J14	41	T5	41
D22	42	J15	41	U1	41
D23	42	J17	41	W3	41

WIRELESS DOOR LOCK CONTROL

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2F		
2L	26	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2M		
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2O		
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3A	32	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3F		
3G	32	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

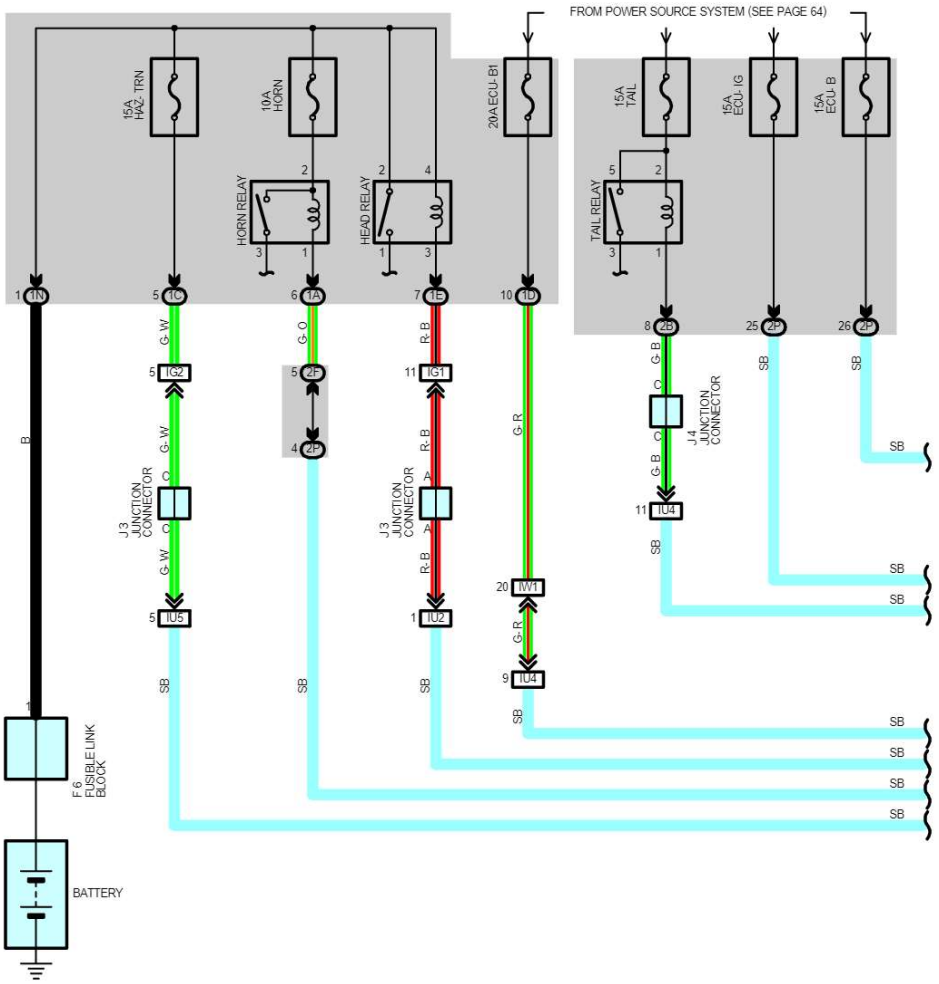
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)
IL1	50	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IU1	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU4		
IU5		
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
BA1	56	Rear Door LH Wire and Floor Wire (Left Side of Center Pillar)
BA2		
BC1	56	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BC2		
BD2	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BH1	58	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BH2		
BL3	58	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BP1	58	Pillar No.1 Wire and Floor Wire (Left Rear Side Quarter Panel)
BQ1	58	Back Door Lower Wire and Floor Wire (Left Rear Side Quarter Panel)

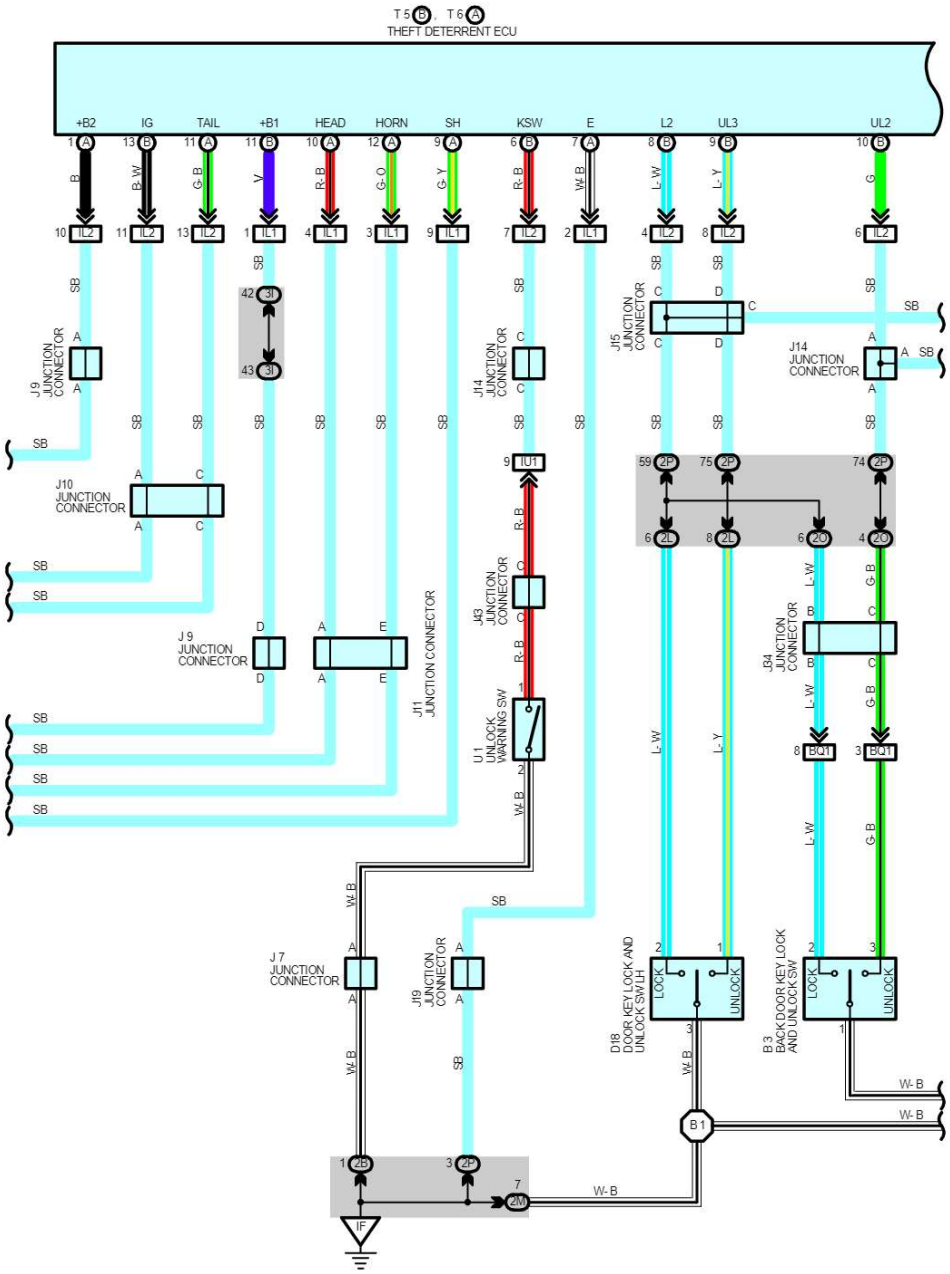
 : GROUND POINTS

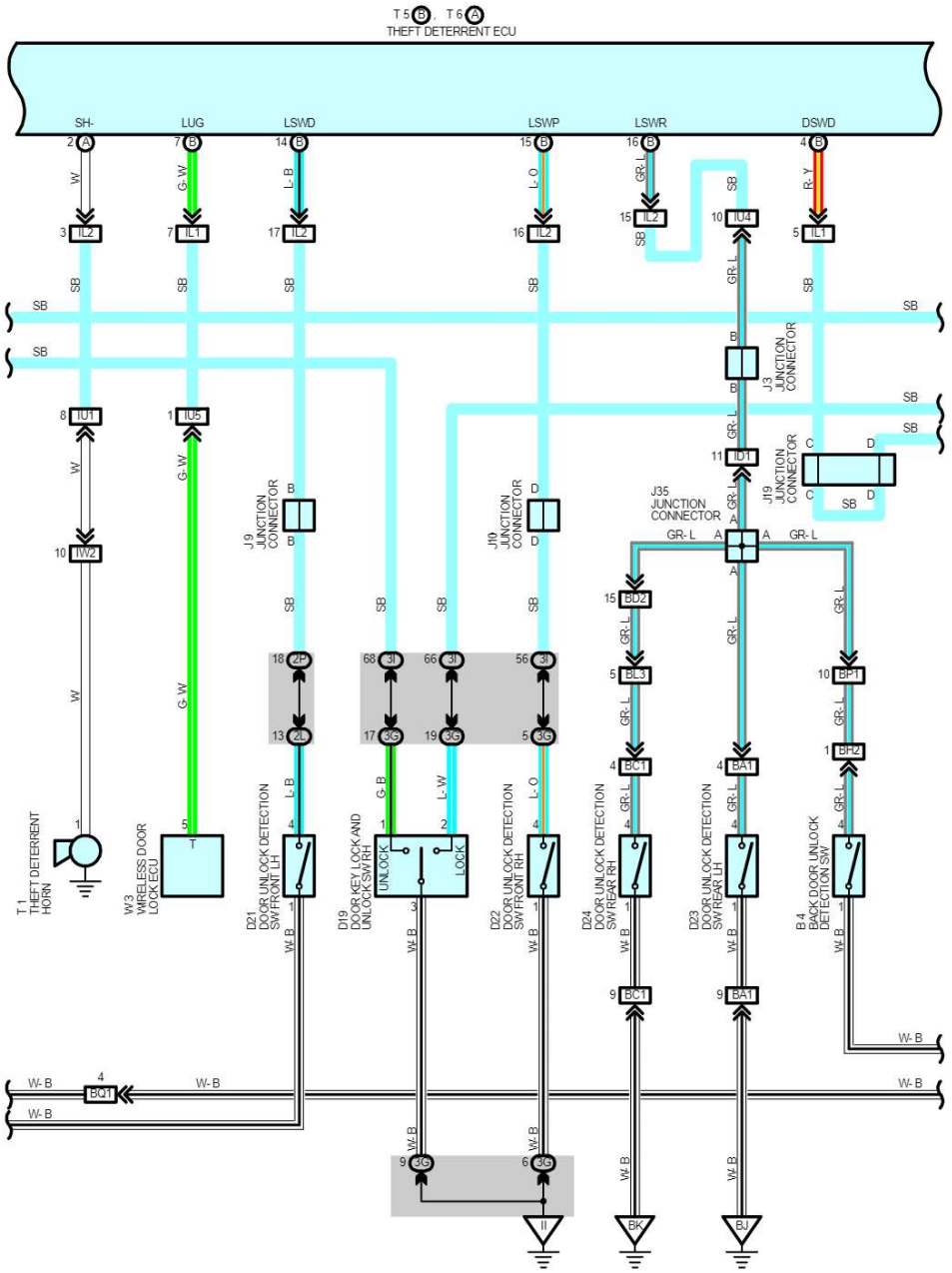
Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
IH	48	Set Bolt of Cowl Side J/B RH
II		
BJ	56	Under the Driver's Seat
BK	56	Front Side Under the Front Passenger's Seat
BM	56	Left Rear Side Quarter Panel

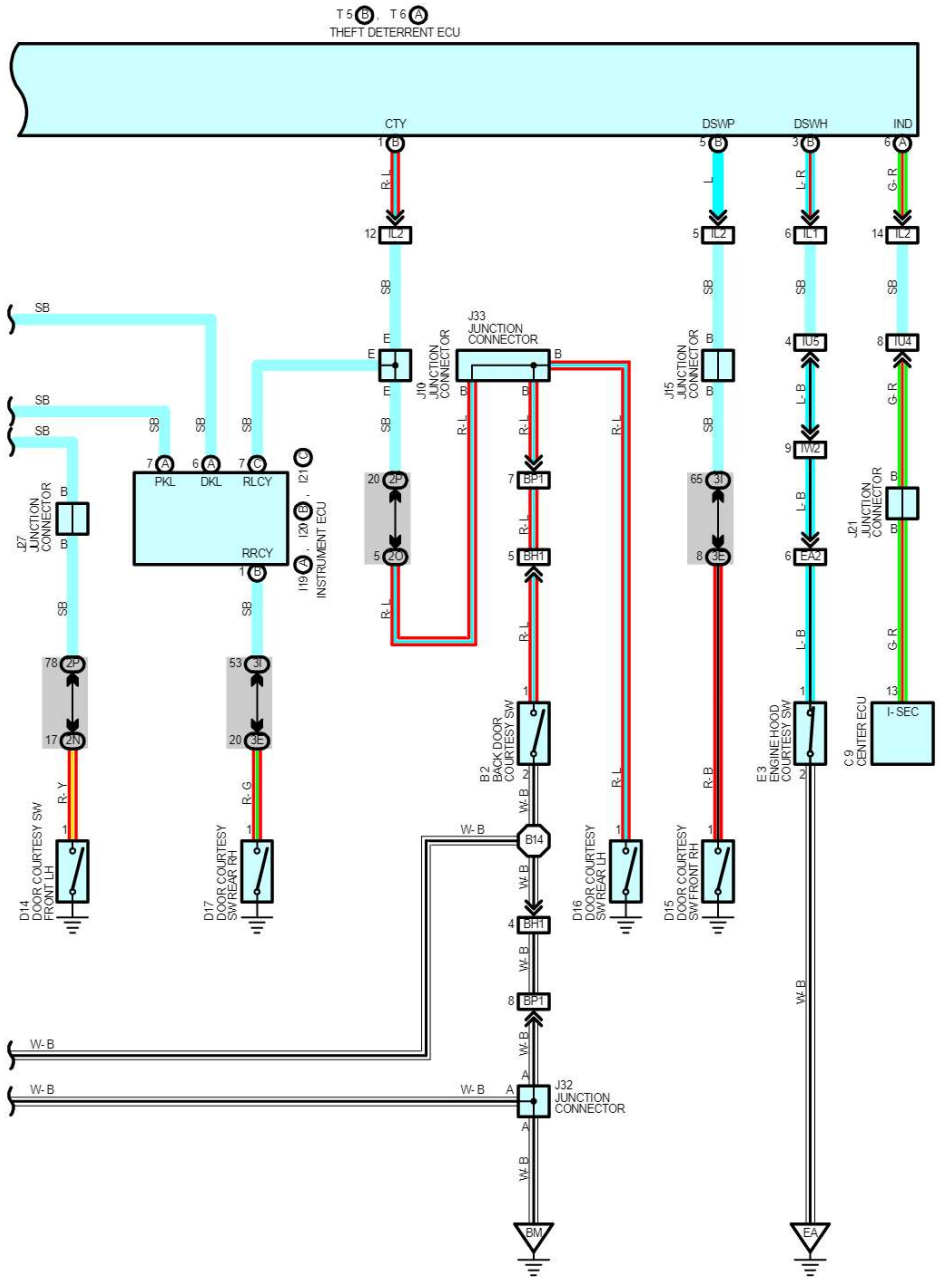
 : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I5	50	Dash Wire	B6	58	Floor Wire
B1	58	Front Door LH Wire	B15	58	Back Door Upper Wire
B5	58	Floor Wire			


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
15A HAZ-TRN
10A HORN
20A ECU-B1
15A TAIL
15A ECU-IG
15A ECU-B
HORN RELAY
HEAD RELAY
TAIL RELAY
1N
1C
1A
1E
1D
2S
2P
2F
1G2
1G1
1W1
1U5
1U2
1U4
J3 JUNCTION CONNECTOR
J4 JUNCTION CONNECTOR
F 6 FUSIBLE LINK BLOCK
BATTERY
B
G-W
G-O
R-B
G-R
G-B
SB


T5 (B), T6 (A)
THEFT DETERRENT ECU
+B2
IG
TAIL
+B1
HEAD
HORN
SH
KSW
E
L2
UL3
UL2
J9 JUNCTION CONNECTOR
J10 JUNCTION CONNECTOR
J 9 JUNCTION CONNECTOR
J11 JUNCTION CONNECTOR
J14 JUNCTION CONNECTOR
J43 JUNCTION CONNECTOR
J15 JUNCTION CONNECTOR
J14 JUNCTION CONNECTOR
J84 JUNCTION CONNECTOR
U 1 UNLOCK WARNING SW
J 7 JUNCTION CONNECTOR
J19 JUNCTION CONNECTOR
D18 DOOR KEY LOCK AND UNLOCK SW LH
B 3 BACK DOOR KEY LOCK AND UNLOCK SW
LOCK
UNLOCK
B1
1F
SB
W-B
L-W
L-Y
G-B
R-B
G-O
G-Y
W-R
G


T5 B T6 A
THEFT DETERRENT ECU
SH-
LUG
LSWD
LSWP
LSWR
DSWD
J3 JUNCTION CONNECTOR
J9 JUNCTION CONNECTOR
J10 JUNCTION CONNECTOR
J35 JUNCTION CONNECTOR
J19 JUNCTION CONNECTOR
T1 THEFT DETERRENT HORN
W3 WIRELESS DOOR LOCK ECU
D21 DOOR UNLOCK DETECTION SW FRONT LH
D19 DOOR KEY LOCK AND UNLOCK SW RH
D22 DOOR UNLOCK DETECTION SW FRONT RH
D24 DOOR UNLOCK DETECTION SW REAR RH
D23 DOOR UNLOCK DETECTION SW REAR LH
B4 BACK DOOR UNLOCK DETECTION SW
UNLOCK
LOCK
BK
BJ


T5 (B), T6 (A)
THEFT DETERRENT ECU
CTY
DSWP
DSWH
IND
J33 JUNCTION CONNECTOR
J10 JUNCTION CONNECTOR
J15 JUNCTION CONNECTOR
J21 JUNCTION CONNECTOR
J27 JUNCTION CONNECTOR
PKL
DKL
RLCY
RRCY
I21
I20
I19
INSTRUMENT ECU
B2 BACK DOOR COURTESY SW
B14
D14 DOOR COURTESY SW FRONT LH
D17 DOOR COURTESY SW REAR RH
D16 DOOR COURTESY SW REAR LH
D15 DOOR COURTESY SW FRONT RH
E3 ENGINE HOOD COURTESY SW
C9 CENTER ECU
I-SEC
J32 JUNCTION CONNECTOR
BM
EA

THEFT DETERRENT

SERVICE HINTS

D18, D19 DOOR KEY LOCK AND UNLOCK SW LH, RH
1-3 : Closed with door lock cylinder unlocked with key
2-3 : Closed with door lock cylinder locked with key

B3 BACK DOOR KEY LOCK AND UNLOCK SW
1-3 : Closed with door lock cylinder unlocked with key
1-2 : Closed with door lock cylinder locked with key

E3 ENGINE HOOD COURTESY SW
1-3 : Opened with engine hood open

U1 UNLOCK WARNING SW
2-1 : Closed with ignition key in cylinder

T5 (A), T6 (B) THEFT DETERRENT ECU
(A) 6-GROUND : Continuity with ignition key in cylinder
(A)15-GROUND : Continuity with front RH door unlocked
(A)14-GROUND : Continuity with front LH door unlocked
(A) 5-GROUND : Continuity with front RH door open
(A) 4-GROUND : Continuity with front LH door open
(A) 8-GROUND : Continuity with door key lock SW at **LOCK** position
(B) 7-GROUND : Always continuity
(A) 3-GROUND : Continuity with engine hood close
(A) 9, (B) 10-GROUND : Continuity with door key lock SW to **UNLOCK** position
(A)11, (B) 1, (B) 9-GROUND : Always approx. **12** volts

○ : **PARTS LOCATION**

Code	See Page	Code	See Page	Code	See Page
B2	42	E3	38	J21	41
B3	42	F6	38	J27	41
B4	42	I19 A	40	J32	42
C9	40	I20 B	40	J33	42
D14	42	I21 C	40	J34	42
D15	42	J3	41	J35	42
D16	42	J4	41	J43	41
D17	42	J7	41	T1	39
D18	42	J9	41	T5 B	41
D19	42	J10	41	T6 A	41
D21	42	J11	41	U1	41
D22	42	J14	41	W3	41
D23	42	J15	41		
D24	42	J19	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1C		
1D		
1E		
1N	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2F	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2L	26	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2M		
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2O		
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3G	32	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

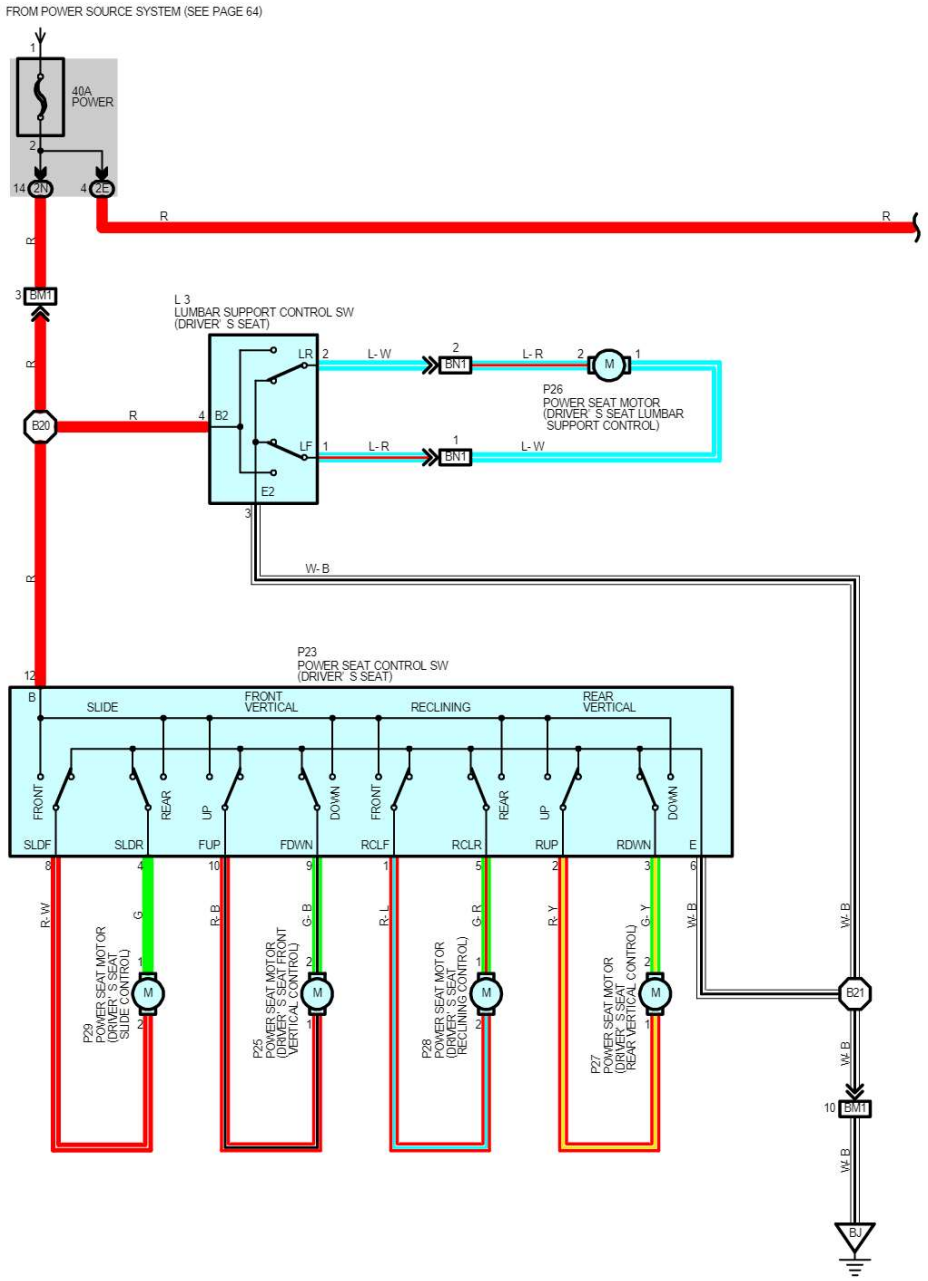
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	46	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG2		
IL1	50	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IL2		
IU1	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU2		
IU4		
IU5		
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IW2		
BA1	56	Rear Door LH Wire and Floor Wire (Left Side of Center Pillar)
BC1	56	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BD2	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BH1	58	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BH2		
BL3	58	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BP1	58	Pillar No.1 Wire and Floor Wire (Left Rear Side Quarter Panel)
BQ1	58	Back Door Lower Wire and Floor Wire (Left Rear Side Quarter Panel)

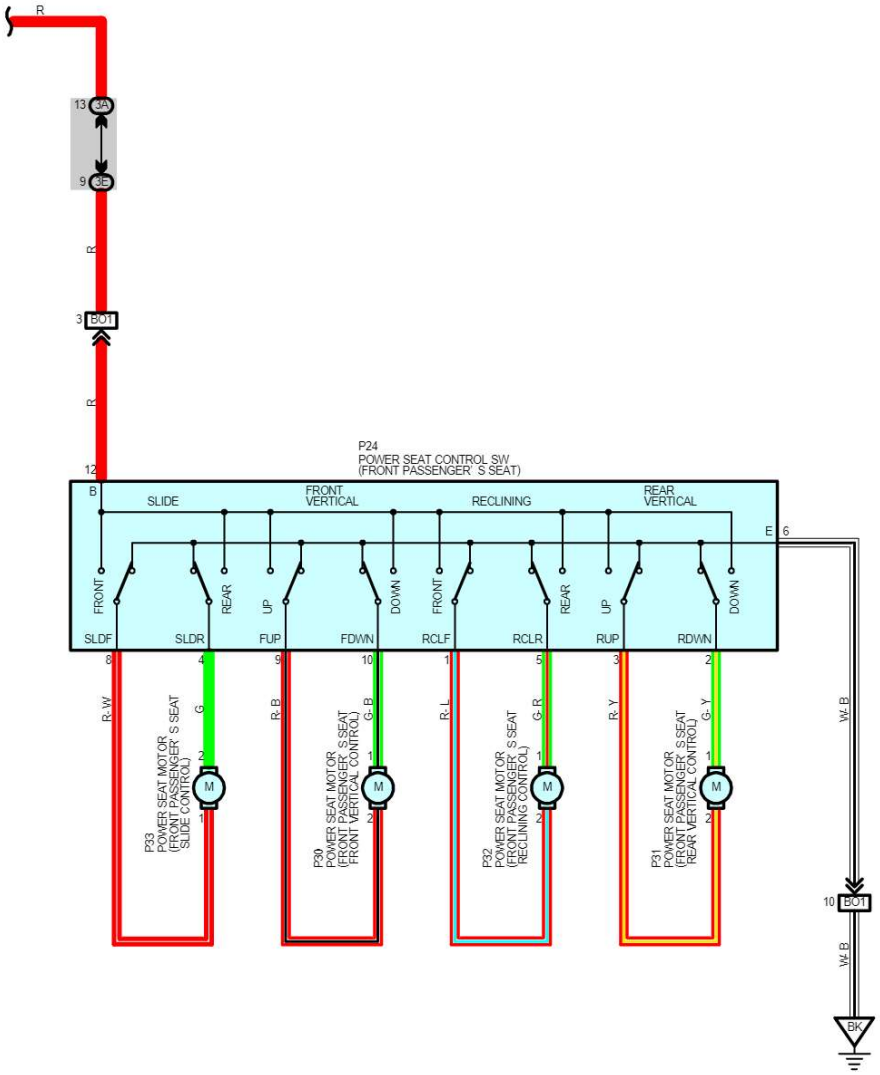
: GROUND POINTS

Code	See Page	Ground Points Location
EA	46	Front Right Side of Fender Apron
IF	48	Set Bolt of Cowl Side J/B LH
II	48	Set Bolt of Cowl Side J/B RH
BJ	56	Under the Driver's Seat
BK	56	Front Side Under the Front Passenger's Seat
BM	56	Left Rear Side Quarter Panel

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B1	58	Front Door LH Wire	B14	58	Floor No.2 Wire


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
40A POWER
2N
2E
R
BM1
L 3
LUMBAR SUPPORT CONTROL SW (DRIVER' S SEAT)
LR
LF
L-W
L-R
BN1
M
P26
POWER SEAT MOTOR (DRIVER' S SEAT LUMBAR SUPPORT CONTROL)
B20
B2
E2
W-B
P23
POWER SEAT CONTROL SW (DRIVER' S SEAT)
SLIDE
FRONT VERTICAL
RECLINING
REAR VERTICAL
FRONT
REAR
UP
DOWN
SLDF
SLDR
FUP
FDWN
RCLF
RCLR
RUP
RDWN
E
R-W
G
R-B
G-B
R-L
G-R
R-Y
G-Y
W-B
P29
POWER SEAT MOTOR (DRIVER' S SEAT SLIDE CONTROL)
P25
POWER SEAT MOTOR (DRIVER' S SEAT FRONT VERTICAL CONTROL)
P28
POWER SEAT MOTOR (DRIVER' S SEAT RECLINING CONTROL)
P27
POWER SEAT MOTOR (DRIVER' S SEAT REAR VERTICAL CONTROL)
B21
BM1
BJ


R
13
3A
9
3E
R
3
B01
R
12
P24
POWER SEAT CONTROL SW
(FRONT PASSENGER' S SEAT)
B
SLIDE
FRONT VERTICAL
RECLINING
REAR VERTICAL
E
6
FRONT
REAR
UP
DOWN
FRONT
REAR
UP
DOWN
SLDF
SLDR
FUP
FDWN
RCLF
RCLR
RUP
RDWN
8
4
9
10
1
5
3
2
R-W
G
R-B
G-B
R-L
G-R
R-Y
G-Y
W-B
P33
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT
SLIDE CONTROL)
P30
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT
FRONT VERTICAL CONTROL)
P32
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT
RECLINING CONTROL)
P31
POWER SEAT MOTOR
(FRONT PASSENGER' S SEAT
REAR VERTICAL CONTROL)
M
10
B01
W-B
BK

POWER SEAT

SERVICE HINTS

P23 POWER SEAT CONTROL SW (DRIVER'S SEAT)

12-1 : Closed with driver's seat at front reclining operation
12-5 : Closed with driver's seat at rear reclining operation
12-10 : Closed with driver's seat at front vertical up operation
12-9 : Closed with driver's seat at front vertical down operation
12-2 : Closed with driver's seat at rear vertical up operation
12-3 : Closed with driver's seat at rear vertical down operation
12-8 : Closed with driver's seat at front slide operation
12-4 : Closed with driver's seat at rear slide operation
6-GROUND : Always continuity

P24 POWER SEAT CONTROL SW (FRONT PASSENGER'S SEAT)

12-1 : Closed with front passenger's seat at front reclining operation
12-5 : Closed with front passenger's seat at rear reclining operation
12-9 : Closed with front passenger's seat at front vertical up operation
12-10 : Closed with front passenger's seat at front vertical down operation
12-3 : Closed with front passenger's seat at rear vertical up operation
12-2 : Closed with front passenger's seat at rear vertical down operation
12-8 : Closed with front passenger's seat at front slide operation
12-4 : Closed with front passenger's seat at rear slide operation
6-GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
L3	44	P26	44	P30	44
P23	44	P27	44	P31	44
P24	44	P28	44	P32	44
P25	44	P29	44	P33	44

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
3A	32	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BM1	60	Floor Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BN1	60	Seat No.2 Wire and Front Seat LH Wire (Rear Side Under the Driver's Seat)
BO1	60	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)

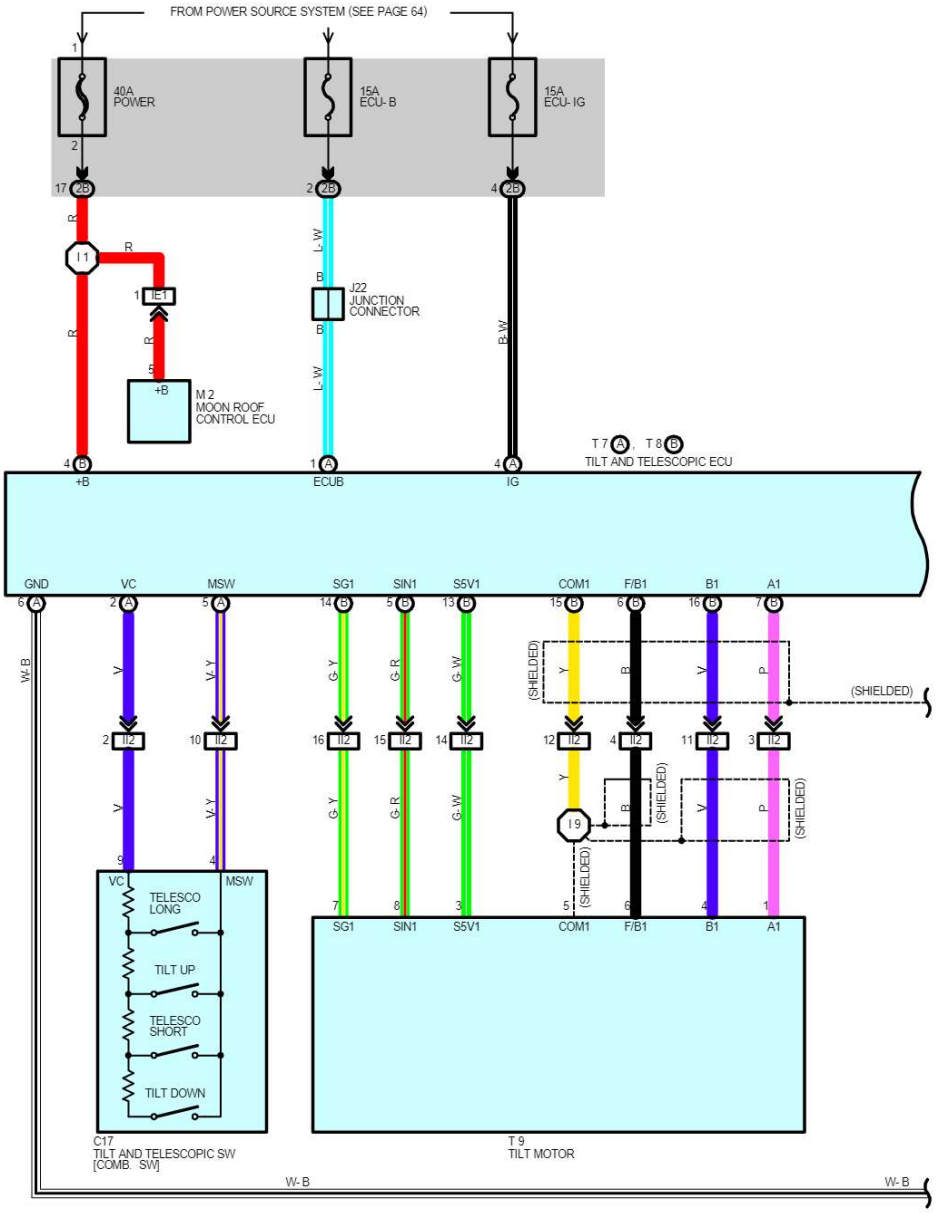
: GROUND POINTS

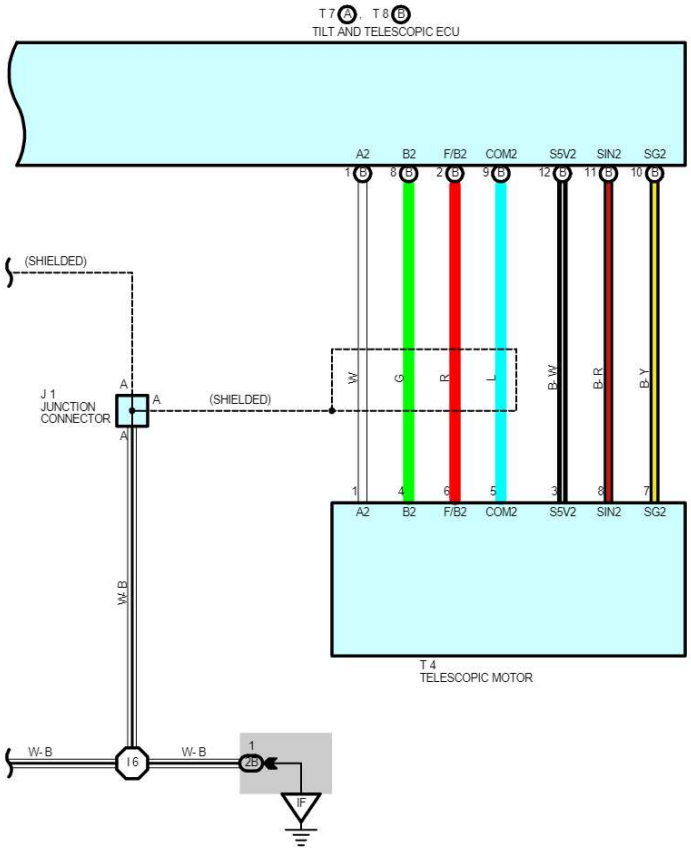
Code	See Page	Ground Points Location
BJ	56	Under the Driver's Seat
BK	56	Front Side Under the Front Passenger's Seat

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B20	60	Front Seat LH Wire	B21	60	Front Seat LH Wire

POWER TILT AND POWER TELESCOPIC




T 7 (A), T 8 (B)
TILT AND TELESCOPIC ECU
A2
B2
F/B2
COM2
S5V2
SIN2
SG2
1 (B)
8 (B)
2 (B)
9 (B)
12 (B)
11 (B)
10 (B)
(SHIELDED)
J 1
JUNCTION
CONNECTOR
A
A
A
(SHIELDED)
W
G
R
L
B-W
B-R
B-Y
1
4
6
5
3
8
7
A2
B2
F/B2
COM2
S5V2
SIN2
SG2
T 4
TELESCOPIC MOTOR
W-B
W-B
W-B
I 6
1
2B
IF

POWER TILT AND POWER TELESCOPIC

SYSTEM OUTLINE

This system provides the automatic tilt and telescopic mechanisms using the motor drive, tilt and telescopic ECU control, allowing variable steering movement in the back and forth, and vertical directions. This makes it possible to set the steering to the desired steering position.

1. MANUAL OPERATION

The tilt and telescopic can be adjusted while the ignition key is inserted into the key cylinder.

* Tilt operation
  When the tilt and telescopic SW is pressed to TILT DOWN position, the current flows from tilt and telescopic ECU TERMINAL (A) 2 to tilt and telescopic SW TERMINAL 9 to TERMINAL 4 to tilt and telescopic ECU TERMINAL (A) 5, and a signal is input to the tilt and telescopic ECU. This activates the tilt and telescopic ECU and rotates the tilt motor to lower the steering while the tilt and telescopic SW is kept pressed to TILT DOWN position.
  When the tilt and telescopic SW is pressed to TILT UP position, the current flows from tilt and telescopic ECU TERMINAL (A) 2 to tilt and telescopic SW TERMINAL 9 to TERMINAL 4 to tilt and telescopic ECU TERMINAL (A) 5, and a signal is input to the tilt and telescopic ECU. This activates the tilt and telescopic ECU and rotates the tilt motor to raise the steering while the tilt and telescopic SW is kept pressed to TILT UP position.
* Telescopic operation
  When the tilt and telescopic SW is pressed to TELESCO LONG position, the current flows from tilt and telescopic ECU TERMINAL (A) 2 to tilt and telescopic SW TERMINAL 9 to TERMINAL 4 to tilt and telescopic ECU TERMINAL (A) 5, and a signal is input to the tilt and telescopic ECU. This activates the tilt and telescopic ECU and rotates the telescopic motor to extend the telescopic while the tilt and telescopic SW is kept pressed to TELESCO LONG position.
  When the tilt and telescopic SW is pressed to TELESCO SHORT position, the current flows from tilt and telescopic ECU TERMINAL (A) 2 to tilt and telescopic SW TERMINAL 9 to TERMINAL 4 to tilt and telescopic ECU TERMINAL (A) 5, and a signal is input to the tilt and telescopic ECU. This activates the tilt and telescopic ECU and rotates the telescopic motor to retract the telescopic while the tilt and telescopic SW is kept pressed to TELESCO SHORT position.

SERVICE HINTS

T7 (A), T8 (B) TILT AND TELESCOPIC ECU

(A) 1-GROUND : Always approx. **12** volts
(B) 4-GROUND : Always approx. **12** volts
(A) 4-GROUND :Approx. **12** volts with ignition SW at **ON** or **ST** position
(A) 6-GROUND : Always continuity

C17 TILT AND TELESCOPIC SW [COMB. SW]

4-9 : Approx. **160** Ω with telesco long operation
: Approx. **360** Ω with tilt up operation
: Approx. **790** Ω with telesco short operation
: Approx. **1.99** kΩ with tilt down operation

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C17	40	M2	42	T8 B	41
J1	41	T4	41	T9	41
J22	41	T7 A	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	48	Dash Wire and Roof Wire (Left Kick Panel)
II2	50	Column Wire and Dash Wire (Near the Ignition SW)

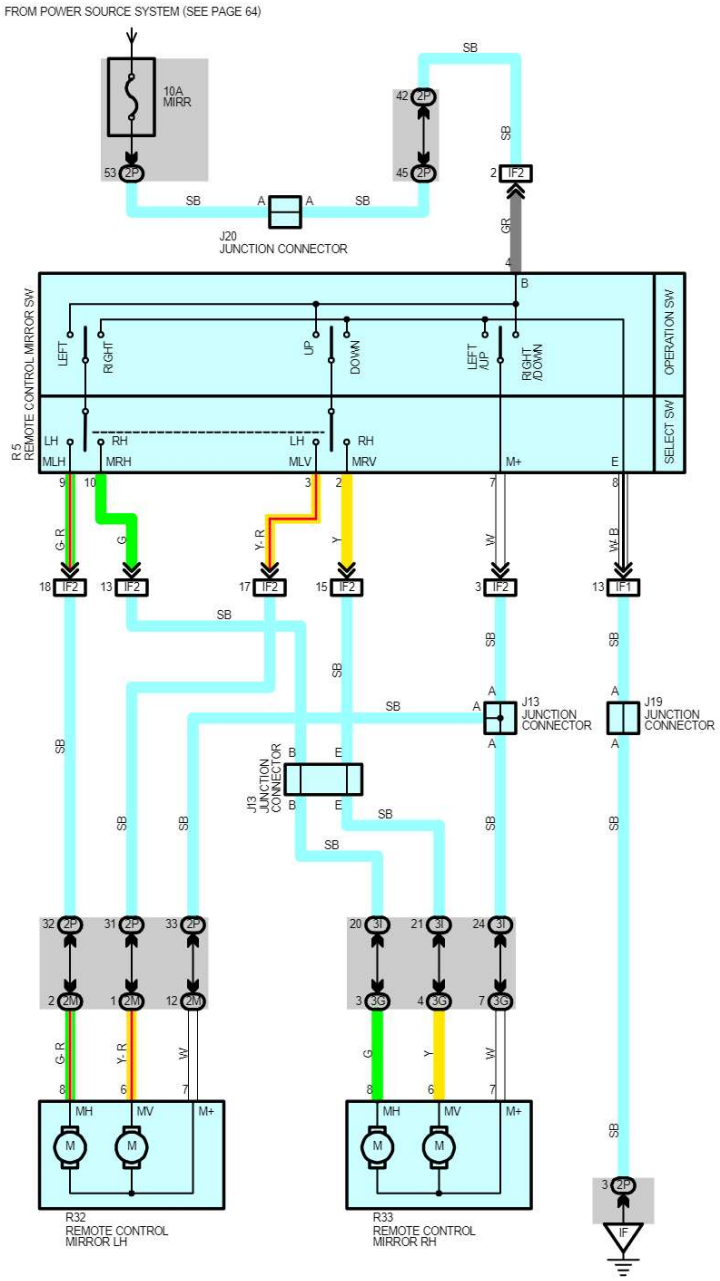
: GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH

: **SPLICE POINTS**

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I1	50	Dash Wire	I9	50	Columm Wire
I6					

REMOTE CONTROL MIRROR



SERVICE HINTS

R5 REMOTE CONTROL MIRROR SW

7-8 : Continuity with the operation SW at **UP** or **LEFT** position
4-7 : Continuity with the operation SW at **RIGHT** or **DOWN** position
4-9 : Continuity with the operation SW at **LEFT** position and the select SW at **LH** position
4-3 : Continuity with the operation SW at **UP** position and the select SW at **LH** position
8-10 : Continuity with the operation SW at **RIGHT** position and the select SW at **RH** position
2-8 : Continuity with the operation SW at **DOWN** position and the select SW at **RH** position
4-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position
8-GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J13	41	J20	41	R32	43
J19	41	R5	41	R33	43

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2M	26	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3G	32	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

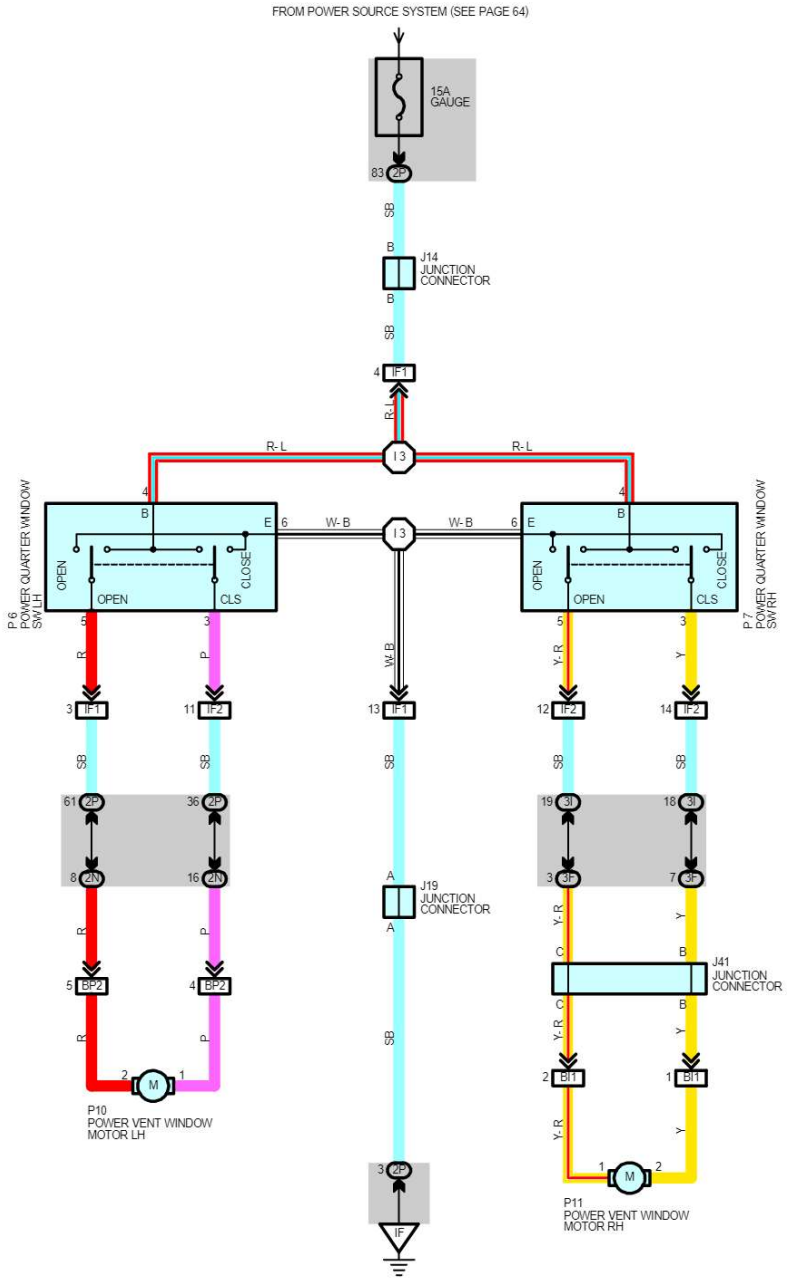
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	48	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IF2		

: GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH

POWER REAR QUARTER WINDOW



SERVICE HINTS

P6 POWER QUARTER WINDOW SW LH

4-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
6-GROUND : Always continuity

P7 POWER QUARTER WINDOW SW RH

4-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
6-GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J14	41	P6	41	P11	43
J19	41	P7	41		
J41	42	P10	43		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3F	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	48	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IF2		
BI1	58	Roof No.2 Wire and Floor No.2 Wire (Right Side Rear Quarter Panel)
BP2	58	Pillar No.1 Wire and Floor Wire (Left Rear Side Quarter Panel)

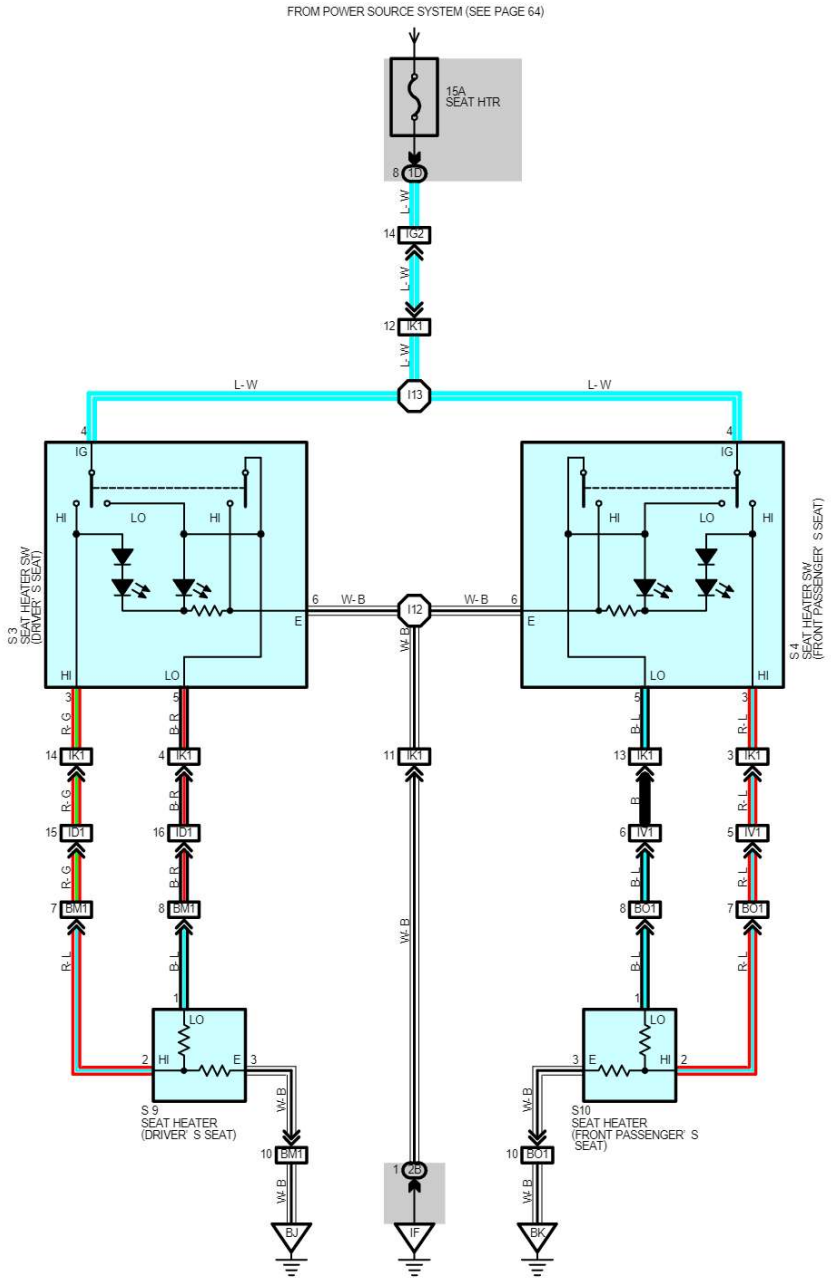
: GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I3	50	Instrument Panel Wire			

SEAT HEATER


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
15A
SEAT HTR
8 1D
L-W
14 IG2
L-W
12 IK1
L-W
I13
L-W
L-W
4
IG
HI
LO
HI
S3
SEAT HEATER SW
(DRIVER' S SEAT)
6 W-B
I12
W-B 6
E
E
W-B
HI
LO
3 R-G
14 IK1
R-G
15 ID1
R-G
7 BM1
R-L
5 B-R
4 IK1
B-R
16 ID1
B-R
8 BM1
B-L
1
LO
2 HI
E 3
S 9
SEAT HEATER
(DRIVER' S SEAT)
W-B
10 BM1
W-B
BJ
11 IK1
W-B
1 2B
IF
5 B-L
13 IK1
B
6 IV1
B-L
8 BO1
B-L
1
LO
3 E
HI 2
W-B
10 BO1
W-B
BK
S10
SEAT HEATER
(FRONT PASSENGER' S
SEAT)
3 R-L
3 IK1
R-L
5 IV1
R-L
7 BO1
R-L
S4
SEAT HEATER SW
(FRONT PASSENGER' S SEAT)

SERVICE HINTS

S3 SEAT HEATER SW (DRIVER'S SEAT)

4-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
6-GROUND : Always continuity

S4 SEAT HEATER SW (FRONT PASSENGER'S SEAT)

4-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
6-GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
S3	41	S9	44		
S4	41	S10	44		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)
IG2	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IK1	50	Console Box Wire and Dash Wire (Left Side of Front Console)
IV1	54	Dash Wire and Floor No.2 Wire (Behind the Glove Box)
BM1	60	Floor Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BO1	60	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)

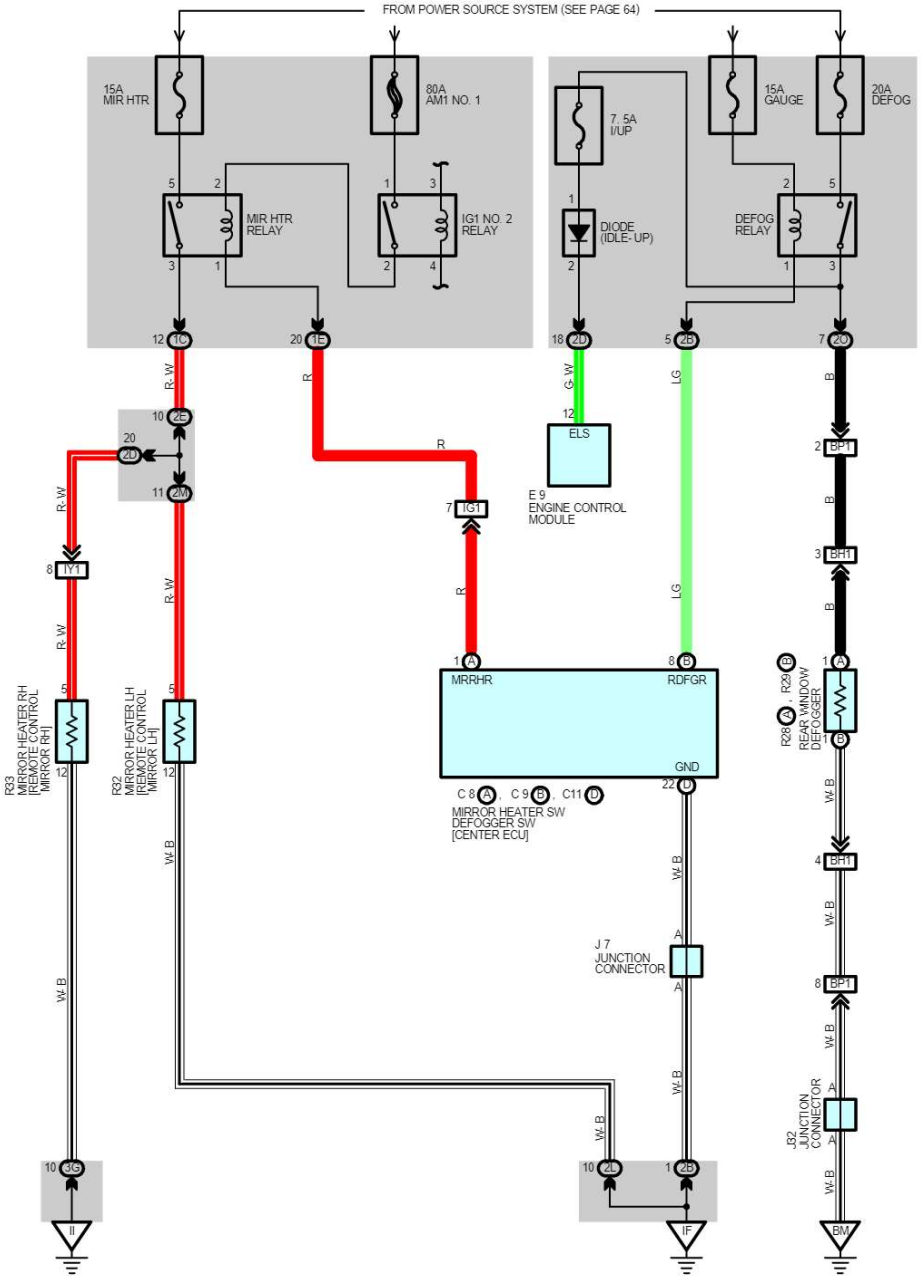
: GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
BJ	56	Under the Driver's Seat
BK	56	Front Side Under the Front Passenger's Seat

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I12	50	Console Box Wire	I13	50	Console Box Wire

REAR WINDOW DEFOGGER AND MIRROR HEATER



SERVICE HINTS

DEFOG RELAY

5-3 : Closed with ignition SW at **ON** or **ST** position and defogger SW on

MIR HTR RELAY

5-3 : Closed with ignition SW at **ON** or **ST** position and mirror heater SW on

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code	See Page
C8	A	40	J7		41	R32	43
C9	B	40	J32		42	R33	43
C11	D	40	R28	A	43		
E9		40	R29	B	43		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1E		
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2L	26	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2M		
2O	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
3G	32	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)

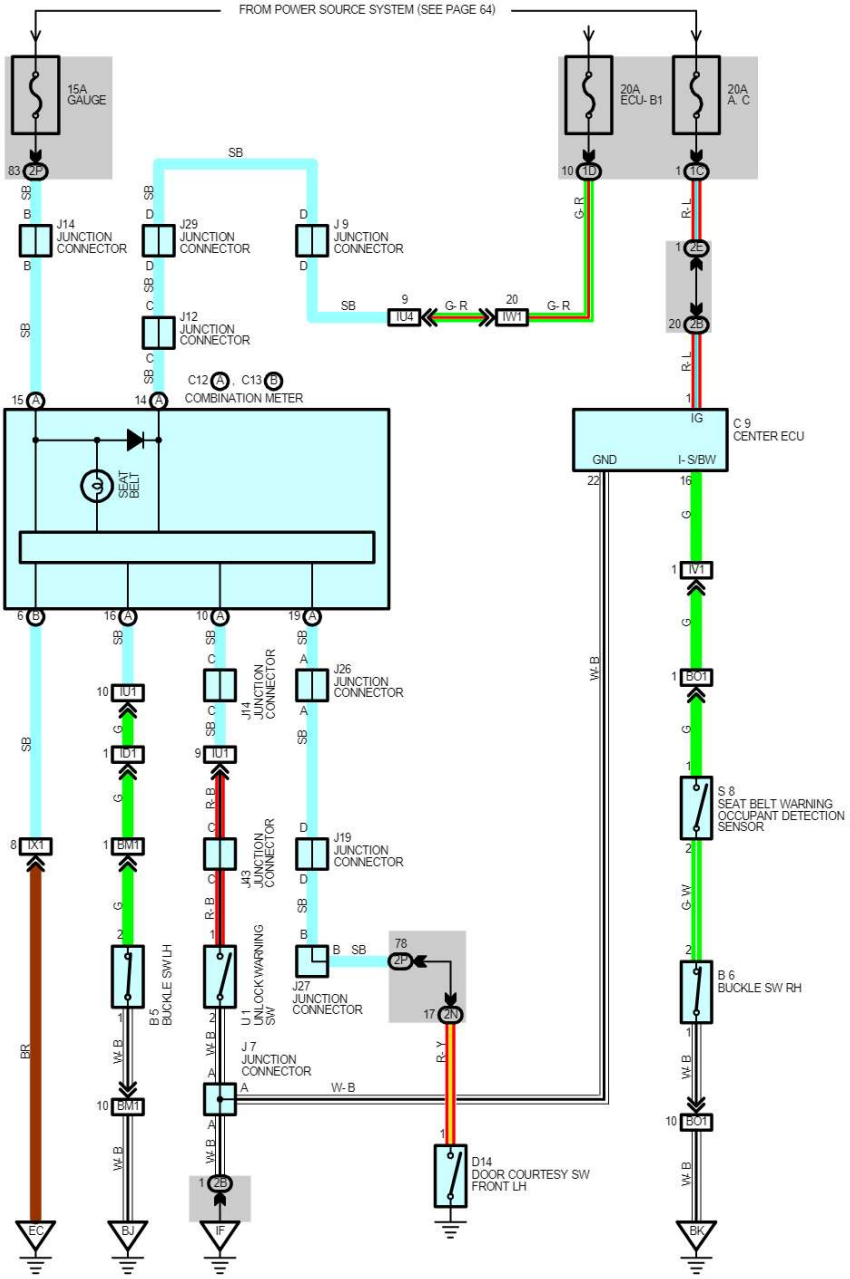
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IY1	54	Front Door RH Wire and Dash Wire (Right Kick Panel)
BH1	58	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BP1	58	Pillar No.1 Wire and Floor Wire (Left Rear Side Quarter Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
II	48	Set Bolt of Cowl Side J/B RH
BM	56	Left Rear Side Quarter Panel

KEY REMINDER AND SEAT BELT WARNING



SYSTEM OUTLINE

1. SEAT BELT WARNING SYSTEM

When the ignition SW turned on, a signal is input to the combination meter and center ECU. To determine whether the driver has fastened the seat belt, a signal is input from the buckle SW LH to the combination meter TERMINAL (A) 16. When the seat belt is not fastened, the seat belt warning light in the combination meter blinks, and emits a warning sound.
In addition, the front passenger is recognized by a sensor (Seat belt warning occupant detection sensor) is installed in the front passenger seat, and determines whether the seat belt is fastened. When not fastened, the signals from the seat belt warning occupant detection sensor and buckle SW RH is input to center ECU TERMINAL 16, and the passenger seat belt warning light blinks to warn the passenger.

2. KEY REMINDER SYSTEM

When the driver door is opened with the ignition SW off and ignition key remaining in the key cylinder (Unlock warning SW on), a signal is input from the unlock warning SW to the combination meter TERMINAL (A) 10, and from the door courtesy SW front LH to combination meter TERMINAL (A) 19. As a result, the buzzer in the combination meter goes on and warns the driver that the key is remaining in the key cylinder.

SERVICE HINTS

S8 SEAT BELT WARNING OCCUPANT DETECTION SENSOR

1-2 : Closed with passenger sit on the front passenger seat

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B5	44	J7	41	J27	41
B6	44	J9	41	J29	41
C9	40	J12	41	J43	41
C12 A	40	J14	41	S8	44
C13 B	40	J19	41	U1	41
D14	42	J26	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1D		
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

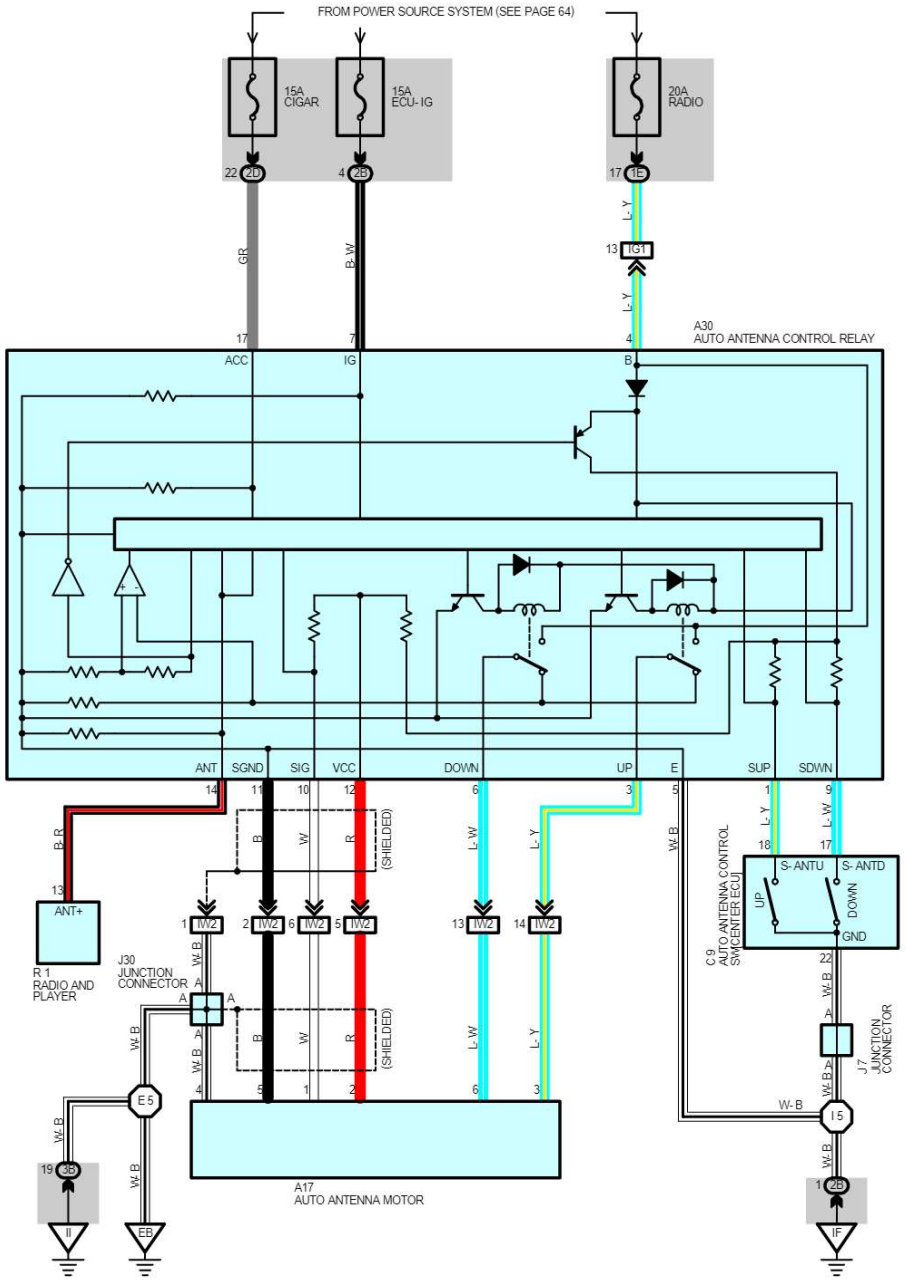
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)
IU1	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU4		
IV1	54	Dash Wire and Floor No.2 Wire (Behind the Glove Box)
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IX1	54	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
BM1	60	Floor Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BO1	60	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)

: GROUND POINTS

Code	See Page	Ground Points Location
EC	46	Rear Bank of Right Cylinder Head
IF	48	Set Bolt of Cowl Side J/B LH
BJ	56	Under the Driver's Seat
BK	56	Front Side Under the Front Passenger's Seat

AUTO ANTENNA



SERVICE HINTS

A30 AUTO ANTENNA CONTROL RELAY

4-GROUND : Always approx. **12** volts
7-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
17-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position
5-GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A17	38	C9	40	J30	41
A30	40	J7	41	R1	41

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
3B	32	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IW2	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)

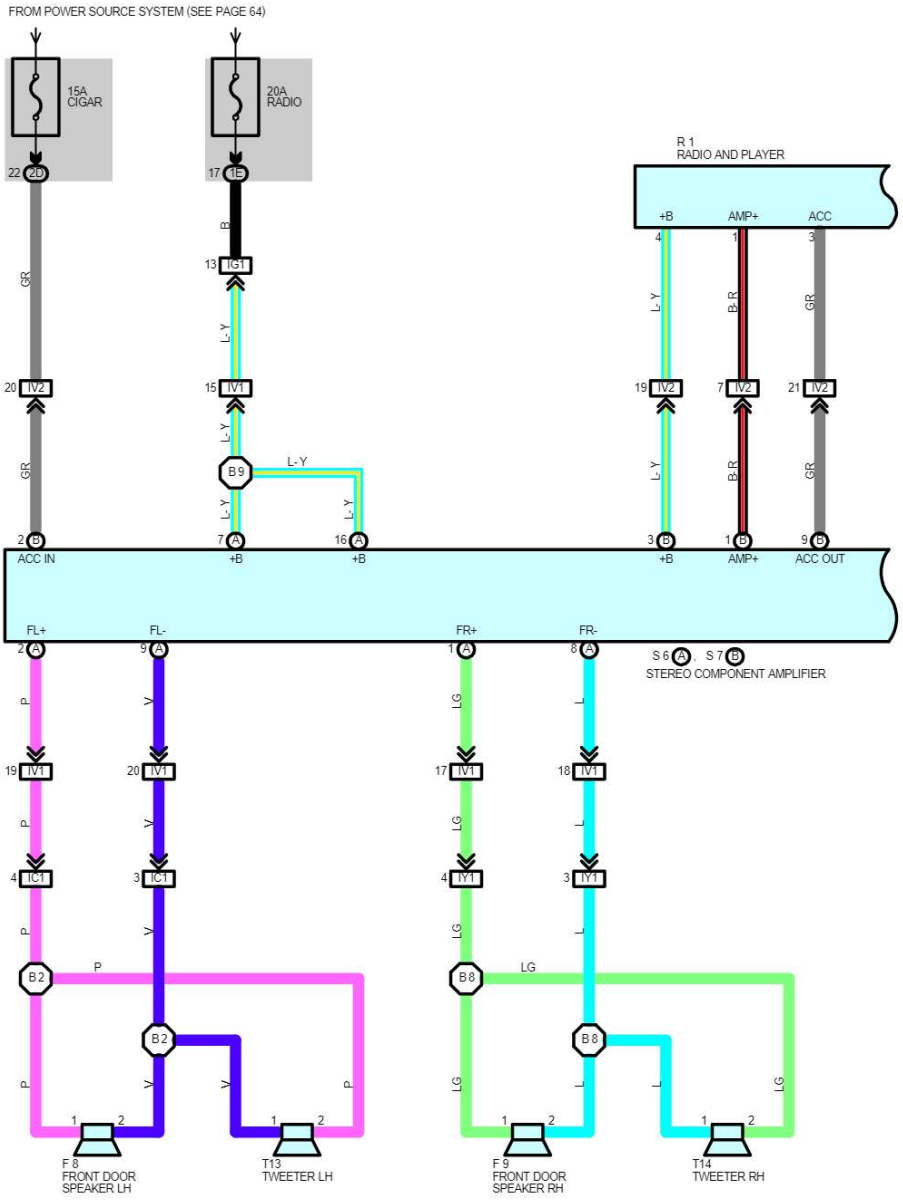
: GROUND POINTS

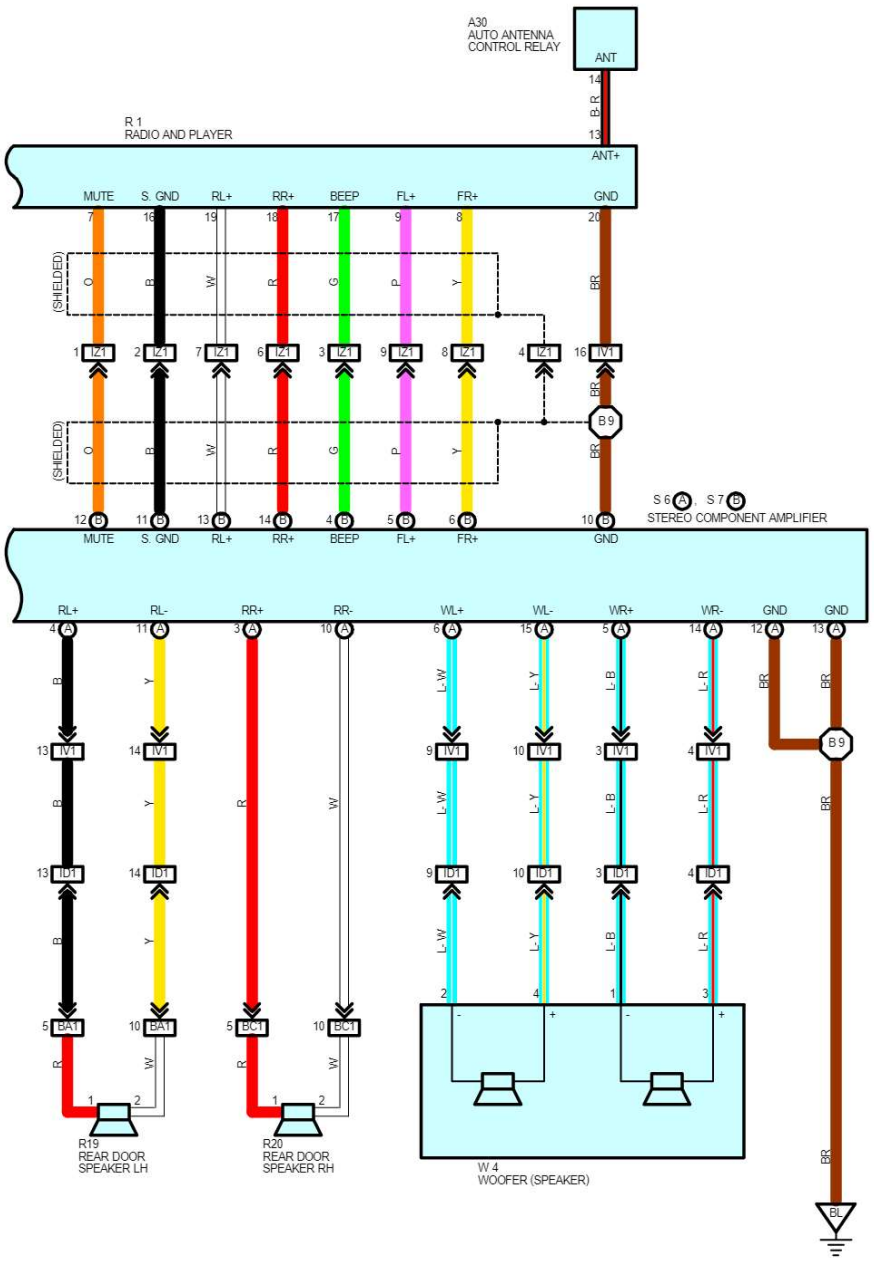
Code	See Page	Ground Points Location
EB	46	Front Right Side of Fender Apron
IF	48	Set Bolt of Cowl Side J/B LH
II	48	Set Bolt of Cowl Side J/B RH

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E5	46	Engine Room No.2 Wire	I5	50	Dash Wire

RADIO AND PLAYER




A30
AUTO ANTENNA
CONTROL RELAY
ANT
14
B-R
13
ANT+
R 1
RADIO AND PLAYER
MUTE
S. GND
RL+
RR+
BEEP
FL+
FR+
GND
(SHIELDED)
O
B
W
R
G
P
Y
BR
IZ1
IV1
B 9
S 6 A , S 7 B
STEREO COMPONENT AMPLIFIER
RL+
RL-
RR+
RR-
WL+
WL-
WR+
WR-
GND
GND
L-W
L-Y
L-B
L-R
ID1
BAT
BC1
R19
REAR DOOR
SPEAKER LH
R20
REAR DOOR
SPEAKER RH
W 4
WOOFER (SPEAKER)
BL

RADIO AND PLAYER

SERVICE HINTS

R1 RADIO AND PLAYER

20-GROUND : Always continuity

S6 (A), S7 (B) STEREO COMPONENT AMPLIFIER

(B) 2-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position
(A) 7, (A) 16-GROUND : Always approx. **12** volts
(A) 12, (A) 13-GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code		See Page	Code	See Page
A30	40	R19		43	T13	43
F8	42	R20		43	T14	43
F9	42	S6	A	43	W4	43
R1	41	S7	B	43		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2D	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	48	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IV1	54	Dash Wire and Floor No.2 Wire (Behind the Glove Box)
IV2		
IY1	54	Front Door RH Wire and Dash Wire (Right Kick Panel)
IZ1	54	Floor No.2 Wire and Dash Wire (Right Side of Rear Console)
BA1	56	Rear Door LH Wire and Floor Wire (Left Side of Center Pillar)
BC1	56	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)

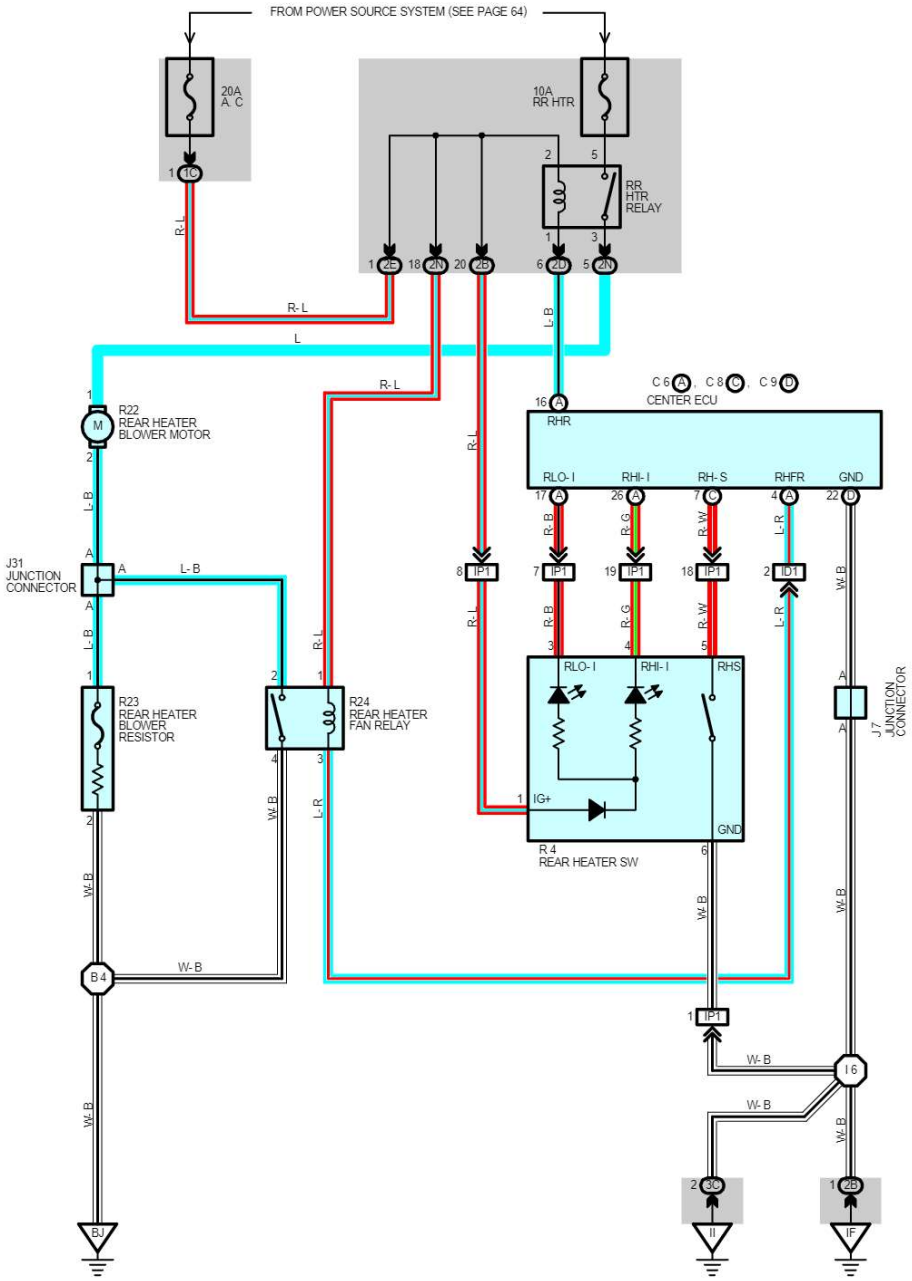
: GROUND POINTS

Code	See Page	Ground Points Location
BL	56	Rear Side Under the Front Passenger's Seat

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	58	Front Door LH Wire	B9	58	Floor No.2 Wire
B8	58	Front Door RH Wire			

REAR HEATER (w/o REAR AIR CONDITIONING)



SERVICE HINTS

RR HTR RELAY

5-3 : Closed with the ignition SW at **ON** position and the rear heater SW on

R4 REAR HEATER SW

1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
5-6 : Continuity with rear heater SW at **LO** or **HI** position
6-GROUND : Always continuity

: PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
C6	A	40	J7	41	R22	43
C8	C	40	J31	42	R23	43
C9	D	40	R4	41	R24	43

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
3C	32	Dash Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)
IP1	52	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)

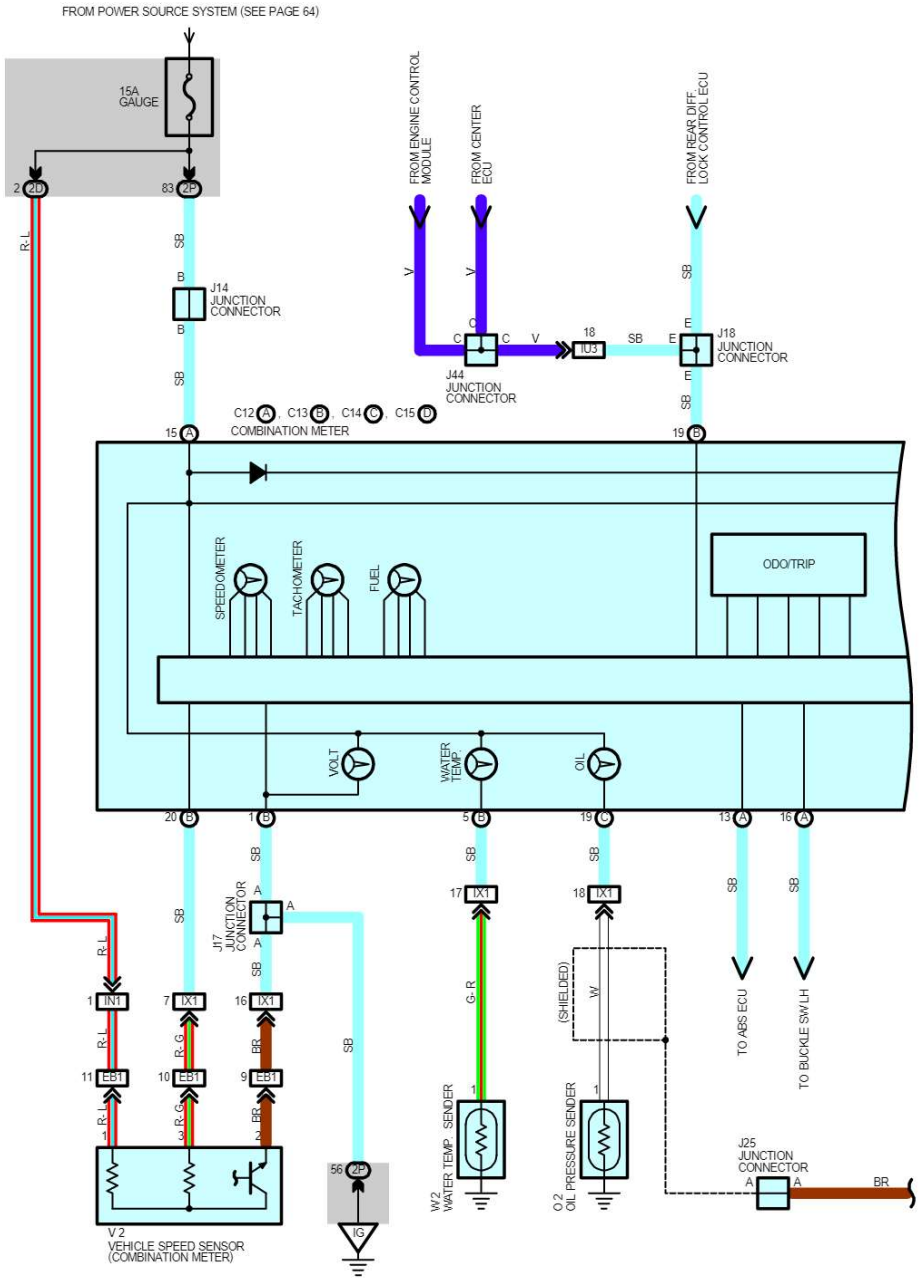
: GROUND POINTS

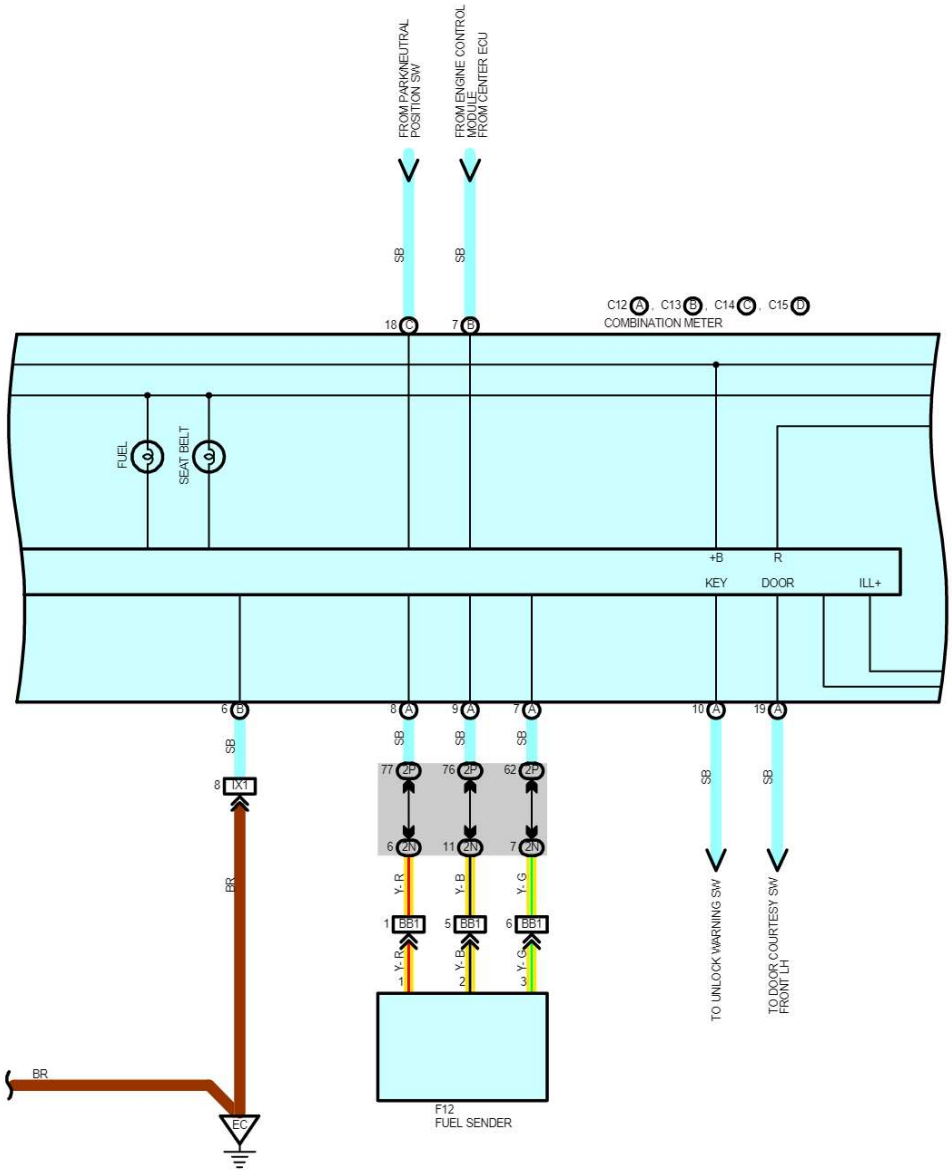
Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
II	48	Set Bolt of Cowl Side J/B RH
BJ	56	Under the Driver's Seat

: SPLICE POINTS

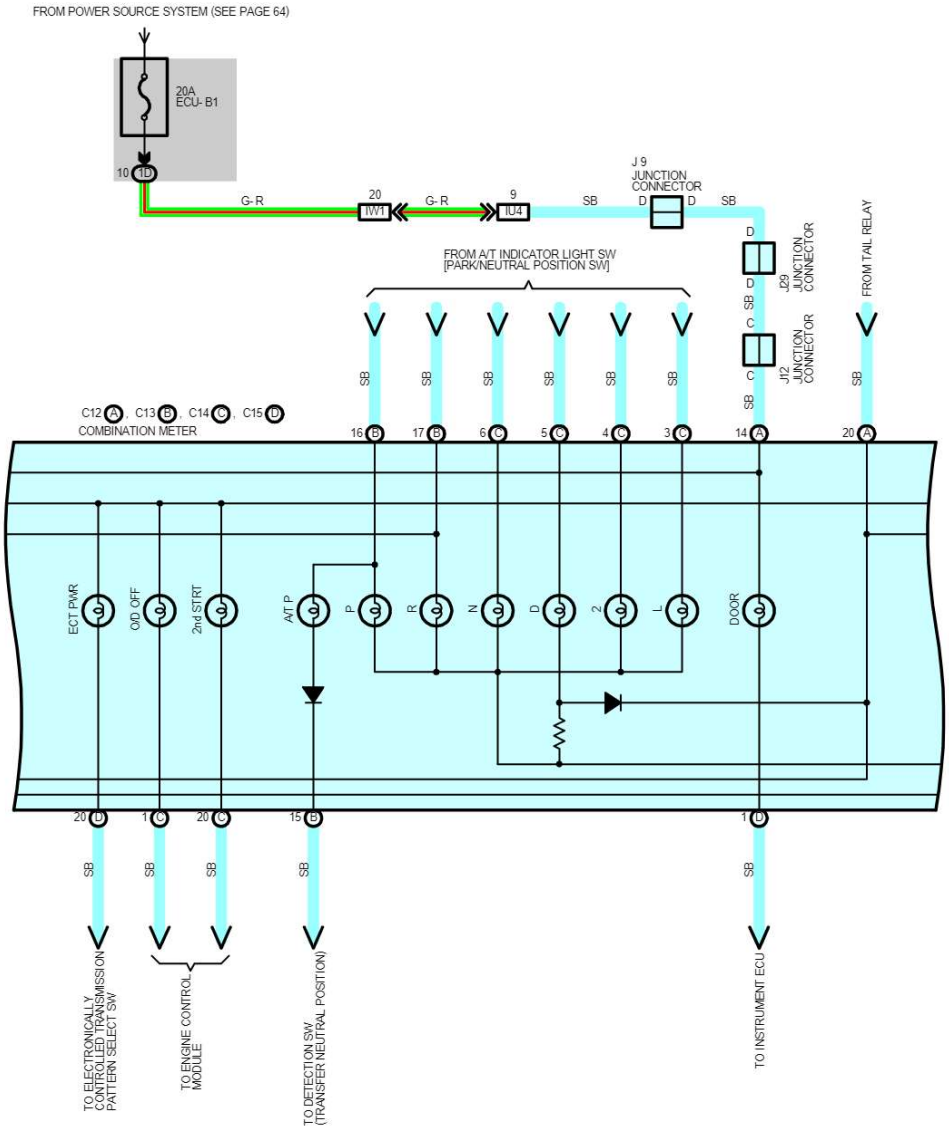
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I6	50	Dash Wire	B4	58	Floor Wire

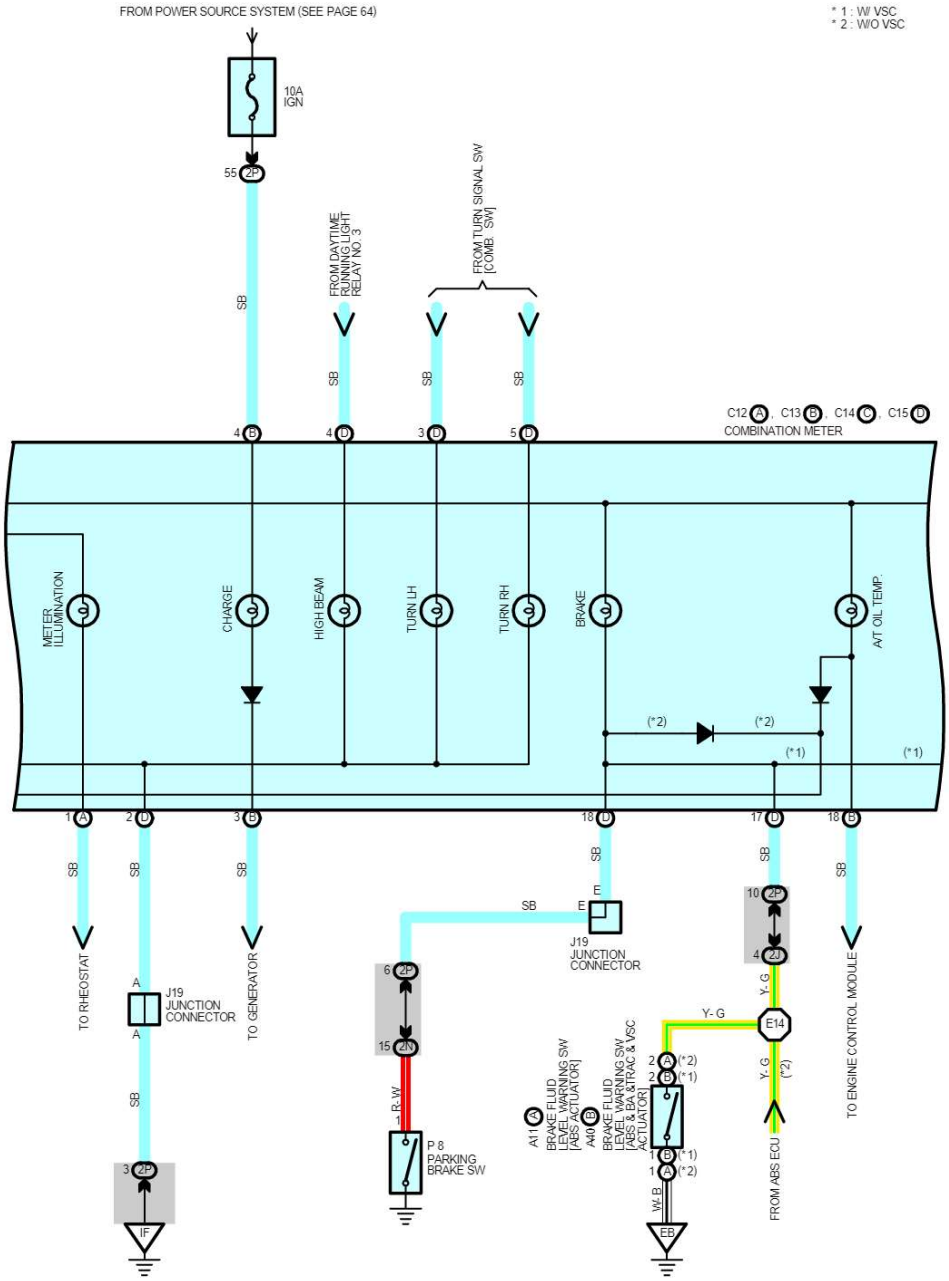
COMBINATION METER



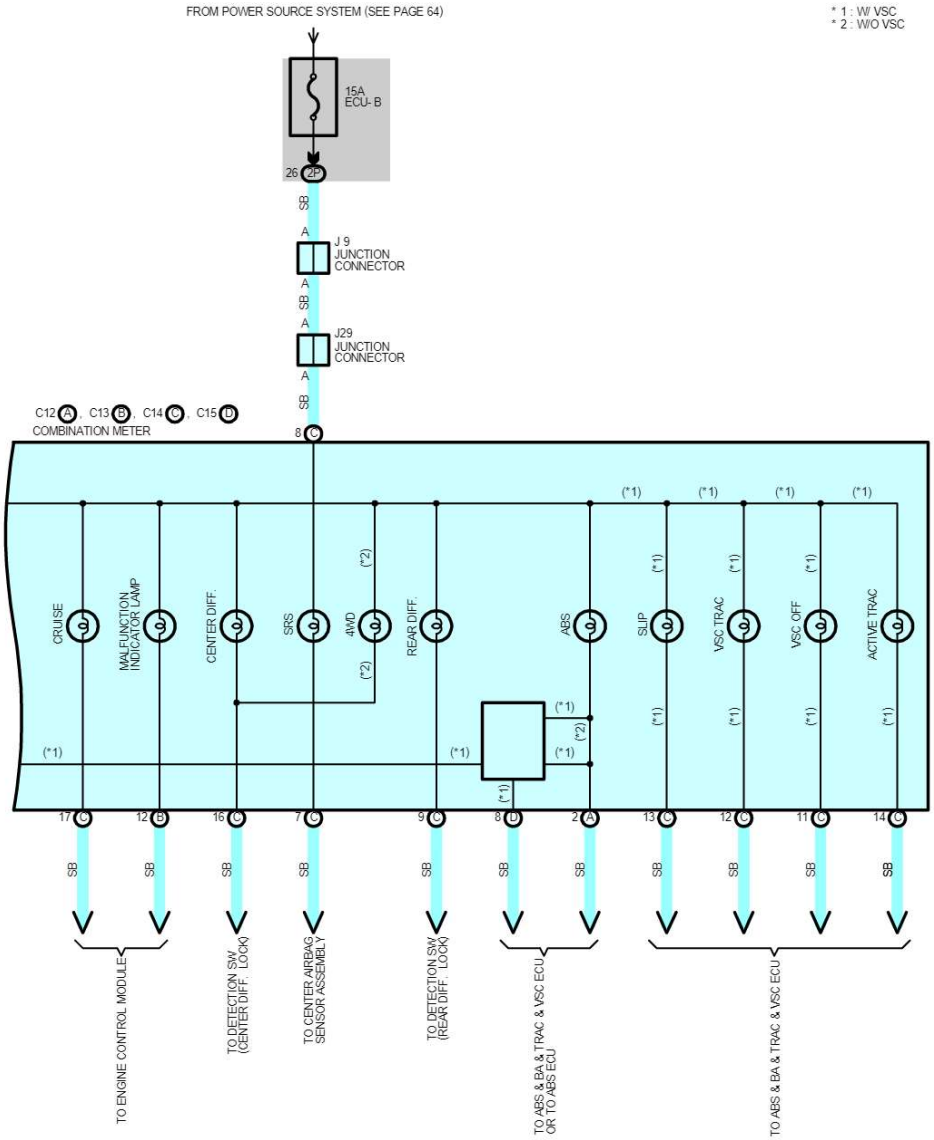

FROM PARK/NEUTRAL POSITION SW
FROM ENGINE CONTROL MODULE
FROM CENTER ECU
SB
SB
18 C
7 B
C12 A , C13 B , C14 C , C15 D
COMBINATION METER
FUEL
SEAT BELT
+B
KEY
R
DOOR
ILL+
6 B
8 A
9 A
7 A
10 A
19 A
SB
SB
SB
SB
SB
8 1X1
77 2P
76 2P
62 2P
6 2N
11 2N
7 2N
BR
Y-R
Y-B
Y-G
1 BB1
5 BB1
6 BB1
Y-R
Y-B
Y-G
1
2
3
TO UNLOCK WARNING SW
TO DOOR COURTESY SW FRONT LH
BR
EC
F12
FUEL SENDER

COMBINATION METER




FROM POWER SOURCE SYSTEM (SEE PAGE 64)
* 1 : W/ VSC
* 2 : W/O VSC
10A
IGN
55 2P
SB
FROM DAYTIME RUNNING LIGHT RELAY NO. 3
FROM TURN SIGNAL SW [COMB. SW]
C12 A , C13 B , C14 C , C15 D
COMBINATION METER
4 B
4 D
3 D
5 D
METER ILLUMINATION
CHARGE
HIGH BEAM
TURN LH
TURN RH
BRAKE
A/T OIL TEMP.
(*2)
(*1)
1 A
2 D
3 B
18 D
17 D
18 B
TO RHEOSTAT
J19 JUNCTION CONNECTOR
TO GENERATOR
E
10 2P
4 2N
Y-G
E14
TO ENGINE CONTROL MODULE
6 2P
15 2N
R-W
P 8 PARKING BRAKE SW
A11 A
BRAKE FLUID LEVEL WARNING SW [ABS ACTUATOR]
A40 B
BRAKE FLUID LEVEL WARNING SW [ABS & BA &TRAC & VSC ACTUATOR]
2 A (*2)
2 B (*1)
1 B (*1)
1 A (*2)
W-B
EB
FROM ABS ECU
3 2P
IF

COMBINATION METER



SERVICE HINTS

A11 BRAKE FLUID LEVEL WARNING SW [ABS ACTUATOR]

1-2 : Closed with float down

P8 PARKING BRAKE SW

1-GROUND : Closed with parking brake lever pulled up

C12 (A), C13 (B), C14 (C), C15 (D) COMBINATION METER

(A) 14, (C) 8-GROUND : Always approx. **12** volts
(A) 15, (B) 4-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
(B) 1, (B) 6, (D) 2-GROUND : Always continuity

W2 WATER TEMP. SENDER

1-GROUND : Approx. **160- 240** Ω (**50**°C, **122**°F)
: Approx. **17.1- 21.2** Ω (**120**°C, **248**°F)

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
A11	A	38	J9	41	J29	41
A40	B	40	J12	41	J44	41
C12	A	40	J14	41	O2	39
C13	B	40	J17	41	P8	43
C14	C	40	J18	41	V2	39
C15	D	40	J19	41	W2	39
F12		42	J25	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2D	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2J	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	46	Engine Wire and Transmission Wire (On the Transmission)
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
IU3	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU4		
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IX1	54	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
BB1	56	Floor Wire and Fuel Tank Wire (Near the Fuel Tank)

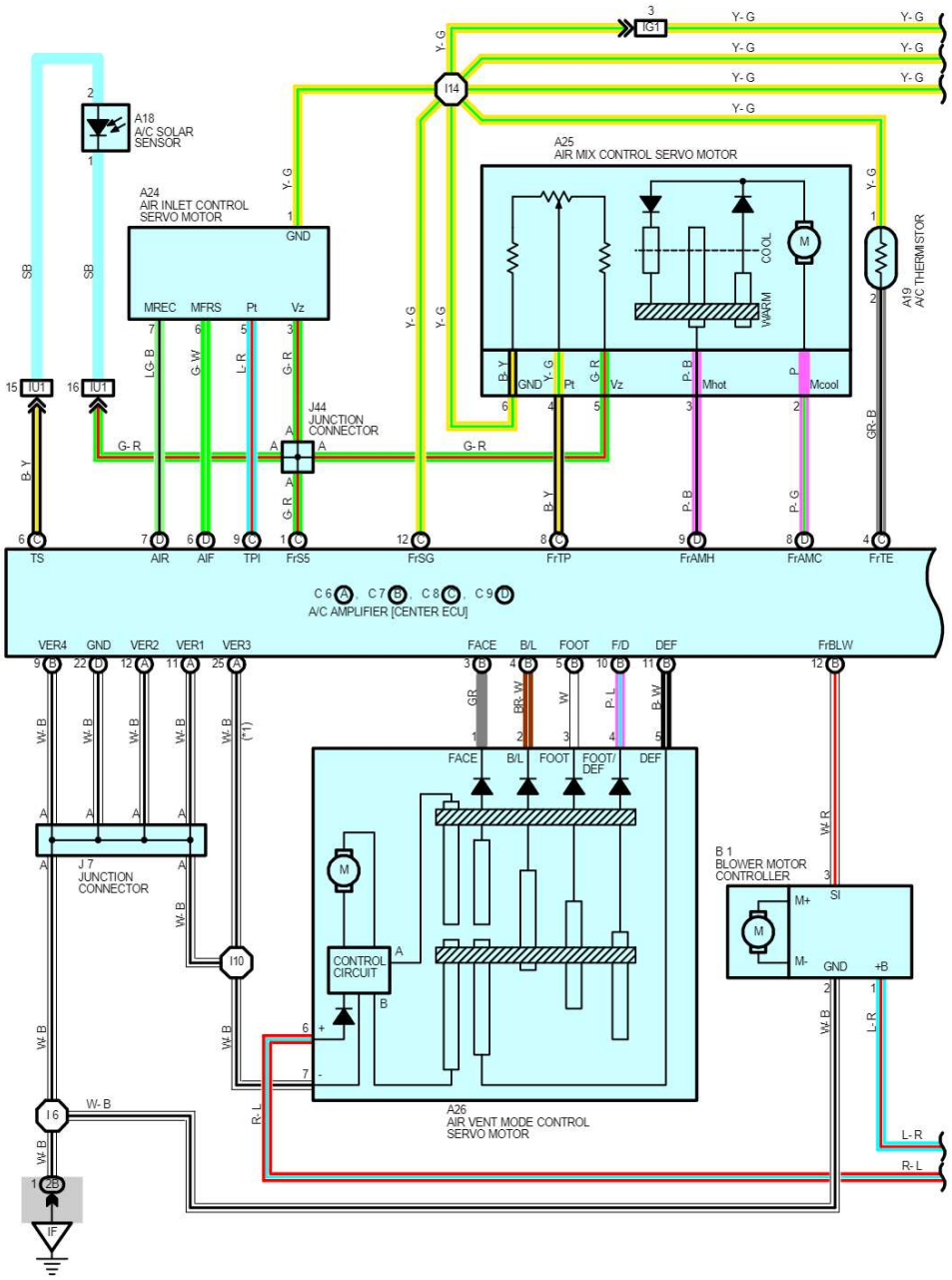
▽ : GROUND POINTS

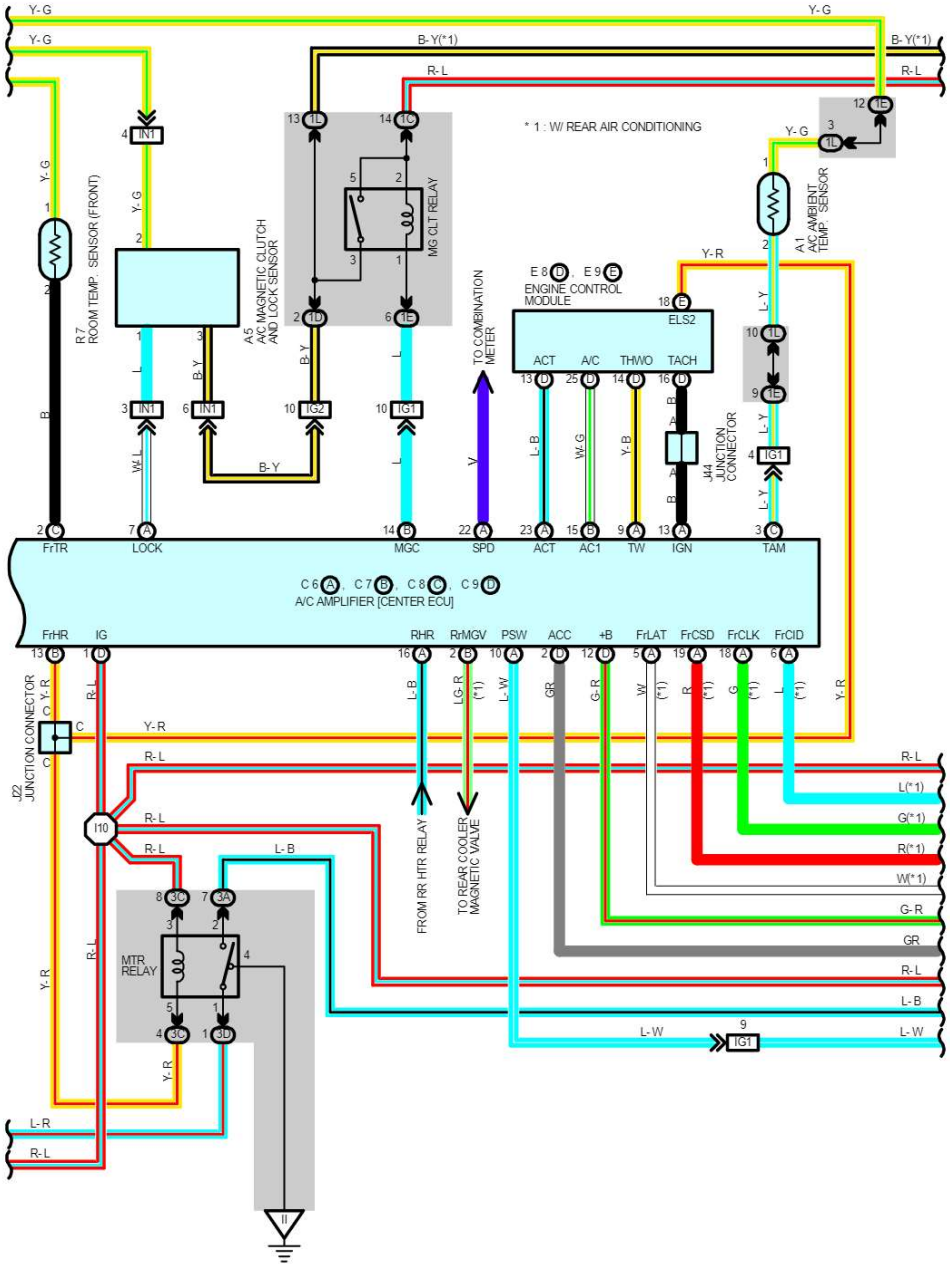
Code	See Page	Ground Points Location
EB	46	Front Right Side of Fender Apron
EC	46	Rear Bank of Right Cylinder Head
IF	48	Set Bolt of Cowl Side J/B LH
IG		

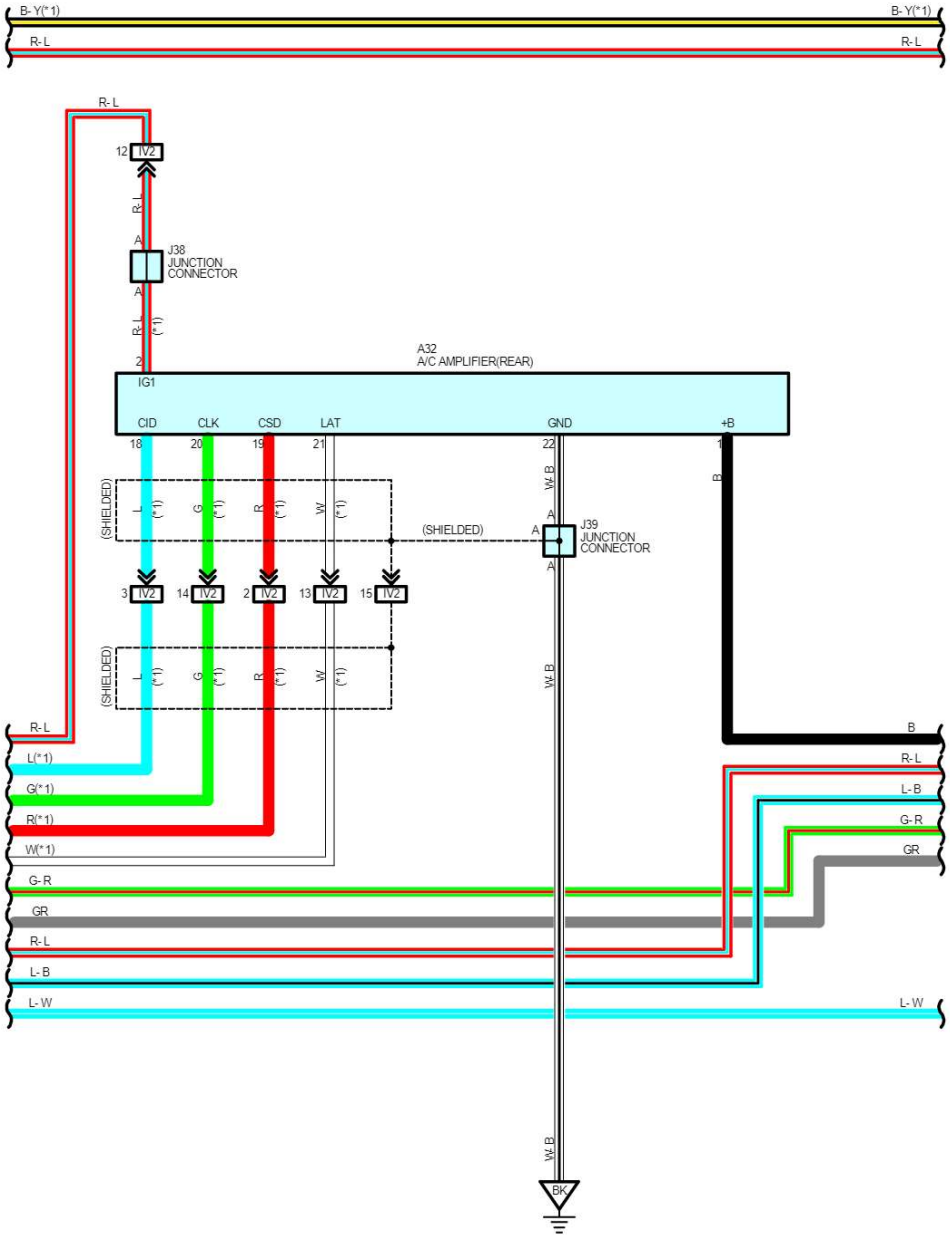
: SPLICE POINTS

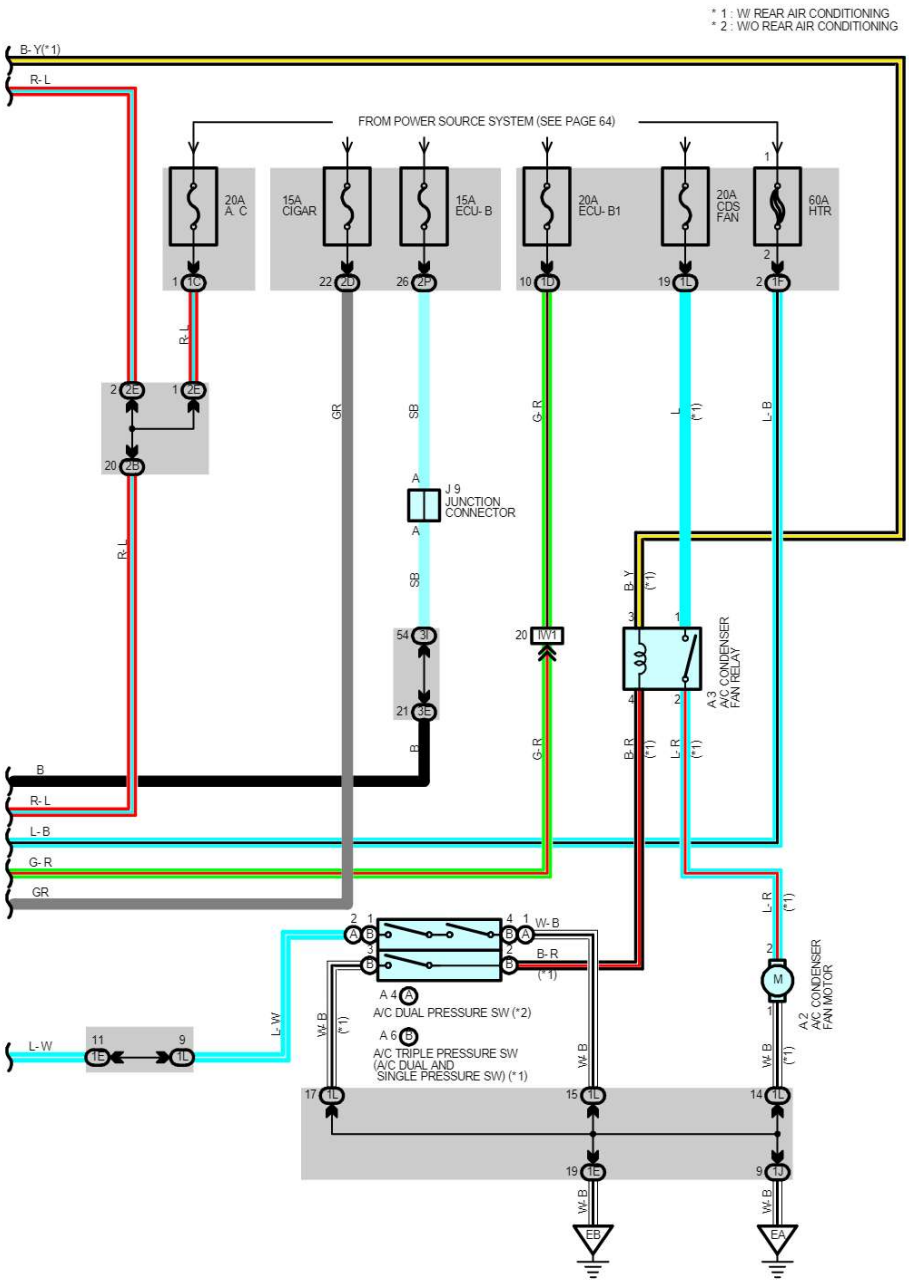
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E14	46	Engine Room No.2 Wire			

CONDENSER FAN AND FRONT AIR CONDITIONING




* 1 : W/ REAR AIR CONDITIONING
R7 ROOM TEMP. SENSOR (FRONT)
A5 A/C MAGNETIC CLUTCH AND LOCK SENSOR
MG CLT RELAY
TO COMBINATION METER
ENGINE CONTROL MODULE
ELS2
ACT A/C THW0 TACH
A1 A/C AMBIENT TEMP. SENSOR
J44 JUNCTION CONNECTOR
C 6 , C 7 , C 8 , C 9
A/C AMPLIFIER [CENTER ECU]
FrHR IG RHR RrMGV PSW ACC +B FrLAT FrCSD FrCLK FrCID
FrTR LOCK MGC SPD ACT AC1 TW IGN TAM
J22 JUNCTION CONNECTOR
MTR RELAY
FROM RR HTR RELAY
TO REAR COOLER MAGNETIC VALVE


B- Y(*1)
R- L
B- Y(*1)
R- L
R- L
12
IV2
R- L
A
J38
JUNCTION
CONNECTOR
A
R- L
(*1)
2
A32
A/C AMPLIFIER(REAR)
IG1
CID
CLK
CSD
LAT
GND
+B
18
20
19
21
22
1
W- B
B
(SHIELDED)
L
(*1)
G
(*1)
R
(*1)
W
(*1)
(SHIELDED)
A
J39
JUNCTION
CONNECTOR
A
3
IV2
14
IV2
2
IV2
13
IV2
15
IV2
(SHIELDED)
L
(*1)
G
(*1)
R
(*1)
W
(*1)
W- B
R- L
L(*1)
G(*1)
R(*1)
W(*1)
G- R
GR
R- L
L- B
L- W
B
R- L
L- B
G- R
GR
L- W
W- B
BK


* 1 : W/ REAR AIR CONDITIONING
* 2 : W/O REAR AIR CONDITIONING
B- Y(*1)
R- L
FROM POWER SOURCE SYSTEM (SEE PAGE 64)
20A A/C
15A CIGAR
15A ECU- B
20A ECU- B1
20A CDS FAN
60A HTR
J 9 JUNCTION CONNECTOR
A3 A/C CONDENSER FAN RELAY
A2 A/C CONDENSER FAN MOTOR
A 4 A/C DUAL PRESSURE SW (*2)
A 6 A/C TRIPLE PRESSURE SW (A/C DUAL AND SINGLE PRESSURE SW) (*1)
W- B
B- R (*1)
L- R (*1)
L- W
W- B (*1)
G- R
GR
SB
L (*1)
L- B
B
EB
EA

CONDENSER FAN AND FRONT AIR CONDITIONING

SYSTEM OUTLINE

1. HEATER BLOWER OPERATION

Manual operation

When the blower speed is set ant any speed by the blower control SW, the center ECU sends a signal to the blower motor controller, and controls the blower motor speed.

Auto operation

When the auto SW is operated, the center ECU sends signals to the blower motor controller, according to the signals from respective sensors, commands from the temperature SW etc., and controls the blower motor automatically.

2. AIR INLET CONTROL SERVO MOTOR CONTROL

When the FRESH/RECIRC select SW is switched to RECIRC, the motor in the air inlet control servo motor rotates to move the damper to the RECIRC side. The damper position is recognized by the A/C amplifier [Center ECU] TERMINAL TPI, and rotates the motor until the damper reaches its position.

When the FRESH/RECIRC select SW is switched to FRESH, the motor in the air inlet control servo motor rotates to move the damper to the FRESH side. The damper position is recognized by the A/C amplifier [Center ECU] TERMINAL TPI, and rotates the motor until the damper reaches its position.

3. AIR VENT MODE CONTROL SERVO MOTOR

When the mode select SW in the center ECU is pushed, a signal is sent from the center ECU, and activates the air vent mode control servo motor. This causes the servo motor to rotate to the position selected using the mode select SW (FACE, BI-LEVEL, FOOT, FOOT/DEF, DEF), and moves the damper.

4. AIR MIX CONTROL SERVO MOTOR

When the temperature control SW in the center ECU is pushed, a signal is sent from the center ECU, and activates the air mix control servo motor. The motor and damper is moved until it reaches the temperature set by the temperature control SW.

5. AIR CONDITIONING OPERATION

The center ECU receives various signals, i. e., the engine RPM from the crankshaft position sensor, outlet temperature from the A/C ambient temp. sensor, coolant temperature from the engine coolant temp. sensor, and the lock signal from the A/C compressor, etc. When the engine is started and the A/C SW is turned on, a signal is sent to the center ECU. As a result, the A/C magnetic clutch is turned on and operates the compressor.

In addition, when the engine control module detects that the A/C magnetic clutch is on and the A/C compressor is operating, it controls the engine in the direction to avoid lowering the engine RPM during A/C operation.

When any of the following signals are sent to the center ECU, the A/C is turned off.

- Coolant temp. is high.
- Outlet air temp. is low.
- Large difference between the engine speed and compressor speed.
- The refrigerant pressure is abnormally high or low.

6. CONDENSER FAN MOTOR OPERATION (w/ REAR AIR CONDITIONING)

When the A/C is operating and the A/C single pressure SW is on, the current flows from the A.C fuse to MG CLT relay TERMINAL 5 to TERMINAL 3 to A/C condenser fan relay TERMINAL 3 to TERMINAL 4 to A/C single pressure SW TERMINAL 2 to TERMINAL 3 to GROUND, and turns on the A/C condenser fan relay. As a result, the current flows from the CDS FAN fuse to A/C condenser fan relay TERMINAL 1 to TERMINAL 2 to A/C condenser fan motor TERMINAL 2 to TERMINAL 1 to GROUND, and operates the A/C condenser fan motor.

SERVICE HINTS

C6 (A), C7 (B), C9 (D) A/C AMPLIFIER [CENTER ECU]

ACC-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position
+B-GROUND : Always approx. **12** volts
AIF-GROUND : Approx. **12** volts with FRESH select SW on
AIR-GROUND : Approx. **12** volts with RECIRC select SW on
VER1, VER2, VER3, VER4, GND-GROUND: Always continuity

A4 (A) A/C DUAL PRESSURE SW

(A) 2-(A) 1 : Open with the refrigerant pressure at less than approx. **2.0** kgf/cm^2 (**196.1** kpa, **28.4** psi) or more than approx. **32.0** kgf/cm^2 (**3138.1** kpa, **455** psi)

A6 (B) A/C TRIPLE PRESSURE SW (A/C DUAL AND SINGLE PRESSURE SW)

(B) 1-(B) 4 : Open with the refrigerant pressure at less than approx. **2.0** kgf/cm^2 (**196.1** kpa, **28.4** psi) or more than approx. **32.0** kgf/cm^2 (**3138.1** kpa, **455** psi)
(B) 2-(B) 3 : Open below approx. **12.5** kgf/cm^2 (**1225** kpa, **178** psi)
: Closed above approx. **15.5** kgf/cm^2 (**1520** kpa, **220** psi)

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A1	38	A25	40	E9 E	40
A2	38	A26	40	J7	41
A3	38	A32	42	J9	41
A4 A	38	B1	40	J22	41
A5	38	C6 A	40	J38	42
A6 B	38	C7 B	40	J39	42
A18	40	C8 C	40	J44	41
A19	40	C9 D	40	R7	41
A24	40	E8 D	40		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1D		
1E		
1F		
1J	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1L		
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3A	32	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3C	32	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3D		
3E	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

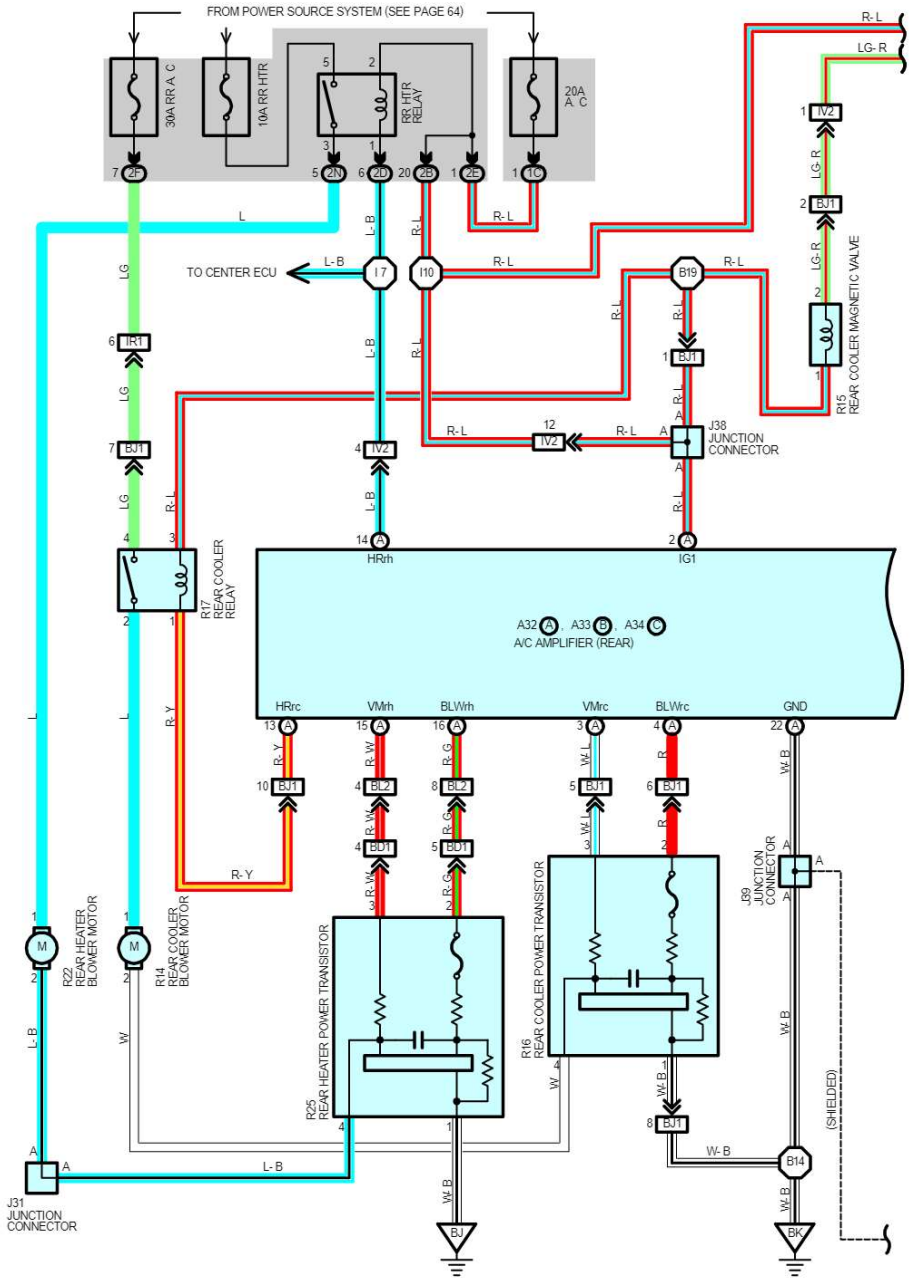
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG2		
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
IU1	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IV2	54	Dash Wire and Floor No.2 Wire (Behind the Glove Box)
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)

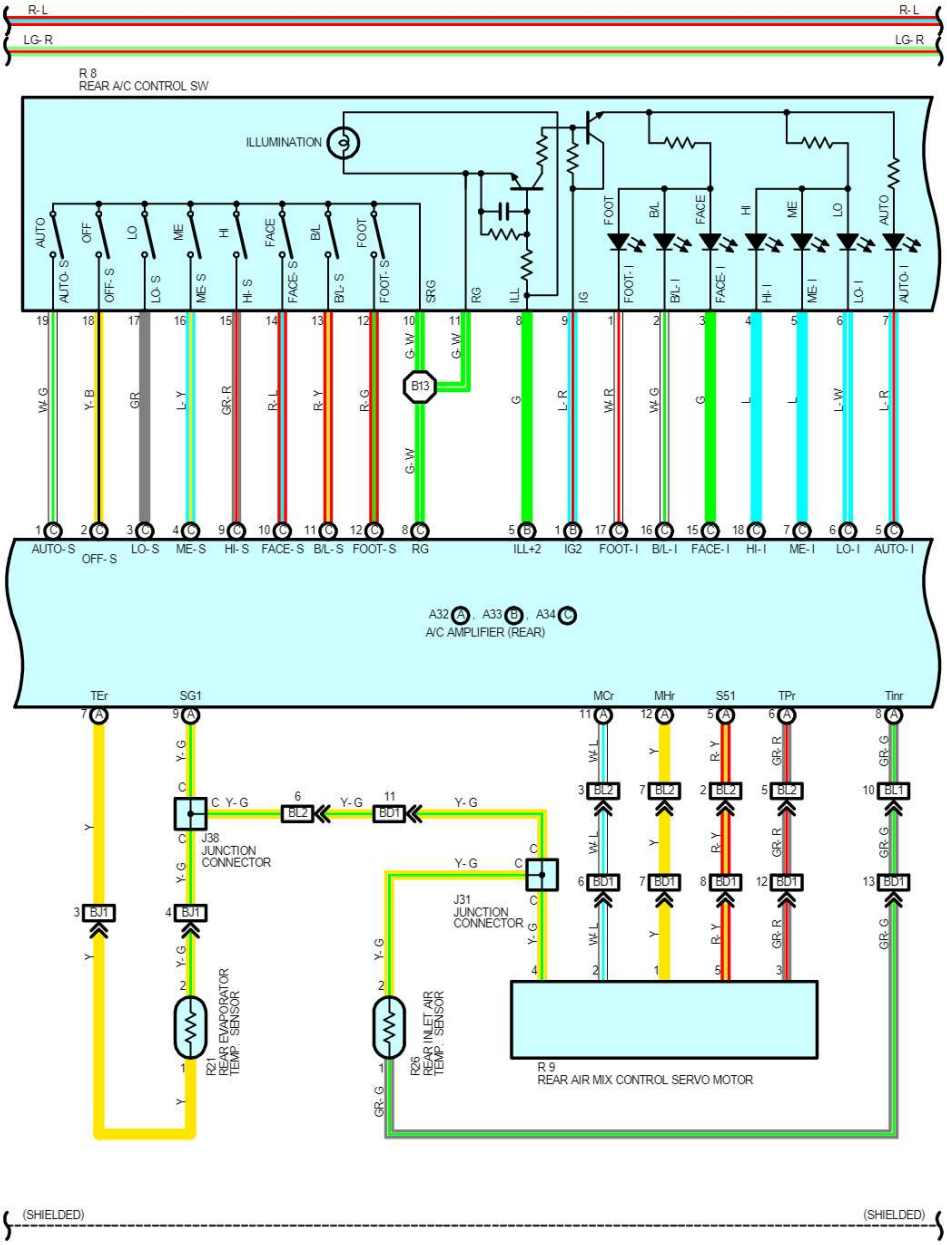
: GROUND POINTS

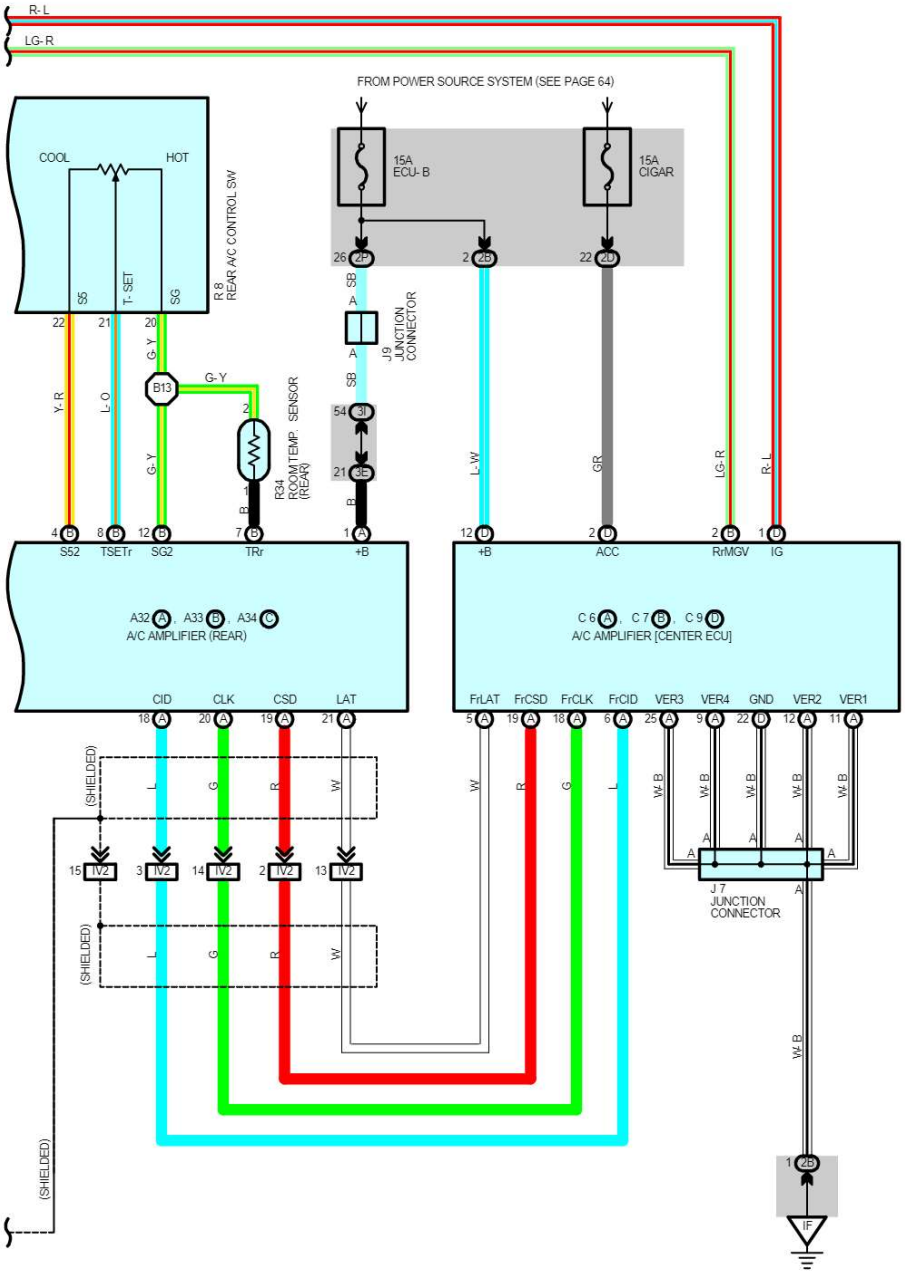
Code	See Page	Ground Points Location
EA	46	Front Right Side of Fender Apron
EB		
IF	48	Set Bolt of Cowl Side J/B LH
II	48	Set Bolt of Cowl Side J/B RH
BK	56	Front Side Under the Front Passenger's Seat

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I6	50	Dash Wire	I14	50	Dash Wire
I10					


FROM POWER SOURCE SYSTEM (SEE PAGE 64)
30A RR A/C
10A RR HTR
RR HTR RELAY
20A A/C
TO CENTER ECU
R-L
LG-R
LG
L
L-B
W
W-B
R-Y
R-W
R-G
W-L
R
IV2
BJ1
I7
I10
B19
IRT
BJ1
IV2
BJ1
R15
REAR COOLER MAGNETIC VALVE
J38
JUNCTION
CONNECTOR
R17
REAR COOLER
RELAY
HRth
IG1
A32 A, A33 B, A34 C
A/C AMPLIFIER (REAR)
HRrc
VMrh
BLWrh
VMrc
BLWrc
GND
BJ1
BL2
BD1
R22
REAR HEATER
BLOWER MOTOR
R14
REAR COOLER
BLOWER MOTOR
R25
REAR HEATER POWER TRANSISTOR
R16
REAR COOLER POWER TRANSISTOR
J9
JUNCTION
CONNECTOR
B14
BJ
BK
(SHIELDED)
J31
JUNCTION
CONNECTOR


R-L
LG-R
R-L
LG-R
R 8
REAR A/C CONTROL SW
ILLUMINATION
AUTO
OFF
LO
ME
HI
FACE
B/L
FOOT
AUTO-S
OFF-S
LO-S
ME-S
HI-S
FACE-S
B/L-S
FOOT-S
SRG
RG
ILL
IG
FOOT-I
B/L-I
FACE-I
HI-I
ME-I
LO-I
AUTO-I
B13
AUTO-S
OFF-S
LO-S
ME-S
HI-S
FACE-S
B/L-S
FOOT-S
RG
ILL+2
IG2
FOOT-I
B/L-I
FACE-I
HI-I
ME-I
LO-I
AUTO-I
A32 A, A33 B, A34 C
A/C AMPLIFIER (REAR)
TEr
SG1
MCr
MHr
S51
TPr
Tlnr
J38
JUNCTION
CONNECTOR
J31
JUNCTION
CONNECTOR
R21
REAR EVAPORATOR
TEMP. SENSOR
R26
REAR INLET AIR
TEMP. SENSOR
R 9
REAR AIR MIX CONTROL SERVO MOTOR
(SHIELDED)
(SHIELDED)


R- L
LG- R
FROM POWER SOURCE SYSTEM (SEE PAGE 64)
COOL
HOT
S5
T- SET
SG
R 8
REAR A/C CONTROL SW
15A
ECU- B
15A
CIGAR
26 2P
2 2B
22 2D
SB
A
J9
JUNCTION
CONNECTOR
22
21
20
G- Y
Y- R
L- O
G- Y
B13
G- Y
Z
R34
ROOM TEMP. SENSOR
(REAR)
54 3I
21 3E
L- W
GR
LG- R
R- L
4 B
S52
8 B
TSETr
12 B
SG2
7 B
TRr
1 A
+B
12 D
+B
2 D
ACC
2 B
RrMGV
1 D
IG
A32 A, A33 B, A34 C
A/C AMPLIFIER (REAR)
C 6 A, C 7 B, C 9 D
A/C AMPLIFIER [CENTER ECU]
CID
CLK
CSD
LAT
FrLAT
FrCSD
FrCLK
FrCID
VER3
VER4
GND
VER2
VER1
18 A
20 A
19 A
21 A
5 A
19 A
18 A
6 A
25 A
9 A
22 D
12 A
11 A
(SHIELDED)
L
G
R
W
W
R
G
L
W- B
W- B
W- B
W- B
W- B
A
A
A
A
A
J 7
JUNCTION
CONNECTOR
A
15 IV2
3 IV2
14 IV2
2 IV2
13 IV2
(SHIELDED)
L
G
R
W
W- B
1 2B
IF
(SHIELDED)

SYSTEM OUTLINE

1. COOLER AND HEATER BLOWER OPERATION

* Manual operation
  When the blower control SW in the rear A/C control SW is set to any blower speed, a signal is sent to the A/C amplifier (Rear). The A/C amplifier (Rear) controls the power transistor and operates the rear cooler blower motor and rear heater blower motor at the set speed.
* Auto operation
  When the auto SW in the rear A/C control SW is operated, a signal is sent to the A/C amplifier (Rear). The A/C amplifier (Rear) controls the power transistor according to the signals from respective sensors, and operates the rear cooler blower motor and rear heater blower motor.

2. AIR MIX CONTROL SERVO MOTOR CONTROL

When the temperature control lever in the rear A/C control SW is operated, a signal is sent to the A/C amplifier (Rear). The A/C amplifier (Rear) controls the rear air mix control servo motor to operate the damper until it reaches the temperature set by the temperature control lever.

3. AIR CONDITIONING OPERATION

The cooler and heater operation can be switched by the mode select SW in the rear A/C control SW.

SERVICE HINTS

A32 A/C AMPLIFIER (REAR)

+B-GROUND : Always approx. **12** volts
IG1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
GND-GROUND : Always continuity

○ : PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
A32	A	42	J31	42	R17	43
A33	B	42	J38	42	R21	43
A34	C	42	J39	42	R22	43
C6	A	40	R8	43	R25	43
C7	B	40	R9	43	R26	43
C9	D	40	R14	43	R34	43
J7		41	R15	43		
J9		41	R16	43		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2F		
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

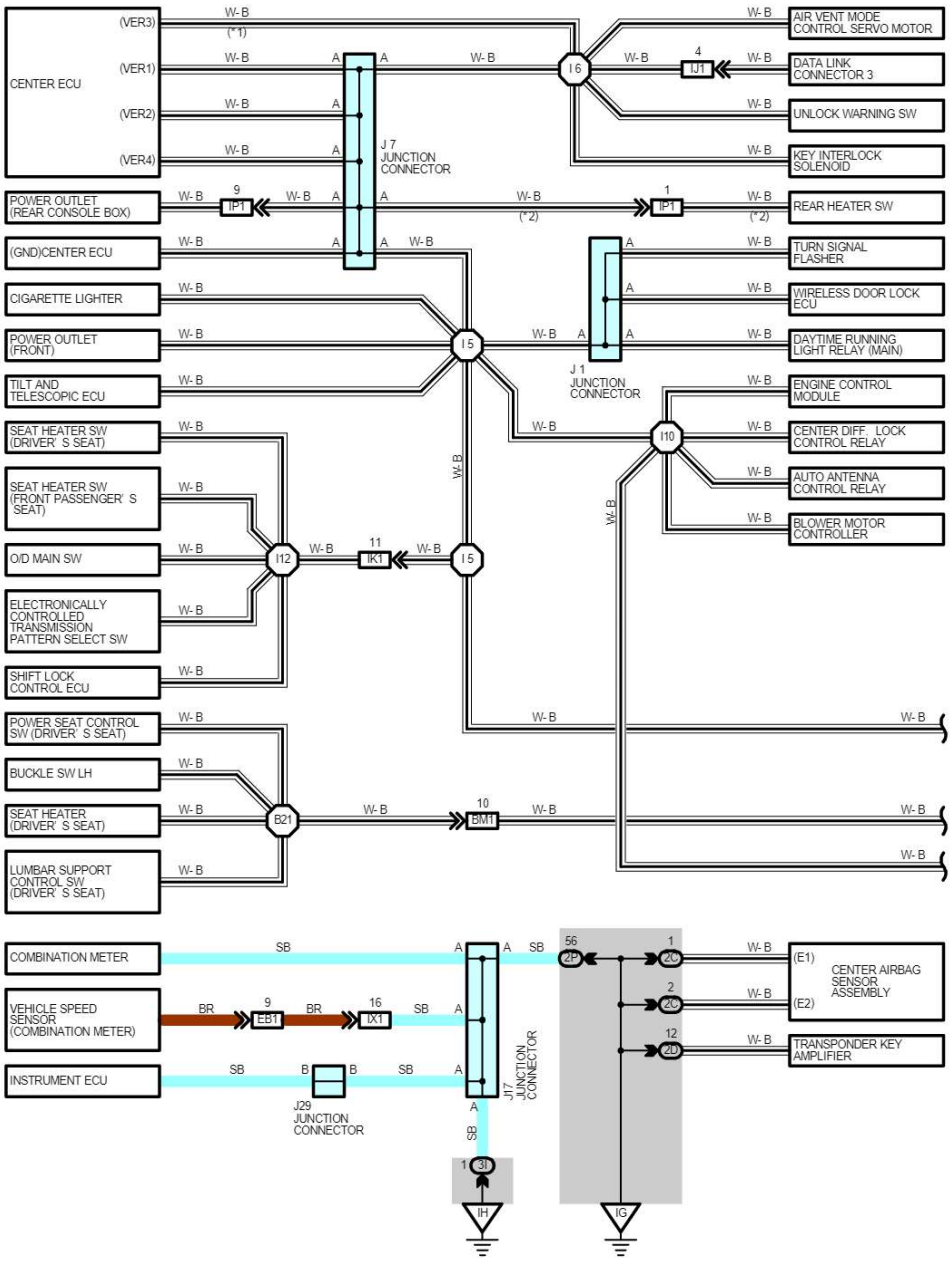
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IR1	52	Engine Room No.2 Wire and Floor No.2 Wire (Right Kick Panel)
IV2	54	Dash Wire and Floor No.2 Wire (Behind the Glove Box)
BD1	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BJ1	58	Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)
BL1	58	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BL2		

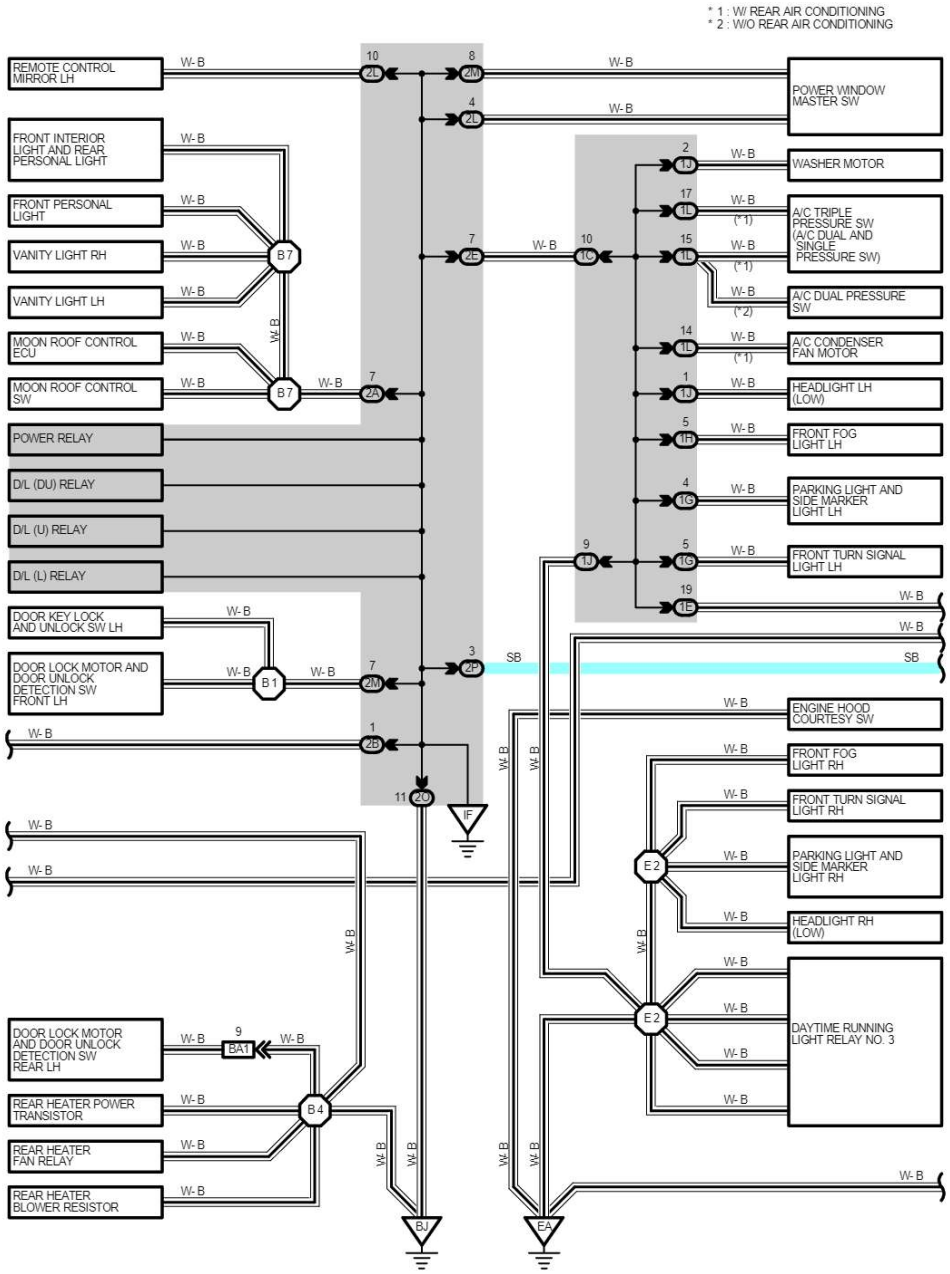
 **: GROUND POINTS**

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
BJ	56	Under the Driver's Seat
BK	56	Front Side Under the Front Passenger's Seat

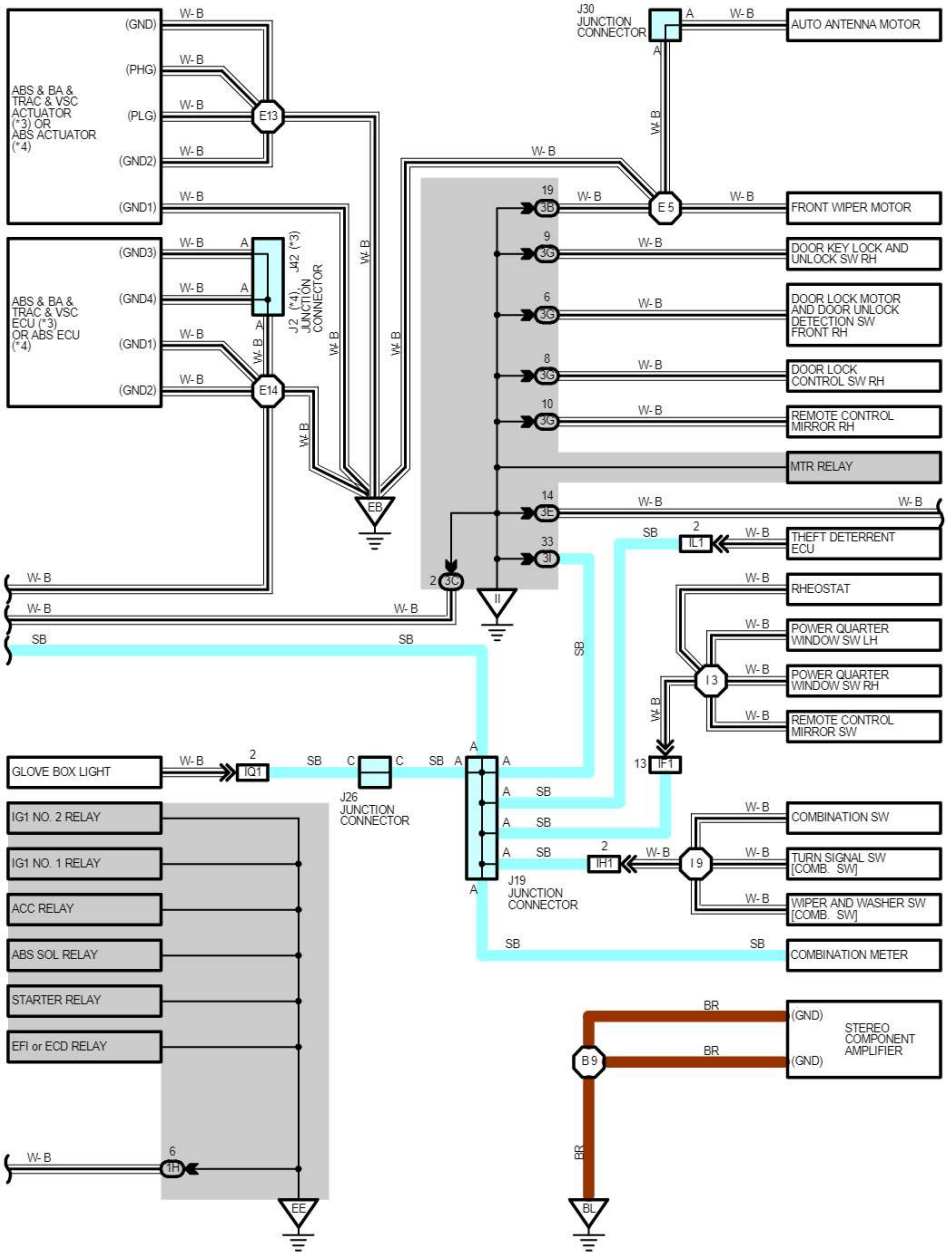
 **: SPLICE POINTS**

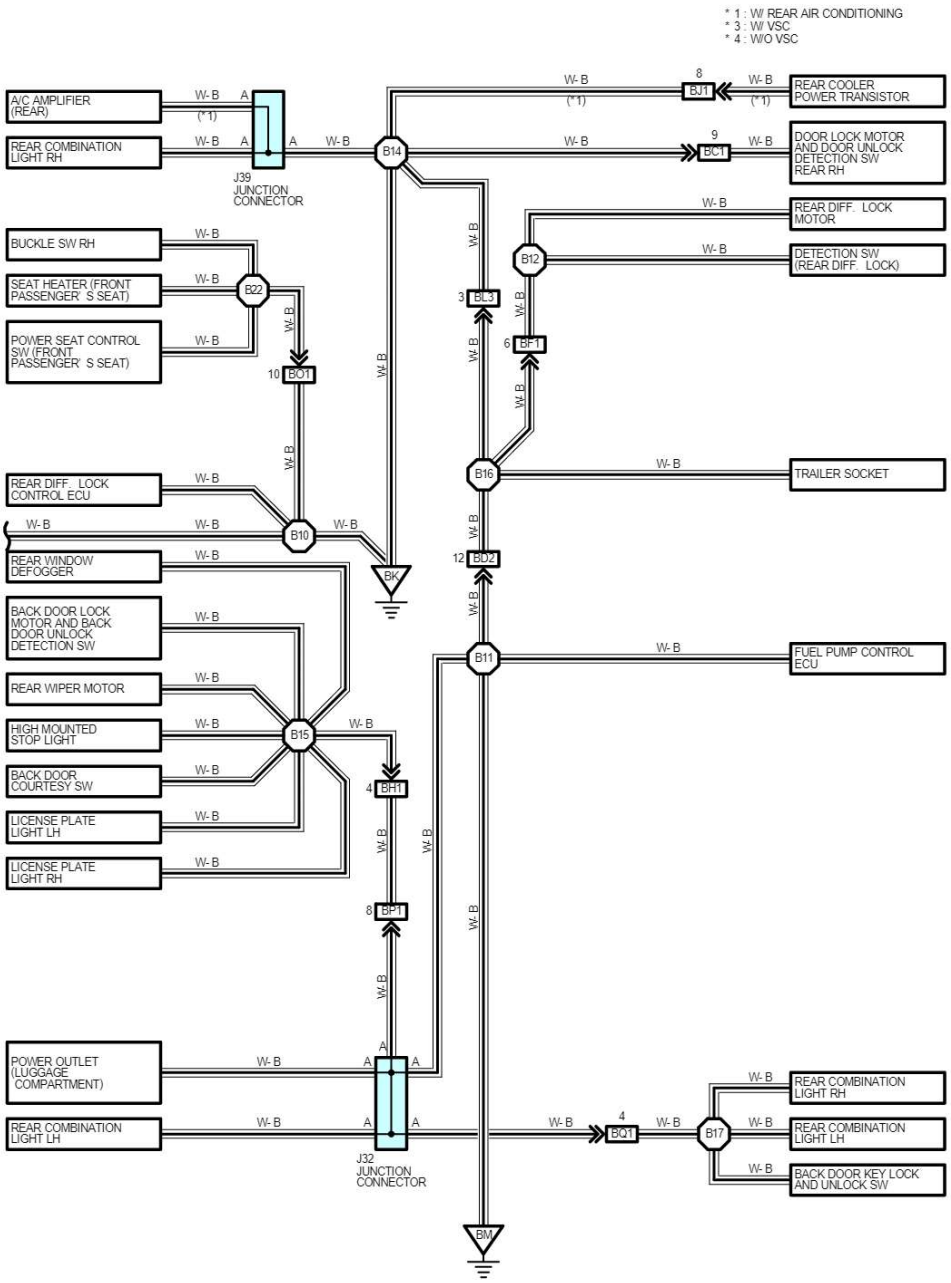
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I7	50	Dash Wire	B14	58	Floor No.2 Wire
I10			B19	58	A/C Sub Wire
B13	58	Roof No.2 Wire			

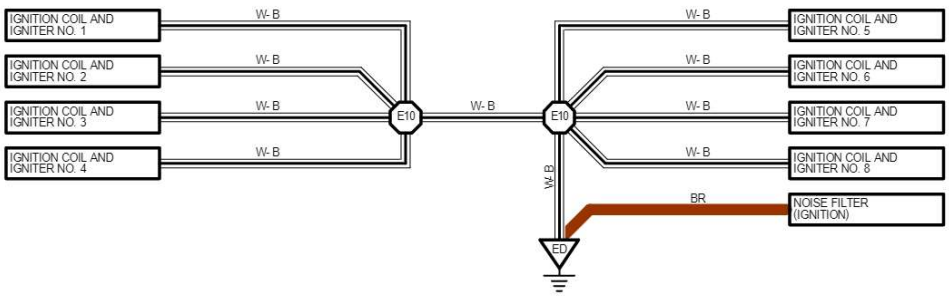

CENTER ECU
(VER3)
(VER1)
(VER2)
(VER4)
W-B
(*1)
A
J 7
JUNCTION
CONNECTOR
I6
4
IJ1
AIR VENT MODE
CONTROL SERVO MOTOR
DATA LINK
CONNECTOR 3
UNLOCK WARNING SW
KEY INTERLOCK
SOLENOID
POWER OUTLET
(REAR CONSOLE BOX)
9
IP1
1
(*2)
REAR HEATER SW
(GND)CENTER ECU
CIGARETTE LIGHTER
POWER OUTLET
(FRONT)
TILT AND
TELESCOPIC ECU
I5
J 1
JUNCTION
CONNECTOR
TURN SIGNAL
FLASHER
WIRELESS DOOR LOCK
ECU
DAYTIME RUNNING
LIGHT RELAY (MAIN)
ENGINE CONTROL
MODULE
I10
CENTER DIFF. LOCK
CONTROL RELAY
AUTO ANTENNA
CONTROL RELAY
BLOWER MOTOR
CONTROLLER
SEAT HEATER SW
(DRIVER' S SEAT)
SEAT HEATER SW
(FRONT PASSENGER' S
SEAT)
O/D MAIN SW
I12
11
IK1
ELECTRONICALLY
CONTROLLED
TRANSMISSION
PATTERN SELECT SW
SHIFT LOCK
CONTROL ECU
POWER SEAT CONTROL
SW (DRIVER' S SEAT)
BUCKLE SW LH
SEAT HEATER
(DRIVER' S SEAT)
B21
10
BM1
LUMBAR SUPPORT
CONTROL SW
(DRIVER' S SEAT)
COMBINATION METER
VEHICLE SPEED
SENSOR
(COMBINATION METER)
INSTRUMENT ECU
SB
BR
EB1
IX1
16
J29
JUNCTION
CONNECTOR
J17
JUNCTION
CONNECTOR
56
2P
1
2C
2
2C
12
2D
(E1)
(E2)
CENTER AIRBAG
SENSOR
ASSEMBLY
TRANSPONDER KEY
AMPLIFIER
3I
IH
IG

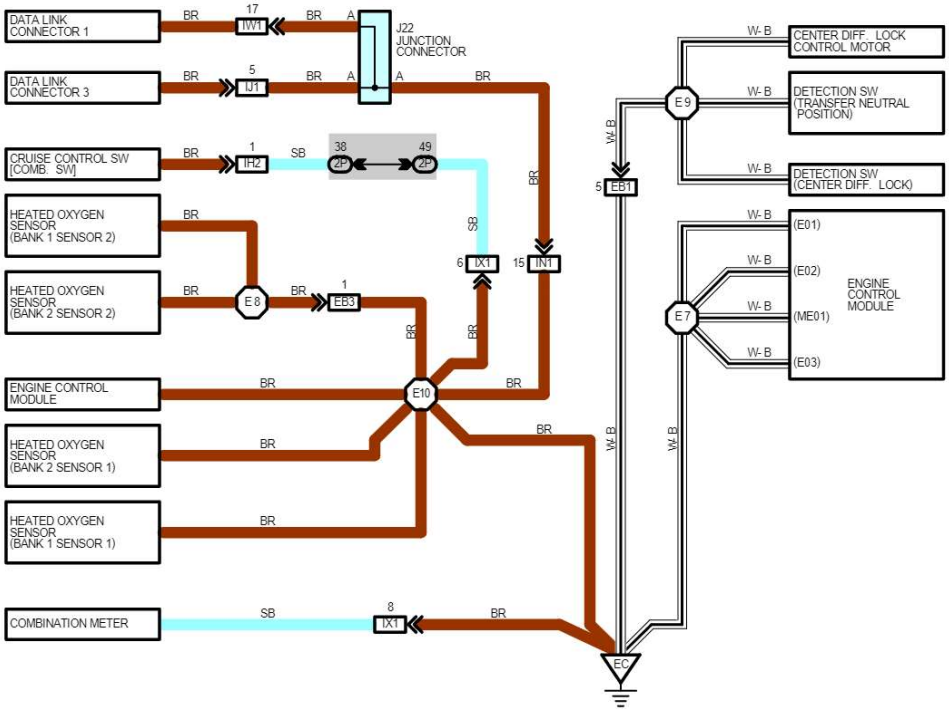

* 1 : W/ REAR AIR CONDITIONING
* 2 : W/O REAR AIR CONDITIONING
REMOTE CONTROL MIRROR LH
FRONT INTERIOR LIGHT AND REAR PERSONAL LIGHT
FRONT PERSONAL LIGHT
VANITY LIGHT RH
VANITY LIGHT LH
MOON ROOF CONTROL ECU
MOON ROOF CONTROL SW
POWER RELAY
D/L (DU) RELAY
D/L (U) RELAY
D/L (L) RELAY
DOOR KEY LOCK AND UNLOCK SW LH
DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW FRONT LH
DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR LH
REAR HEATER POWER TRANSISTOR
REAR HEATER FAN RELAY
REAR HEATER BLOWER RESISTOR
B7
B1
B4
BA1
E2
IF
BJ
EA
W-B
SB
POWER WINDOW MASTER SW
WASHER MOTOR
A/C TRIPLE PRESSURE SW (A/C DUAL AND SINGLE PRESSURE SW)
A/C DUAL PRESSURE SW
A/C CONDENSER FAN MOTOR
HEADLIGHT LH (LOW)
FRONT FOG LIGHT LH
PARKING LIGHT AND SIDE MARKER LIGHT LH
FRONT TURN SIGNAL LIGHT LH
ENGINE HOOD COURTESY SW
FRONT FOG LIGHT RH
FRONT TURN SIGNAL LIGHT RH
PARKING LIGHT AND SIDE MARKER LIGHT RH
HEADLIGHT RH (LOW)
DAYTIME RUNNING LIGHT RELAY NO. 3

I GROUND POINT




* 1 : W/ REAR AIR CONDITIONING
* 3 : W/ VSC
* 4 : W/O VSC
A/C AMPLIFIER (REAR)
REAR COMBINATION LIGHT RH
J39 JUNCTION CONNECTOR
BUCKLE SW RH
SEAT HEATER (FRONT PASSENGER' S SEAT)
POWER SEAT CONTROL SW (FRONT PASSENGER' S SEAT)
REAR DIFF. LOCK CONTROL ECU
REAR WINDOW DEFOGGER
BACK DOOR LOCK MOTOR AND BACK DOOR UNLOCK DETECTION SW
REAR WIPER MOTOR
HIGH MOUNTED STOP LIGHT
BACK DOOR COURTESY SW
LICENSE PLATE LIGHT LH
LICENSE PLATE LIGHT RH
POWER OUTLET (LUGGAGE COMPARTMENT)
REAR COMBINATION LIGHT LH
J32 JUNCTION CONNECTOR
REAR COOLER POWER TRANSISTOR
DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR RH
REAR DIFF. LOCK MOTOR
DETECTION SW (REAR DIFF. LOCK)
TRAILER SOCKET
FUEL PUMP CONTROL ECU
REAR COMBINATION LIGHT RH
REAR COMBINATION LIGHT LH
BACK DOOR KEY LOCK AND UNLOCK SW
B10
B11
B12
B14
B15
B16
B17
B22
BJ1
BC1
BL3
BF1
BO1
BH1
BP1
BQ1
BD2
BK
BM
W- B


IGNITION COIL AND IGNITER NO. 1
IGNITION COIL AND IGNITER NO. 2
IGNITION COIL AND IGNITER NO. 3
IGNITION COIL AND IGNITER NO. 4
W-B
E10
IGNITION COIL AND IGNITER NO. 5
IGNITION COIL AND IGNITER NO. 6
IGNITION COIL AND IGNITER NO. 7
IGNITION COIL AND IGNITER NO. 8
BR
NOISE FILTER (IGNITION)
E0


DATA LINK CONNECTOR 1
DATA LINK CONNECTOR 3
CRUISE CONTROL SW [COMB. SW]
HEATED OXYGEN SENSOR (BANK 1 SENSOR 2)
HEATED OXYGEN SENSOR (BANK 2 SENSOR 2)
ENGINE CONTROL MODULE
HEATED OXYGEN SENSOR (BANK 2 SENSOR 1)
HEATED OXYGEN SENSOR (BANK 1 SENSOR 1)
COMBINATION METER
J22 JUNCTION CONNECTOR
E8
E9
E7
E10
EB1
EB3
IW1
IJ1
IH2
IX1
IN1
EC
CENTER DIFF. LOCK CONTROL MOTOR
DETECTION SW (TRANSFER NEUTRAL POSITION)
DETECTION SW (CENTER DIFF. LOCK)
ENGINE CONTROL MODULE
(E01)
(E02)
(ME01)
(E03)
BR
SB
W-B

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J1	41	J19	41	J30	41
J2	41	J22	41	J32	42
J7	41	J26	41	J39	42
J17	41	J29	41	J42	41

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1E		
1G	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1H		
1J		
1L		
2A	26	Roof Wire and Cowl Side J/B LH (Left Kick Panel)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2C		
2D		
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2L	26	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
2M		
2O	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3B	32	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3C	32	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3G	32	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

I GROUND POINT

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	46	Engine Wire and Transmission Wire (On the Transmission)
EB3		
IF1	48	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
IH2		
IJ1	50	Dash Wire and Detector Wire (Instrument Panel Center)
IK1	50	Console Box Wire and Dash Wire (Left Side of Front Console)
IL1	50	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
IP1	52	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)
IQ1	52	Instrument Panel Integration Wire and Lamp Wire (Behind the Glove Box)
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IX1	54	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
BA1	56	Rear Door LH Wire and Floor Wire (Left Side of Center Pillar)
BC1	56	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BD2	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BF1	56	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)
BH1	58	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BJ1	58	Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)
BL3	58	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BM1	60	Floor Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BO1	60	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)
BP1	58	Pillar No.1 Wire and Floor Wire (Left Rear Side Quarter Panel)
BQ1	58	Back Door Lower Wire and Floor Wire (Left Rear Side Quarter Panel)

: GROUND POINTS

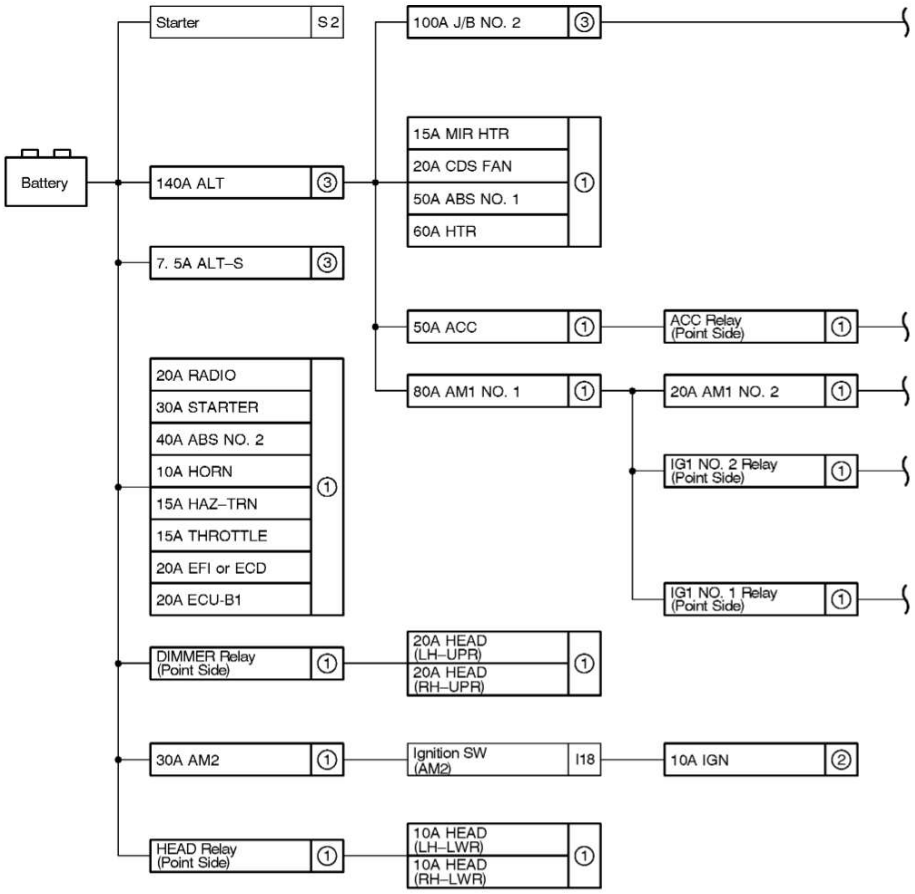
Code	See Page	Ground Points Location
EA	46	Front Right Side of Fender Apron
EB		
EC	46	Rear Bank of Right Cylinder Head
ED	46	Rear Bank of Left Cylinder Head
EE	46	Front Left Side of Fender Apron
IF	48	Set Bolt of Cowl Side J/B LH
IG		
IH	48	Set Bolt of Cowl Side J/B RH
II		
BJ	56	Under the Driver's Seat
BK	56	Front Side Under the Front Passenger's Seat
BL	56	Rear Side Under the Front Passenger's Seat
BM	56	Left Rear Side Quarter Panel

: SPLICE POINTS

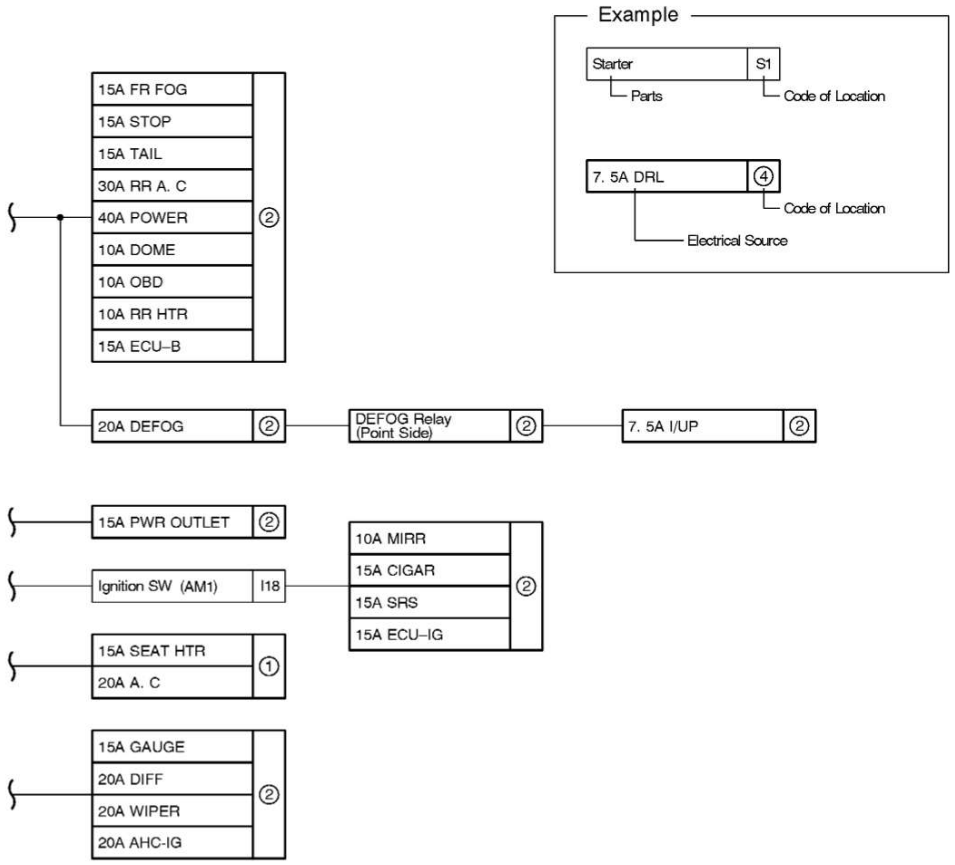
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	46	Engine Room Main Wire	B1	58	Front Door LH Wire
E5	46	Engine Room No.2 Wire	B4	58	Floor Wire
E7	46	Engine Wire	B7	58	Roof Wire
E8	46	Transmission Wire	B9	58	Floor No.2 Wire
E9			B10		
E10	46	Engine Wire	B11	58	Floor Wire
E13	46	Engine Room No.2 Wire	B12	58	Frame Wire
E14			B14	58	Floor No.2 Wire
I3	50	Instrument Panel Wire	B15	58	Back Door Upper Wire
I5	50	Dash Wire	B16	58	Floor No.3 Wire
I6			B17	58	Back Door Lower Wire
I9	50	Column Wire	B21	60	Front Seat LH Wire
I10	50	Dash Wire	B22	60	Front Seat RH Wire
I12	50	Console Box 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 22) ② : Cowl Side J/B LH (See Page 26)



③ : Fusible Link Block (F 6 on See Page 36)

Engine Room J/B (See Page 22)

Fuse		System	Page
20A	ECU-B1	Automatic Light Control	118
		Combination Meter	242
		Condenser Fan and Front Air Conditioning	248
		Door Lock Control	194
		Interior Light	106
		Key Reminder and Seat Belt Warning	232
		Light Auto Turn Off	122
		Moon Roof	190
		Power Window	184
		Theft Deterrent	210
		Wireless Door Lock Control	200
10A	HEAD (LH-LWR)	Front Fog Light	92
		Headlight	86
10A	HEAD (RH-LWR)	Headlight	86
10A	HORN	Horn	140
		Theft Deterrent	210
15A	HAZ-TRN	Theft Deterrent	210
		Turn Signal and Hazard Warning Light	94
15A	MIR HTR	Rear Window Defogger and Mirror Heater	230
15A	SEAT HTR	Seat Heater	228
15A	THROTTLE	Cruise Control	150
		Electronically Controlled Transmission and A/T Indicator	142
		Engine Control and Engine Immobiliser System	76
20A	A.C	Condenser Fan and Front Air Conditioning	248
		Key Reminder and Seat Belt Warning	232
		Rear Air Conditioning	254
		Rear Heater (w/o Rear Air Conditioning)	240
20A	AM1 NO.2	Turn Signal and Hazard Warning Light	94
20A	CDS FAN	Condenser Fan and Front Air Conditioning	248
20A	EFI or ECD	Cruise Control	150
		Electronically Controlled Transmission and A/T Indicator	142
		Engine Control and Engine Immobiliser System	76
20A	HEAD (LH-UPR)	Headlight	86
20A	HEAD (RH-UPR)	Headlight	86
20A	RADIO	Auto Antenna	234
		Radio and Player	236
30A	AM2	Electronically Controlled Transmission and A/T Indicator	142
		Engine Control and Engine Immobiliser System	76
		Ignition	70
		Starting	68
30A	STARTER	Starting	68

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

Fuse		System	Page
40A	ABS NO.2	ABS	164
		VSC	156
50A	ABS NO.1	ABS	164
		VSC	156
60A	HTR	Condenser Fan and Front Air Conditioning	248
80A	AM1 NO.1	Rear Window Defogger and Mirror Heater	230
		Turn Signal and Hazard Warning Light	94

Cowl Side J/B LH (See Page 26)

Fuse		System	Page
7.5A	I/UP	Rear Window Defogger and Mirror Heater	230
10A	DOME	Interior Light	106
10A	IGN	ABS	164
		Charging	74
		Combination Meter	242
		Cruise Control	150
		Electronically Controlled Transmission and A/T Indicator	142
		Engine Control and Engine Immobiliser System	76
		SRS	169
		VSC	156
10A	MIRR	Remote Control Mirror	224
10A	OBD	Cruise Control	150
		Engine Control and Engine Immobiliser System	76
10A	RR HTR	Rear Air Conditioning	254
		Rear Heater (w/o Rear Air Conditioning)	240
15A	CIGAR	Auto Antenna	234
		Cigarette Lighter	136
		Clock	134
		Condenser Fan and Front Air Conditioning	248
		Radio and Player	236
		Rear Air Conditioning	254
		Shift Lock	174
15A	ECU-B	Clock	134
		Combination Meter	242
		Condenser Fan and Front Air Conditioning	248
		Headlight	86
		Power Tilt and Power Telescopic	220
		Rear Air Conditioning	254
		SRS	169
		Theft Deterrent	210
15A	ECU-IG	ABS	164
		Auto Antenna	234
		Automatic Light Control	118
		Door Lock Control	194

* 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
15A	ECU-IG	Interior Light	106
		Light Auto Turn Off	122
		Moon Roof	190
		Power Tilt and Power Telescopic	220
		Power Window	184
		Shift Lock	174
		Theft Deterrent	210
		VSC	156
		Wireless Door Lock Control	200
15A	FR FOG	Front Fog Light	92
15A	GAUGE	ABS	164
		Back-Up Light	116
		Center Differential Lock	176
		Charging	74
		Combination Meter	242
		Cruise Control	150
		Electronically Controlled Transmission and A/T Indicator	142
		Engine Control and Engine Immobiliser System	76
		Headlight	86
		Key Reminder and Seat Belt Warning	232
		Power Rear Quarter Window	226
		Rear Differential Lock	180
		Rear Window Defogger and Mirror Heater	230
		VSC	156
		Wireless Door Lock Control	200
15A	PWR OUTLET	Power Outlet	138
15A	SRS	SRS	169
15A	STOP	ABS	164
		Cruise Control	150
		Electronically Controlled Transmission and A/T Indicator	142
		Engine Control and Engine Immobiliser System	76
		Shift Lock	174
		Stop Light	114
		VSC	156
15A	TAIL	Automatic Light Control	118
		Illumination	102
		Light Auto Turn Off	122
		Taillight	98
		Theft Deterrent	210
		Wireless Door Lock Control	200
20A	AHC-IG	VSC	156
20A	DEFOG	Rear Window Defogger and Mirror Heater	230
20A	DIFF	Center Differential Lock	176
		Rear Differential Lock	180

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

Fuse		System	Page
20A	WIPER	Front Wiper and Washer	126
		Rear Wiper and Washer	130
30A	RR A.C	Rear Air Conditioning	254
40A	POWER	Door Lock Control	194
		Moon Roof	190
		Power Seat	216
		Power Tilt and Power Telescopic	220
		Power Window	184
		Wireless Door Lock Control	200

Fusible Link Block (F6 on See Page 36)

Fuse		System	Page
7.5A	ALT-S	Charging	74
100A	J/B NO.2	Automatic Light Control	118
		Light Auto Turn Off	122
140A	ALT	Automatic Light Control	118
		Charging	74
		Light Auto Turn Off	122
		Turn Signal and Hazard Warning Light	94

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

K CONNECTOR LIST

A1
BLACK



A2
BLACK



A3
GRAY



A4
GRAY



A5
GRAY



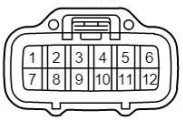
A6
DARK GRAY



A7



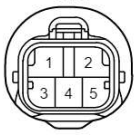
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A9
BLACK



A10
GRAY



A11
GRAY



A12



A13
GRAY



A14
BLACK



A15
YELLOW



A16
YELLOW



A17



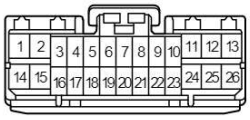
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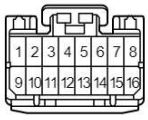
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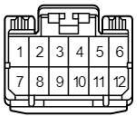
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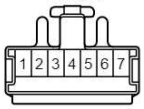
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A23



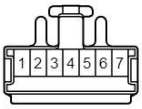
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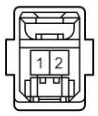
A25



A26
BLACK



A27
YELLOW



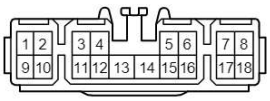
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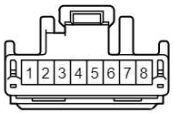
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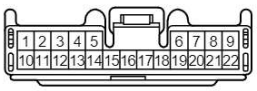
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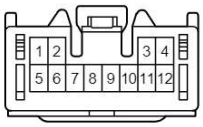
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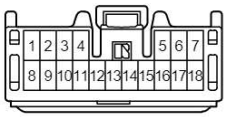
A32



A33



A34



A35
GRAY



A36
GRAY



A37
GRAY



A38
BLACK



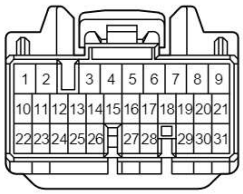
A39
BLACK



A40
GRAY



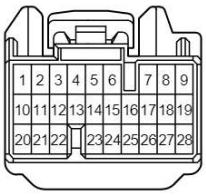
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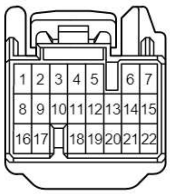
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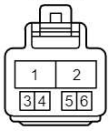
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A44



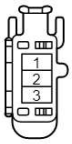
B1
BLACK



B2



B3



B4
BLACK



B5



B6



C1
DARK GRAY



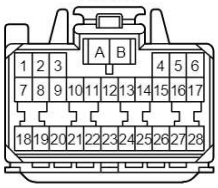
C2
BLACK



C3
DARK GRAY

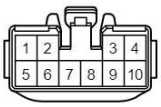


C4
YELLOW

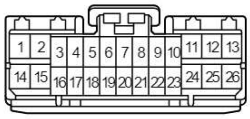


K CONNECTOR LIST

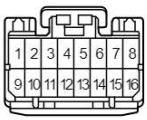
C5



C6
DARK GRAY



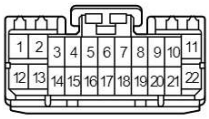
C7
BLACK



C8
GRAY



C9



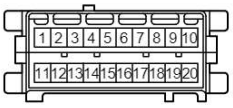
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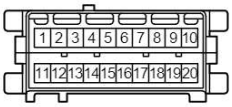
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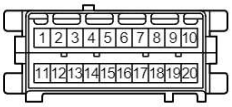
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GRAY



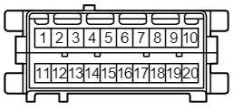
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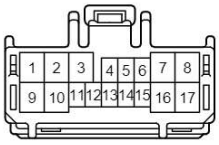
C14
GRAY



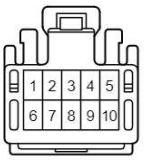
C15



C16



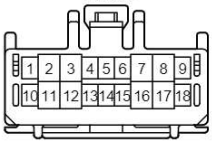
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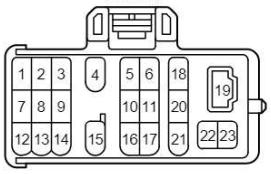
C18
BLACK



C19
BLACK



D1
BLACK



D2
BLACK



D3
BLACK



D4
GRAY



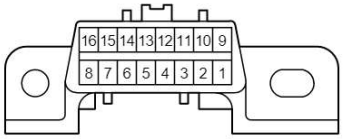
D5
GRAY



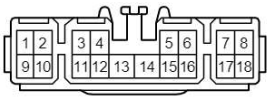
D6
GRAY



D7



D8
GRAY



D9
BLUE



D10
GRAY



D11
GRAY



D12
GRAY



D13
GRAY



D14



D15



D16



D17



D18
GRAY



D19
GRAY



D20



D21
BLACK



D22
BLACK



D23
BLACK



D24
BLACK



D25
(w/ VSC) BLACK



D25
(w/o VSC) BLACK



E1
GRAY



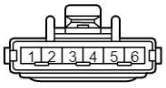
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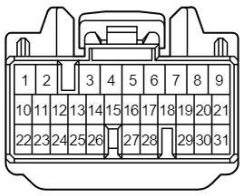
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E4



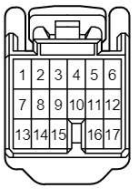
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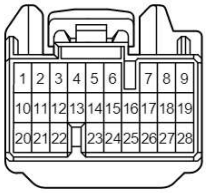
E6



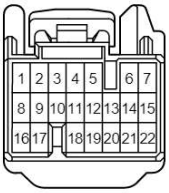
E7



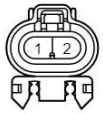
E8



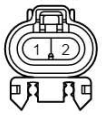
E9



F1
BROWN



F2
BROWN



K CONNECTOR LIST

F3
GRAY



F4
GRAY



F5
BLACK



F6

(See Page 36)

F7



F8



F9



F10



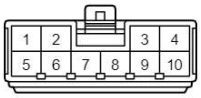
F11



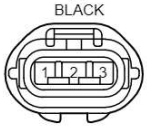
F12
DARK GRAY



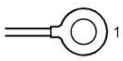
F13
BLACK



G1
BLACK



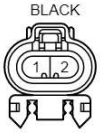
G2



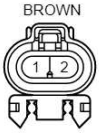
G3



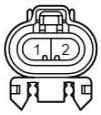
H1
BLACK



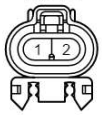
H2
BROWN



H3
BLACK



H4
BROWN



H5
DARK GRAY



H6
DARK GRAY



H7
DARK GRAY



H8
DARK GRAY



H9
BLACK



H10
BLACK



H11



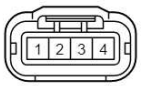
I1
BLACK



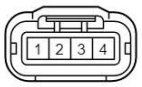
I2
BLACK



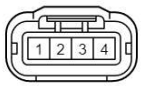
I3
BLACK



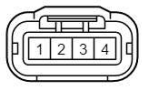
I4
BLACK



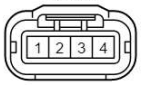
I5
BLACK



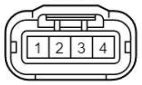
I6
BLACK



I7
BLACK



I8
BLACK



I9
BLUE



I10
BLUE



I11
BLUE



I12
BLUE



I13
BLUE



I14
BLUE



I15
BLUE



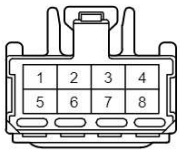
I16
BLUE



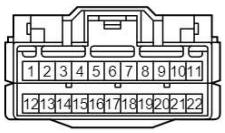
I17
GRAY



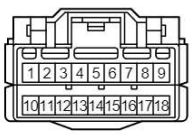
I18



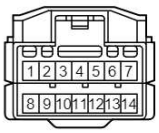
I19



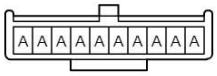
I20



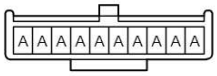
I21
BLUE



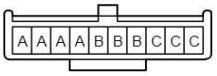
J1



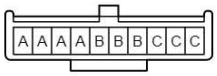
J2



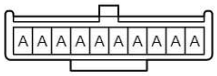
J3
BLUE



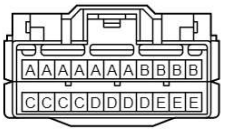
J4
BLUE



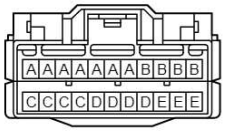
J7



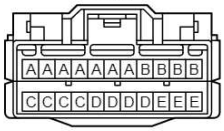
J9
GRAY



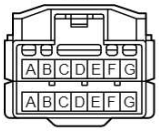
J10



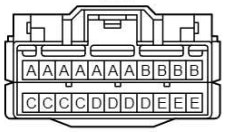
J11
GRAY



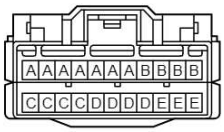
J12
BLUE



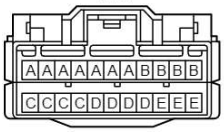
J13
GRAY



J14

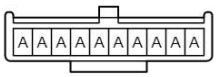


J15
GRAY

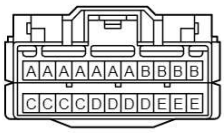


K CONNECTOR LIST

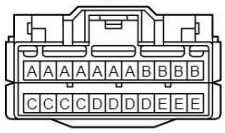
J16



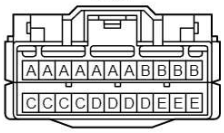
J17



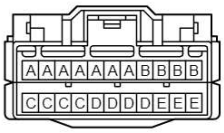
J18
GRAY



J19
GRAY



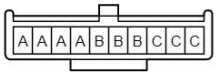
J20



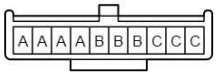
J21
BLACK



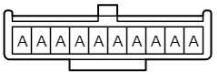
J22
BLUE



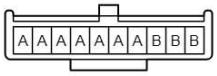
J23
BLUE



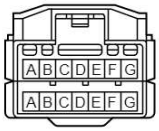
J24



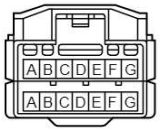
J25
RED



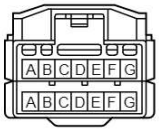
J26
BLUE



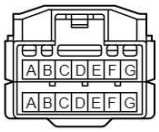
J27
GRAY



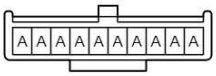
J28



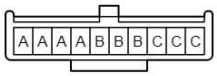
J29



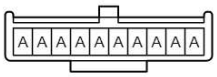
J30



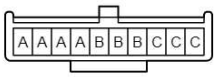
J31
BLUE



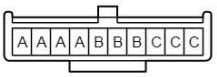
J32



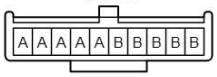
J33
BLUE



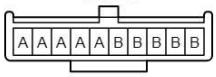
J34
BLUE



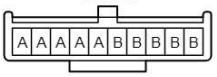
J35
GREEN



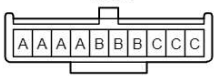
J36
GREEN



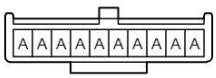
J37
GREEN



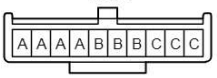
J38
BLUE



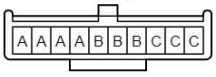
J39



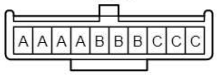
J40
BLUE



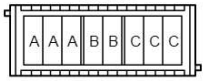
J41
BLUE



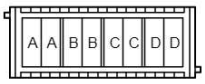
J42
BLUE



J43
BLACK



J44



K1
DARK GRAY



K2
DARK GRAY



K3
BLACK



L1



L2



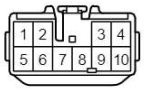
L3



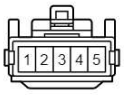
M1
BLACK



M2



M3



M4
BLACK



N1
GRAY



O1
BLACK



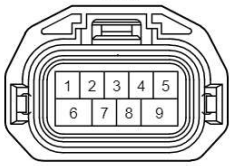
O2
BLACK



O3



P1
GRAY



P2
GRAY



P3
GRAY



P4



P5



P6
BLACK



P7
BLACK



P8



P9



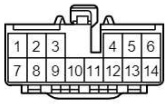
P10



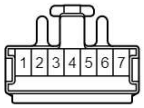
P11



P12



P13



P14



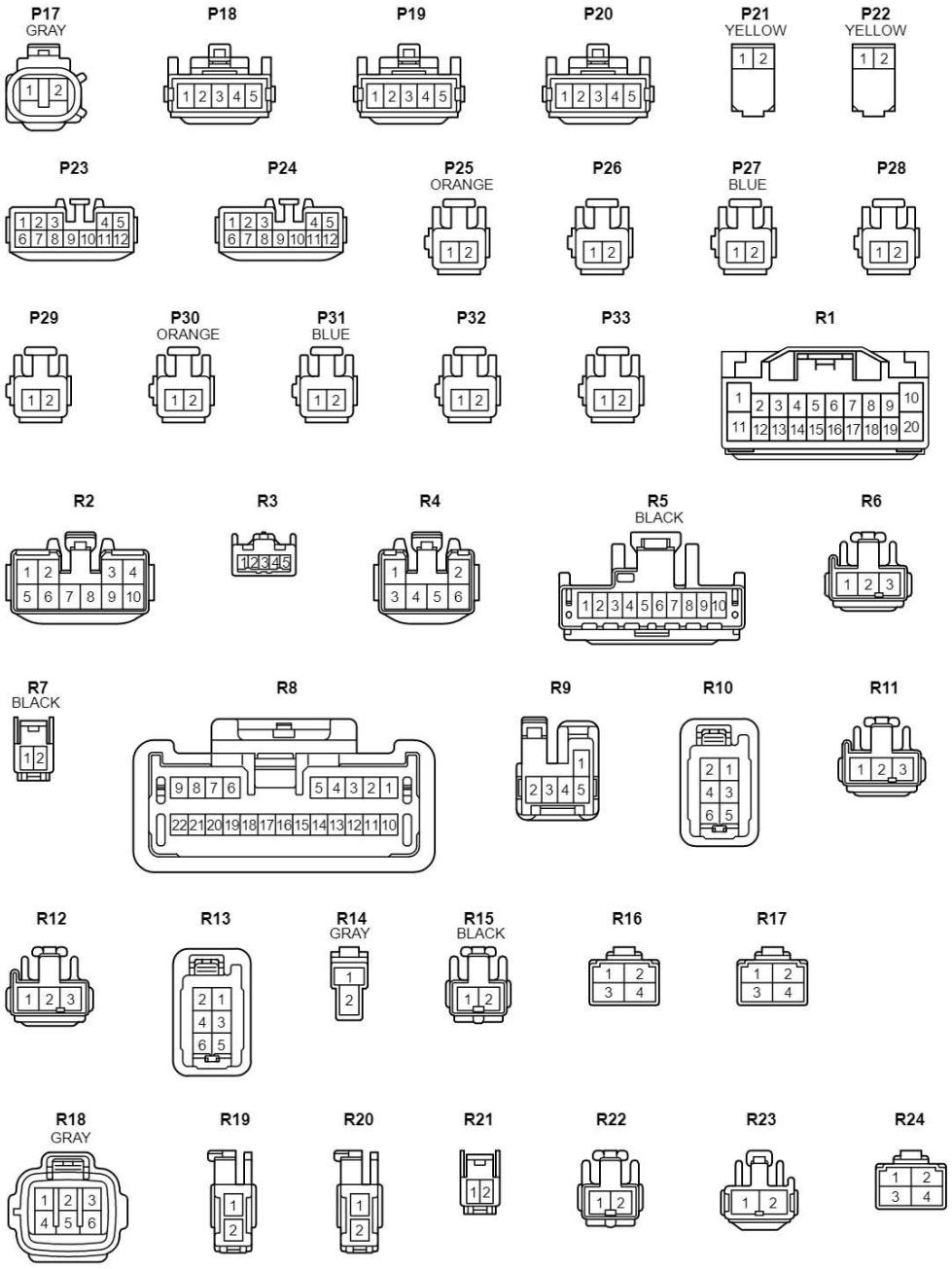
P15
GRAY



P16
GRAY



K CONNECTOR LIST



R25
BLACK



R26
BLACK



R27



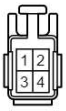
R28



R29



R30



R31
BLACK



R32



R33



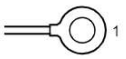
R34
BLACK



S1
BLACK



S2



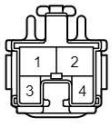
S3
BLACK



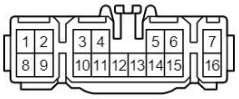
S4
BROWN



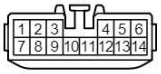
S5
BLUE



S6
GRAY



S7
GRAY



S8



S9



S10



T1
BLACK



T2
GRAY



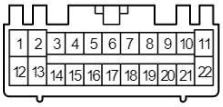
T3
GRAY



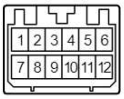
T4



T5



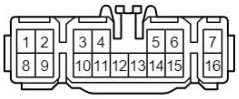
T6



T7



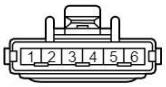
T8



T9
BLACK



T10
BLACK



T11
BLACK



T12
GRAY



T13



T14



U1



V1
BLACK



V2
BLACK



K CONNECTOR LIST

V3
BLACK



V4
BLACK



V5
BLUE



V6



V7



V8
BLACK



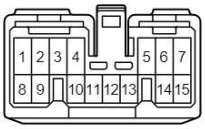
W1
GRAY



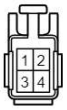
W2
GRAY



W3



W4



Y1



L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980-11070
A 2	A/C Condenser Fan Motor	90980-11237
A 3	A/C Condenser Fan Relay	90980-10940
A 4	A/C Dual Pressure SW	90980-11149
A 5	A/C Magnetic Clutch and Lock Sensor	90980-11016
A 6	A/C Triple Pressure SW (A/C Dual and Single Pressure SW)	90980-10943
A 7	A/T Oil Temp. Sensor	90980-11025
A 8	ABS Actuator	90980-11151
A 9	ABS Actuator	90980-10895
A10	ABS Actuator	90980-11413
A11	ABS Actuator	90980-11009
A12	ABS Speed Sensor Front LH	90980-10941
A13	ABS Speed Sensor Front RH	90980-11002
A14	Accel Position Sensor	90980-11150
A15	Airbag Sensor Front LH	90980-11856
A16	Airbag Sensor Front RH	
A17	Auto Antenna Motor	90980-11194
A18	A/C Solar Sensor	90980-11919
A19	A/C Thermistor	90980-11918
A21	ABS ECU	90980-11390
A22	ABS ECU	90980-11391
A23	ABS ECU	90980-11424
A24	Air Inlet Control Servo Motor	90980-11165
A25	Air Mix Control Servo Motor	90980-10797
A26	Air Vent Mode Control Servo Motor	90980-11165
A27	Airbag Squib (Front Passenger Airbag Assembly)	90980-11884
A28	Airbag Squib (Steering Wheel Pad)	90980-10850
A29	Ashtray Illumination	90980-10825
A30	Auto Antenna Control Relay	90980-10819
A31	Automatic Light Control Sensor	90980-11633
A32	A/C Amplifier (Rear)	90980-11502
A33	A/C Amplifier (Rear)	90980-11475
A34	A/C Amplifier (Rear)	90980-11497
A35	ABS Speed Sensor Rear LH	90980-11073
A36	ABS Speed Sensor Rear RH	
A37	ABS & BA & TRAC & VSC Actuator	90980-11413
A38	ABS & BA & TRAC & VSC Actuator	90980-10895
A39	ABS & BA & TRAC & VSC Actuator	90980-11151
A40	ABS & BA & TRAC & VSC Actuator	90980-11009
A41	ABS & BA & TRAC & VSC ECU	90980-11935
A42	ABS & BA & TRAC & VSC ECU	90980-11476
A43	ABS & BA & TRAC & VSC ECU	90980-11637
A44	ABS & BA & TRAC & VSC ECU	90980-11638

Code	Part Name	Part Number
B 1	Blower Motor Controller	90980-10910
B 2	Back Door Courtesy SW	90980-10039
B 3	Back Door Key Lock and Unlock SW	90980-11490
B 4	Back Door Lock Motor and Back Door Unlock Detection SW	90980-11150
B 5	Buckle SW LH	90980-11211
B 6	Buckle SW RH	
C 1	Camshaft Position Sensor	90980-10947
C 2	Center Diff. Lock Control Motor	90980-11024
C 3	Crankshaft Position Sensor	90980-11162
C 4	Center Airbag Sensor Assembly	90980-11872
C 5	Center Diff. Lock Control Relay	90980-10801
C 6	Center ECU	90980-11390
C 7	Center ECU	90980-11391
C 8	Center ECU	90980-11408
C 9	Center ECU	90980-11392
C10	Cigarette Lighter	90980-10760
C11	Cigarette Lighter Illumination	90980-11148
C12	Combination Meter	82824-60060
C13	Combination Meter	82824-60050
C14	Combination Meter	82824-60060
C15	Combination Meter	82824-60050
C16	Combination SW	90980-11672
C17	Combination SW	90980-11581
C18	Combination SW	90980-11616
C19	Combination SW	90980-11594
D 1	Data Link Connector 1	90980-11195
D 2	Daytime Running Light Relay No.3	90980-10939
D 3	Daytime Running Light Relay No.3	90980-10940
D 4	Detection SW (Center Diff. Lock)	90980-11250
D 5	Detection SW (Transfer L Position)	
D 6	Detection SW (Transfer Neutral Position)	90980-11025
D 7	Data Link Connector 3	90080-98012
D 8	Daytime Running Light Relay (Main)	90980-10819
D 9	Detection SW (Rear Diff. Lock)	90980-11156
D10	Door Courtesy Light Front LH	90980-11148
D11	Door Courtesy Light Front RH	
D12	Door Courtesy Light Rear LH	
D13	Door Courtesy Light Rear RH	
D14	Door Courtesy SW Front LH	90980-10871
D15	Door Courtesy SW Front RH	
D16	Door Courtesy SW Rear LH	
D17	Door Courtesy SW Rear RH	

Note: 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.).

Code	Part Name	Part Number
D18	Door Key Lock and Unlock SW LH	90980-11170
D19	Door Key Lock and Unlock SW RH	
D20	Door Lock Control SW RH	90980-10601
D21	Door Lock Motor and Door Unlock Detection SW Front LH	90980-11150
D22	Door Lock Motor and Door Unlock Detection SW Front RH	
D23	Door Lock Motor and Door Unlock Detection SW Rear LH	
D24	Door Lock Motor and Door Unlock Detection SW Rear RH	
D25	Deceleration Sensor (w/ VSC)	90980-11182
	Deceleration Sensor (w/o VSC)	90980-10845
E 1	Electronically Controlled Transmission Solenoid	90980-10891
E 2	Engine Coolant Temp. Sensor	90980-10737
E 3	Engine Hood Courtesy SW	90980-11003
E 4	Electronically Controlled Transmission Pattern Select SW	90980-10933
E 5	Engine Control Module	90980-11421
E 6	Engine Control Module	90980-11476
E 7	Engine Control Module	90980-11586
E 8	Engine Control Module	90980-11637
E 9	Engine Control Module	90980-11638
F 1	Front Fog Light LH	90980-11660
F 2	Front Fog Light RH	
F 3	Front Turn Signal and Side Marker Light LH	90980-11020
F 4	Front Turn Signal and Side Marker Light RH	
F 5	Front Wiper Motor	90980-11599
F 6	Fusible Link Block	82620-60010
F 7	Fuel Control SW	90980-10860
F 8	Front Door Speaker LH	90980-10935
F 9	Front Door Speaker RH	
F10	Front Interior Light and Rear Personal Light	90980-10365
F11	Front Personal Light	90980-10935
F12	Fuel Pump and Sender	90980-11077
F13	Fuel Pump Control ECU	90980-10862
G 1	Generator	90980-11349
G 2	Generator	90980-09212
G 3	Glove Box Light	90980-11098
H 1	Headlight LH (High)	90980-11659
H 2	Headlight LH (Low)	90980-11660
H 3	Headlight RH (High)	90980-11659
H 4	Headlight RH (Low)	90980-11660
H 5	Heated Oxygen Sensor (Bank 1 Sensor 1)	90980-10869
H 6	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980-11028
H 7	Heated Oxygen Sensor (Bank 2 Sensor 1)	90980-10869

Code	Part Name	Part Number
H 8	Heated Oxygen Sensor (Bank 2 Sensor 2)	90980-11028
H 9	Horn LH	90980-10619
H10	Horn RH	
H11	High Mounted Stop Light	90980-11211
I 1	Ignition Coil and Igniter No.1	90980-11885
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	Ignition Coil and Igniter No.5	
I 6	Ignition Coil and Igniter No.6	
I 7	Ignition Coil and Igniter No.7	
I 8	Ignition Coil and Igniter No.8	
I 9	Injector No.1	90980-11153
I10	Injector No.2	
I11	Injector No.3	
I12	Injector No.4	
I13	Injector No.5	
I14	Injector No.6	
I15	Injector No.7	
I16	Injector No.8	
I17	Ignition Key Cylinder Light	90980-10906
I18	Ignition SW	90980-11615
I19	Instrument ECU	90980-11927
I20	Instrument ECU	90980-11914
I21	Instrument ECU	90980-11925
J 1	Junction Connector	-
J 2	Junction Connector	
J 3	Junction Connector	
J 4	Junction Connector	
J 7	Junction Connector	
J 9	Junction Connector	90980-11927
J10	Junction Connector	
J11	Junction Connector	
J12	Junction Connector	90980-11925
J13	Junction Connector	90980-11927
J14	Junction Connector	
J15	Junction Connector	
J16	Junction Connector	-
J17	Junction Connector	90980-11927
J18	Junction Connector	
J19	Junction Connector	
J20	Junction Connector	

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number
J21	Junction Connector	-
J22	Junction Connector	
J23	Junction Connector	
J24	Junction Connector	
J25	Junction Connector	
J26	Junction Connector	90980-11925
J27	Junction Connector	
J28	Junction Connector	
J29	Junction Connector	
J30	Junction Connector	-
J31	Junction Connector	
J32	Junction Connector	
J33	Junction Connector	
J34	Junction Connector	
J35	Junction Connector	
J36	Junction Connector	
J37	Junction Connector	
J38	Junction Connector	
J39	Junction Connector	
J40	Junction Connector	
J41	Junction Connector	
J42	Junction Connector	
J43	Junction Connector	82824-10020
J44	Junction Connector	82824-10010
K 1	Knock Sensor 1	90980-11166
K 2	Knock Sensor 2	
K 3	Key Interlock Solenoid	90980-10825
L 1	License Plate Light LH	90980-11148
L 2	License Plate Light RH	
L 3	Lumbar Support Control SW (Driver's Seat)	90980-10601
M 1	Mass Air Flow Meter	90980-11317
M 2	Moon Roof Control ECU	90980-10997
M 3	Moon Roof Control SW	90980-10789
M 4	Master Cylinder Pressure Sensor	90980-10845
N 1	Noise Filter (Ignition)	90980-10843
O 1	O/D Direct Clutch Speed Sensor	90980-11156
O 2	Oil Pressure Sender	90980-11363
O 3	O/D Main SW and Shift Lock Control ECU	90980-11614
P 1	Park/Neutral Position SW, A/T Indicator Light SW and Back-Up Light SW	90980-11784
P 2	Parking Light LH	90980-11156
P 3	Parking Light RH	
P 4	Power Outlet (Front)	90980-10760
P 5	Power Outlet (Rear Console Box)	90980-10860
P 6	Power Quarter Window SW LH	90980-10797
P 7	Power Quarter Window SW RH	90980-10996
P 8	Parking Brake SW	90980-10871
P 9	Power Outlet (Luggage Compartment)	90980-10860
P10	Power Vent Window Motor LH	
P11	Power Vent Window Motor RH	
P12	Power Window Master SW	90980-11791
P13	Power Window Master SW	90980-11165
P14	Power Window Motor Front LH	90980-11599
P15	Power Window Motor Front RH	90980-11003
P16	Power Window Motor Rear LH	
P17	Power Window Motor Rear RH	
P18	Power Window SW Front RH	90980-10789
P19	Power Window SW Rear LH	
P20	Power Window SW Rear RH	
P21	Pretensioner LH	90980-11862
P22	Pretensioner RH	
P23	Power Seat Control SW (Driver's Seat)	90980-10803
P24	Power Seat Control SW (Front Passenger's Seat)	
P25	Power Seat Motor (Driver's Seat Front Vertical Control)	90980-10825
P26	Power Seat Motor (Driver's Seat Lumbar Support Control)	
P27	Power Seat Motor (Driver's Seat Rear Vertical Control)	
P28	Power Seat Motor (Driver's Seat Reclining Control)	
P29	Power Seat Motor (Driver's Seat Slide Control)	
P30	Power Seat Motor (Front Passenger's Seat Front Vertical Control)	
P31	Power Seat Motor (Front Passenger's Seat Rear Vertical Control)	
P32	Power Seat Motor (Front Passenger's Seat Reclining Control)	
P33	Power Seat Motor (Front Passenger's Seat Slide Control)	
R 1	Radio and Player	90980-12038
R 2	Rear Diff. Lock Control ECU	90980-10801
R 3	Rear Diff. Lock SW	90980-10631
R 4	Rear Heater SW	90980-10797
R 5	Remote Control Mirror SW	90980-11657
R 6	Rheostat	90980-10908
R 7	Room Temp. Sensor (Front)	90980-11918
R 8	Rear A/C Control SW	90980-11503
R 9	Rear Air Mix Control Servo Motor	90980-11319
R10	Rear Combination Light LH	90980-11587
R11	Rear Combination Light LH	90908-10908
R12	Rear Combination Light RH	
R13	Rear Combination Light RH	90908-11587
R14	Rear Cooler Blower Motor	90980-10214
R15	Rear Cooler Magnetic Valve	90980-10860

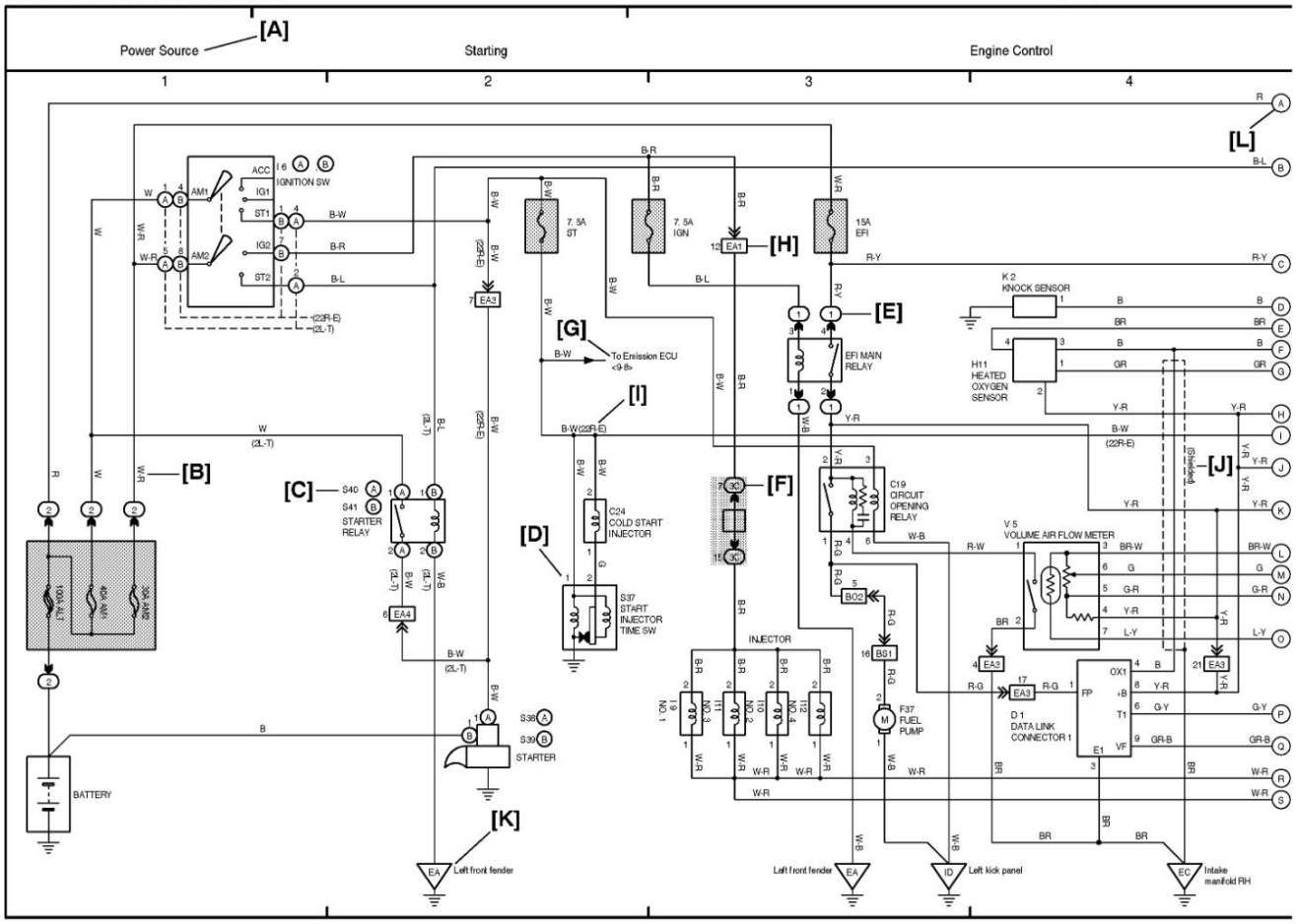
Note: Not all of the above part numbers of the connector are established for the supply. In case of ordering a connector or terminal with wire, please confirm in advance if there is supply for it using "Parts Catalog News" (published by Parts Engineering Administration Dept.).

Code	Part Name	Part Number
R16	Rear Cooler Power Transistor	90980-10171
R17	Rear Cooler Relay	
R18	Rear Diff. Lock Motor	90980-11194
R19	Rear Door Speaker LH	90980-10935
R20	Rear Door Speaker RH	
R21	Rear Evaporator Temp. Sensor	90980-11918
R22	Rear Heater Blower Motor	90980-10860
R23	Rear Heater Blower Resistor	90980-10916
R24	Rear Heater Fan Relay	90980-10171
R25	Rear Heater Power Transistor	
R26	Rear Inlet Air Temp. Sensor	90980-11369
R27	Rear Interior Light	90980-10935
R28	Rear Window Defogger	90980-11097
R29	Rear Window Defogger	
R30	Rear Wiper Motor	90980-10795
R31	Rear Wiper Relay	90908-10797
R32	Remote Control Mirror LH	90980-11573
R33	Remote Control Mirror RH	
R34	Room Temp. Sensor (Rear)	90980-11918
S 1	Starter	90980-11400
S 2	Starter	90980-09585
S 3	Seat Heater SW (Driver's Seat)	90980-10797
S 4	Seat Heater SW (Front Passenger's Seat)	90980-10996
S 5	Stop Light SW	90980-11118
S 6	Stereo Component Amplifier	90980-10848
S 7	Stereo Component Amplifier	90980-10807
S 8	Seat Belt Warning Occupant Detection Sensor	90980-10860
S 9	Seat Heater (Driver's Seat)	90980-10907
S10	Seat Heater (Front Passenger's Seat)	

Code	Part Name	Part Number
T 1	Theft Deterrent Horn	90980-10619
T 2	Throttle Control Motor	90980-10942
T 3	Throttle Position Sensor	90980-11037
T 4	Telescopic Motor	90980-10799
T 5	Theft Deterrent ECU	90980-10765
T 6	Theft Deterrent ECU	90980-10973
T 7	Tilt and Telescopic ECU	90980-10799
T 8	Tilt and Telescopic ECU	90980-10848
T 9	Tilt Motor	90980-10799
T10	Transponder Key Amplifier	90980-10933
T11	Turn Signal Flasher	90980-10799
T12	Trailer Socket	90980-10988
T13	Tweeter LH	90980-11300
T14	Tweeter RH	
U 1	Unlock Warning SW	90980-10860
V 1	Vapor Pressure Sensor	90980-11143
V 2	Vehicle Speed Sensor (Combination Meter)	
V 3	Vehicle Speed Sensor (Electronically Controlled Transmission)	90980-11156
V 4	VSV (EVAP)	
V 5	VSV (Vapor Pressure Sensor)	
V 6	Vanity Light LH	90980-11369
V 7	Vanity Light RH	
V 8	VSC Warning Buzzer	90980-10906
W 1	Washer Motor	90980-11294
W 2	Water Temp. Sender	90980-11428
W 3	Wireless Door Lock ECU	90980-11264
W 4	Woofer (Speaker)	90980-10795
Y 1	Yaw Rate Sensor	90980-11904

HOW TO READ THIS SECTION

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



[A] : System Title

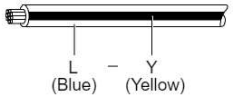
[B] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B	= Black	W	= White	BR	= Brown
L	= Blue	V	= Violet	SB	= Sky Blue
R	= Red	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.

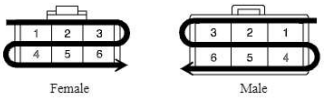
Example: L - Y



[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 / Numbered in order from upper right to lower left



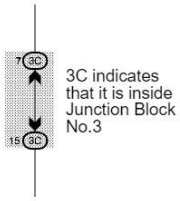
The numbering system for the overall wiring diagram is the same as above

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

Example : (1) Indicates Relay Block No.1

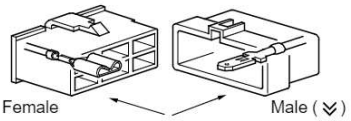
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



[G] : Indicates related system.

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



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

[J] : Indicates a shielded cable.



[K] : Indicates and located on ground point.

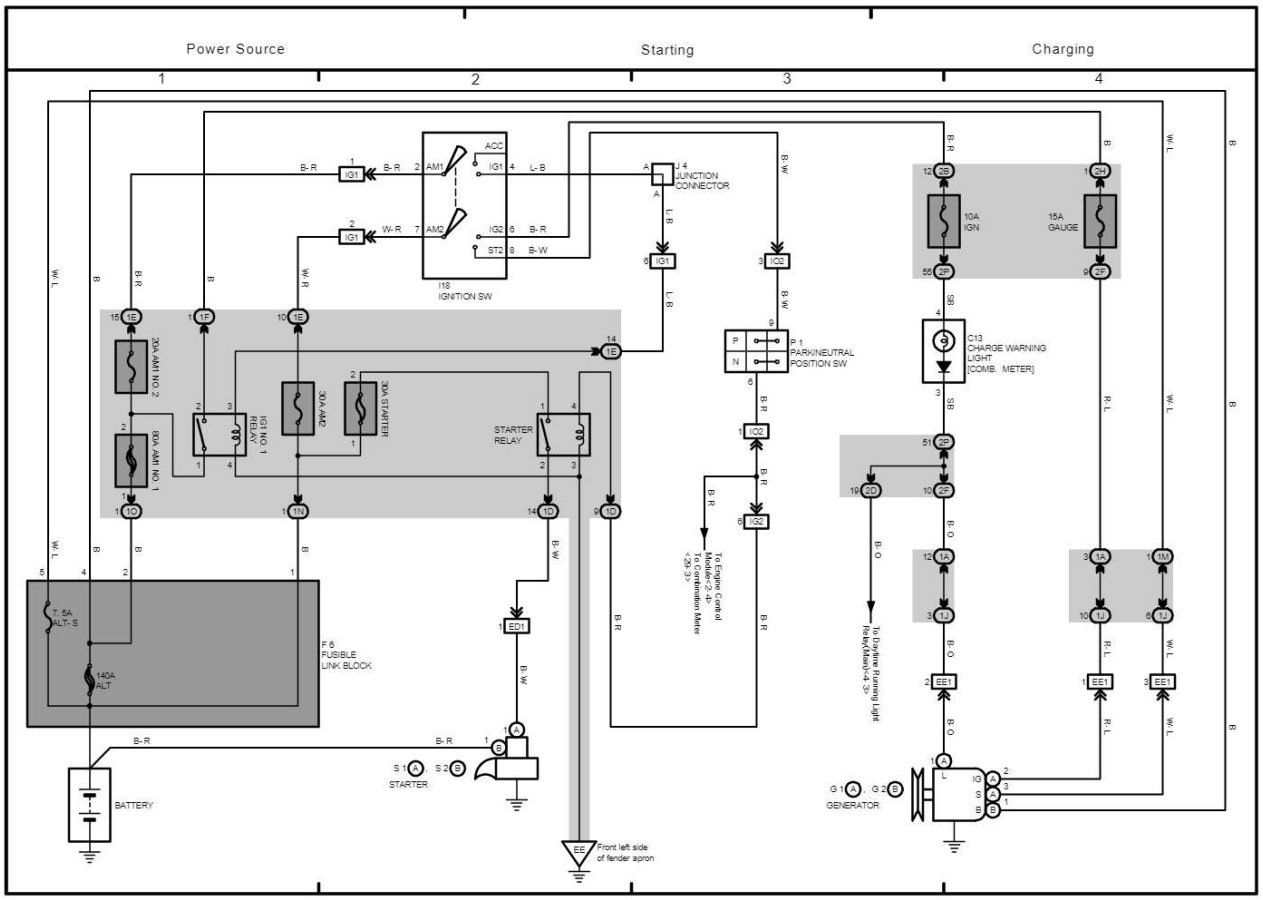
[L] : The same code occuring on the next page indicates that the wire harness is continuous.

M

SYSTEM INDEX

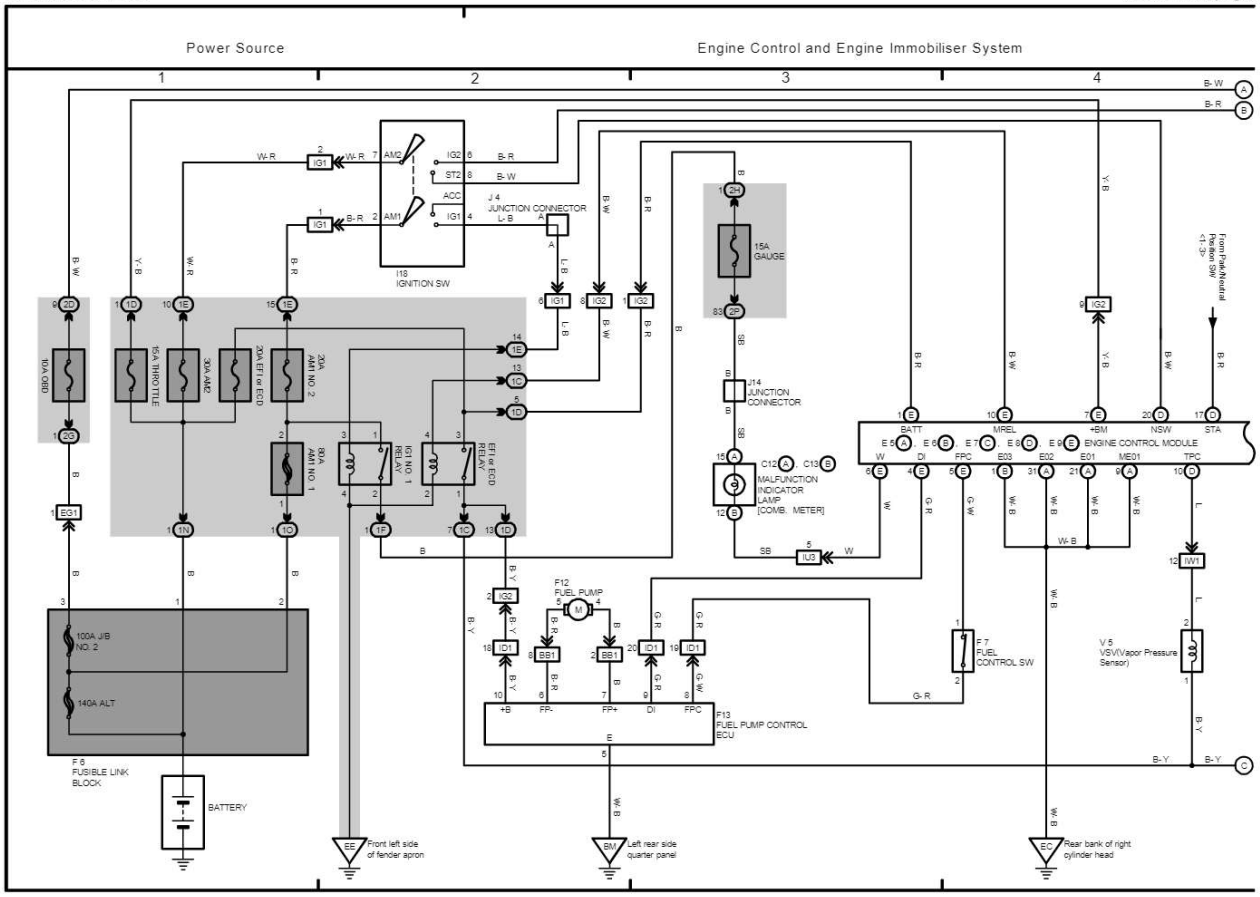
SYSTEMS	LOCATION	SYSTEMS	LOCATION
ABS	15-3	Moon Roof	25-4
Auto Antenna	11-3	Power Outlet	23-2
Automatic Light Control	9-4	Power Rear Quarter Window	24-3
Back-Up Light	8-2	Power Seat	20-3
Center Differential Lock	16-3	Power Source	1~31-1
Charging	1-4	Power Tilt and Power Telescopic	21-3
Cigarette Lighter	26-2	Power Window	19-3
Clock	23-4	Radio and Player	28-3
Combination Meter	29-3	Rear Air Conditioning	31-3
Condenser Fan	30-2	Rear Differential Lock	17-3
Cruise Control	13-2	Rear Heater (w/o Rear Air Conditioning)	27-3
Door Lock Control	9-12	Rear Window Defogger and Mirror Heater	24-2
Electronically Controlled Transmission and A/T Indicator	13-3	Rear Wiper and Washer	9-2
Engine Control and Engine Immobiliser System	2-3	Remote Control Mirror	22-3
Front Air Conditioning	30-4	Seat Heater	26-3
Front Fog Light	4-2	Shift Lock	11-2
Front Wiper and Washer	10-2	SRS	12-3
Headlight	4-3	Starting	1-2
Horn	10-4	Stop Light	8-3
Ignition	3-3	Taillight	6-3
Illumination	7-3	Theft Deterrent	18-3
Interior Light	9-6	Turn Signal and Hazard Warning Light	5-3
Key Reminder and Seat Belt Warning	25-2	VSC	14-2
Light Auto Turn Off	22-2	Wireless Door Lock Control	9-19

1 LAND CRUISER ELECTRICAL WIRING DIAGRAM

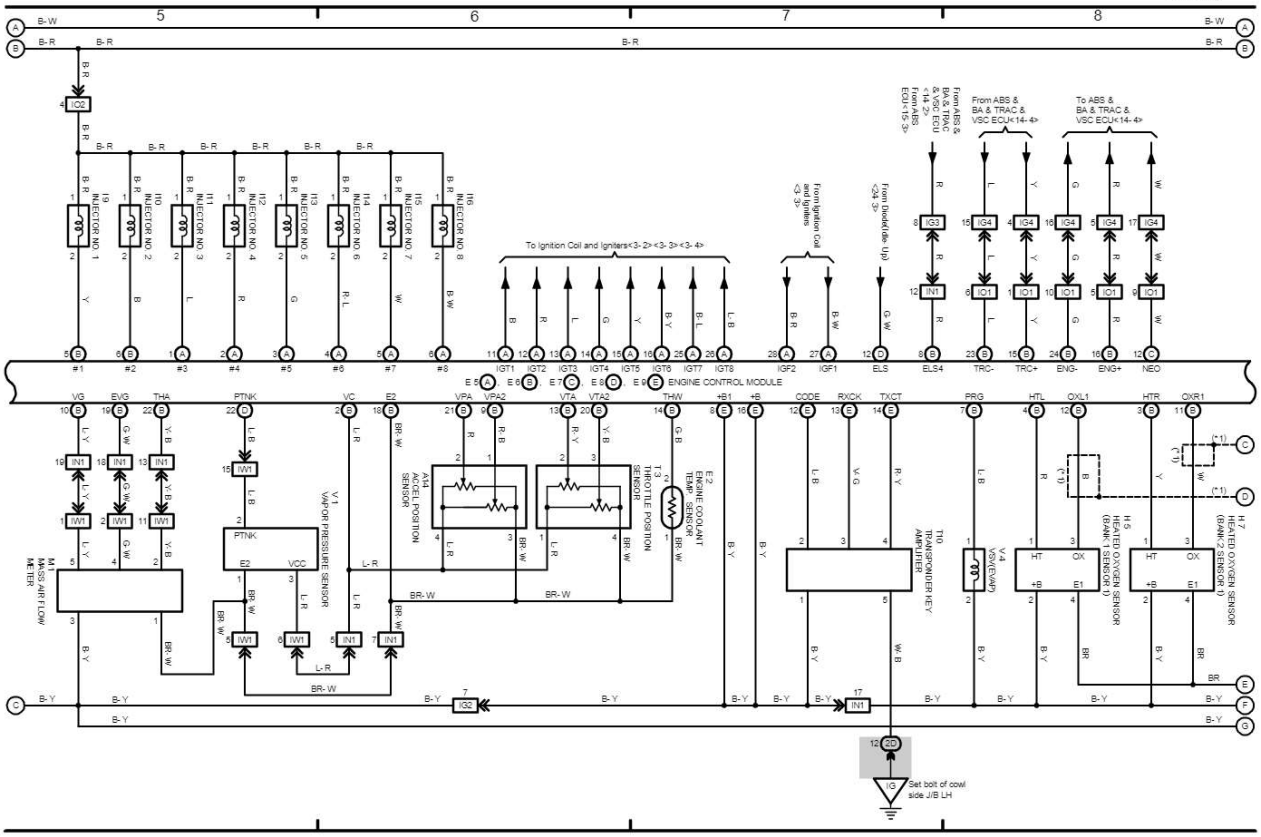


M

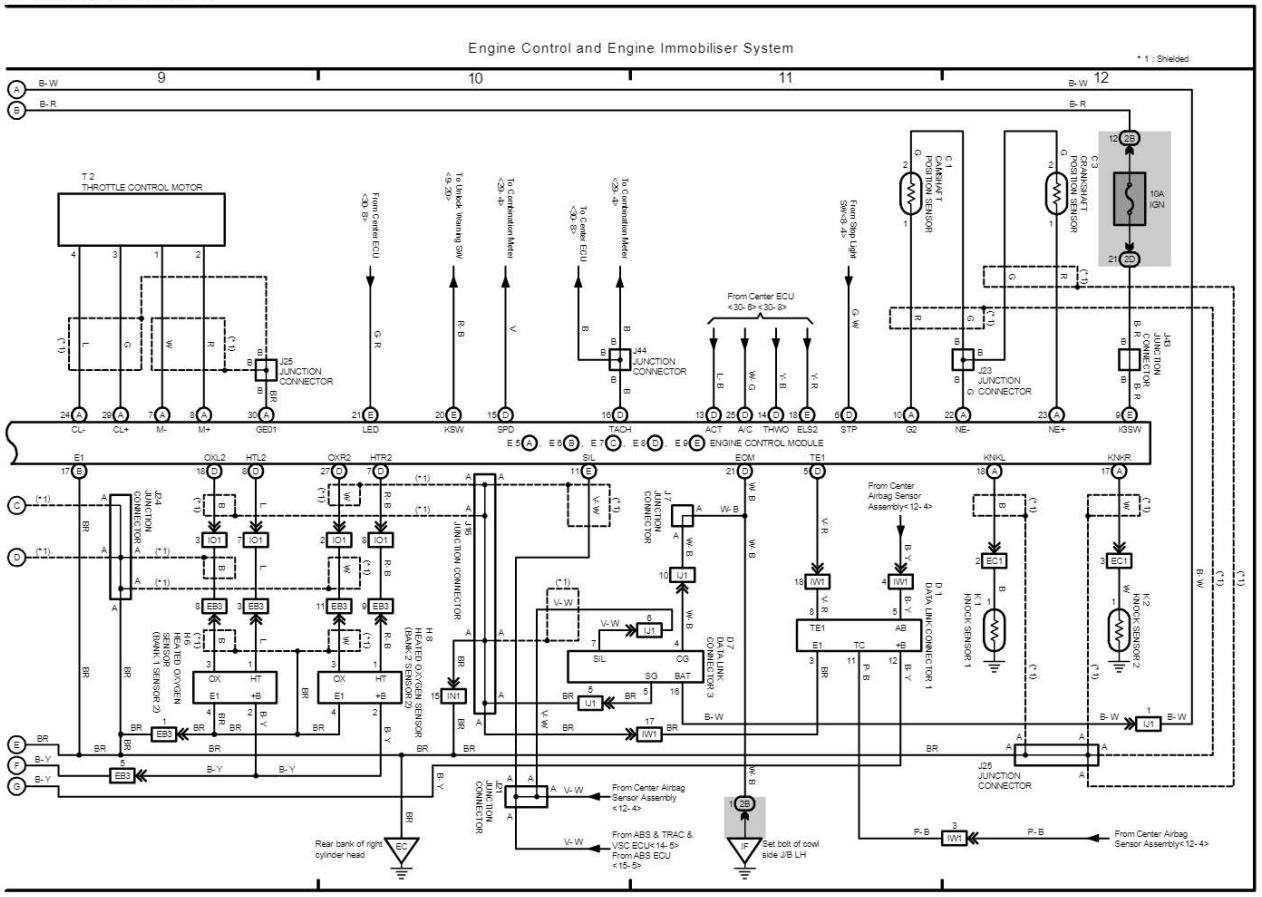
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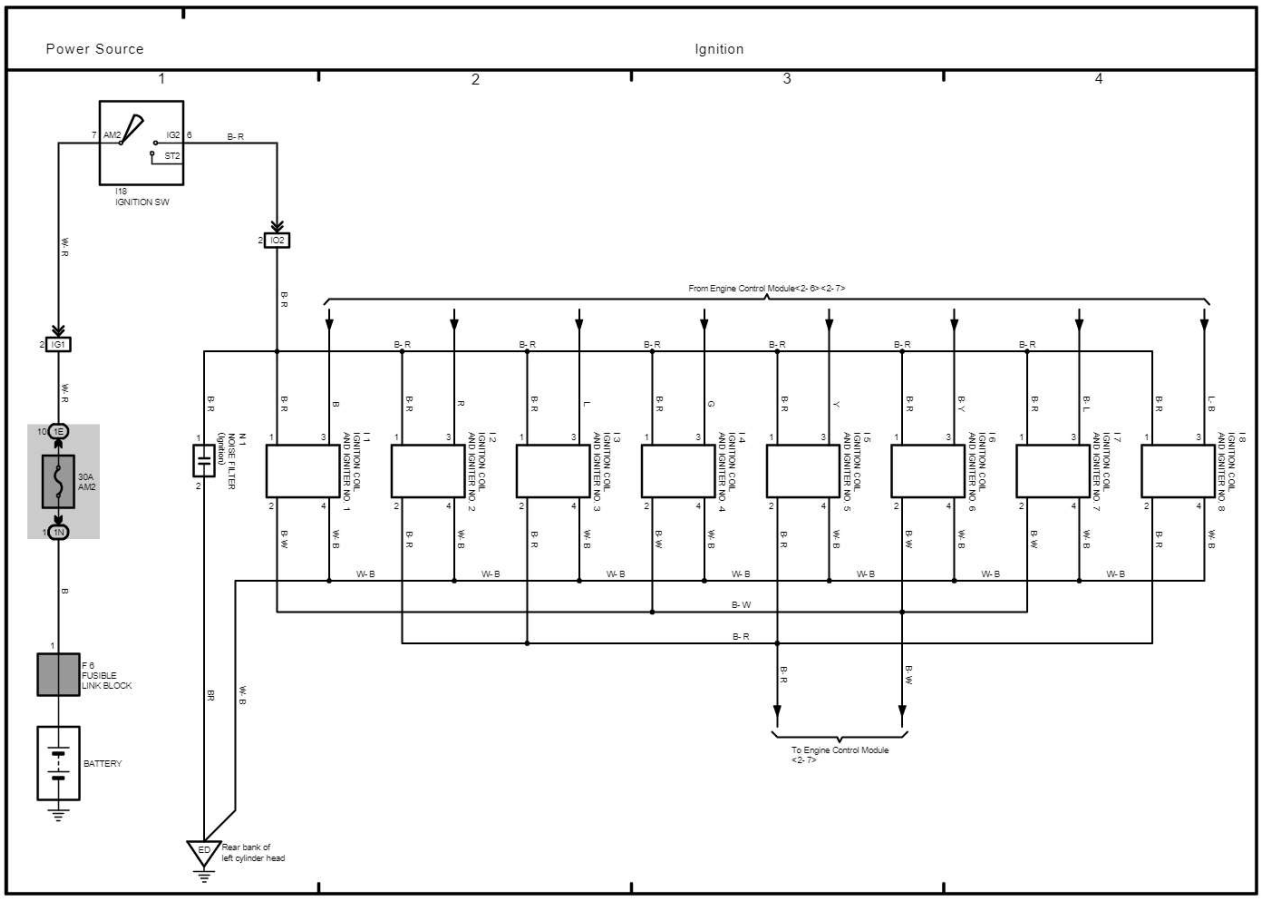


Engine Control and Engine Immobiliser System



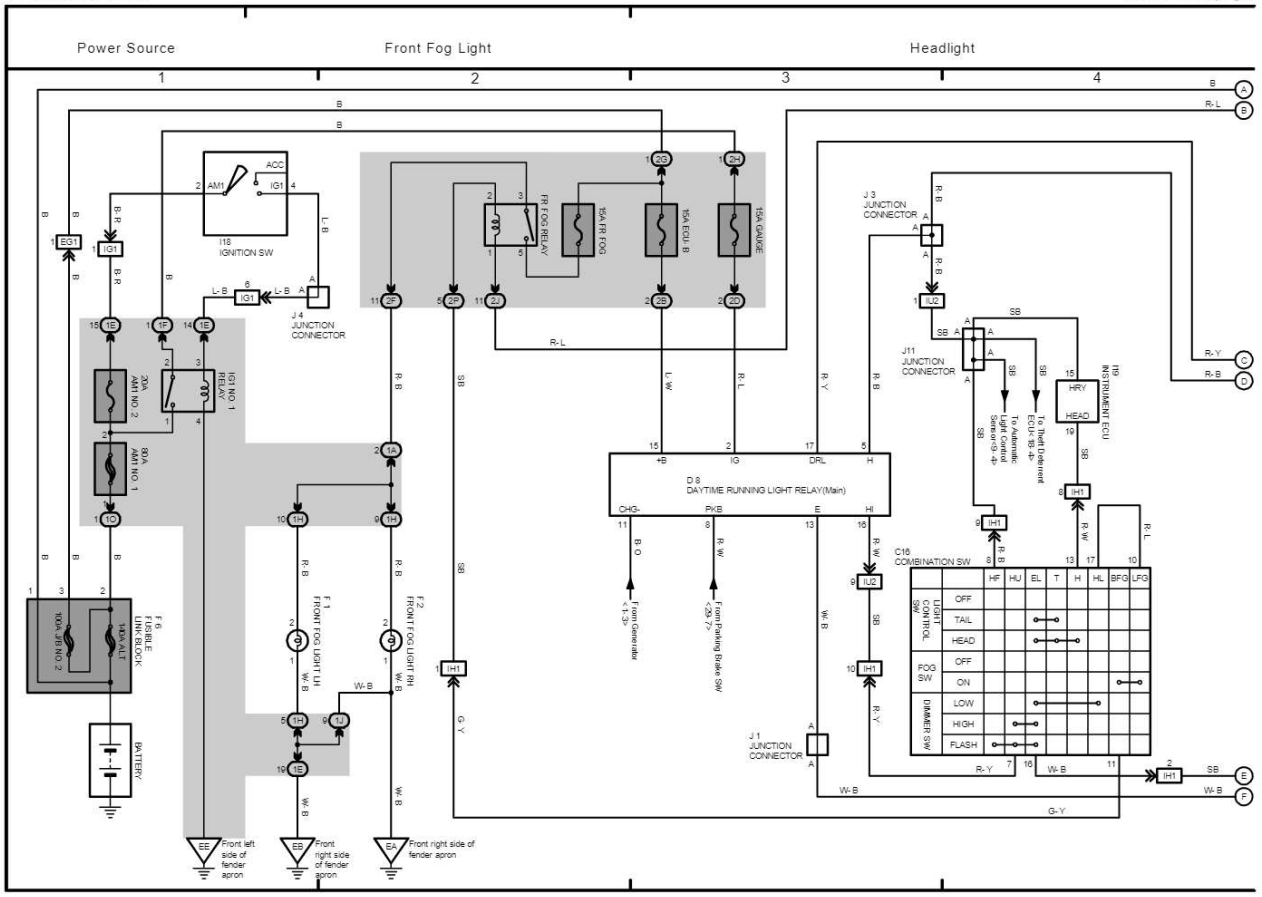
2 LAND CRUISER (Cont' d)

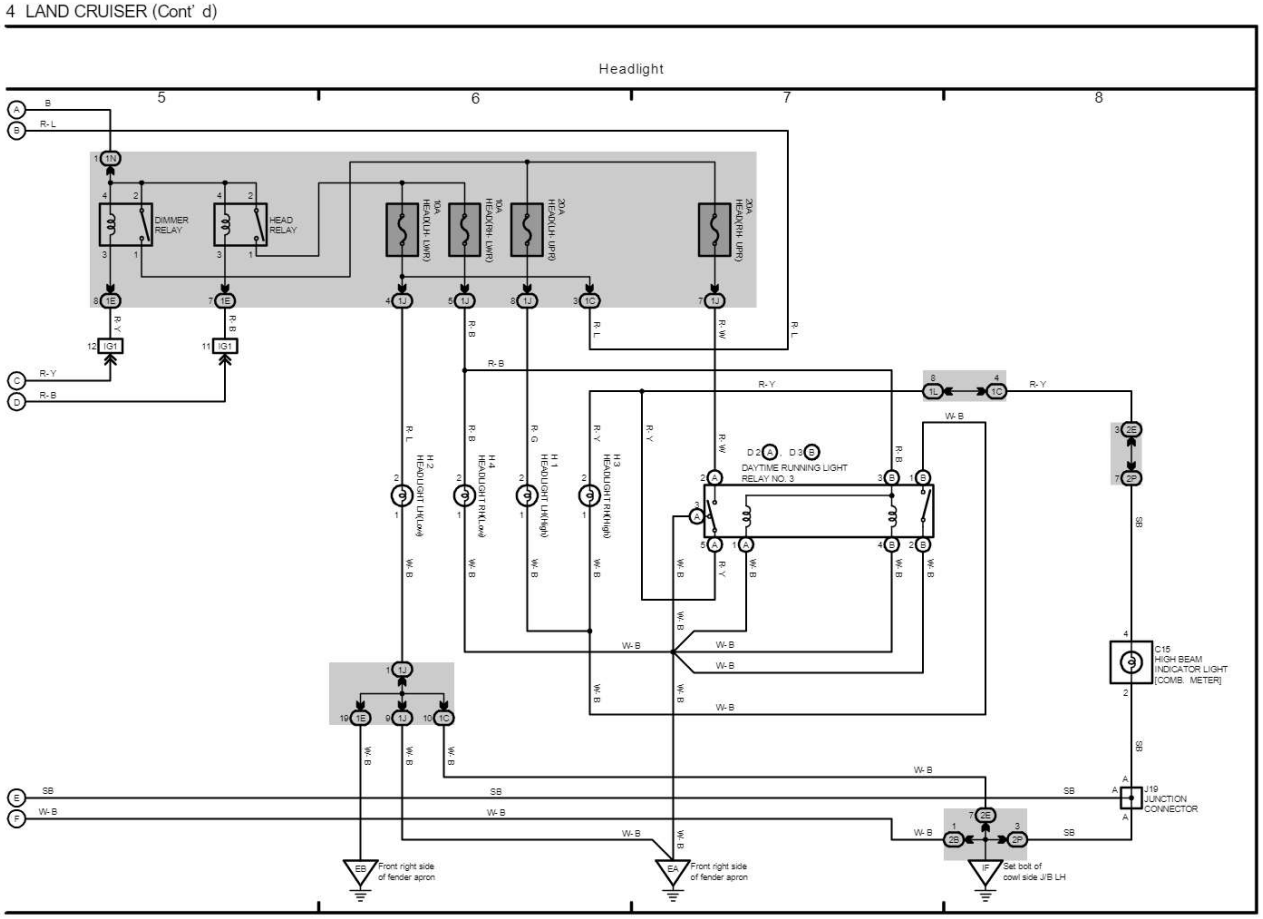


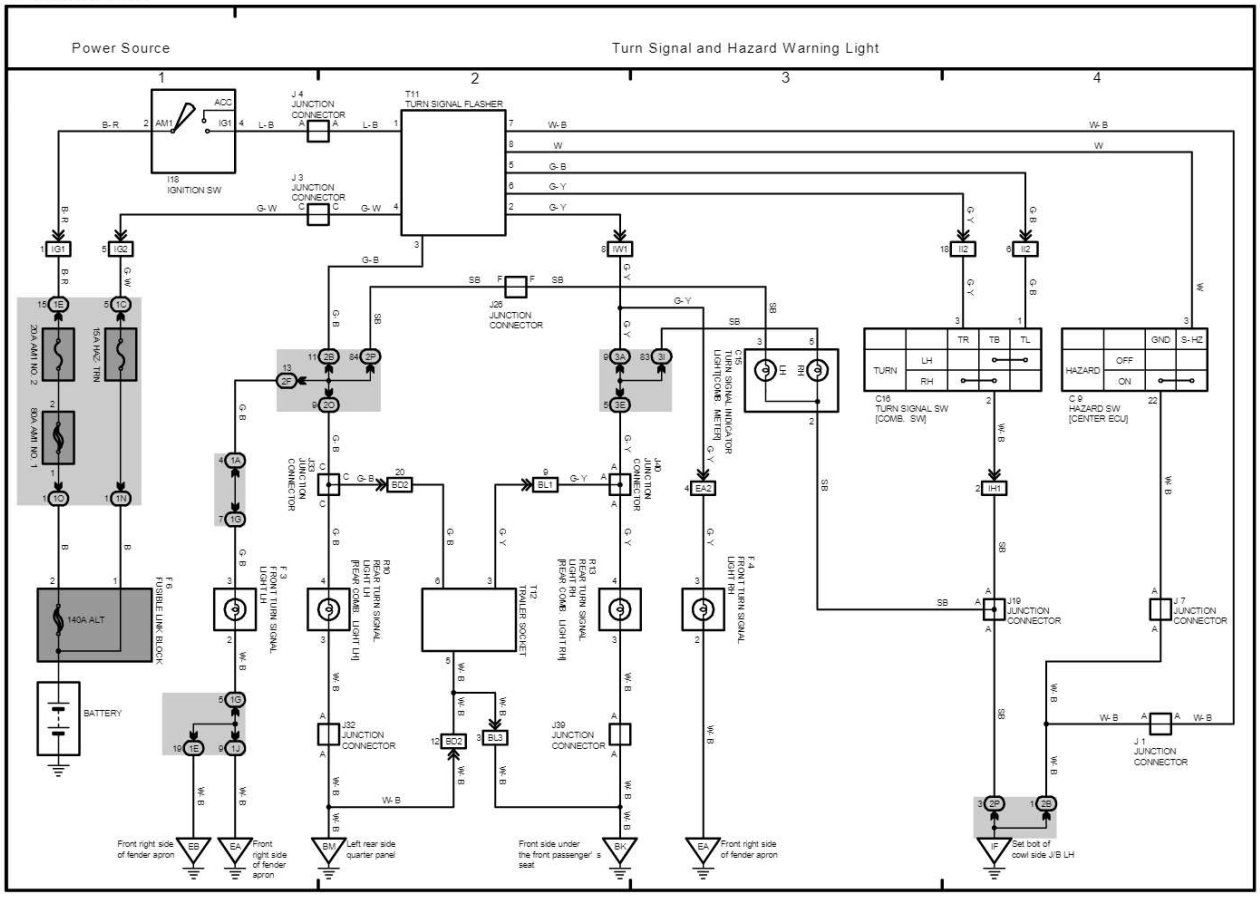

Power Source
Ignition
1
2
3
4
I18
IGNITION SW
AM2
IG2
ST2
IG2
IG1
1E
1N
30A
AM2
F 6
FUSIBLE
LINK BLOCK
BATTERY
N 1
NOISE FILTER
(Ignition)
I 1
IGNITION COIL
AND IGNITER NO. 1
I 2
IGNITION COIL
AND IGNITER NO. 2
I 3
IGNITION COIL
AND IGNITER NO. 3
I 4
IGNITION COIL
AND IGNITER NO. 4
I 5
IGNITION COIL
AND IGNITER NO. 5
I 6
IGNITION COIL
AND IGNITER NO. 6
I 7
IGNITION COIL
AND IGNITER NO. 7
I 8
IGNITION COIL
AND IGNITER NO. 8
From Engine Control Module<2- 6> <2- 7>
To Engine Control Module
<2- 7>
ED
Rear bank of
left cylinder head

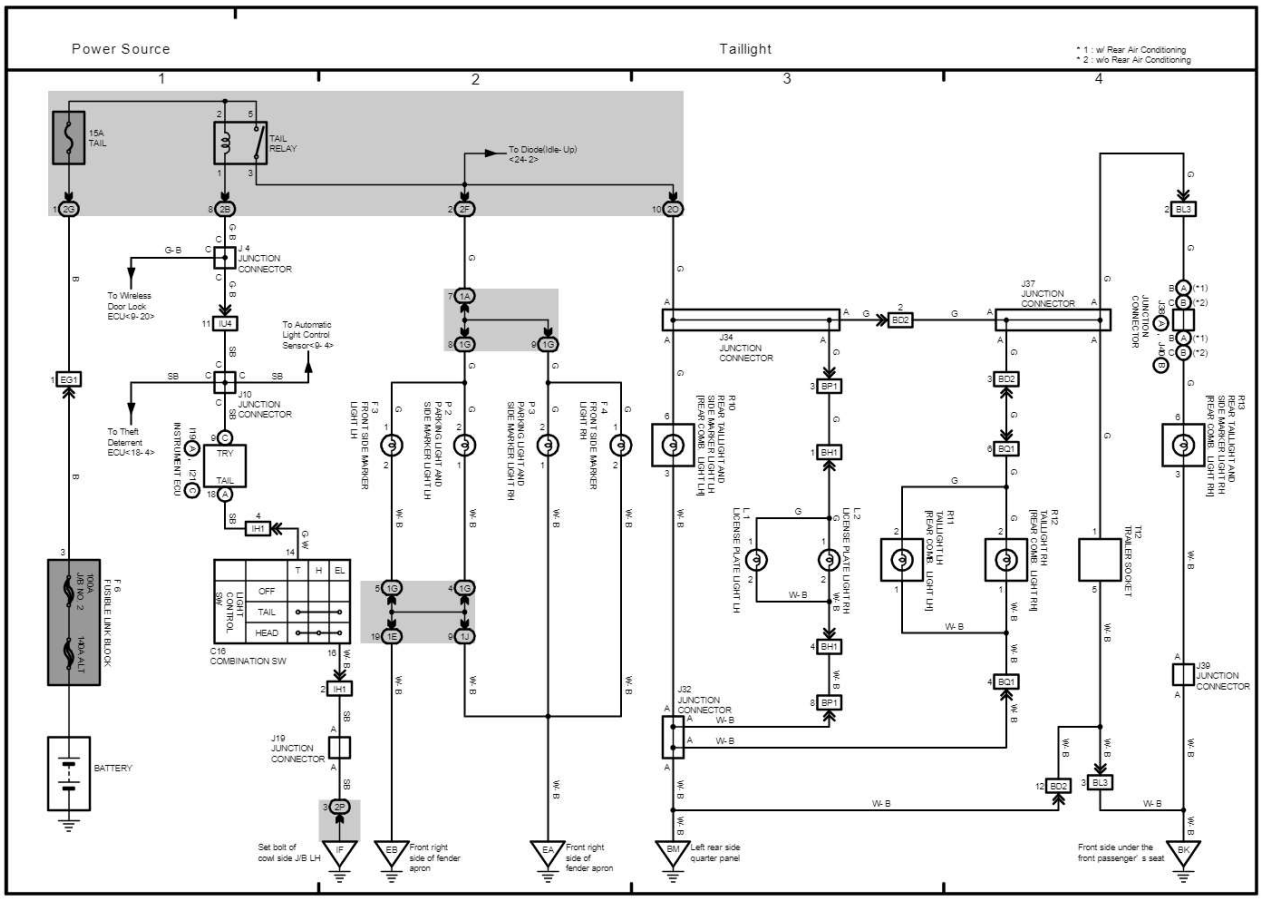
4 LAND CRUISER

(Cont. next page)

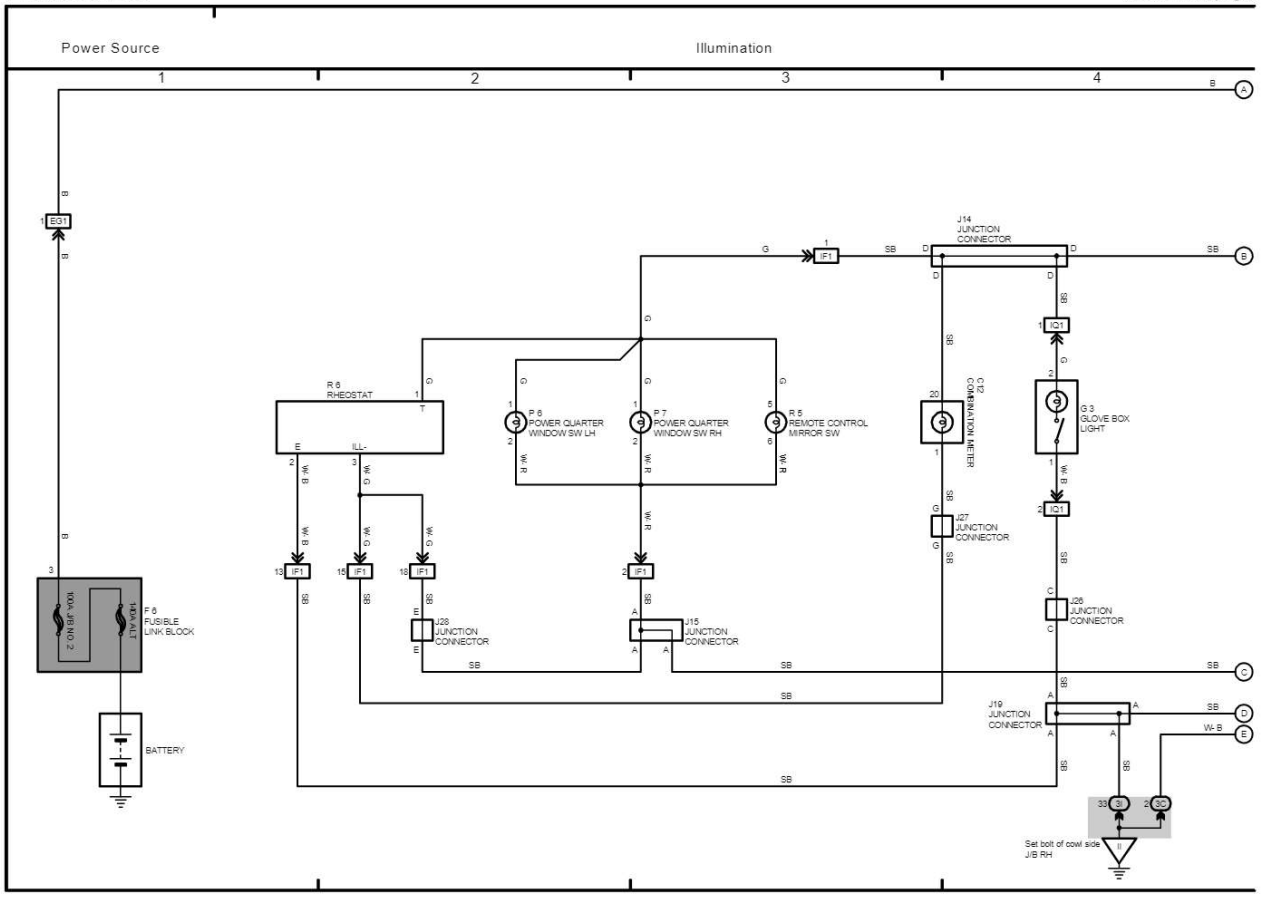


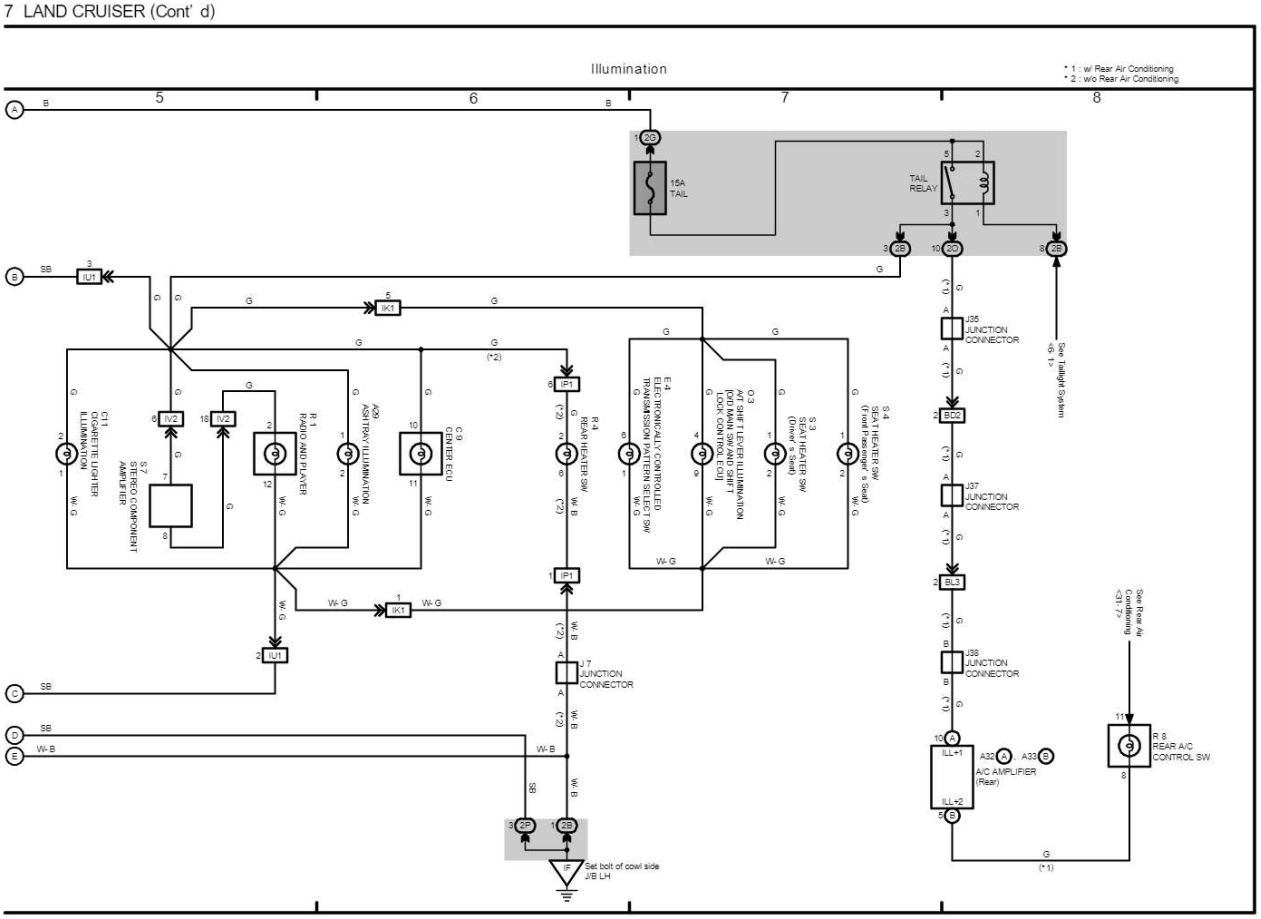

Headlight
5
6
7
8
DIMMER RELAY
HEAD RELAY
10A HEAD(LH-LWR)
10A HEAD(RH-LWR)
20A HEAD(LH-UPR)
20A HEAD(RH-UPR)
IG1
DAYTIME RUNNING LIGHT RELAY NO. 3
H1 HEADLIGHT LH(High)
H2 HEADLIGHT LH(Low)
H3 HEADLIGHT RH(High)
H4 HEADLIGHT RH(Low)
C15 HIGH BEAM INDICATOR LIGHT [COMB. METER]
J19 JUNCTION CONNECTOR
Front right side of fender apron
Front right side of fender apron
Set bolt of cowl side J/B LH


Power Source
Turn Signal and Hazard Warning Light
1
2
3
4
ACC
IG1
AM1
I16
IGNITION SW
J 4
JUNCTION
CONNECTOR
J 3
JUNCTION
CONNECTOR
T11
TURN SIGNAL FLASHER
J26
JUNCTION
CONNECTOR
20A AM1 NO. 2
15A HAZ. TRN
60A AM1 NO. 1
140A ALT
F6
FUSIBLE LINK BLOCK
BATTERY
F3
FRONT TURN SIGNAL LIGHT LH
R50
REAR TURN SIGNAL LIGHT LH (REAR COMB. LIGHT LH)
J33
JUNCTION
CONNECTOR
J32
JUNCTION
CONNECTOR
T12
TRAILER SOCKET
R13
REAR TURN SIGNAL LIGHT RH (REAR COMB. LIGHT RH)
J40
JUNCTION
CONNECTOR
J39
JUNCTION
CONNECTOR
D23
TURN SIGNAL INDICATOR LIGHT (COMB. METER)
F4
FRONT TURN SIGNAL LIGHT RH
C16
TURN SIGNAL SW
(COMB. SW)
TURN
LH
RH
TR
TB
TL
C 9
HAZARD SW
(CENTER ECU)
HAZARD
OFF
ON
GND
S-HZ
J19
JUNCTION
CONNECTOR
J 7
JUNCTION
CONNECTOR
J 1
JUNCTION
CONNECTOR
Front right side of fender apron
Front right side of fender apron
Left rear side quarter panel
Front side under the front passenger's seat
Front right side of fender apron
Set bolt of cowl side J1B LH

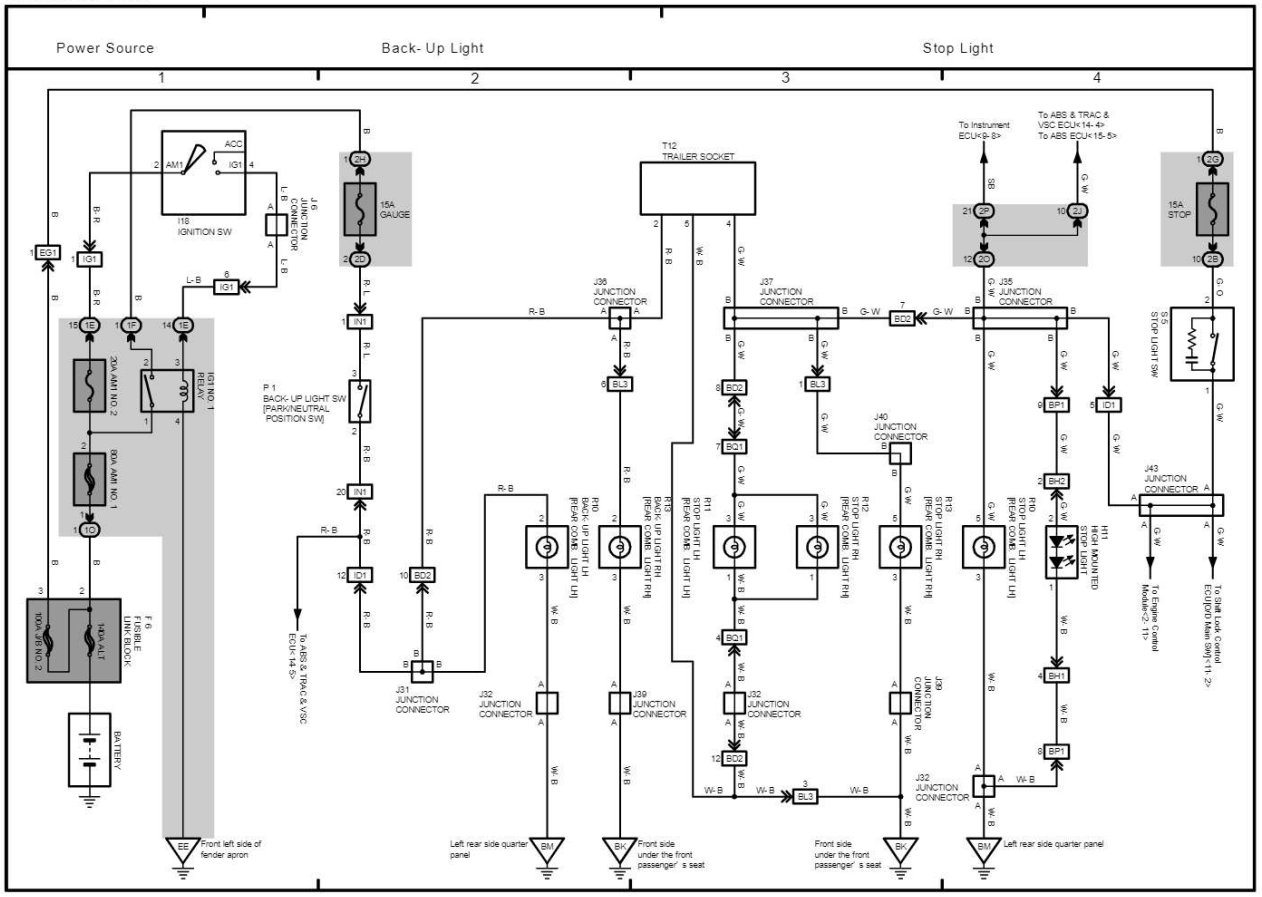

Power Source
Taillight
* 1 : w/ Rear Air Conditioning
* 2 : w/o Rear Air Conditioning
1
2
3
4
15A TAIL
TAIL RELAY
To Diode(Idle- Up) <24- 2>
J 4 JUNCTION CONNECTOR
To Wireless Door Lock ECU<9- 20>
To Automatic Light Control Sensor<9- 4>
J10 JUNCTION CONNECTOR
To Theft Deterrent ECU<18- 4>
INSTRUMENT ECU
TRY
TAIL
C16 COMBINATION SW
LIGHT CONTROL SW
OFF
TAIL
HEAD
F6 FUSIBLE LINK BLOCK
100A J/B NO. 2
140A-ALT
BATTERY
J19 JUNCTION CONNECTOR
Set bolt of cowl side J/B LH
F3 FRONT SIDE MARKER LIGHT LH
P2 PARKING LIGHT AND SIDE MARKER LIGHT LH
P3 PARKING LIGHT AND SIDE MARKER LIGHT RH
F4 FRONT SIDE MARKER LIGHT RH
Front right side of fender apron
Front right side of fender apron
J34 JUNCTION CONNECTOR
R10 REAR TAILLIGHT AND SIDE MARKER LIGHT LH [REAR COMB. LIGHT LH]
L1 LICENSE PLATE LIGHT LH
L2 LICENSE PLATE LIGHT RH
J32 JUNCTION CONNECTOR
Left rear side quarter panel
J37 JUNCTION CONNECTOR
R11 TAILLIGHT LH [REAR COMB. LIGHT LH]
R12 TAILLIGHT RH [REAR COMB. LIGHT RH]
T12 TRAILER SOCKET
J38 JUNCTION CONNECTOR
J39 JUNCTION CONNECTOR
R13 REAR TAILLIGHT AND SIDE MARKER LIGHT RH [REAR COMB. LIGHT RH]
Front side under the front passenger' s seat

(Cont. next page)

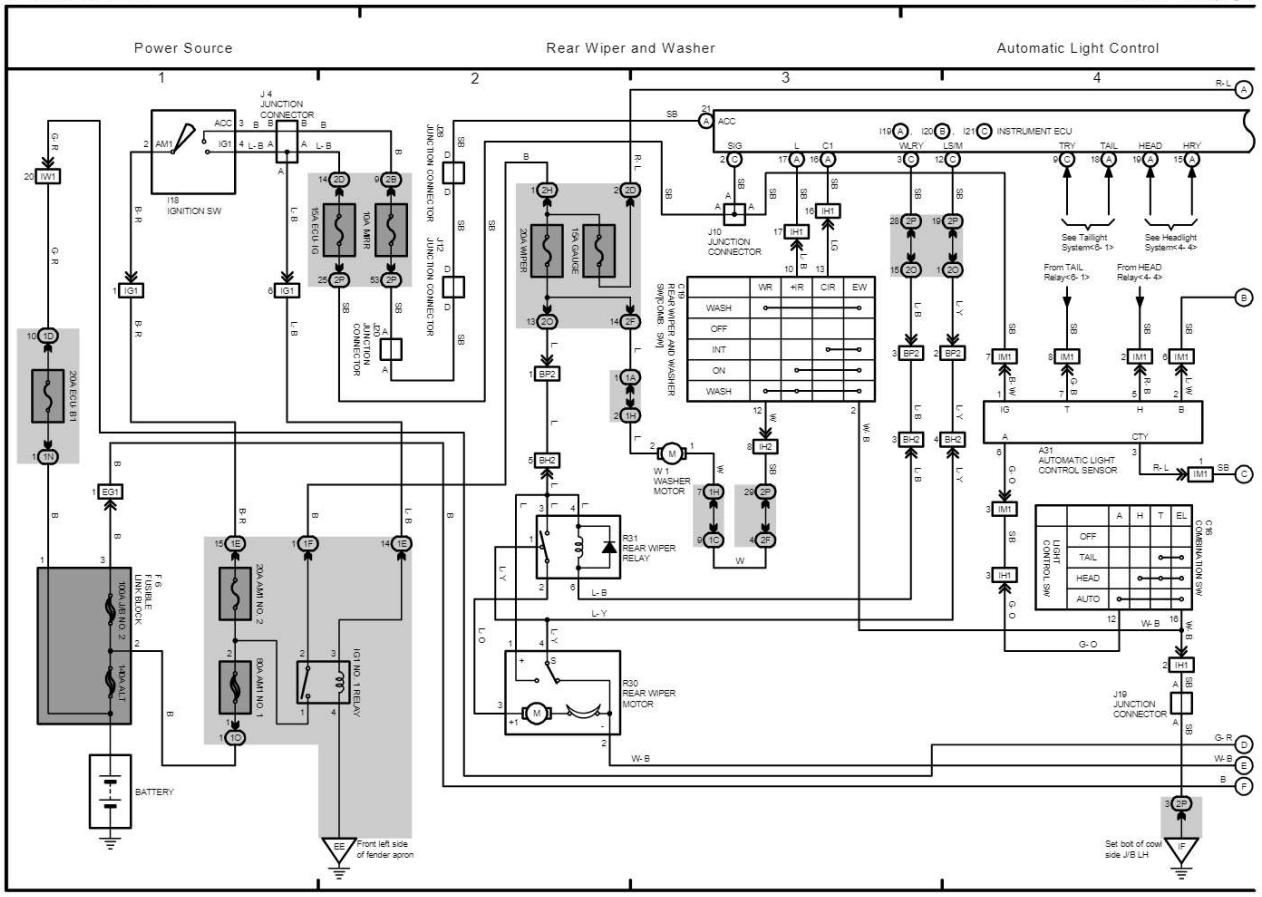



Illumination
* 1 : w/ Rear Air Conditioning
* 2 : w/o Rear Air Conditioning
15A TAIL
TAIL RELAY
J35 JUNCTION CONNECTOR
J37 JUNCTION CONNECTOR
J38 JUNCTION CONNECTOR
J7 JUNCTION CONNECTOR
A/C AMPLIFIER (Rear)
REAR A/C CONTROL SW
C11 CIGARETTE LIGHTER COIL ILLUMINATION
S7 STEREO COMPONENT AMPLIFIER
R1 RADIO AND PLAYER
A29 ASHTRAY ILLUMINATION
C9 CENTER ECU
R4 REAR HEATER SW
E4 ELECTRONICALLY CONTROLLED TRANSMISSION PATTERN SELECT SW
O3 A/T SHIFT LEVER ILLUMINATION (OD MAIN SW AND SHIFT LOCK CONTROL ECU)
S3 SEAT HEATER SW (Driver's Seat)
S4 SEAT HEATER SW (Front Passenger's Seat)
Set bolt of cowl side J/B LH
See Taillight System
See Rear Air Conditioning

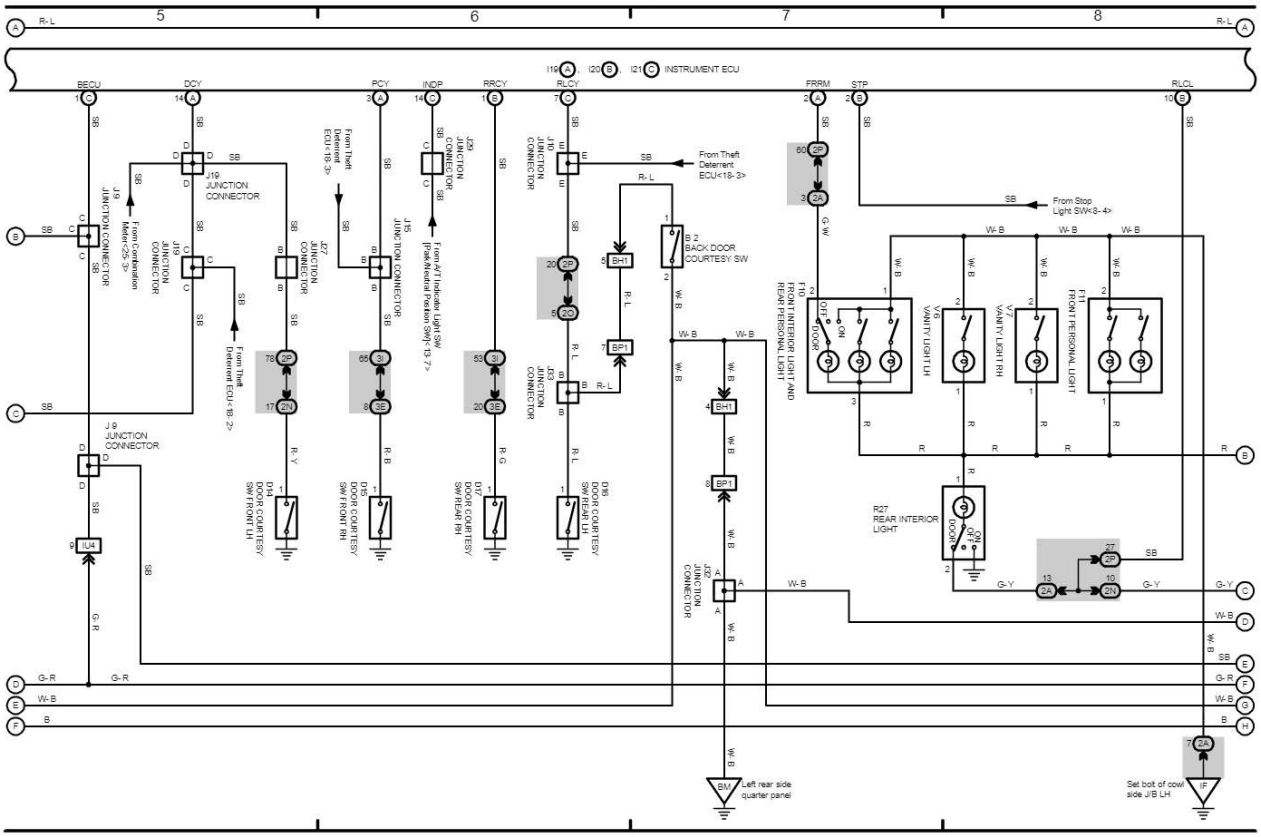
M


Power Source
Back- Up Light
Stop Light
1
2
3
4
ACC
IG1
AM1
I16
IGNITION SW
J6
JUNCTION CONNECTOR
15A GAUGE
2H
2D
IN1
IG1
EG1
1G
1E
1F
20A AM1 NO.2
IG1 NO.1 RELAY
60A AM1 NO.1
100A J/B NO.2
140A ALT
F 6 FUSIBLE LINK BLOCK
BATTERY
P 1
BACK- UP LIGHT SW [PARK/NEUTRAL POSITION SW]
ID1
BD2
J31 JUNCTION CONNECTOR
J32 JUNCTION CONNECTOR
J36 JUNCTION CONNECTOR
BL3
J39 JUNCTION CONNECTOR
T12
TRAILER SOCKET
J37 JUNCTION CONNECTOR
J40 JUNCTION CONNECTOR
BQ1
J35 JUNCTION CONNECTOR
BP1
BH2
BH1
J43 JUNCTION CONNECTOR
2G
2B
15A STOP
S5
STOP LIGHT SW
To Instrument ECU<9- 8>
To ABS & TRAC & VSC ECU<14- 4>
To ABS ECU<15- 5>
To ABS & TRAC & VSC ECU<14- 3>
To Engine Control Module<2- 11>
To Shift Lock Control ECU(D) (Main SW)<11- 2>
R11 STOP LIGHT LH [REAR COMB. LIGHT LH]
R10 BACK- UP LIGHT RH [REAR COMB. LIGHT RH]
R9 BACK- UP LIGHT LH [REAR COMB. LIGHT LH]
R12 STOP LIGHT RH [REAR COMB. LIGHT RH]
R13 STOP LIGHT LH [REAR COMB. LIGHT LH]
H11 HIGH MOUNTED STOP LIGHT
Front left side of fender apron
Left rear side quarter panel
Front side under the front passenger' s seat
Front side under the front passenger' s seat
Left rear side quarter panel

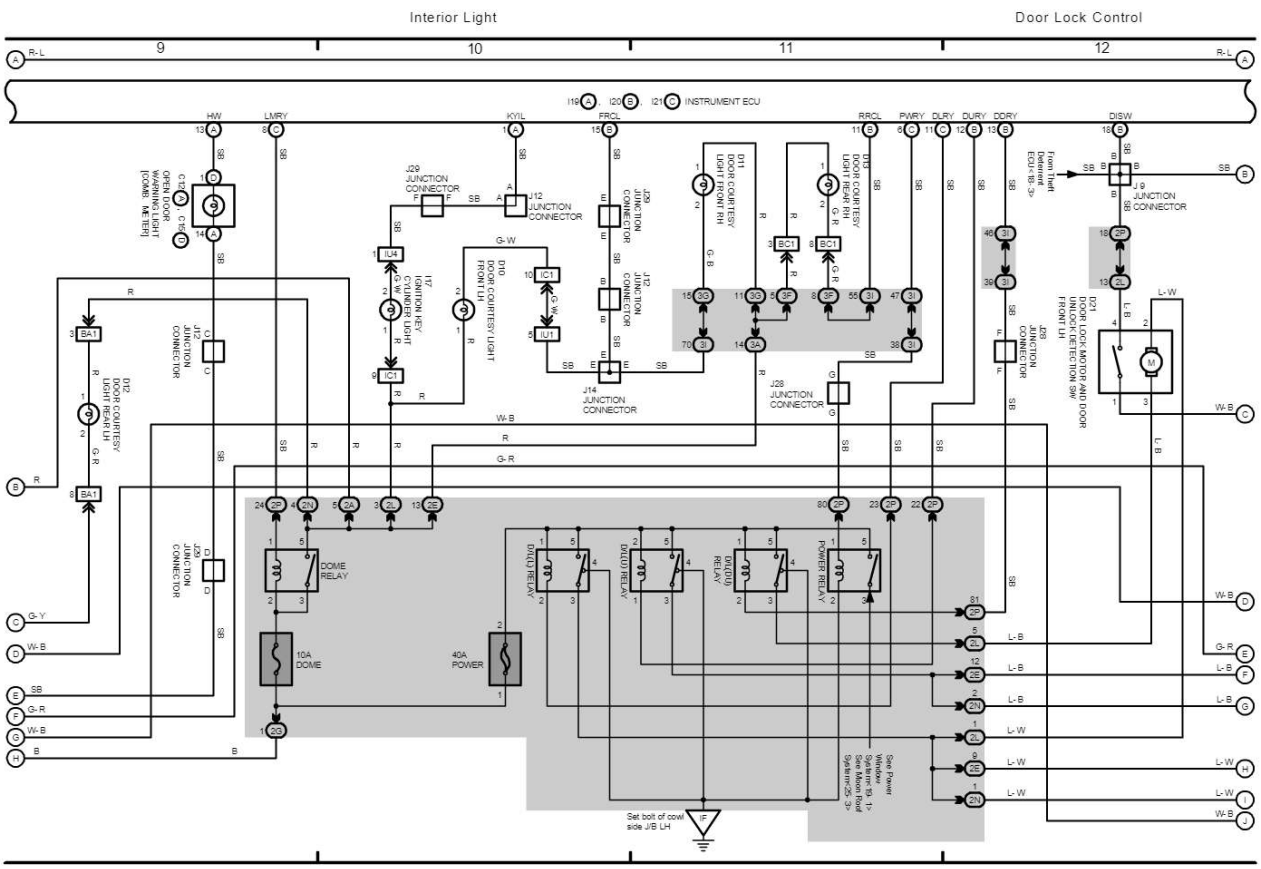
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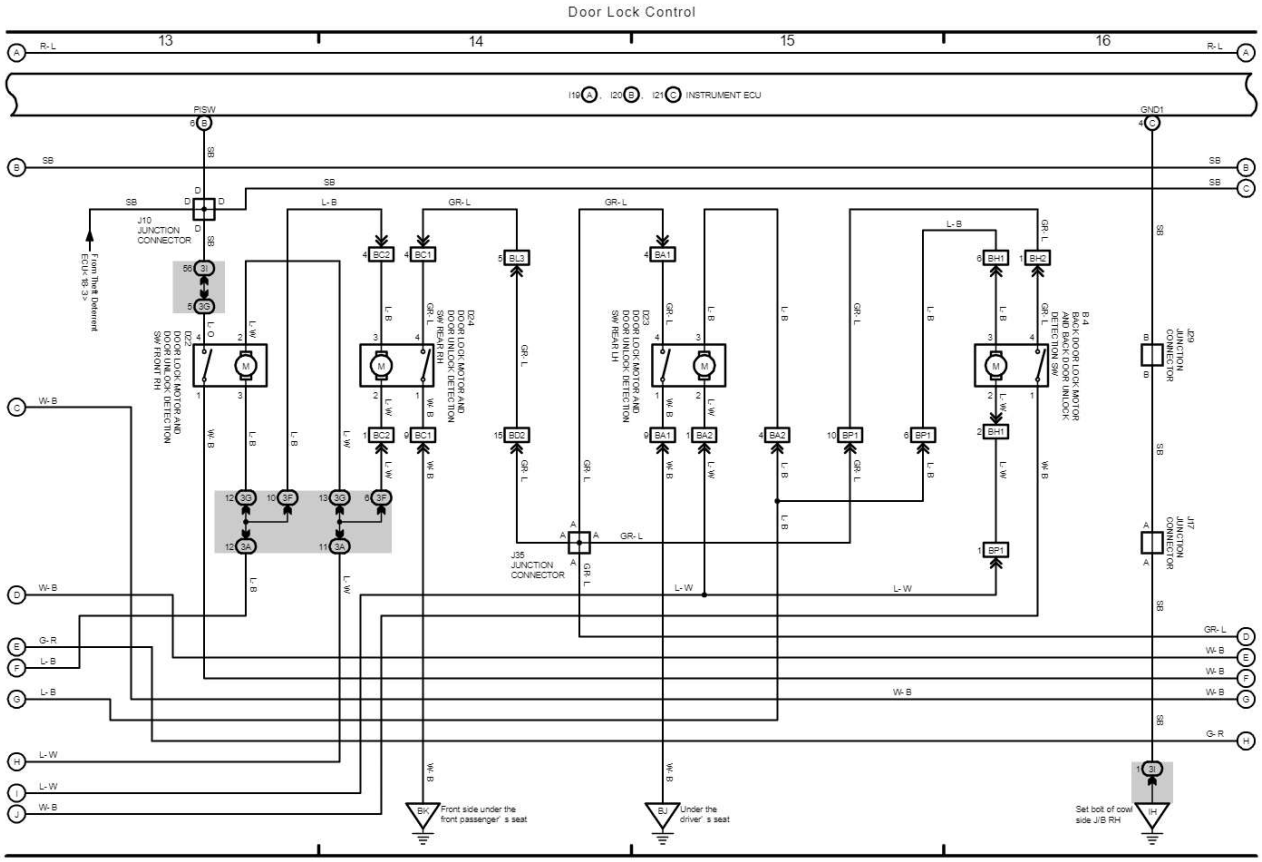


Interior Light



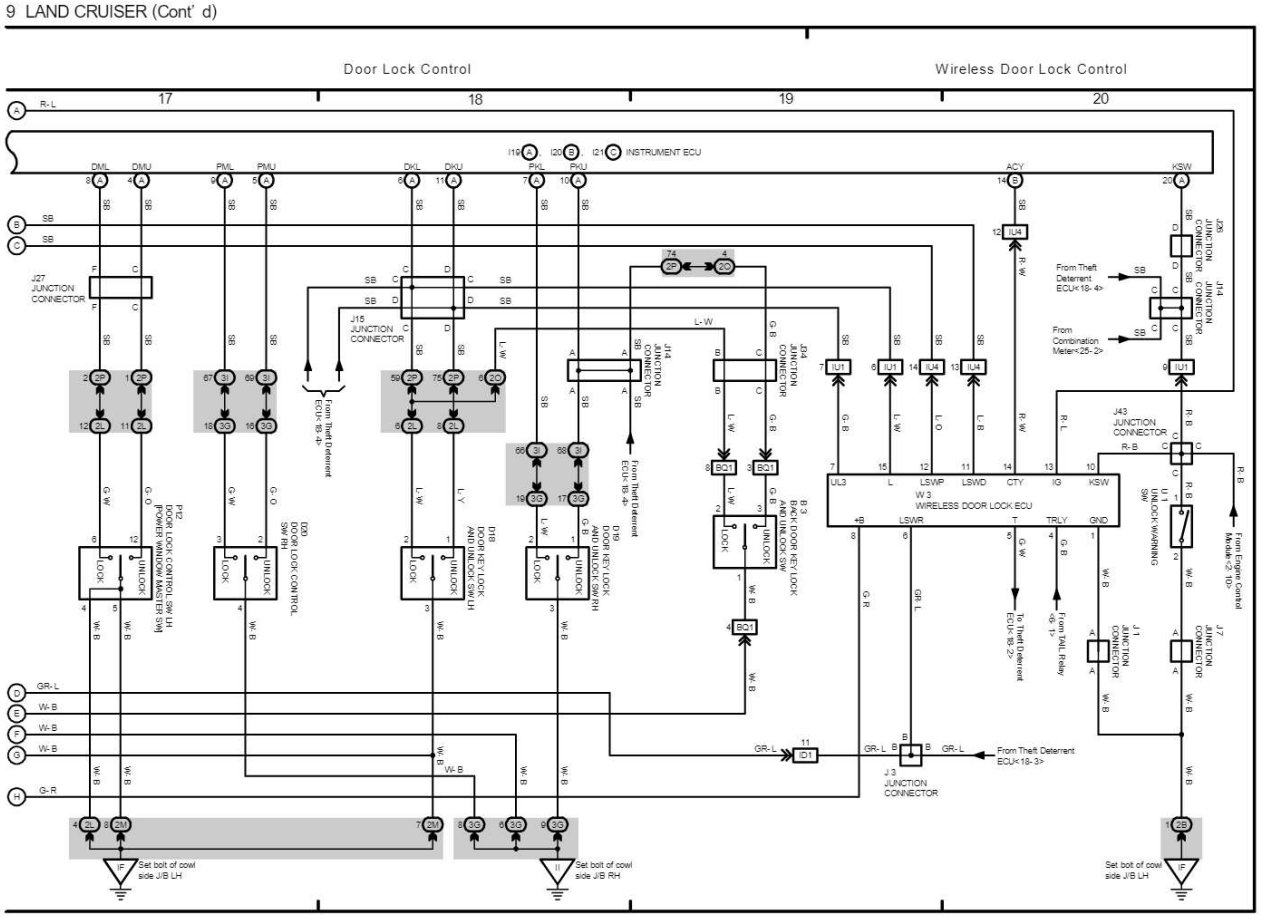
M

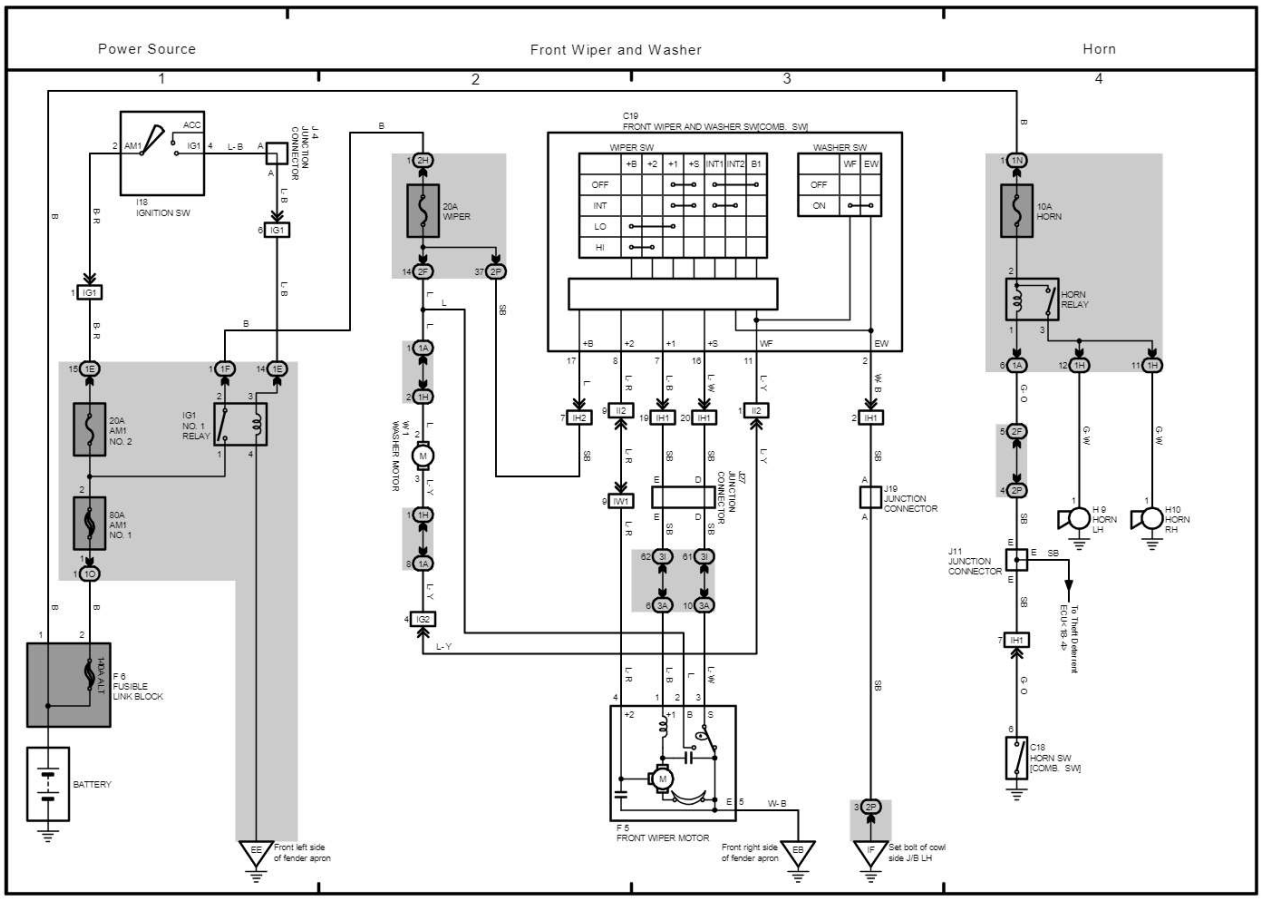

Interior Light
Door Lock Control
9
10
11
12
R-L
I19 I20 I21 INSTRUMENT ECU
HW
LMRY
KYIL
FRCL
RRCL
PWRY
DLRY
DURY
DDRY
DISW
OPEN DOOR WARNING LIGHT [COMBI METER]
J29 JUNCTION CONNECTOR
J12 JUNCTION CONNECTOR
D11 DOOR COURTESY LIGHT FRONT RH
D13 DOOR COURTESY LIGHT REAR RH
From Theft Deterrent ECU <B-3>
J 9 JUNCTION CONNECTOR
J12 JUNCTION CONNECTOR
J29 JUNCTION CONNECTOR
J12 JUNCTION CONNECTOR
J14 JUNCTION CONNECTOR
J28 JUNCTION CONNECTOR
J28 JUNCTION CONNECTOR
D17 IGNITION KEY CYLINDER LIGHT
D10 DOOR COURTESY LIGHT FRONT LH
D21 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW FRONT LH
D12 DOOR COURTESY LIGHT REAR LH
J29 JUNCTION CONNECTOR
DOME RELAY
D/L(U) RELAY
D/L(D) RELAY
D/L(U) RELAY
POWER RELAY
10A DOME
40A POWER
Set bolt of cowl side J/B LH
See Power Window System <B-3, 1>
See Moon Roof System <S-3>
W-B
G-R
L-B
L-W
SB
R
G-W
G-Y
B

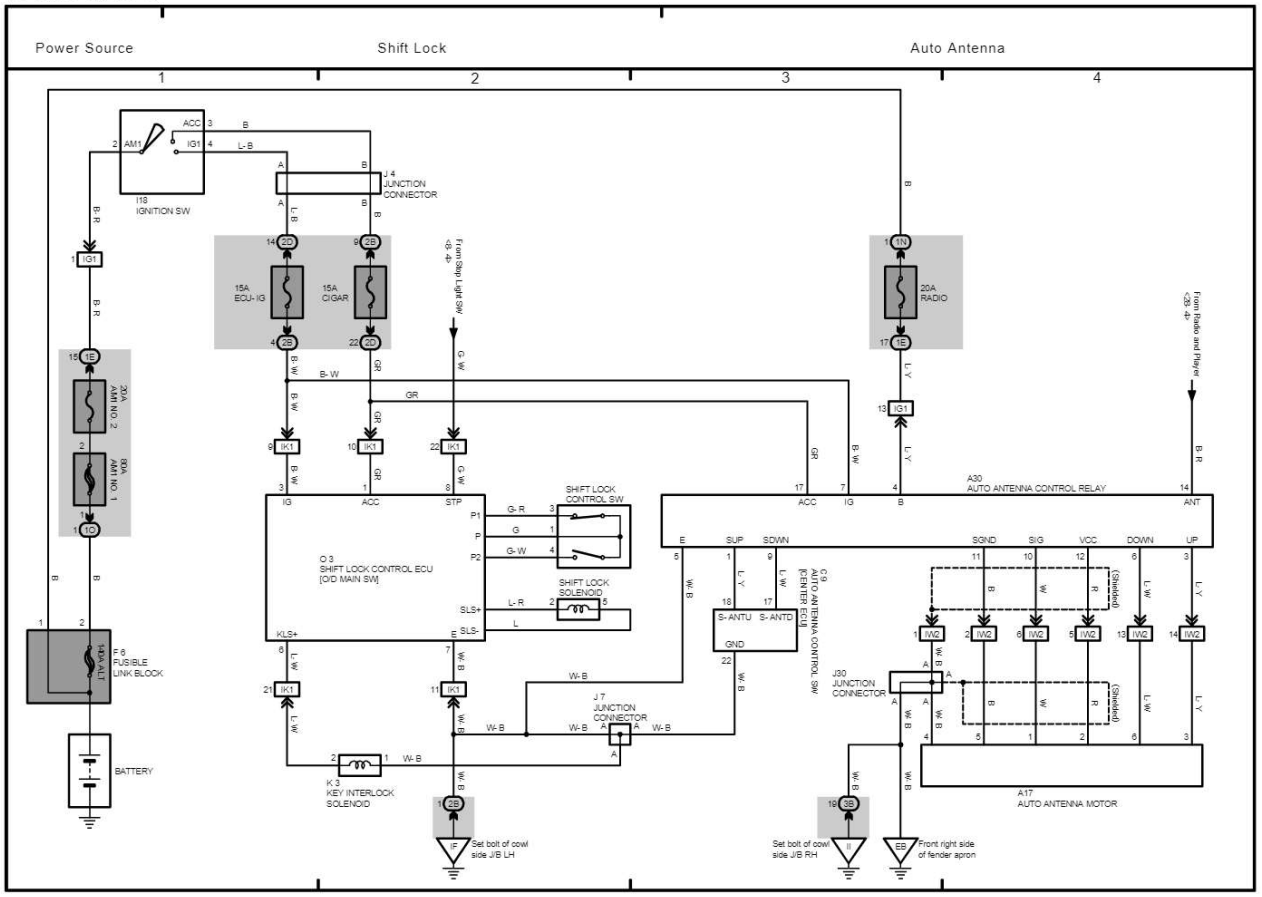

Door Lock Control
13
14
15
16
I19 A, I20 B, I21 C INSTRUMENT ECU
PSW
GND1
J10 JUNCTION CONNECTOR
J35 JUNCTION CONNECTOR
J29 JUNCTION CONNECTOR
J17 JUNCTION CONNECTOR
DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW FRONT RH
DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR RH
DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR LH
BACK DOOR LOCK MOTOR AND BACK DOOR UNLOCK DETECTION SW
Front Door Panel Assembly
Front Door Panel Assembly
Front Door Panel Assembly
Front Door Panel Assembly
BK Front side under the front passenger' s seat
BJ Under the driver' s seat
IH Set bolt of cowl side J/B RH

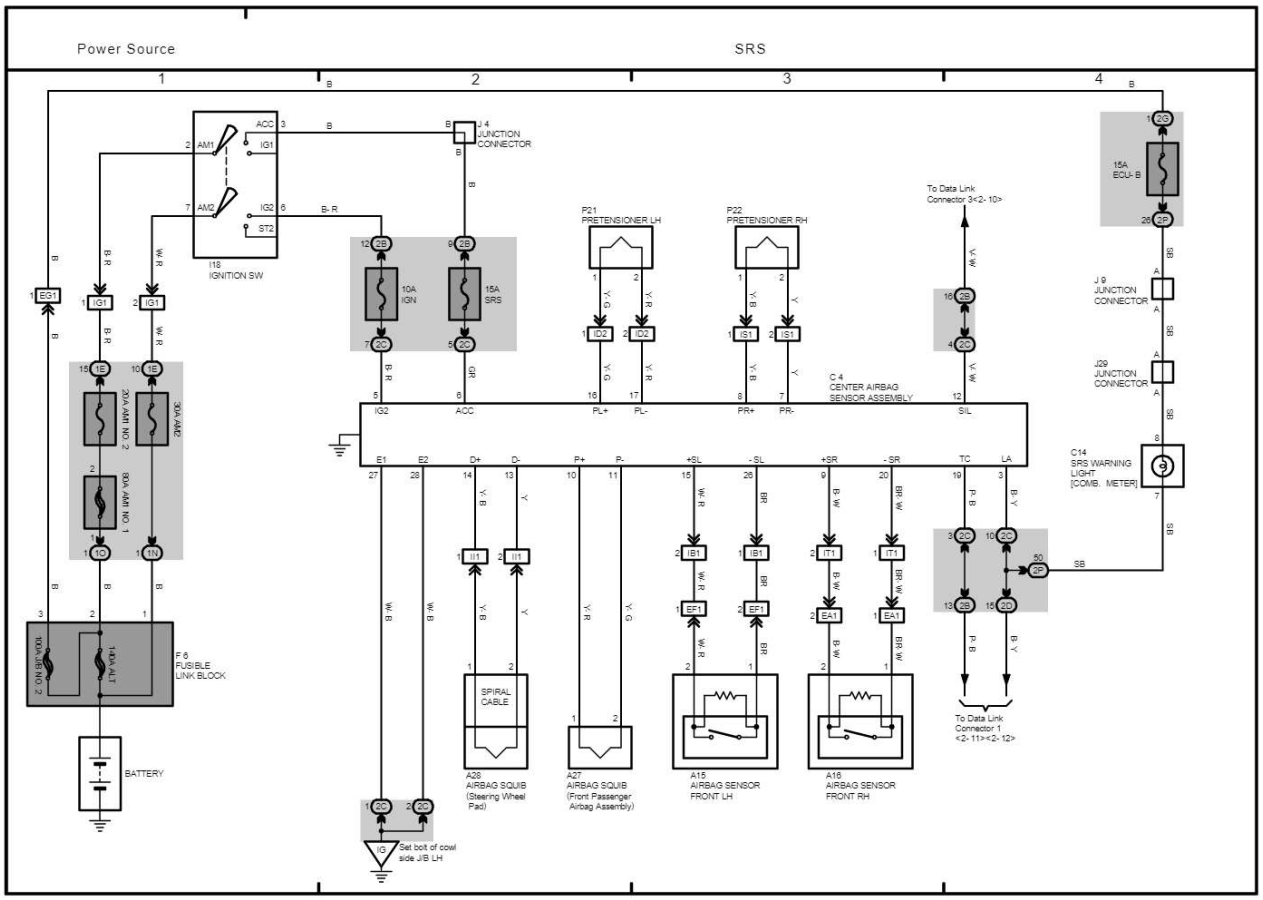
M

9 LAND CRUISER (Cont' d)



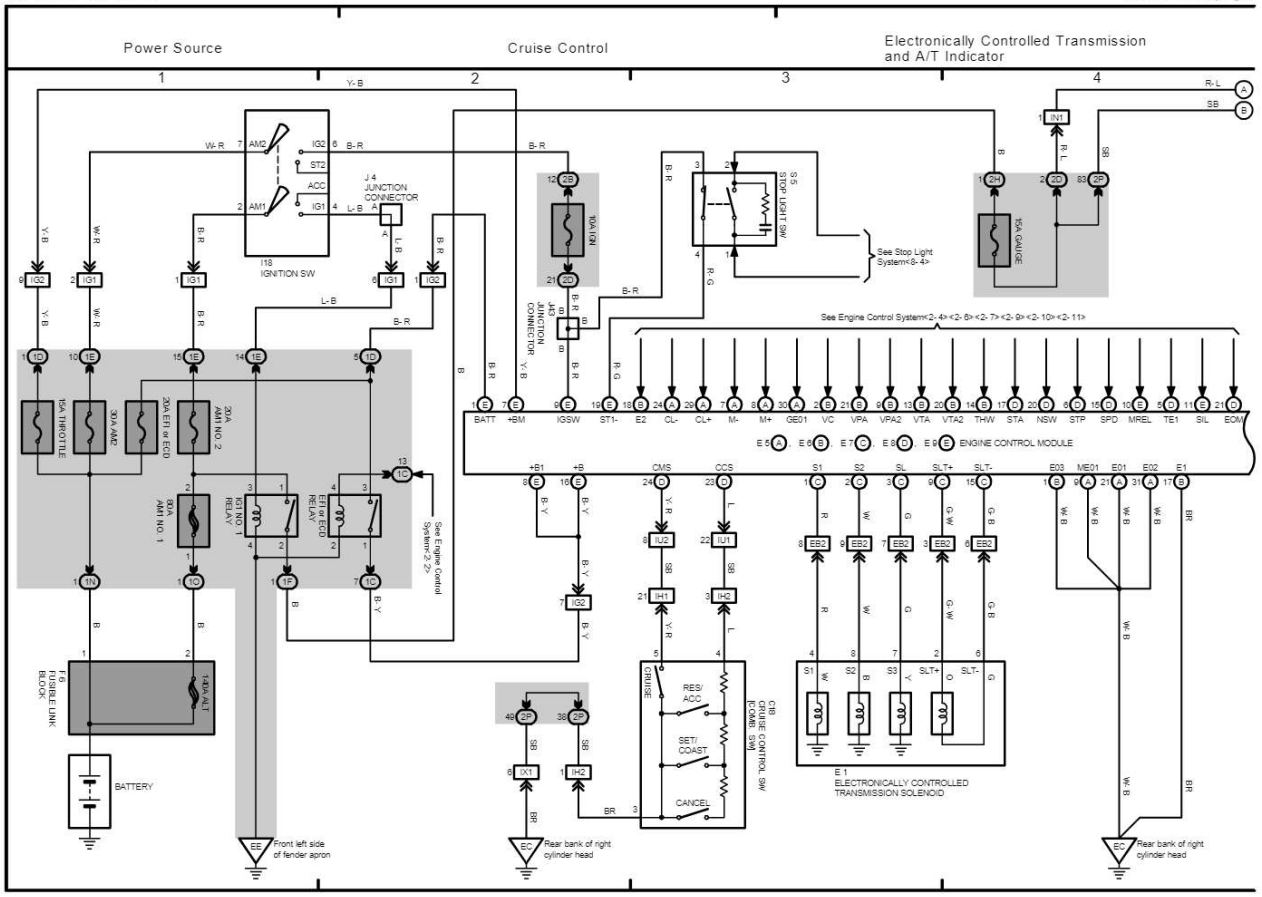

Power Source
Front Wiper and Washer
Horn
1
2
3
4
I18
IGNITION SW
ACC
IG1
AM1
START
I/P J/B CONNECTOR
20A AM1 NO. 2
80A AM1 NO. 1
IG1 NO. 1 RELAY
140A ALT
F 6
FUSIBLE LINK BLOCK
BATTERY
EE
Front left side of fender apron
20A WIPER
WASHER MOTOR
C19
FRONT WIPER AND WASHER SW[COMB. SW]
WIPER SW
WASHER SW
OFF
INT
LO
HI
ON
J27
JUNCTION CONNECTOR
F 5
FRONT WIPER MOTOR
EB
Front right side of fender apron
J19
JUNCTION CONNECTOR
IF
Set bolt of cowl side J/B LH
10A HORN
HORN RELAY
H 9
HORN LH
H10
HORN RH
J11
JUNCTION CONNECTOR
To Theft Deterrent ECU

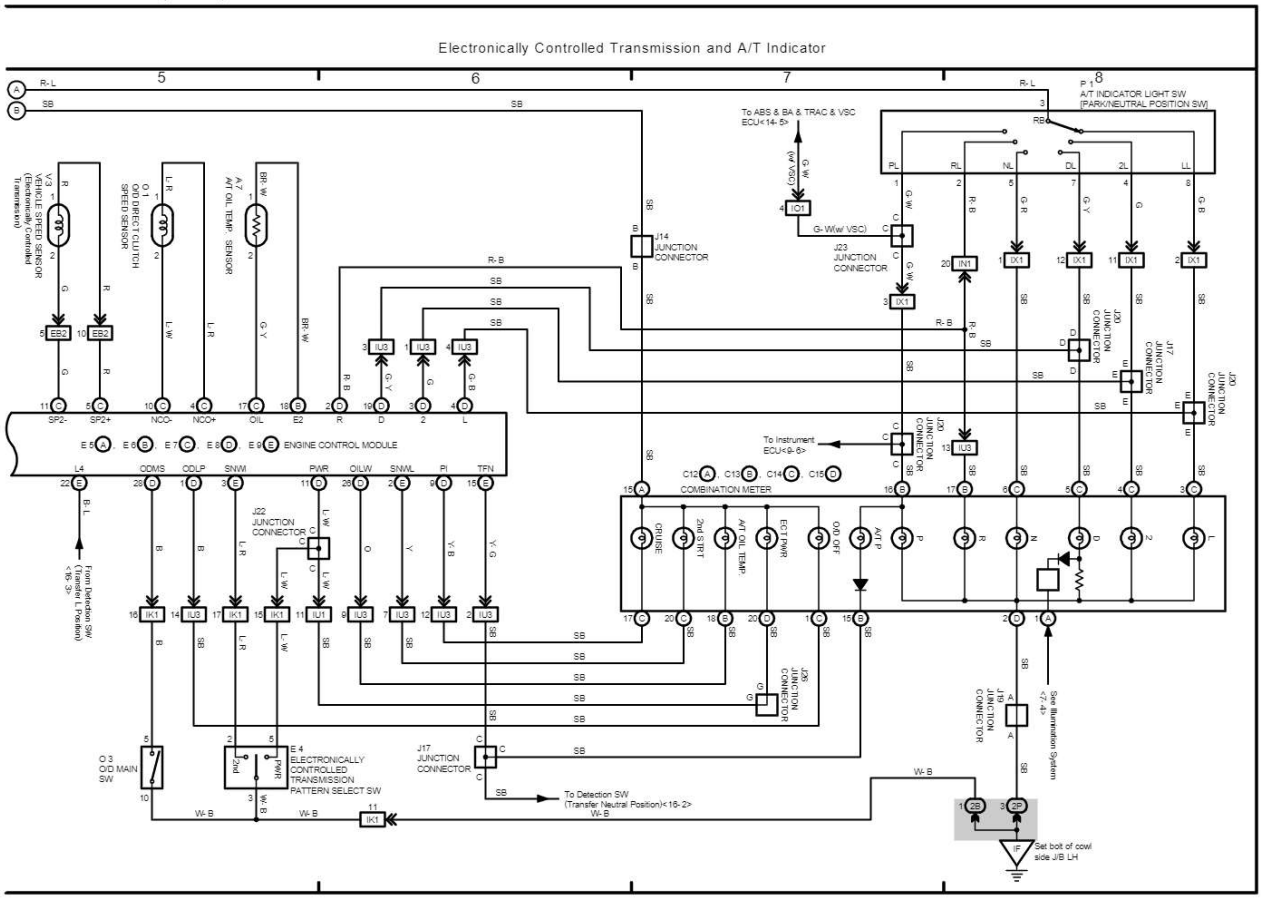

Power Source
Shift Lock
Auto Antenna
1
2
3
4
I18
IGNITION SW
J 4
JUNCTION
CONNECTOR
15A
ECU- IG
15A
CIGAR
20A
RADIO
20A
AM1 NO. 2
60A
AM1 NO. 1
E 6
FUSIBLE
LINK BLOCK
140A ALT
BATTERY
O 3
SHIFT LOCK CONTROL ECU
[O/D MAIN SW]
SHIFT LOCK
CONTROL SW
SHIFT LOCK
SOLENOID
K 3
KEY INTERLOCK
SOLENOID
J 7
JUNCTION
CONNECTOR
A30
AUTO ANTENNA CONTROL RELAY
G 9
AUTO ANTENNA CONTROL SW
[CENTER ECU]
J30
JUNCTION
CONNECTOR
A17
AUTO ANTENNA MOTOR
From Stop Light SW
<3-4>
From Radio and Player
<2B-4>
Set bolt of cowl
side J/B LH
Set bolt of cowl
side J/B RH
Front right side
of fender apron
IG
ACC
STP
SUP
SDWN
SGND
SIG
VCC
DOWN
UP
ANT
S- ANTU
S- ANTD
GND
KLS+
SLS+
SLS-
(Shielded)


Power Source
SRS
1
2
3
4
ACC
IG1
IG2
ST2
AM1
AM2
I18
IGNITION SW
J 4
JUNCTION
CONNECTOR
10A
IGN
15A
SRS
P21
PRETENSIONER LH
P22
PRETENSIONER RH
To Data Link
Connector 3<2- 10>
15A
ECU- B
J 9
JUNCTION
CONNECTOR
J29
JUNCTION
CONNECTOR
C 4
CENTER AIRBAG
SENSOR ASSEMBLY
C14
SRS WARNING
LIGHT
(COMB. METER)
IG2
ACC
PL+
PL-
PR+
PR-
SIL
E1
E2
D+
D-
P+
P-
+SL
- SL
+SR
- SR
TC
LA
30A-ABS
60A-AMP NO. 1
50A-AMP NO. 2
100A-ALT NO. 2
140A-ALT
F 6
FUSIBLE
LINK BLOCK
BATTERY
SPIRAL
CABLE
A28
AIRBAG SQUIB
(Steering Wheel
Pad)
A27
AIRBAG SQUIB
(Front Passenger
Airbag Assembly)
A15
AIRBAG SENSOR
FRONT LH
A16
AIRBAG SENSOR
FRONT RH
To Data Link
Connector 1
<2- 11><2- 12>
Set bolt of cowl
side J/B LH

13 LAND CRUISER

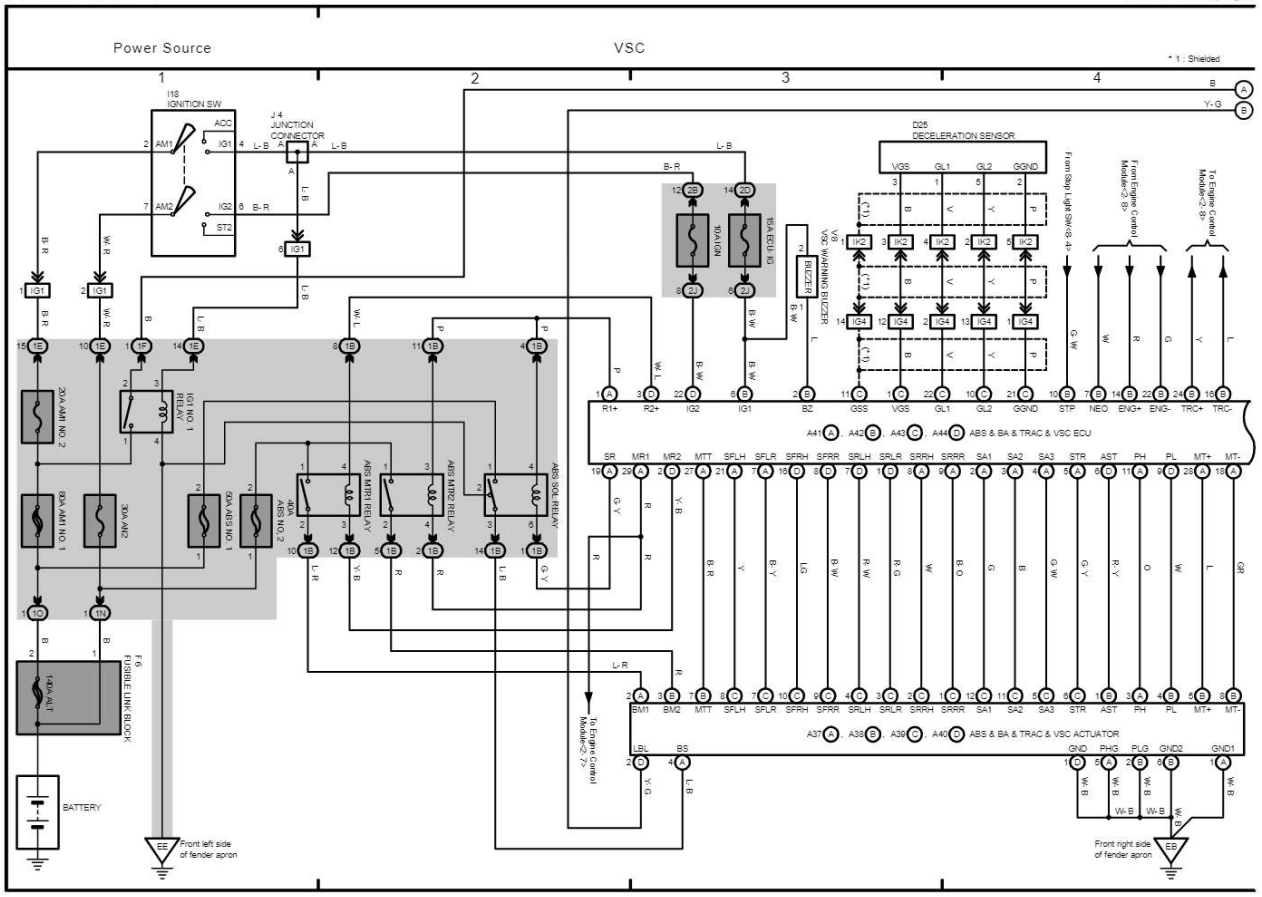
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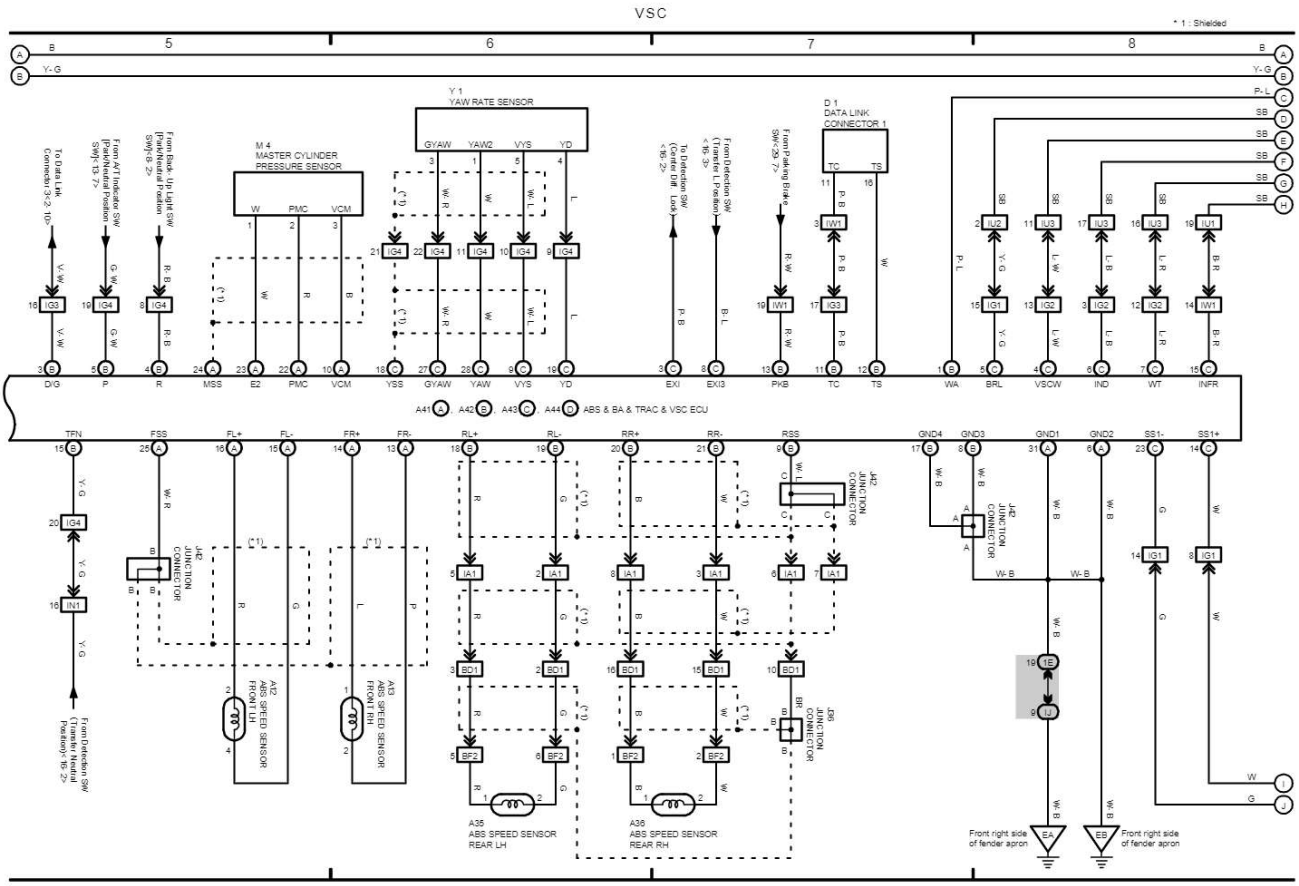


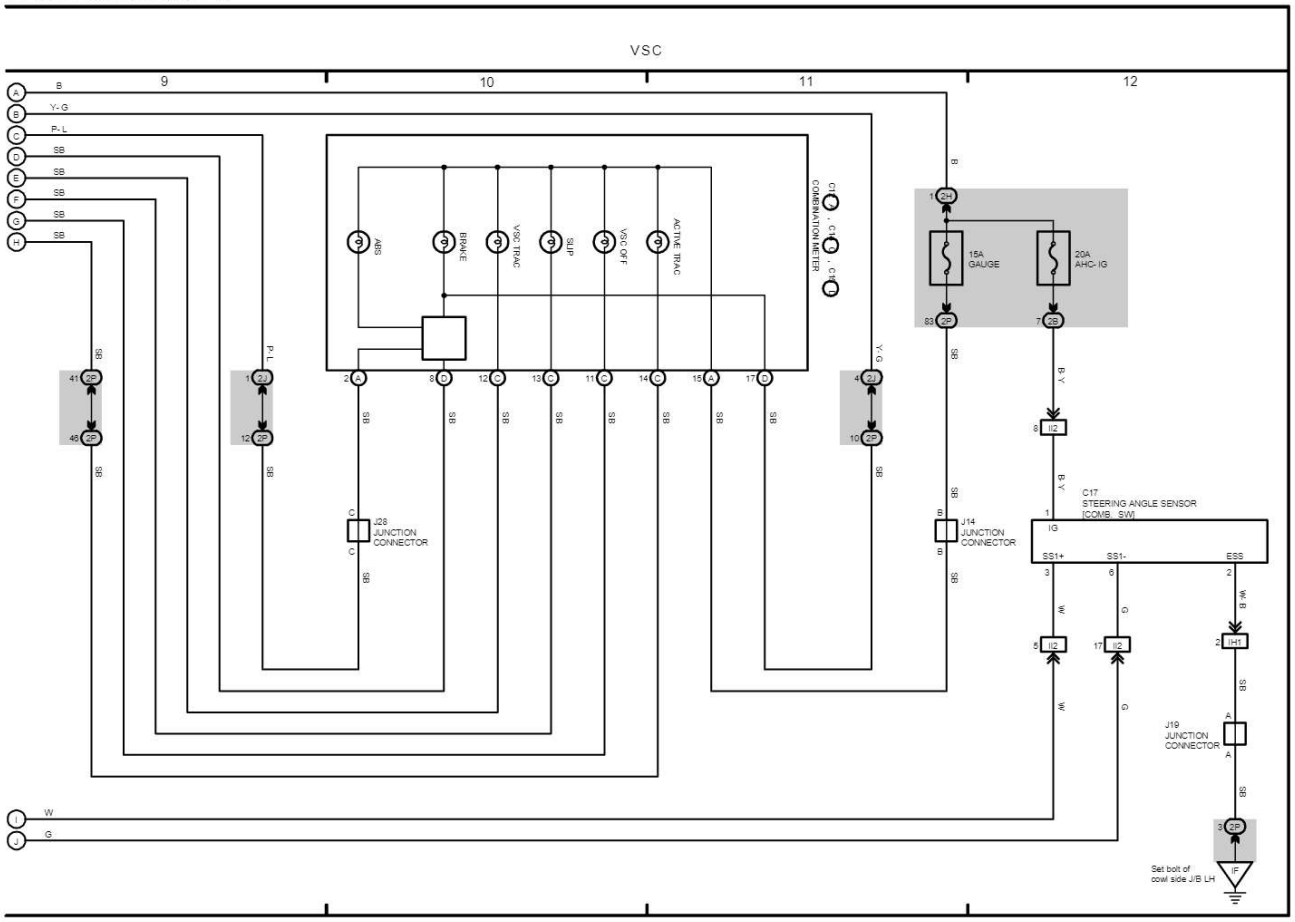

Electronically Controlled Transmission and A/T Indicator
5
6
7
8
A/T INDICATOR LIGHT SW [PARK/NEUTRAL POSITION SW]
To ABS & BA & TRAC & VSC ECU<14- 5>
J14 JUNCTION CONNECTOR
J23 JUNCTION CONNECTOR
J20 JUNCTION CONNECTOR
J21 JUNCTION CONNECTOR
J17 JUNCTION CONNECTOR
J18 JUNCTION CONNECTOR
J22 JUNCTION CONNECTOR
J26 JUNCTION CONNECTOR
To Instrument ECU<9- 6>
COMBINATION METER
CRUISE
2nd STRT
A/T OIL TEMP
ECT PWR
O/D OFF
A/T TP
ENGINE CONTROL MODULE
SP2-
SP2+
NC0-
NC0+
OIL
E2
R
D
2
L
ODMS
ODLP
SNWL
PWR
OILW
SNWL
PI
TFN
O 3 OD MAIN SW
E 4 ELECTRONICALLY CONTROLLED TRANSMISSION PATTERN SELECT SW
2nd
PWR
To Detection SW (Transfer Neutral Position)<16- 2>
From Detection SW (Transfer L Position) <16- 3>
See Illumination System <7- 4>
Set bolt of cowl side J/B LH

M

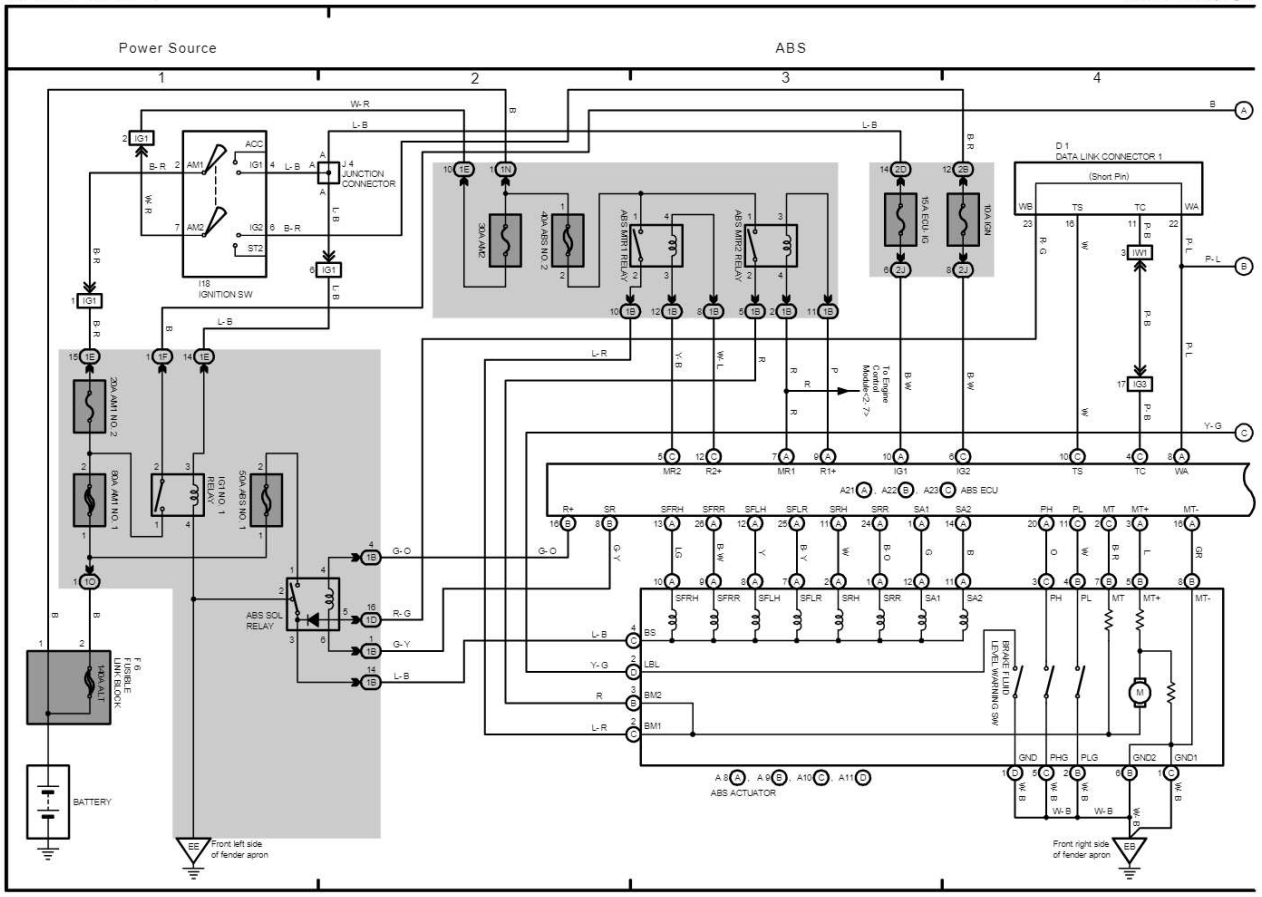
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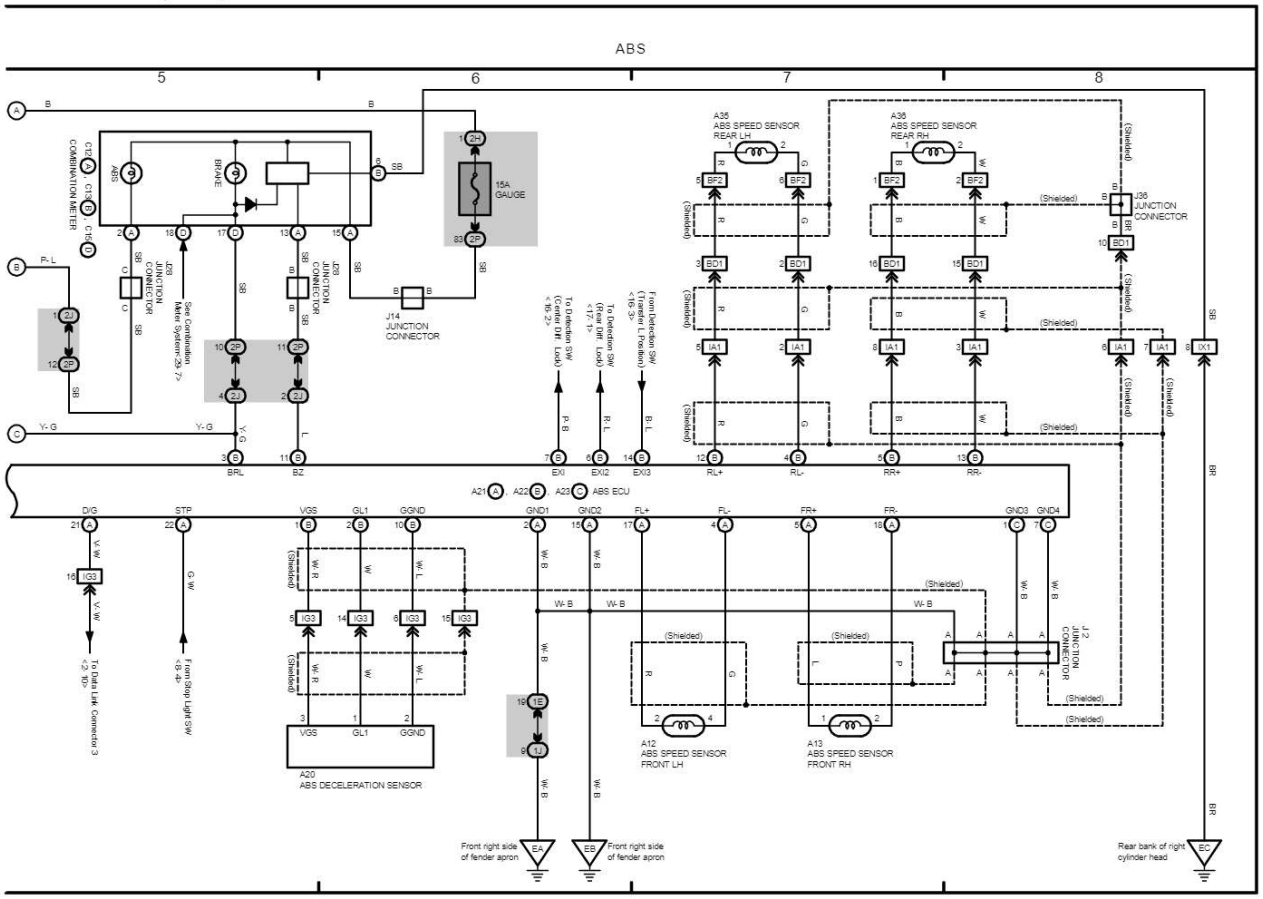


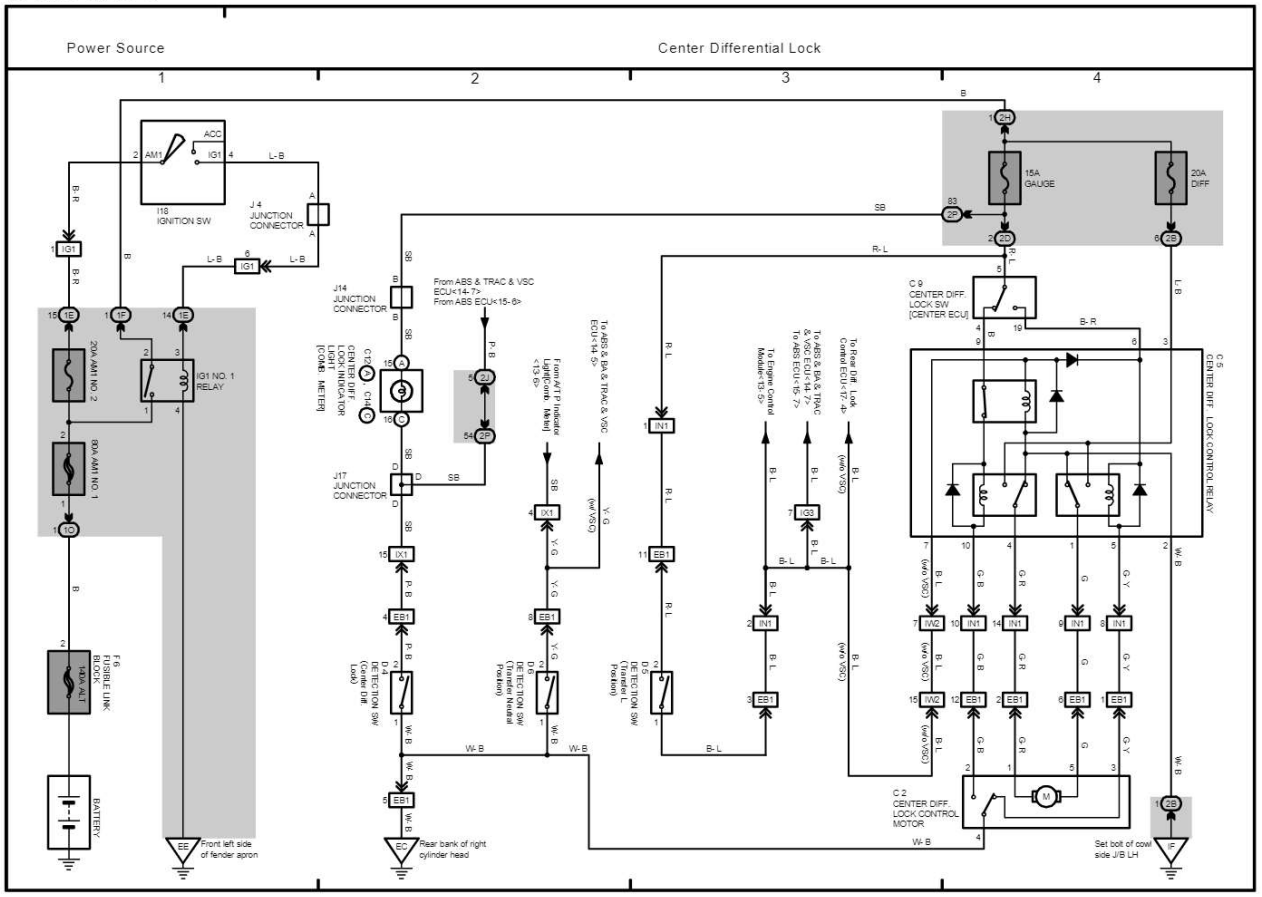

VSC
* 1 : Shielded
Y 1
YAW RATE SENSOR
M 4
MASTER CYLINDER
PRESSURE SENSOR
D 1
DATA LINK
CONNECTOR 1
A41 A, A42 B, A43 C, A44 D ABS & BA & TRAC & VSC ECU
A35
ABS SPEED SENSOR
REAR LH
A36
ABS SPEED SENSOR
REAR RH
A42
ABS SPEED SENSOR
FRONT LH
A43
ABS SPEED SENSOR
FRONT RH
J42
JUNCTION
CONNECTOR
J36
JUNCTION
CONNECTOR
Front right side
of fender apron

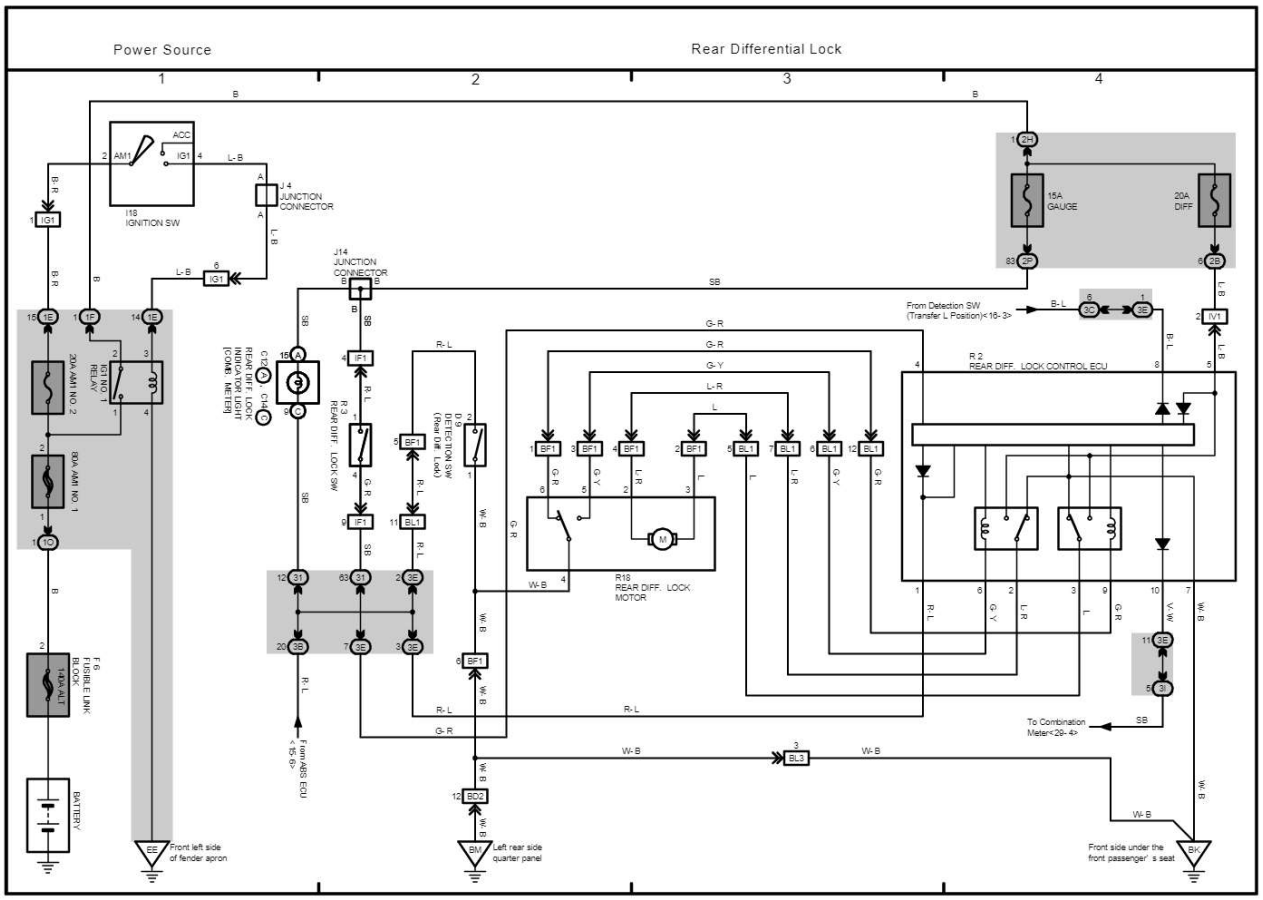

VSC
9
10
11
12
B
Y- G
P- L
SB
SB
SB
SB
SB
W
G
ABS
BRAKE
VSC TRAC
SLIP
VSC OFF
ACTIVE TRAC
COMBINATION METER
15A GAUGE
20A AHC- IG
J28 JUNCTION CONNECTOR
J14 JUNCTION CONNECTOR
C17 STEERING ANGLE SENSOR [COMB. SW]
IG
SS1+
SS1-
ESS
J19 JUNCTION CONNECTOR
Set bolt of cowl side J/B LH

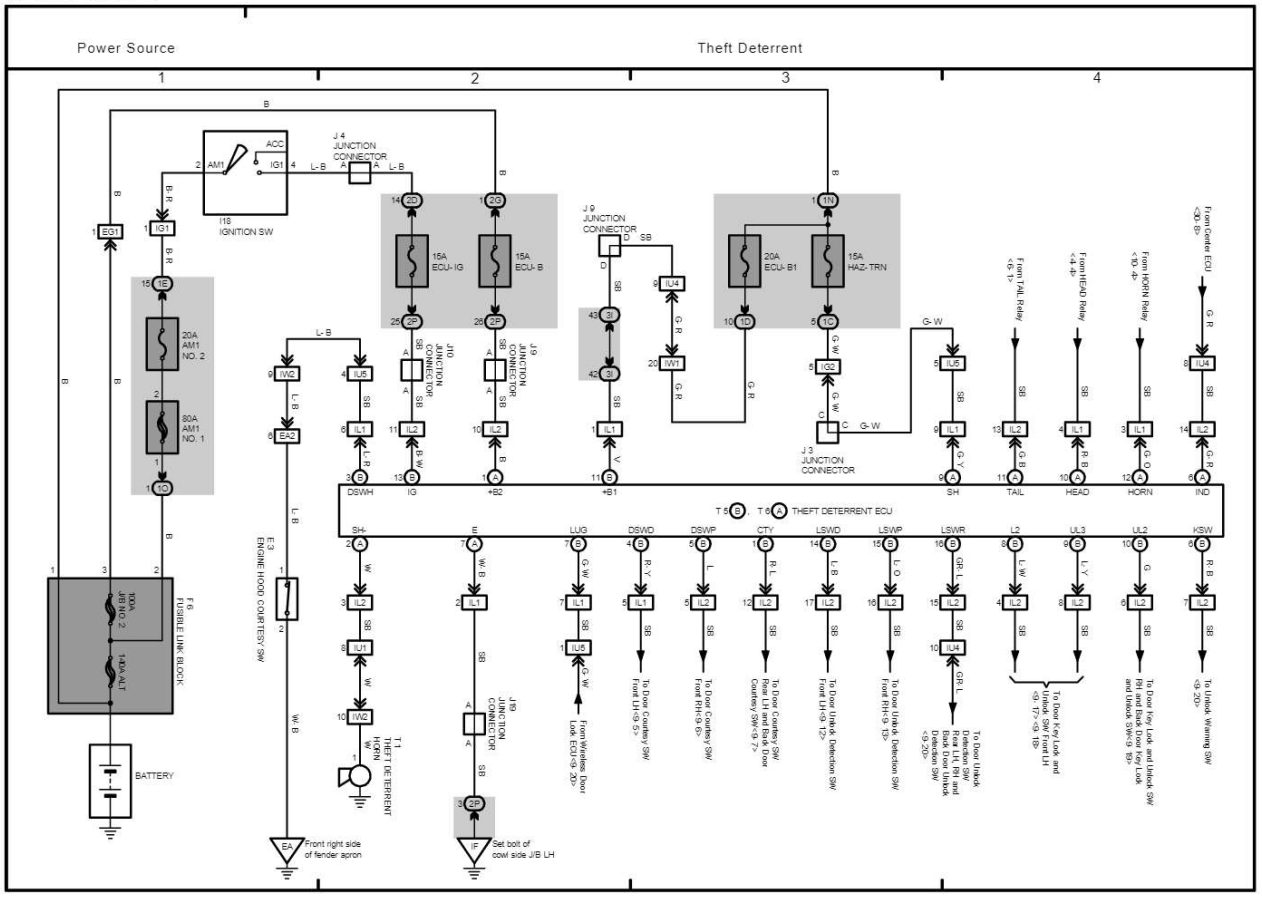
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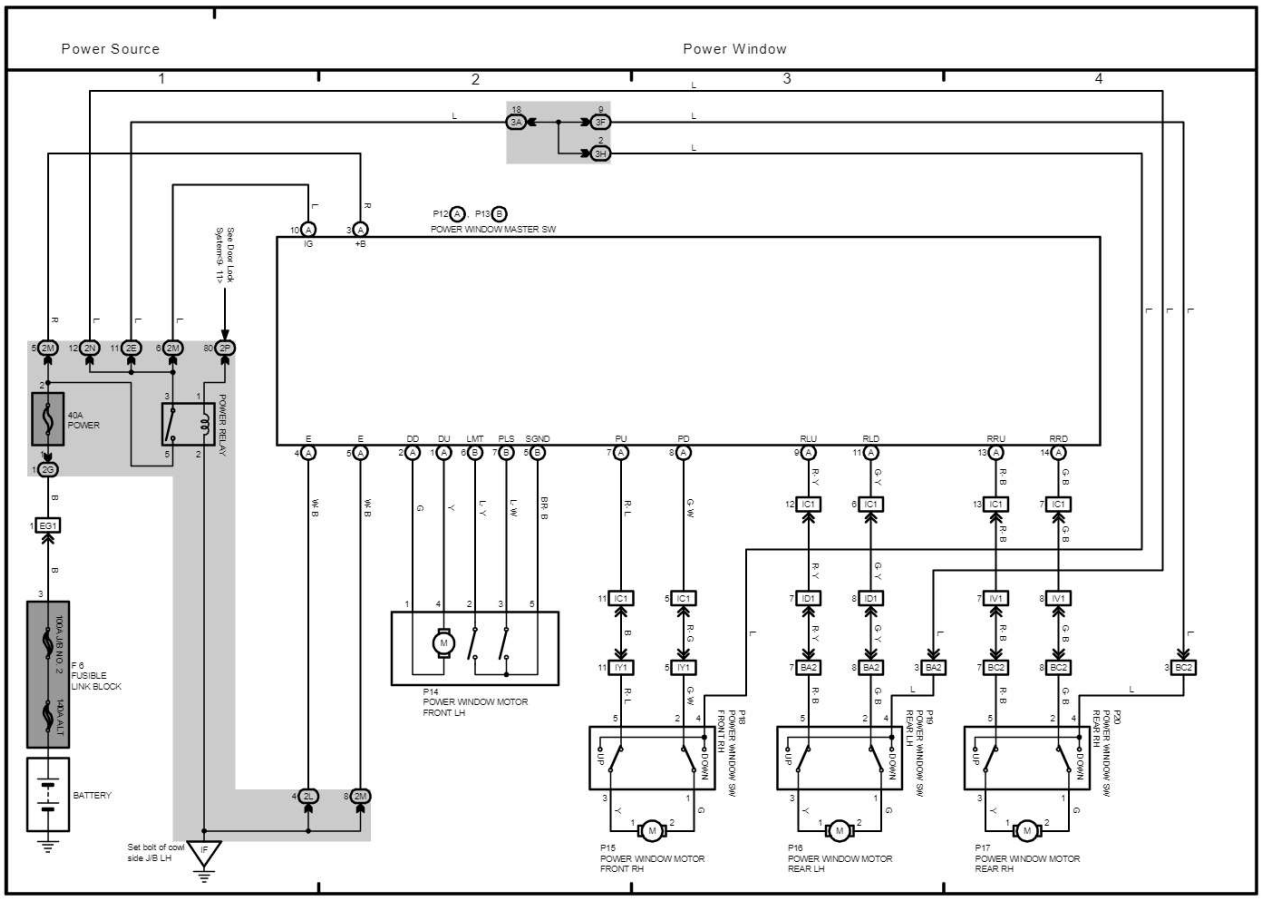


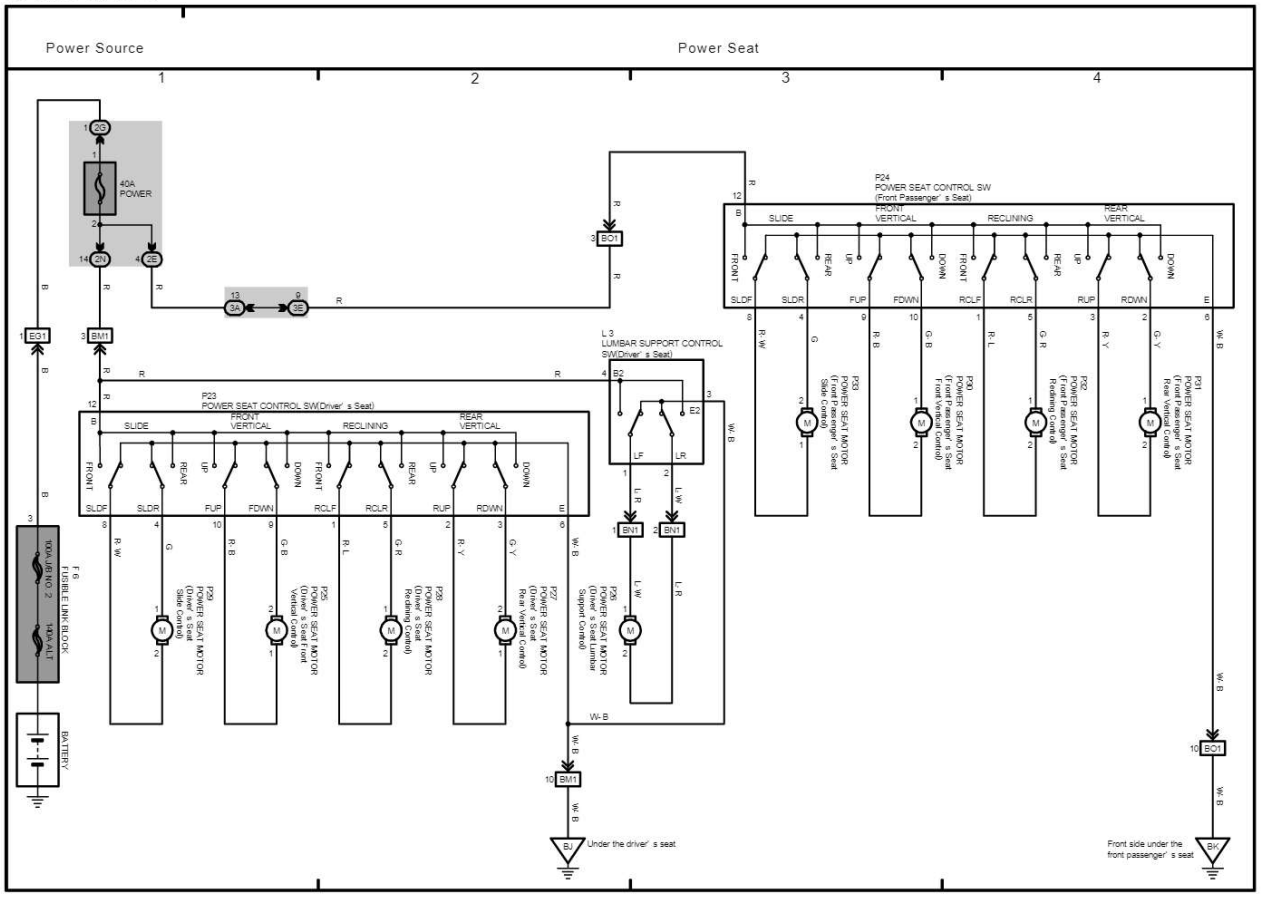

ABS
5
6
7
8
COMBINATION METER
ABS
BRAKE
15A GAUGE
J14 JUNCTION CONNECTOR
J28 JUNCTION CONNECTOR
See Combination Meter System<Ref. 7>
To Diagnosis Connector 3 <Ref. 9>
From Stop Light SW <Ref. 4>
To Detection SW (Front RH Door) <Ref. 17-1>
To Detection SW (Front LH Door) <Ref. 17-1>
From Detection SW (Front LH Door) <Ref. 16-3>
A35 ABS SPEED SENSOR REAR LH
A36 ABS SPEED SENSOR REAR RH
J36 JUNCTION CONNECTOR
A21, A22, A23 ABS ECU
A20 ABS DECELERATION SENSOR
A12 ABS SPEED SENSOR FRONT LH
A13 ABS SPEED SENSOR FRONT RH
J2 JUNCTION CONNECTOR
Front right side of fender apron
Front right side of fender apron
Rear bank of right cylinder head
(Shielded)

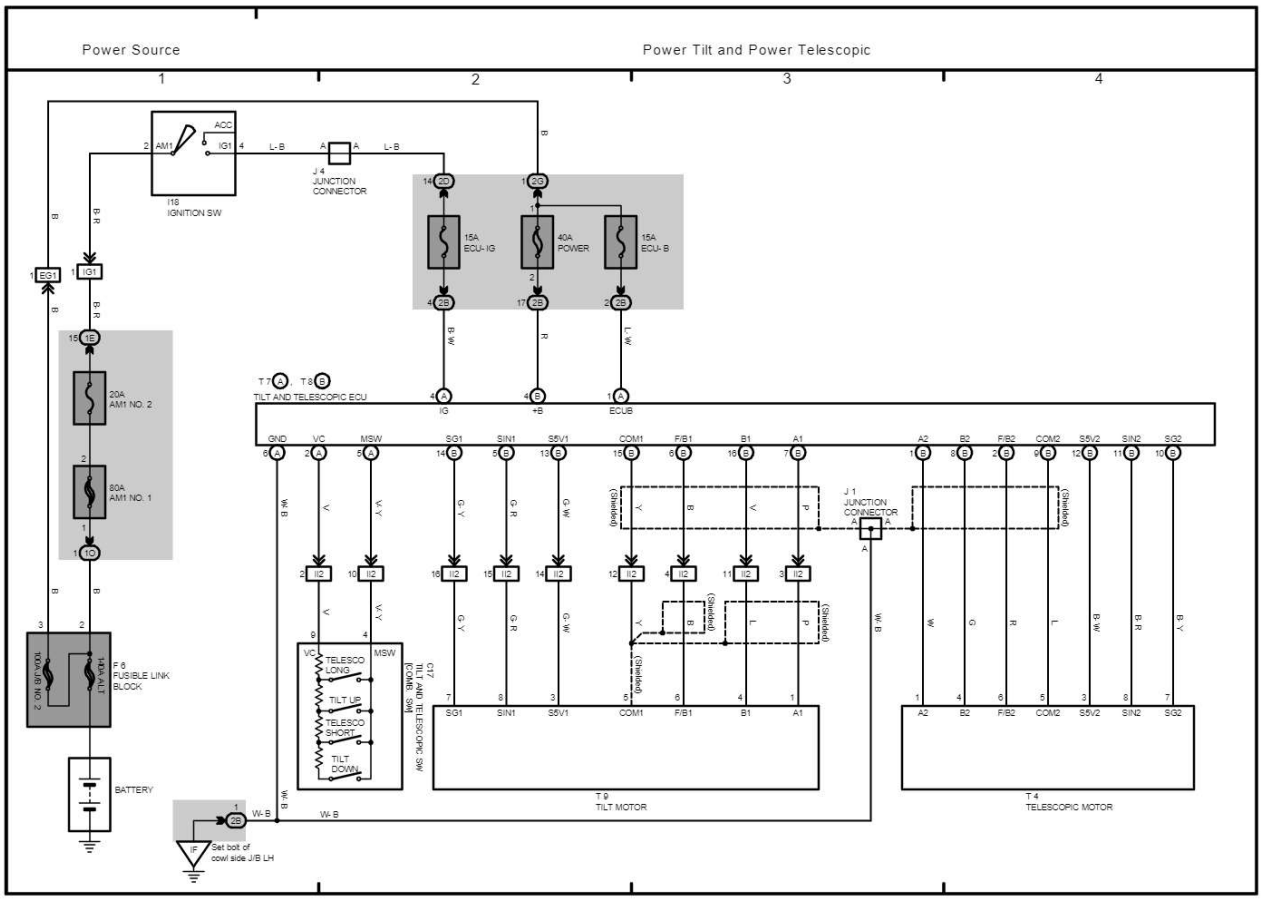

Power Source
Center Differential Lock
1
2
3
4
ACC
AM1
IG1
I16
IGNITION SW
J 4
JUNCTION
CONNECTOR
IG1 NO. 1
RELAY
20A-AM1 NO. 2
60A-AM1 NO. 1
F6
FUSIBLE LINK
BLOCK
ASSY
BATTERY
EE
Front left side
of fender apron
J14
JUNCTION
CONNECTOR
From ABS & TRAC & VSC
ECU<14- 7>
From ABS ECU<15- 6>
CENTER DIFF.
LOCK INDICATOR
LIGHT
[COMB. METER]
J17
JUNCTION
CONNECTOR
From A/T P Indicator
Light[Comb. Meter]
To ABS & BA & TRAC & VSC
ECU<14- 5>
(w/ VSC)
DETECTION SW
(Center Diff.
Lock)
DETECTION SW
(Transfer Neutral
Position)
DETECTION SW
(Transfer L
Position)
EC
Rear bank of right
cylinder head
To Engine Control
Module<13- 5>
To ABS & BA & TRAC
& VSC ECU<14- 7>
To ABS ECU<15- 7>
To Rear Diff. Lock
Control ECU<17- 4>
(w/o VSC)
(w/o VSC)
(w/o VSC)
15A
GAUGE
20A
DIFF
C 9
CENTER DIFF.
LOCK SW
[CENTER ECU]
C 5
CENTER DIFF. LOCK CONTROL RELAY
C 2
CENTER DIFF.
LOCK CONTROL
MOTOR
M
Set bolt of cowl
side J/B LH
F


Power Source
Rear Differential Lock
1
2
3
4
I18
IGNITION SW
ACC
AM1
IG1
J 4
JUNCTION
CONNECTOR
J14
JUNCTION
CONNECTOR
15A
GAUGE
20A
DIFF
IG1 NO. 1
RELAY
20A AM1 NO. 2
60A AM1 NO. 1
14BA-ALT
F 6
FUSIBLE LINK
BLOCK
BATTERY
R 3
REAR DIFF. LOCK SW
DIFF
DETECTION SW
(Rear Diff. Lock)
R19
REAR DIFF. LOCK
MOTOR
R 2
REAR DIFF. LOCK CONTROL ECU
REAR DIFF. LOCK
INDICATOR LIGHT
[COMB. METER]
From Detection SW
(Transfer L Position)< 16- 3>
To Combination
Meter< 29- 4>
From ABS ECU
< 15- 6>
Front left side
of fender apron
Left rear side
quarter panel
Front side under the
front passenger' s seat

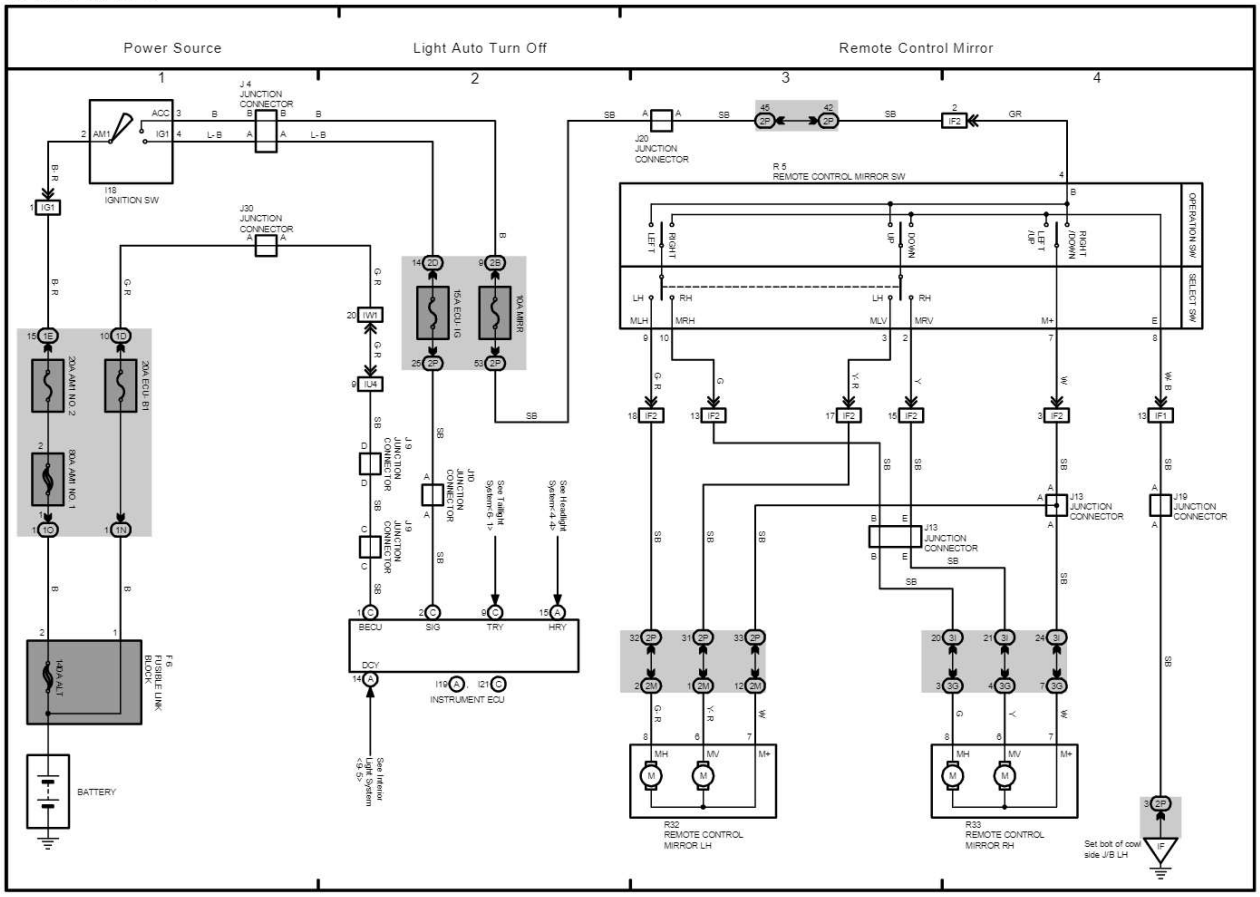

Power Source
Theft Deterrent
1
2
3
4
BATTERY
F6 FUSIBLE LINK BLOCK
100A JB NO. 2
140A ALT
20A AM1 NO. 2
80A AM1 NO. 1
I16 IGNITION SW
J 4 JUNCTION CONNECTOR
15A ECU- IG
15A ECU- B
20A ECU- B1
15A HAZ- TRN
J9 JUNCTION CONNECTOR
J10 JUNCTION CONNECTOR
J 3 JUNCTION CONNECTOR
J8 JUNCTION CONNECTOR
T1 THEFT DETERRENT HORN
E3 ENGINE HOOD COURTESY SW
T 5 T 6 THEFT DETERRENT ECU
DSWH
IG
+B2
+B1
SH
TAIL
HEAD
HORN
IND
SH-
E
LUG
DSWD
DSWP
CTY
LSWD
LSWP
LSWR
L2
UL3
UL2
KSW
EA
Front right side of fender apron
IF
Set bolt of cowl side J/B LH
From Center ECU <30- 8>
From TAIL Relay <5- 1>
From HEAD Relay <4- 4>
From HORN Relay <10- 4>
To Unlock Warning SW <9- 20>
To Door Key Lock and Unlock SW RH and Back Door Key Lock and Unlock SW<9- 9>
To Door Key Lock and Unlock SW Front LH <9- 17><9- 18>
To Door Unlock Detection SW Rear LH, RH and Back Door Unlock Detection SW <9- 20>
To Door Unlock Detection SW Front RH<9- 13>
To Door Unlock Detection SW Front LH<9- 12>
To Door Courtesy SW Rear LH and Back Door Courtesy SW<9- 7>
To Door Courtesy SW Front RH<9- 6>
To Door Courtesy SW Front LH<9- 5>
From Wireless Door Lock ECU<9- 20>
To Door Courtesy SW
To Door Unlock Detection SW
To Door Key Lock and Unlock SW

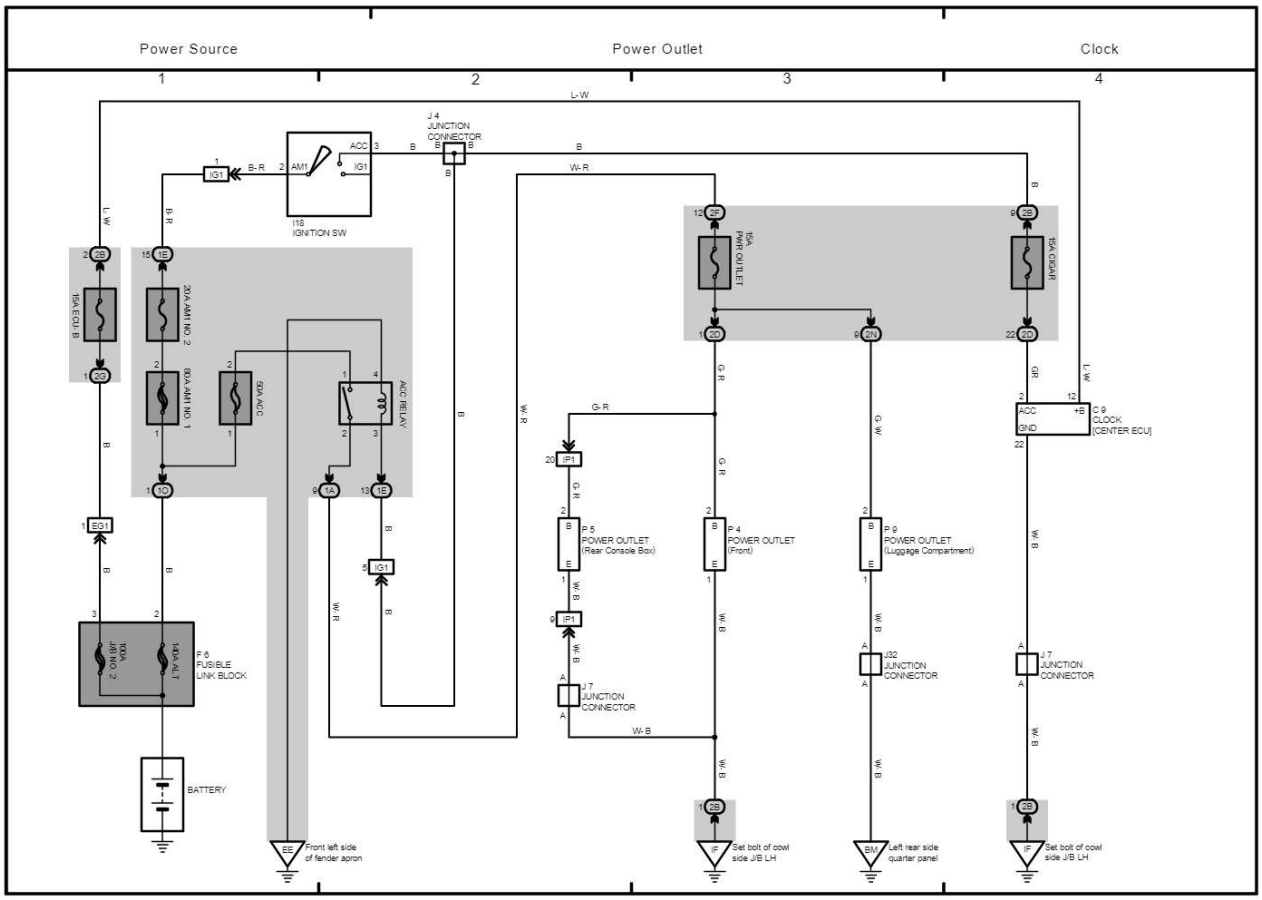

Power Source
Power Window
1
2
3
4
P12 A , P13 B
POWER WINDOW MASTER SW
IG
+B
See Door Lock System(P. 11)
40A POWER
POWER RELAY
F 6 FUSIBLE LINK BLOCK
100A J/B NO. 2
140A ALT
BATTERY
Set bolt of cowl side J/B LH
P14 POWER WINDOW MOTOR FRONT LH
P15 POWER WINDOW MOTOR FRONT RH
P16 POWER WINDOW MOTOR REAR LH
P17 POWER WINDOW MOTOR REAR RH
P18 POWER WINDOW SW FRONT RH
P19 POWER WINDOW SW REAR LH
P20 POWER WINDOW SW REAR RH
UP
DOWN


Power Source
Power Seat
1
2
3
4
40A POWER
P24 POWER SEAT CONTROL SW (Front Passenger' s Seat)
P23 POWER SEAT CONTROL SW(Driver' s Seat)
L 3 LUMBAR SUPPORT CONTROL SW(Driver' s Seat)
SLIDE
FRONT VERTICAL
RECLINING
REAR VERTICAL
SLDF
SLDR
FUP
FDWN
RCLF
RCLR
RUP
RDWN
FRONT
REAR
UP
DOWN
P39 POWER SEAT MOTOR (Driver' s Seat Slide Control)
P25 POWER SEAT MOTOR (Driver' s Seat Front Vertical Control)
P38 POWER SEAT MOTOR (Driver' s Seat Reclining Control)
P27 POWER SEAT MOTOR (Driver' s Seat Rear Vertical Control)
P26 POWER SEAT MOTOR (Driver' s Seat Lumbar Support Control)
P39 POWER SEAT MOTOR (Front Passenger' s Seat Slide Control)
P40 POWER SEAT MOTOR (Front Passenger' s Seat Front Vertical Control)
P42 POWER SEAT MOTOR (Front Passenger' s Seat Reclining Control)
P31 POWER SEAT MOTOR (Front Passenger' s Seat Rear Vertical Control)
F 6 FUSIBLE LINK BLOCK
100A J/B NO. 2
140A ALT
BATTERY
Under the driver' s seat
Front side under the front passenger' s seat

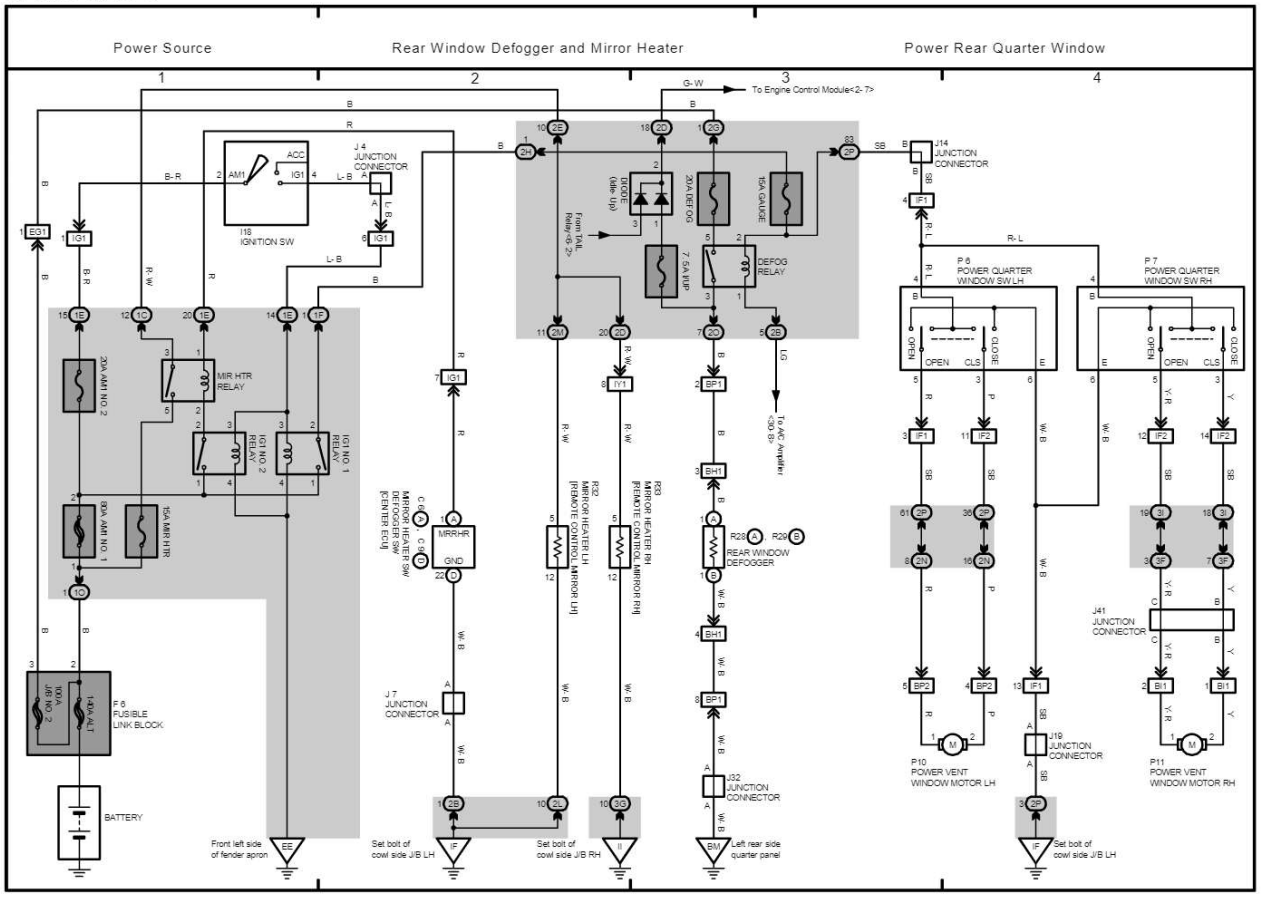

Power Source
Power Tilt and Power Telescopic
1
2
3
4
I18
IGNITION SW
J 4
JUNCTION
CONNECTOR
15A
ECU-IG
40A
POWER
15A
ECU-B
20A
AM1 NO. 2
80A
AM1 NO. 1
F 6
FUSIBLE LINK
BLOCK
BATTERY
TILT AND TELESCOPIC ECU
IG
+B
ECUB
GND
VC
MSW
SG1
SIN1
S5V1
COM1
F/B1
B1
A1
A2
B2
F/B2
COM2
S5V2
SIN2
SG2
J 1
JUNCTION
CONNECTOR
TELESCO
LONG
TILT UP
TELESCO
SHORT
TILT
DOWN
C 17
TILT AND TELESCOPIC SW
T 9
TILT MOTOR
T 4
TELESCOPIC MOTOR
Set bolt of
cowl side J/B LH

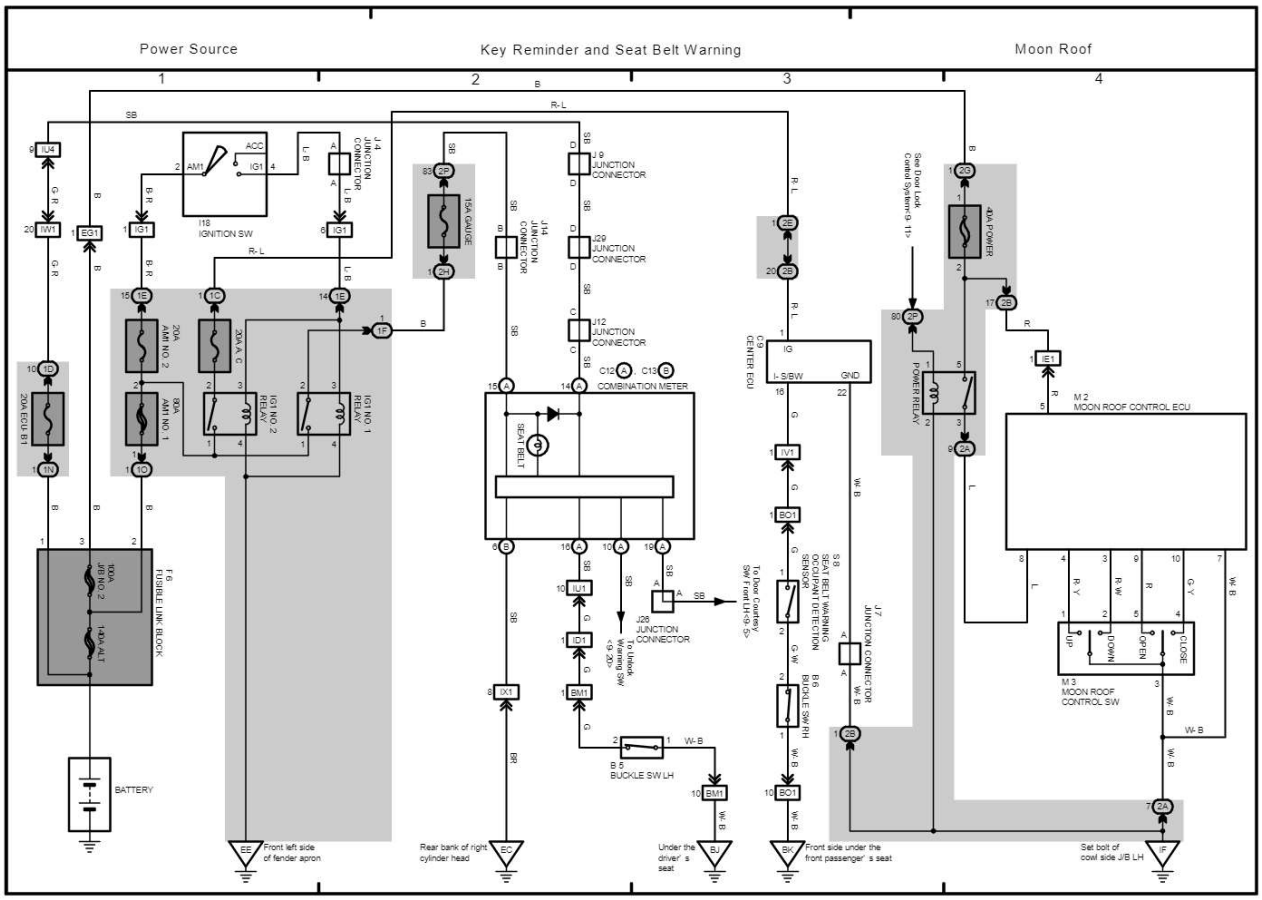
M


Power Source
Light Auto Turn Off
Remote Control Mirror
1
2
3
4
J4 JUNCTION CONNECTOR
I18 IGNITION SW
J30 JUNCTION CONNECTOR
J20 JUNCTION CONNECTOR
R5 REMOTE CONTROL MIRROR SW
OPERATION SW
SELECT SW
LEFT
RIGHT
UP
DOWN
LH
RH
MLH
MRH
MLV
MRV
M+
M-
20A AM1 NO.2
20A ECU-B1
30A AM1 NO.1
15A ECU-IG
10A MIRR
140A ALT
F6 FUSIBLE LINK BLOCK
BATTERY
J9 JUNCTION CONNECTOR
J10 JUNCTION CONNECTOR
J13 JUNCTION CONNECTOR
J19 JUNCTION CONNECTOR
BECU
SIG
TRY
HRY
DCY
I19
I21
INSTRUMENT ECU
R32 REMOTE CONTROL MIRROR LH
R33 REMOTE CONTROL MIRROR RH
MH
MV
M+
Set Interior Light System <9-5>
Set Headlight System <4-4>
Set Turn&HAZ System <3-1>
Set bolt of cowl side J/B LH

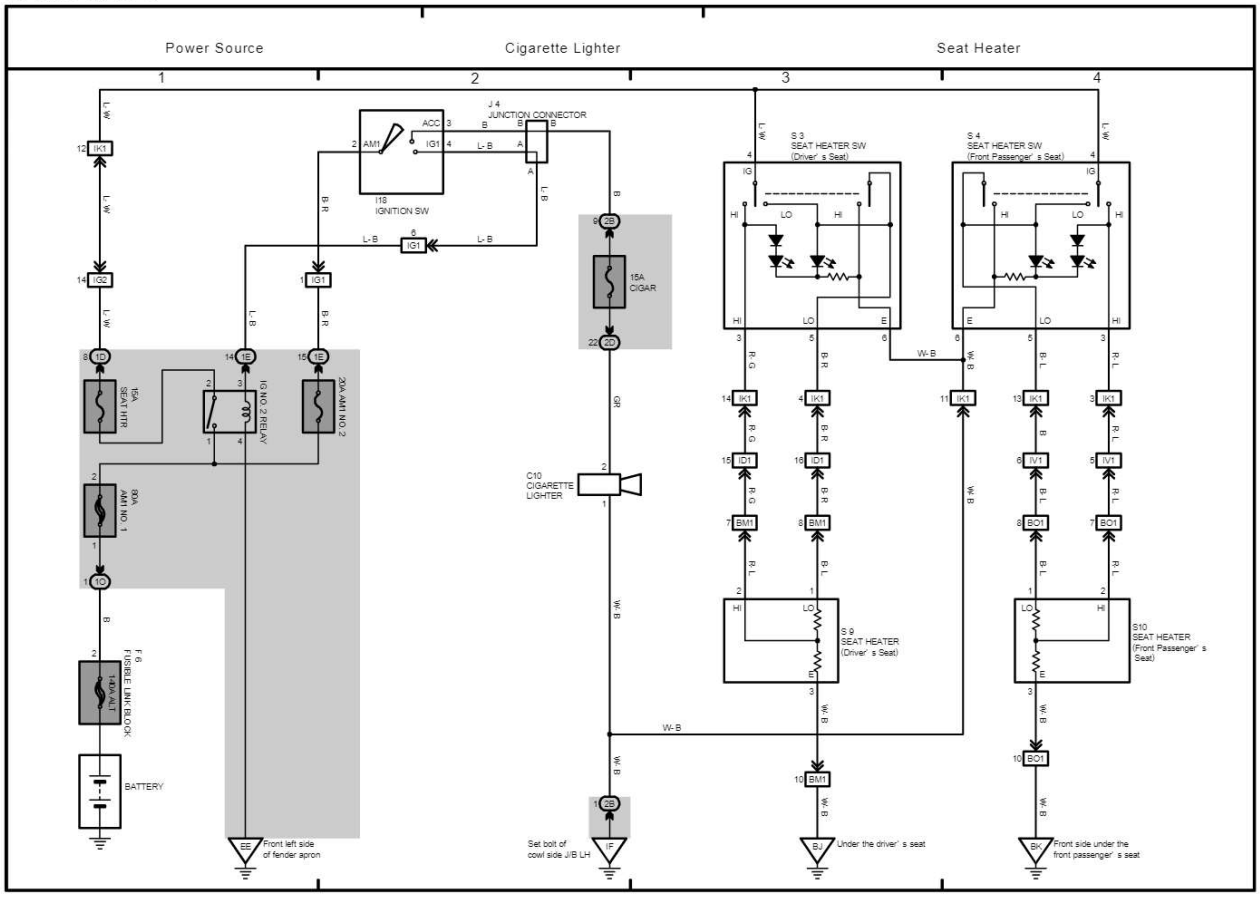

Power Source
Power Outlet
Clock
1
2
3
4
L-W
J 4
JUNCTION
CONNECTOR
ACC
IG1
AM1
I18
IGNITION SW
B-R
W-R
G-R
W-B
B
L-W
GR
15A
ECU-B
20A
AM1 NO. 2
60A
AM1 NO. 1
50A
ACC
ACC RELAY
15A
PWR OUTLET
15A
CIGAR
C 9
CLOCK
(CENTER ECU)
ACC
+B
GND
P 5
POWER OUTLET
(Rear Console Box)
P 4
POWER OUTLET
(Front)
P 9
POWER OUTLET
(Luggage Compartment)
J32
JUNCTION
CONNECTOR
J 7
JUNCTION
CONNECTOR
F 6
FUSIBLE
LINK BLOCK
100A
IG NO. 2
140A
ALT
BATTERY
Front left side
of fender apron
Set bolt of cowl
side J/B LH
Left rear side
quarter panel
Set bolt of cowl
side J/B LH

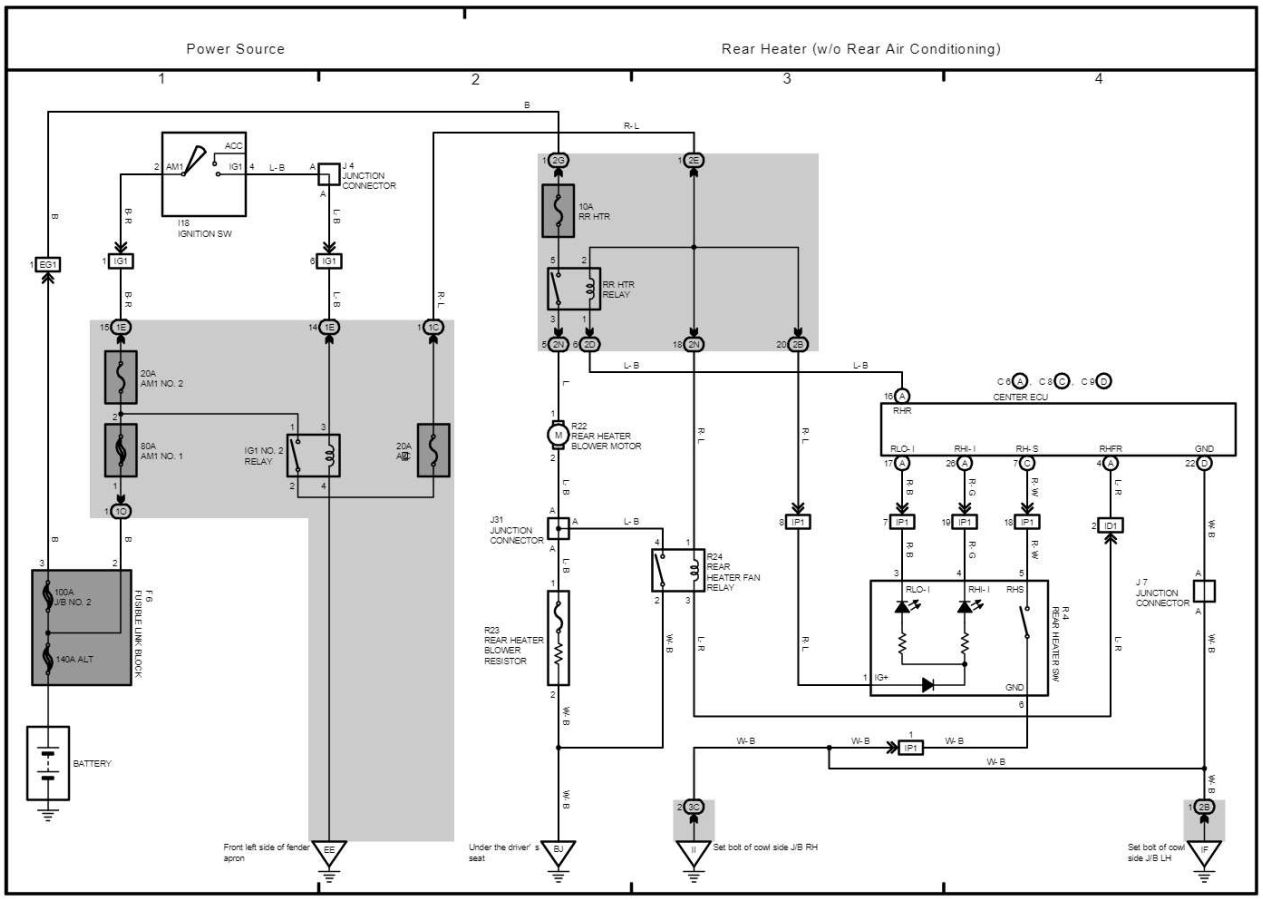
M

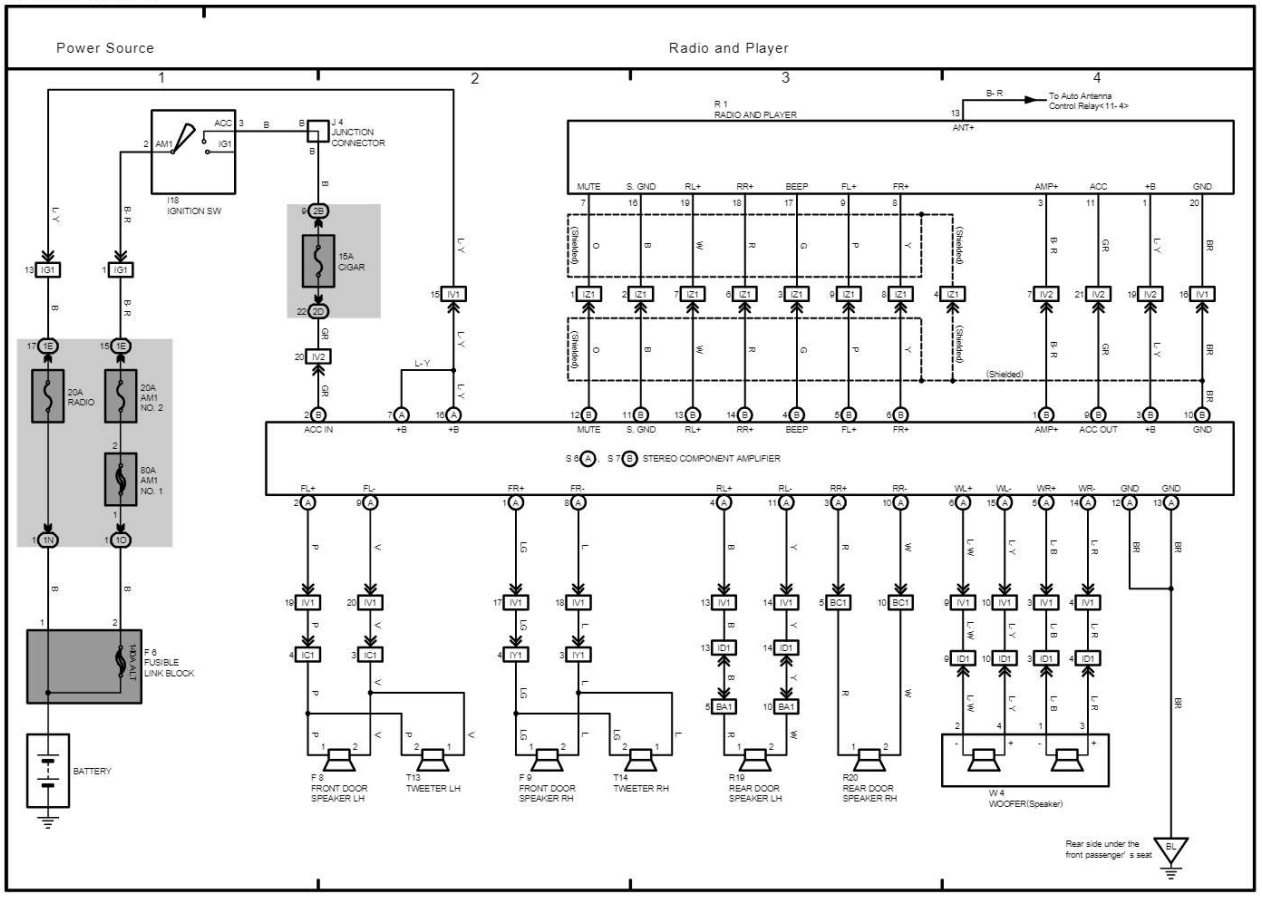

Power Source
Rear Window Defogger and Mirror Heater
Power Rear Quarter Window
1
2
3
4
To Engine Control Module<2-7>
J 4 JUNCTION CONNECTOR
I18 IGNITION SW
ACC
AM1
IG1
MIR HTR RELAY
IG1 NO. 1 RELAY
IG1 NO. 2 RELAY
20A AM1 NO. 2
50A AM1 NO. 1
15A MIR HTR
100A J/B NO. 2
140A ALT
F 6 FUSIBLE LINK BLOCK
BATTERY
Front left side of fender apron
MRR HR
GND
MIRROR HEATER SW [CENTER ECU]
J 7 JUNCTION CONNECTOR
Set bolt of cowl side J/B LH
R32 MIRROR HEATER LH [REMOTE CONTROL MIRROR LH]
R33 MIRROR HEATER RH [REMOTE CONTROL MIRROR RH]
Set bolt of cowl side J/B RH
From TAIL Relay<6-2>
DIODE (Idle Up)
20A DEFOG
15A GAUGE
7.5A IUP
DEFOG RELAY
REAR WINDOW DEFOGGER
J32 JUNCTION CONNECTOR
Left rear side quarter panel
To A/C Amplifier <30-8>
J14 JUNCTION CONNECTOR
P 6 POWER QUARTER WINDOW SW LH
P 7 POWER QUARTER WINDOW SW RH
OPEN
CLS
CLOSE
J41 JUNCTION CONNECTOR
J19 JUNCTION CONNECTOR
P10 POWER VENT WINDOW MOTOR LH
P11 POWER VENT WINDOW MOTOR RH
Set bolt of cowl side J/B LH


Power Source
Key Reminder and Seat Belt Warning
Moon Roof
1
2
3
4
BATTERY
I19 IGNITION SW
J-4 JUNCTION CONNECTOR
15A GAUGE
J9 JUNCTION CONNECTOR
J29 JUNCTION CONNECTOR
J12 JUNCTION CONNECTOR
J14 JUNCTION CONNECTOR
C12 C13 COMBINATION METER
SEAT BELT
IG1 NO 1 RELAY
IG1 NO 2 RELAY
20A ECU-B1
20A AM1 NO 2
30A A/C
90A AM1 NO 1
F6 FUSIBLE LINK BLOCK
100A J/B NO 2
140A ALT
C9 CENTER ECU
I- S/BW
GND
S3 SEAT BELT WARNING OCCUPANT DETECTION SENSOR
B6 BUCKLE SW RH
B 5 BUCKLE SW LH
J7 JUNCTION CONNECTOR
To Door Courtesy SW Front LH <9, 5>
J26 JUNCTION CONNECTOR
To Unlock Warning SW <9, 20>
Set Door Lock Control System <9, 11>
40A POWER
POWER RELAY
M 2 MOON ROOF CONTROL ECU
M 3 MOON ROOF CONTROL SW
Up
DOWN
OPEN
CLOSE
Front left side of fender apron
Rear bank of right cylinder head
Under the driver's seat
Front side under the front passenger's seat
Set bolt of cowl side J/B LH

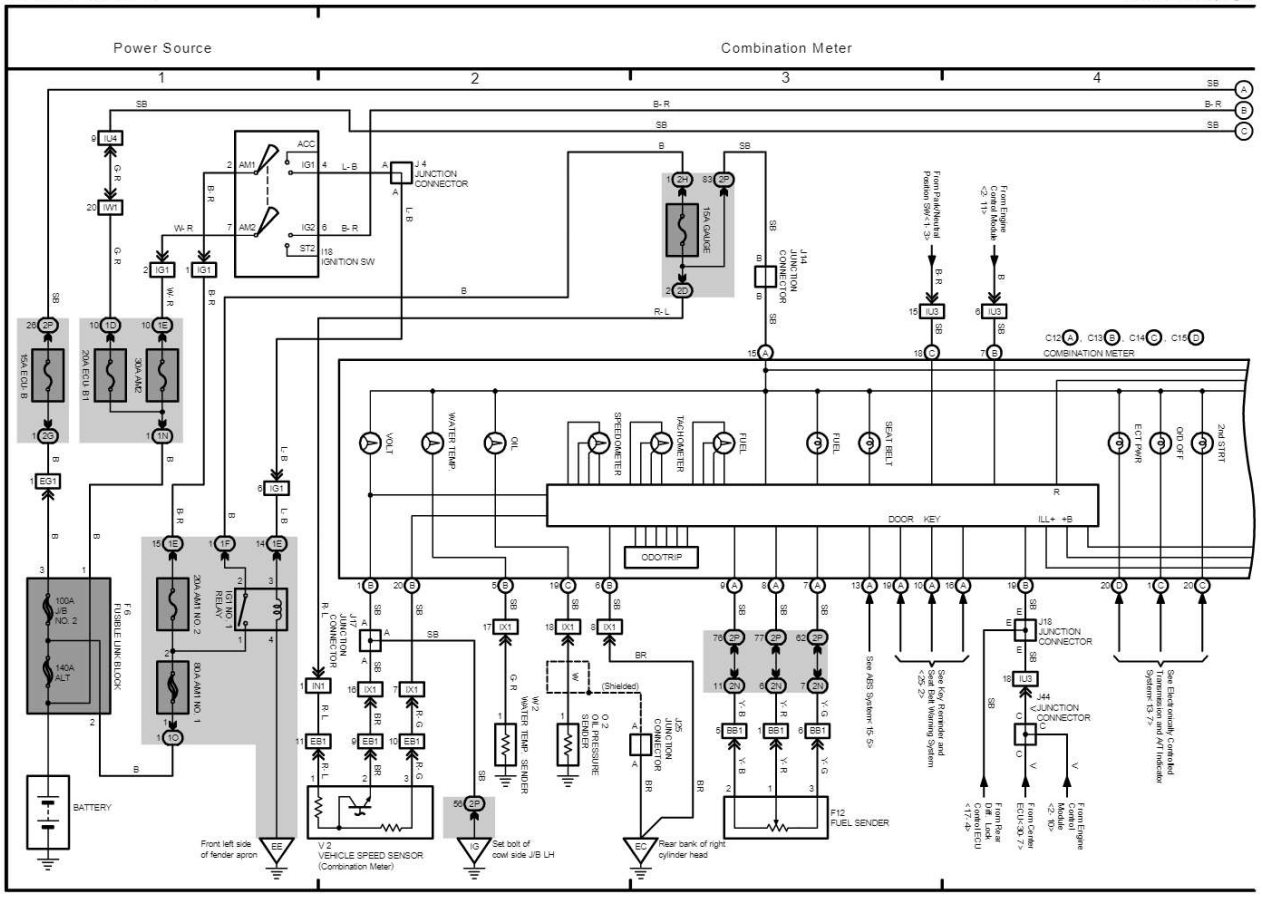
M


Power Source
Cigarette Lighter
Seat Heater
1
2
3
4
J 4
JUNCTION CONNECTOR
I18
IGNITION SW
ACC
AM1
IG1
IG2
15A
SEAT HTR
IG NO. 2 RELAY
20A AM1 NO. 2
80A
AM1 NO. 1
F 6
FUSIBLE LINK BLOCK
140A ALT
BATTERY
15A
CIGAR
C10
CIGARETTE
LIGHTER
S 3
SEAT HEATER SW
(Driver' s Seat)
S 4
SEAT HEATER SW
(Front Passenger' s Seat)
S 9
SEAT HEATER
(Driver' s Seat)
S10
SEAT HEATER
(Front Passenger' s
Seat)
Front left side
of fender apron
Set bolt of
cowl side J/B LH
Under the driver' s seat
Front side under the
front passenger' s seat

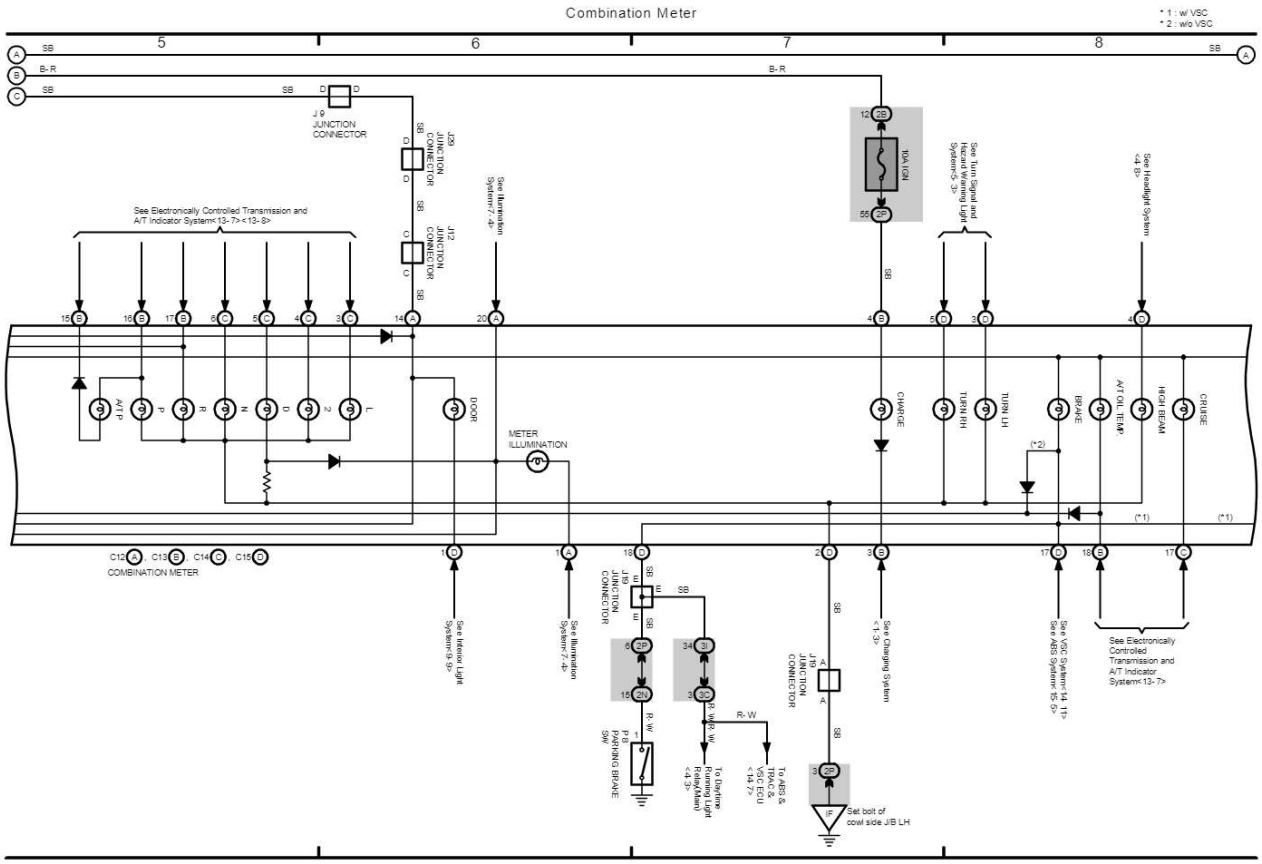

Power Source
Rear Heater (w/o Rear Air Conditioning)
1
2
3
4
ACC
IG1
AM1
I18
IGNITION SW
J4
JUNCTION CONNECTOR
10A
RR HTR
RR HTR
RELAY
20A
AM1 NO. 2
80A
AM1 NO. 1
IG1 NO. 2
RELAY
20A
ABS
100A
J/B NO. 2
140A ALT
F6
FUSIBLE LINK BLOCK
BATTERY
R22
REAR HEATER
BLOWER MOTOR
J31
JUNCTION
CONNECTOR
R24
REAR
HEATER FAN
RELAY
R23
REAR HEATER
BLOWER
RESISTOR
C6 A, C6 C, C6 D
CENTER ECU
RHR
RLO- I
RHI- I
RH- S
RHFR
GND
IG+
GND
R4
REAR HEATER SW
RLO- I
RHI- I
RHS
J7
JUNCTION
CONNECTOR
Front left side of fender apron
Under the driver's seat
Set bolt of cowl side J/B RH
Set bolt of cowl side J/B LH


Power Source
Radio and Player
1
2
3
4
I18
IGNITION SW
J 4
JUNCTION CONNECTOR
15A
CIGAR
20A
RADIO
20A
AM1
NO. 2
80A
AM1
NO. 1
F 6
FUSIBLE
LINK BLOCK
BATTERY
R 1
RADIO AND PLAYER
To Auto Antenna
Control Relay<11-4>
ANT+
MUTE
S. GND
RL+
RR+
BEEP
FL+
FR+
AMP+
ACC
+B
GND
ACC IN
ACC OUT
S 6
S 7
STEREO COMPONENT AMPLIFIER
F 8
FRONT DOOR
SPEAKER LH
T13
TWEETER LH
F 9
FRONT DOOR
SPEAKER RH
T14
TWEETER RH
R19
REAR DOOR
SPEAKER LH
R20
REAR DOOR
SPEAKER RH
W 4
WOOFER(Speaker)
Rear side under the
front passenger' s seat
(Shielded)

(Cont. next page)

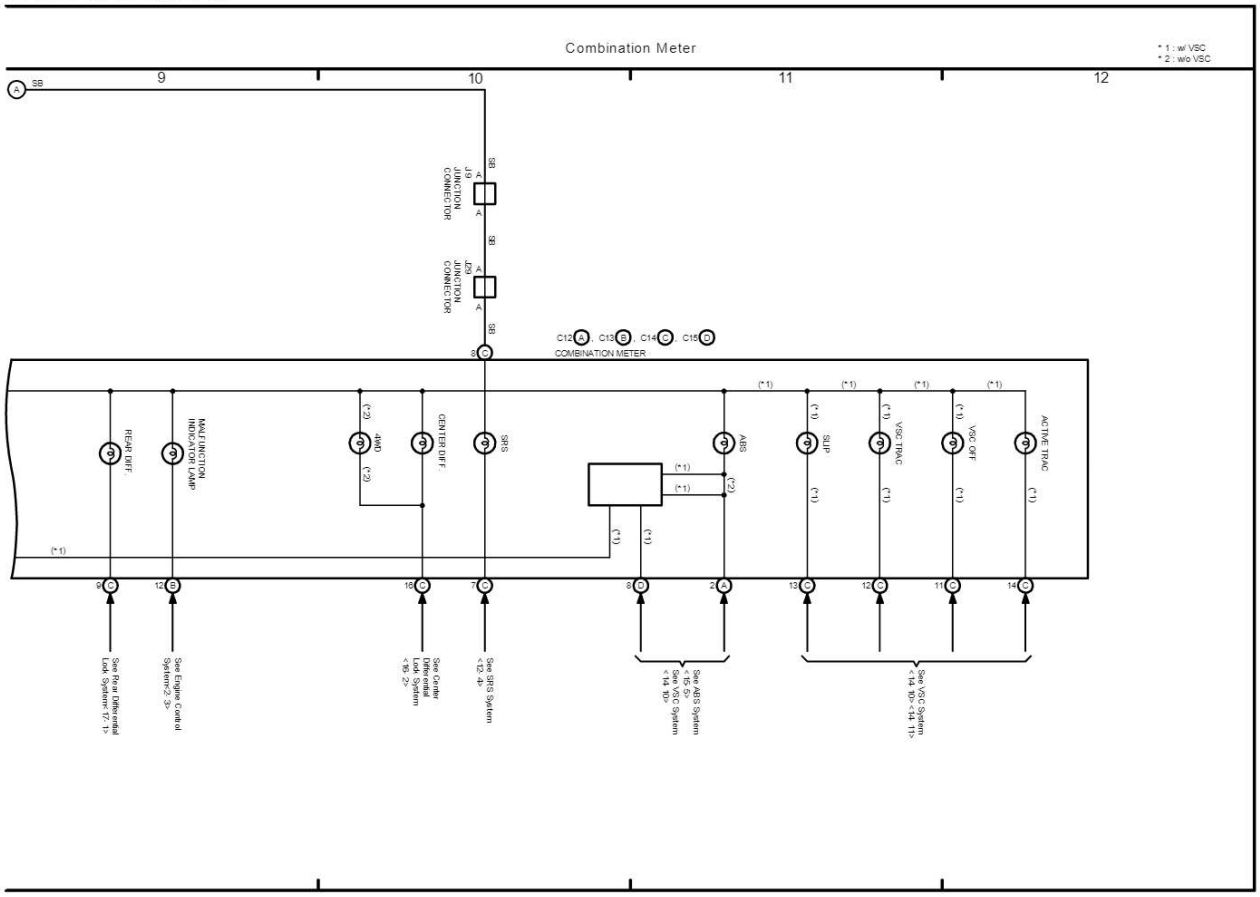


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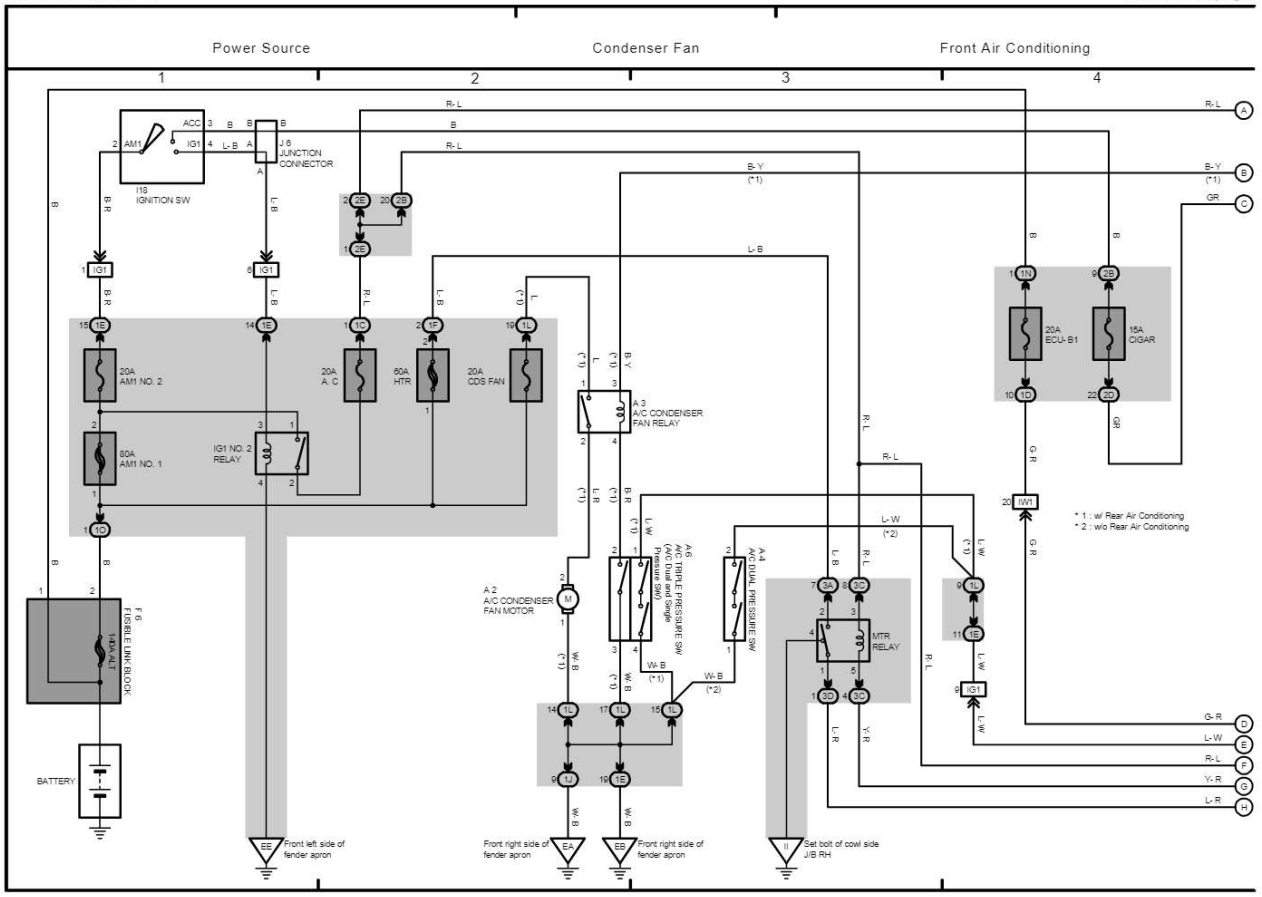


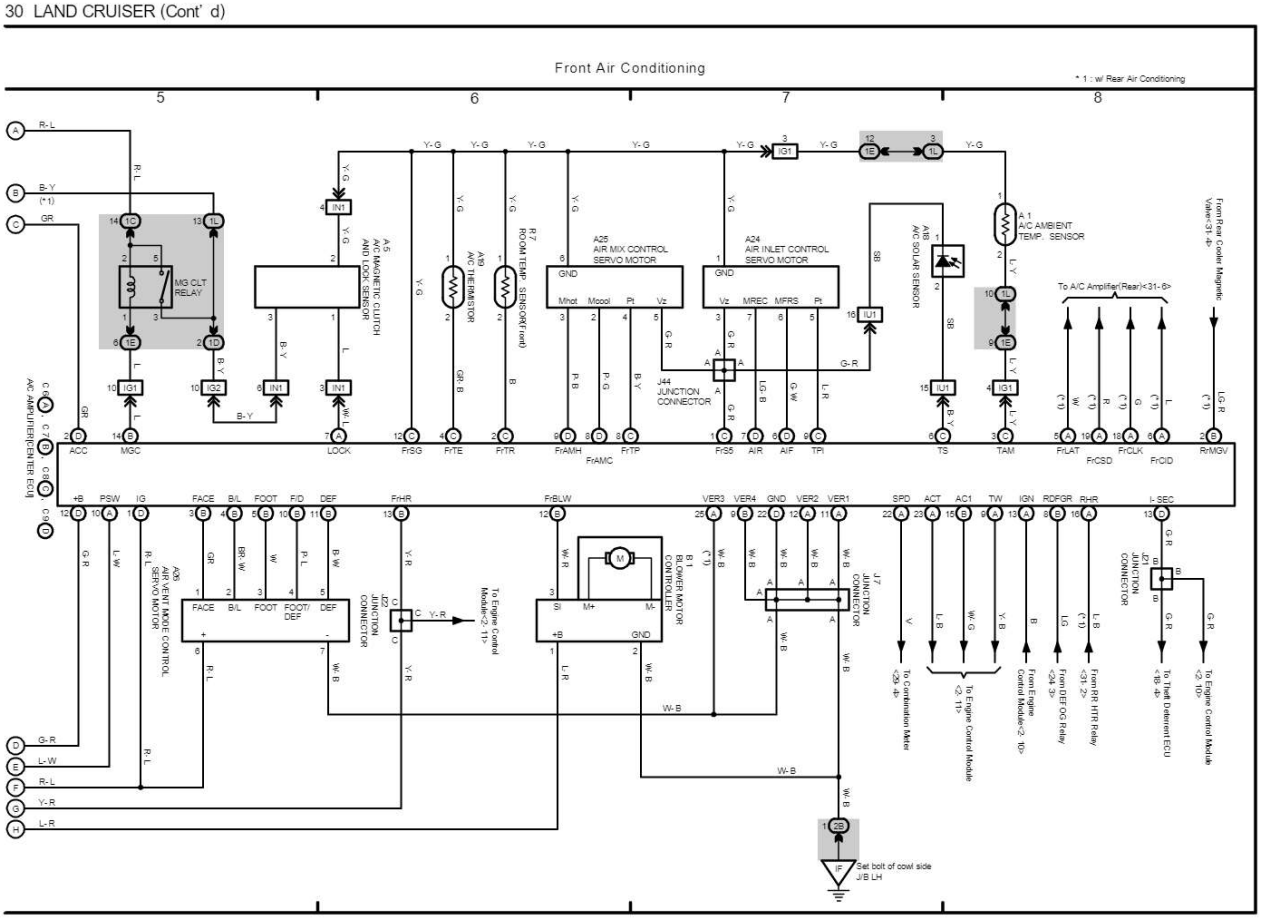
M

29 LAND CRUISER (Cont' d)

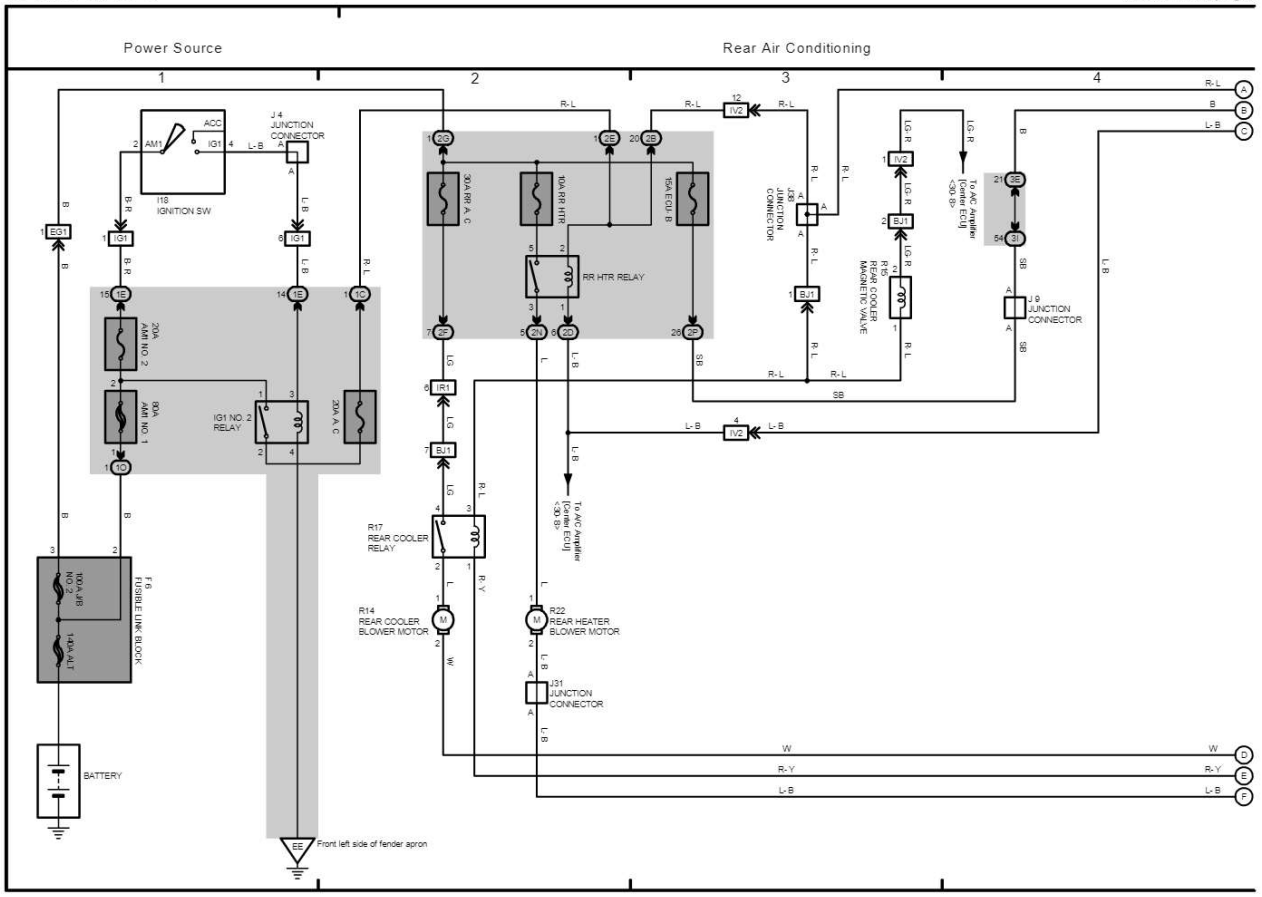


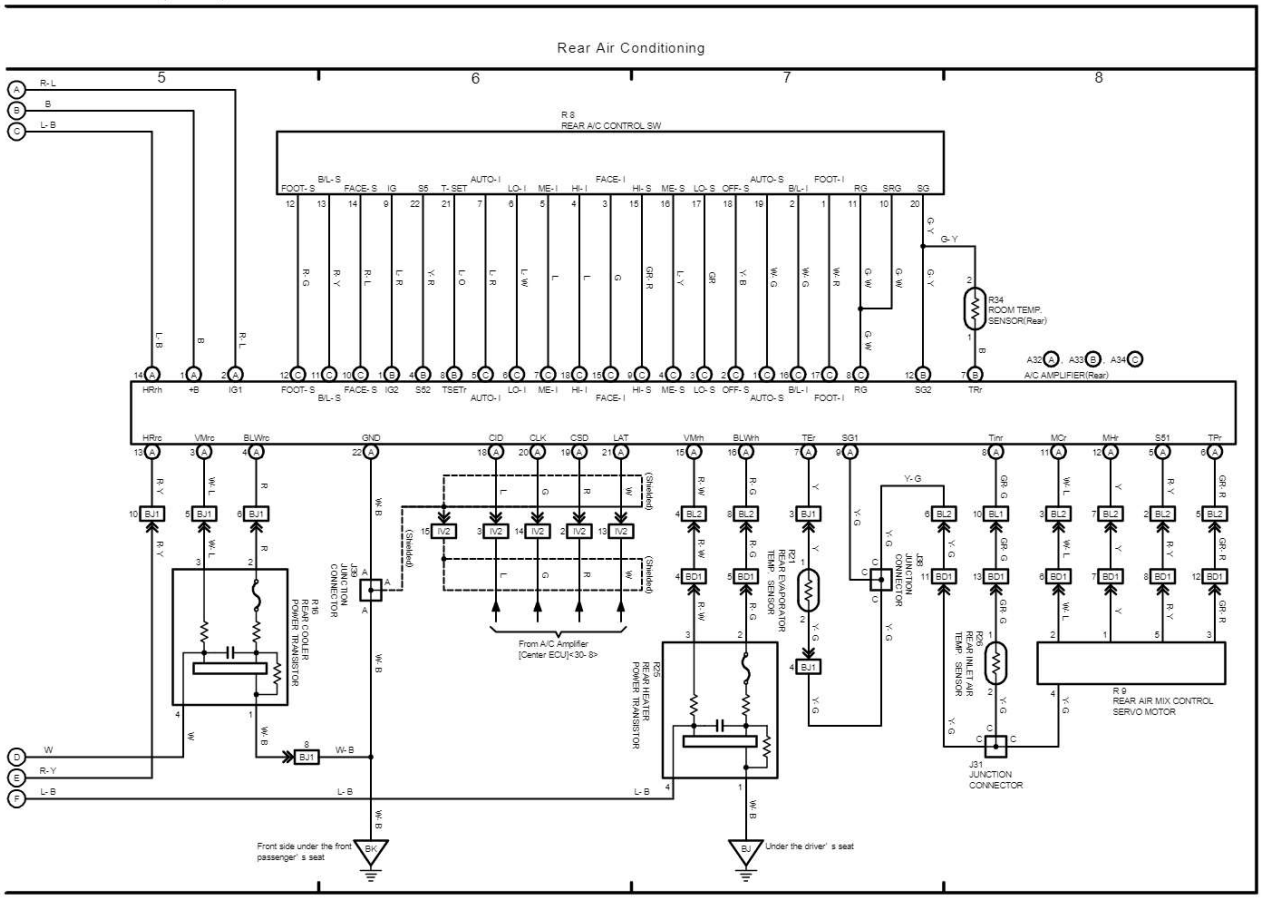
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Front Air Conditioning
* 1 : w/ Rear Air Conditioning
5
6
7
8
MG CLT RELAY
A5 A/C MAGNETIC CLUTCH AND LOCK SENSOR
A9 A/C THERMISTOR
R7 ROOM TEMP. SENSOR(front)
A25 AIR MIX CONTROL SERVO MOTOR
A24 AIR INLET CONTROL SERVO MOTOR
J44 JUNCTION CONNECTOR
A18 A/C SOLAR SENSOR
A1 A/C AMBIENT TEMP. SENSOR
To A/C Amplifier(Rear)<31-6>
From Rear Cooler Magnetic Valve<31-4>
A/C AMPLIFIER(CENTER ECU)
ACC
MGC
LOCK
FrSG
FrTE
FrTR
FrAMH
FrTP
FrAMC
FrSS
AIR
AIF
TPI
TS
TAM
FrLAT
FrCSD
FrCLK
FrOID
FrMGV
+B
PSW
IG
FACE
B/L
FOOT
F/D
DEF
FrHR
FrBLW
VER3
VER4
GND
VER2
VER1
SPD
ACT
AC1
TW
IGN
RDFGR
RHR
I-SEC
A26 AIR VENT MODE CONTROL SERVO MOTOR
FACE
B/L
FOOT
FOOT/ DEF
DEF
J2 JUNCTION CONNECTOR
To Engine Control Module<2- 11>
B1 BLOWER MOTOR CONTROLLER
J17 JUNCTION CONNECTOR
To Combination Meter <29- 4>
To Engine Control Module <2- 11>
From Engine Control Module<2- 10>
From DEFOG Relay <24- 3>
From RR HTR Relay <31- 2> (*1)
J21 JUNCTION CONNECTOR
To Theft Deterrent ECU <18- 4>
To Engine Control Module <2- 10>
Set bolt of cowl side J/B LH

(Cont. next page)




Rear Air Conditioning
5
6
7
8
R 8
REAR A/C CONTROL SW
FOOT- S
B/L- S
FACE- S
IG
S5
T- SET
AUTO- I
LO- I
ME- I
HI- I
FACE- I
HI- S
ME- S
LO- S
OFF- S
AUTO- S
B/L- I
FOOT- I
RG
SRG
SG
R34
ROOM TEMP. SENSOR(Rear)
A32
A33
A34
A/C AMPLIFIER(Rear)
HRrh
+B
IG1
IG2
S52
TSETr
SG2
TRr
HRrc
VMrc
BLWrc
GND
CID
CLK
CSD
LAT
VMrh
BLWrh
TEr
SG1
Tinr
MOr
MHr
S51
TPr
From A/C Amplifier
[Center ECU]<30- 8>
(Shielded)
R35
REAR COOLER POWER TRANSISTOR
J30
JUNCTION CONNECTOR
R25
REAR HEATER POWER TRANSISTOR
R24
REAR EVAPORATOR TEMP. SENSOR
J32
JUNCTION CONNECTOR
R26
REAR INLET AIR TEMP. SENSOR
J31
JUNCTION CONNECTOR
R 9
REAR AIR MIX CONTROL SERVO MOTOR
Front side under the front passenger' s seat
Under the driver' s seat

M