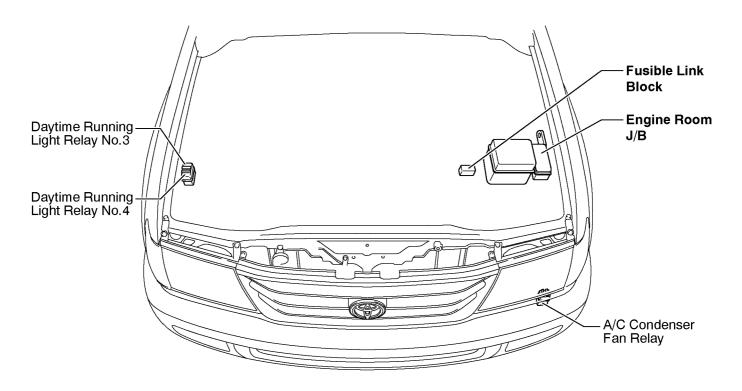
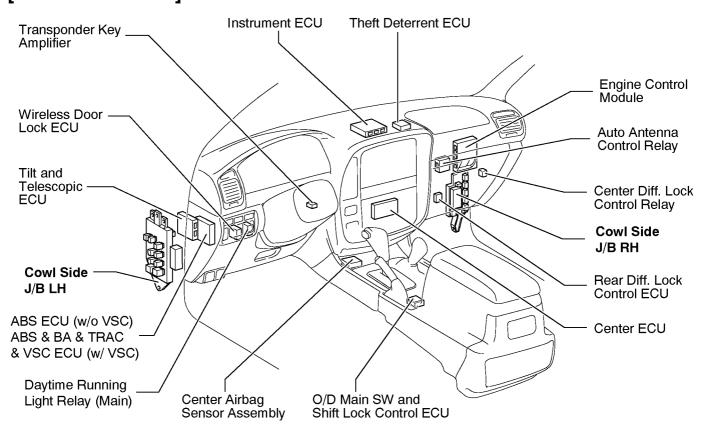
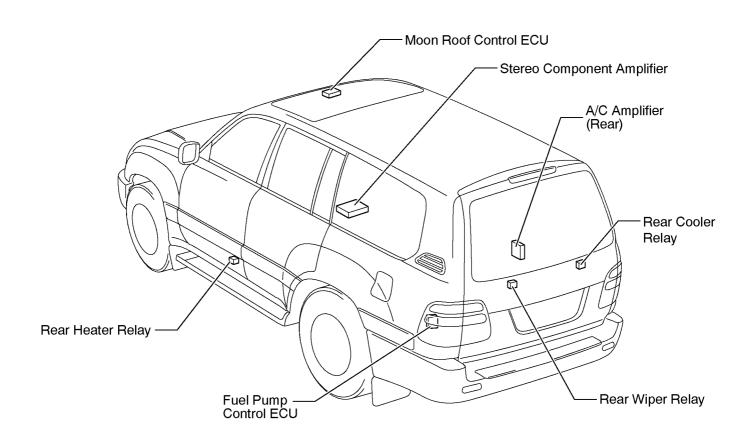
[Engine Compartment]



[Instrument Panel]

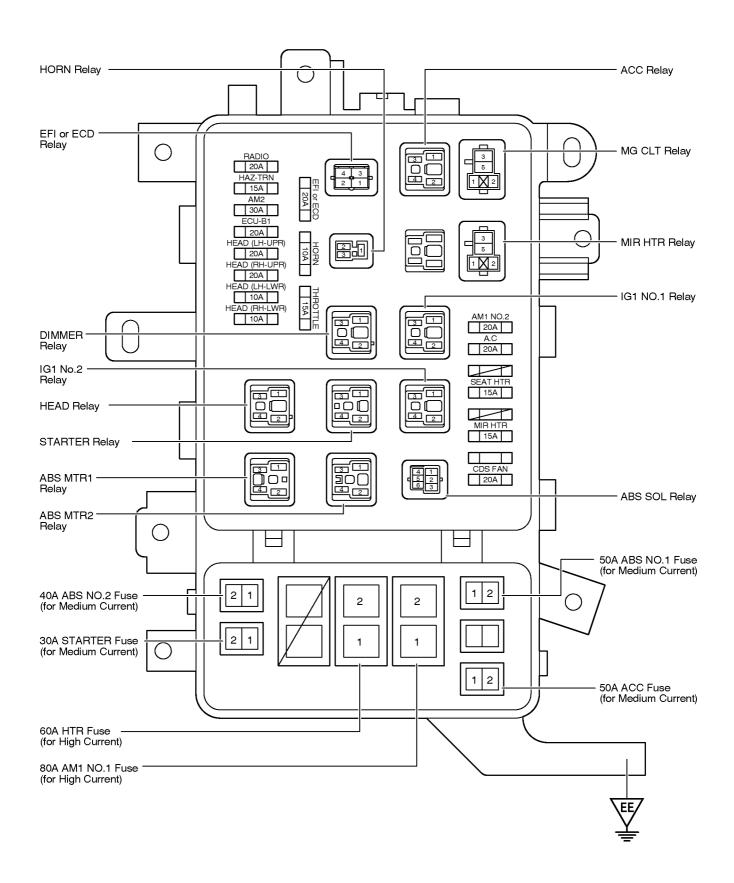


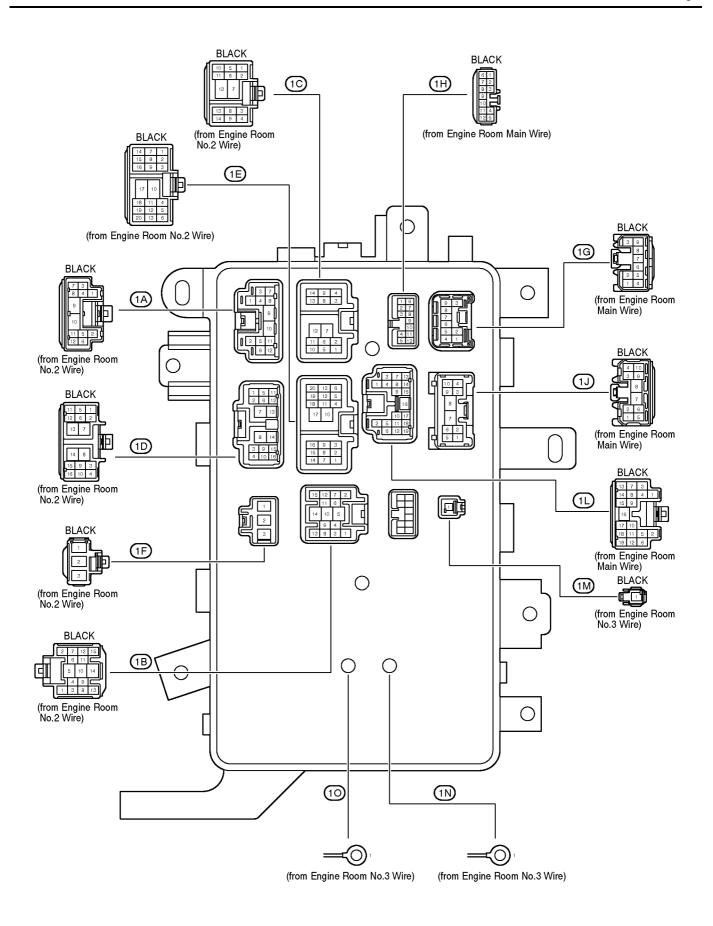
[Body]



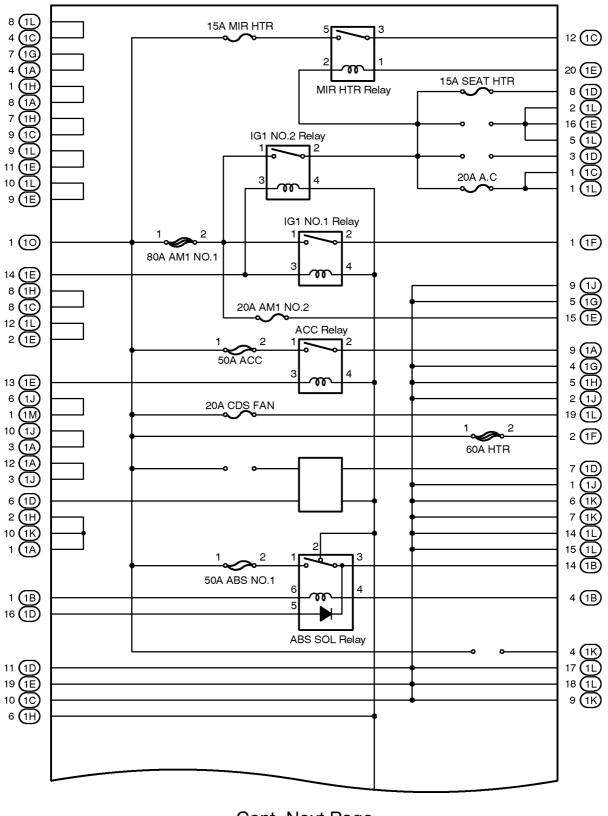
: Engine Room J/B

Engine Compartment Left (See Page 20)

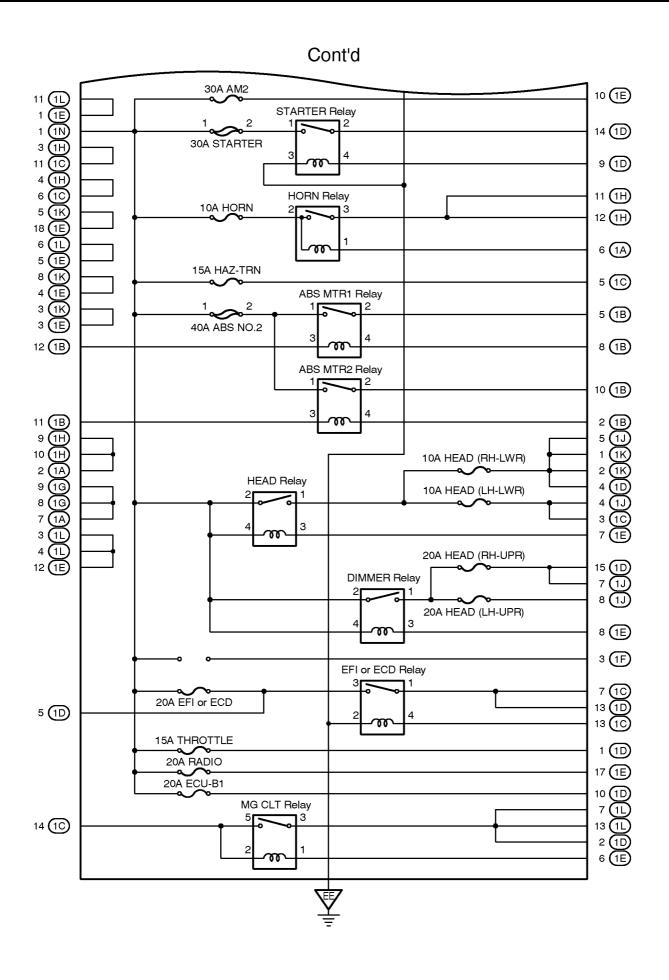


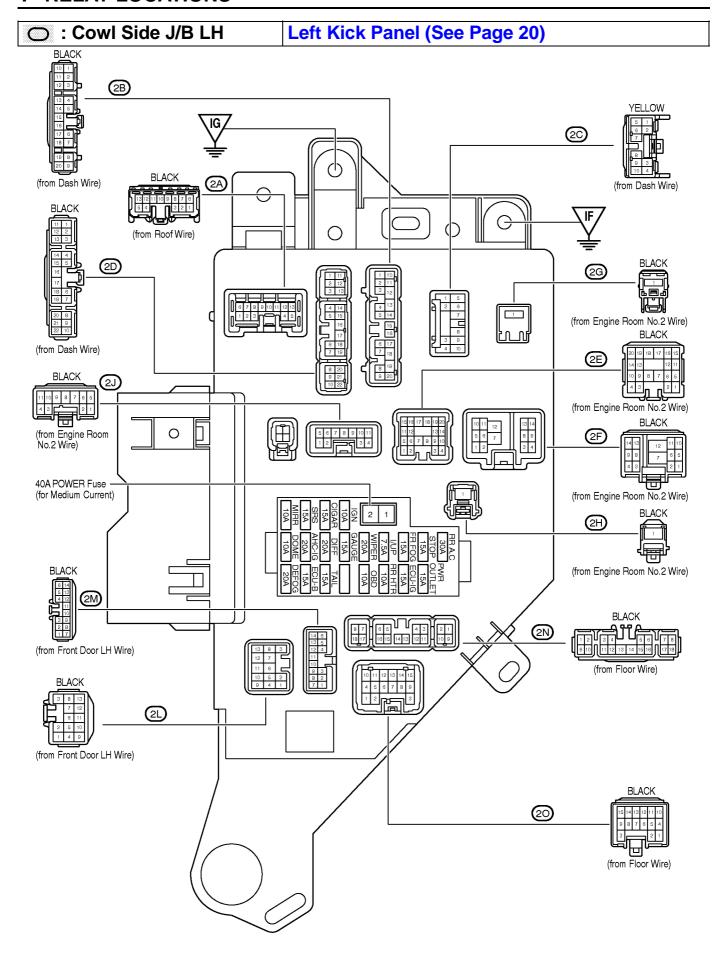


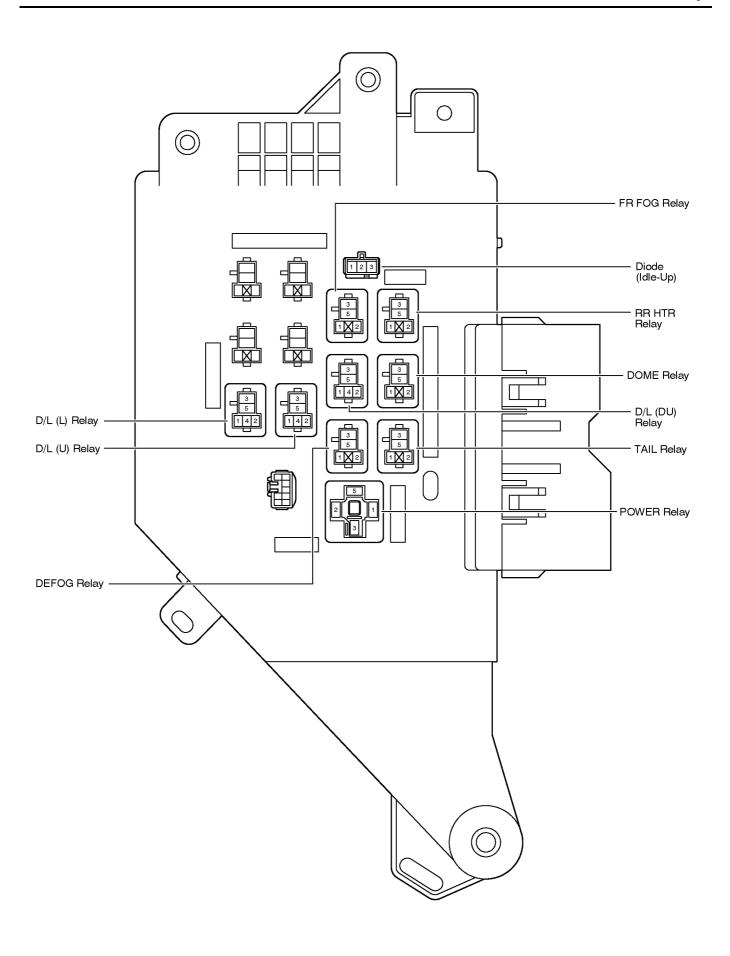
[Engine Room J/B Inner Circuit]



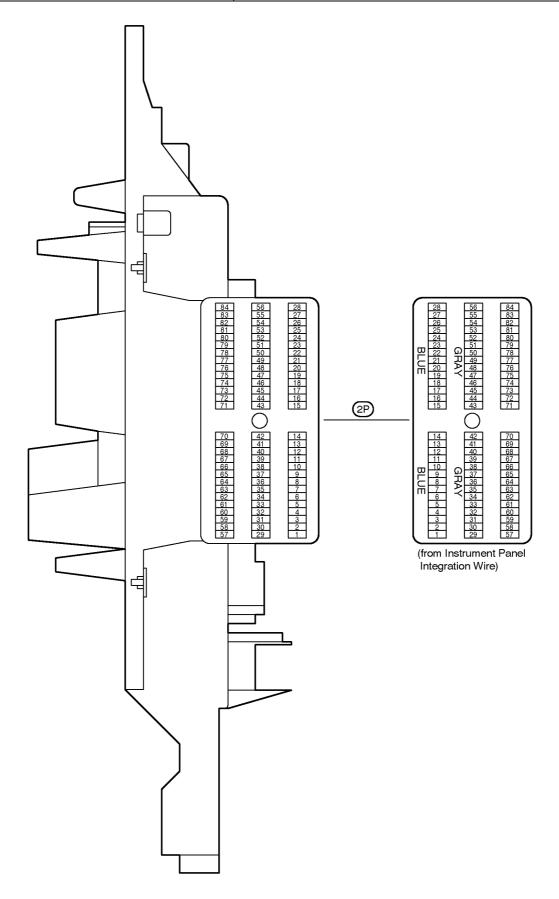
Cont. Next Page



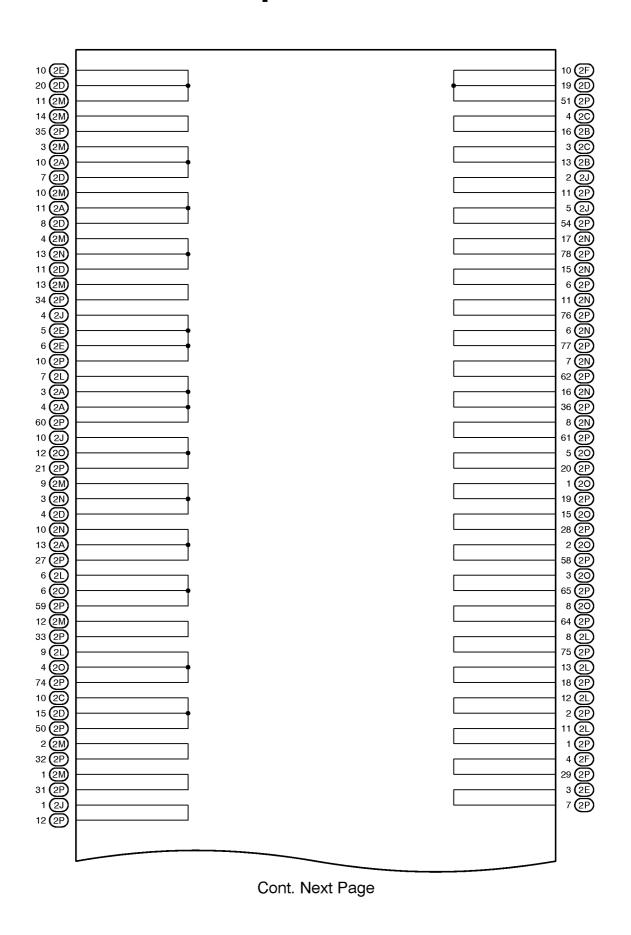




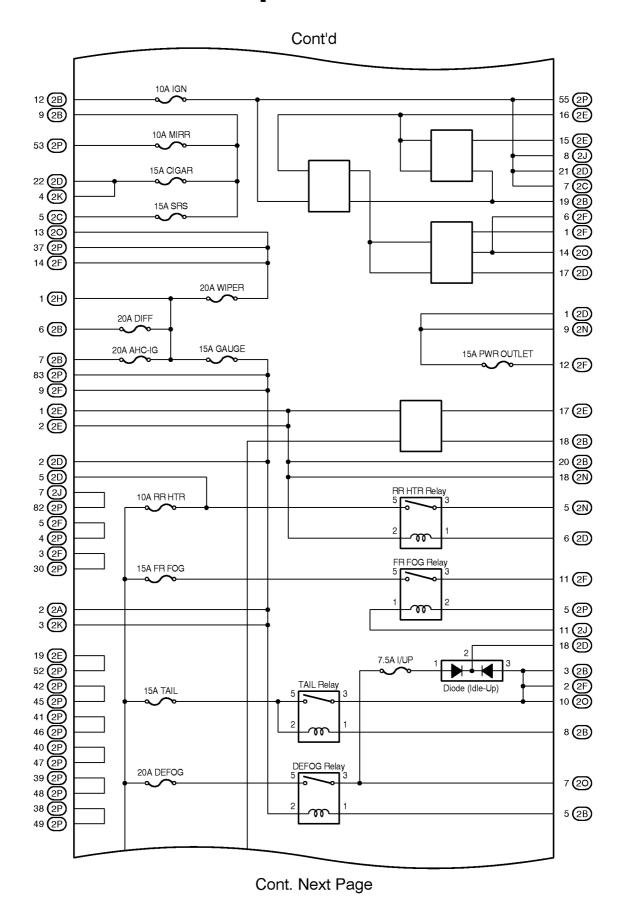
: Cowl Side J/B LH Left Kick Panel (See Page 20)

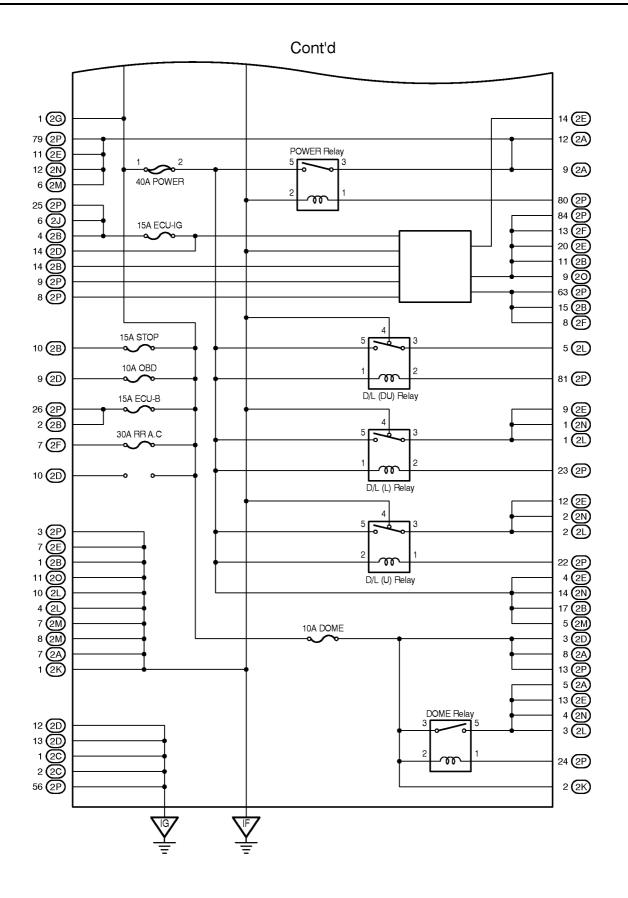


[Cowl Side J/B LH Inner Circuit]



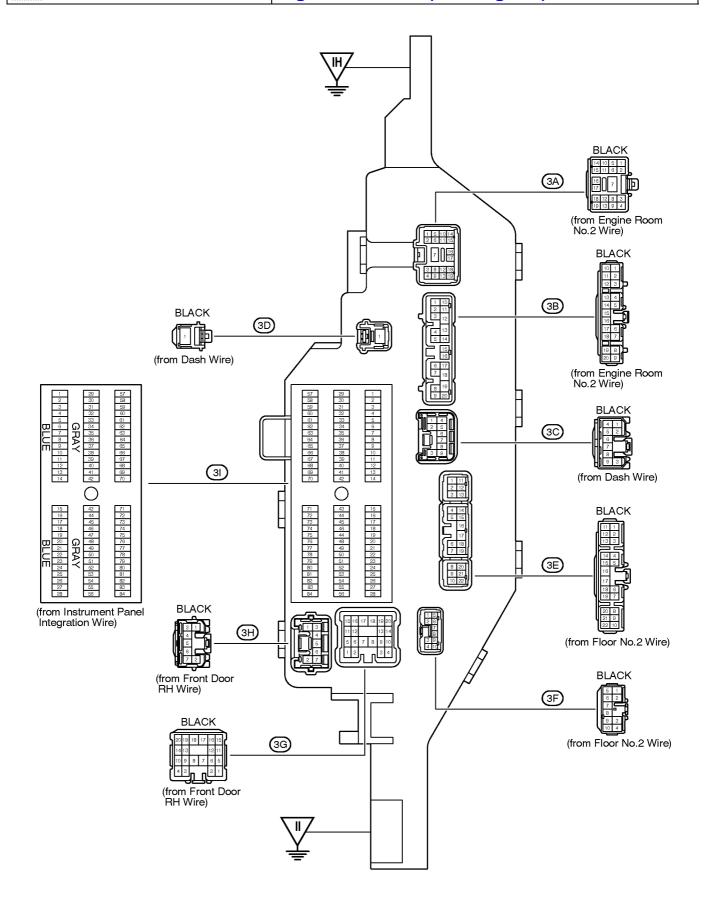
[Cowl Side J/B LH Inner Circuit]

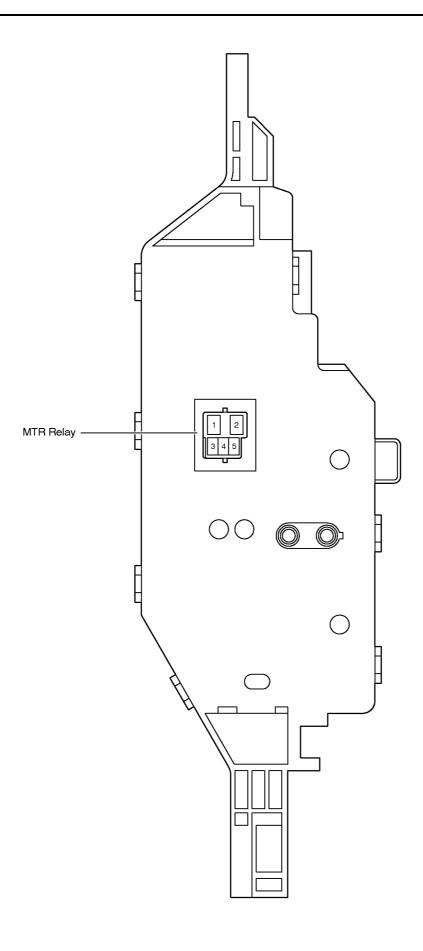




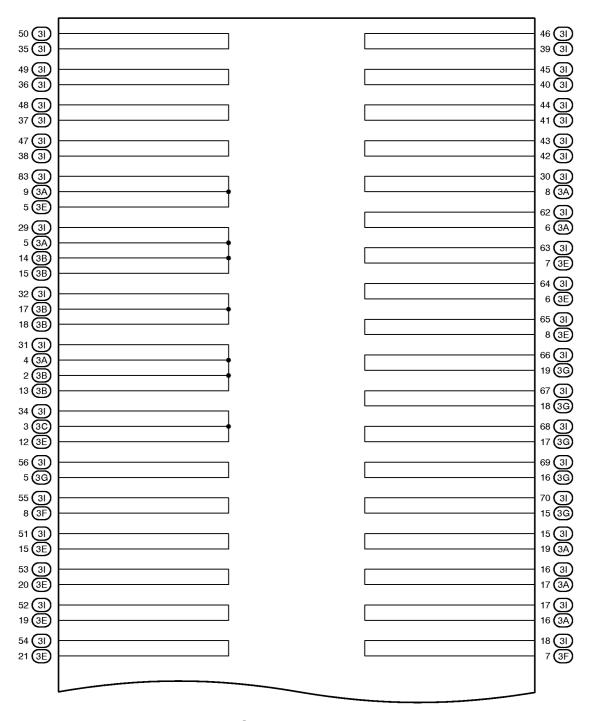
: Cowl Side J/B RH

Right Kick Penel (See Page 20)

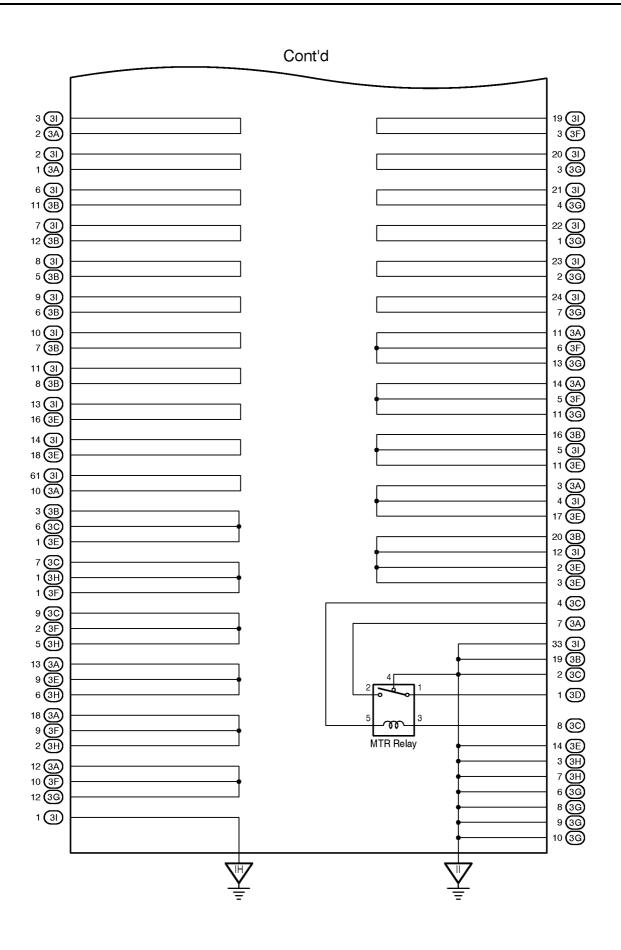




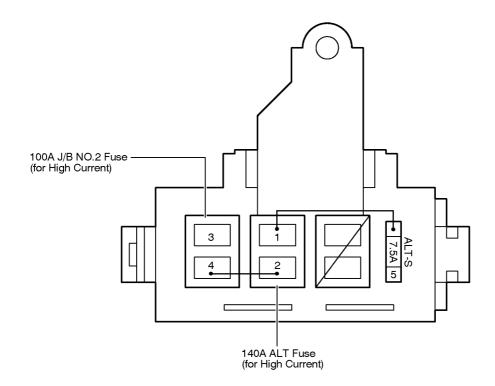
[Cowl Side J/B RH Inner Circuit]



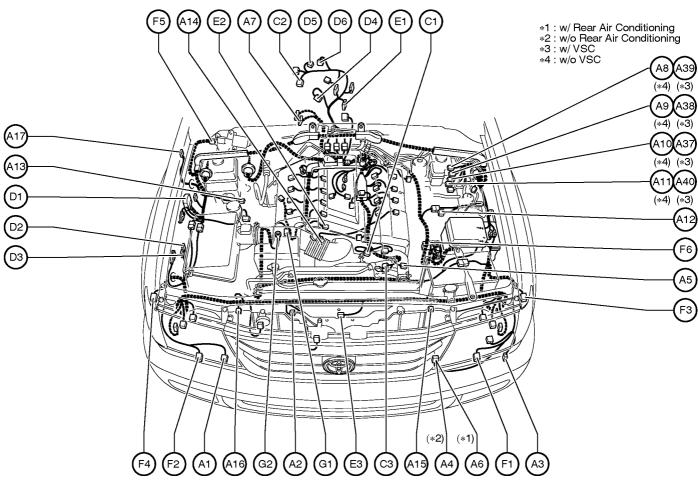
Cont. Next Page



Near the Battery (See Page 20)



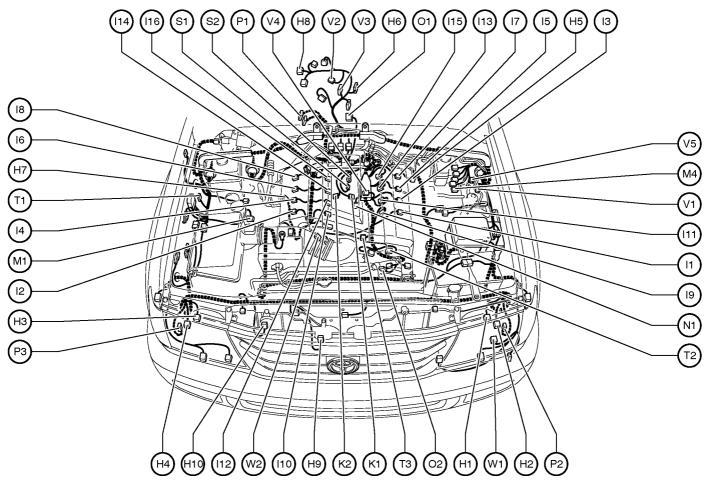
Position of Parts in Engine Compartment



- 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
- A 11 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
- A 40 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

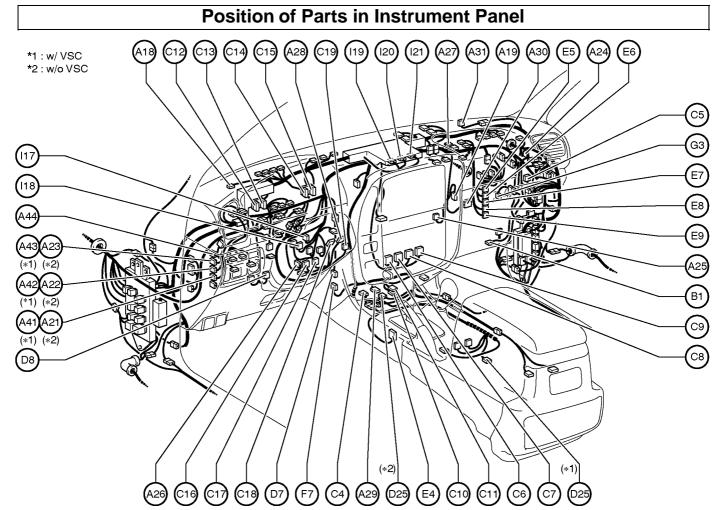
Position of Parts in Engine Compartment



- 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

G ELECTRICAL WIRING ROUTING



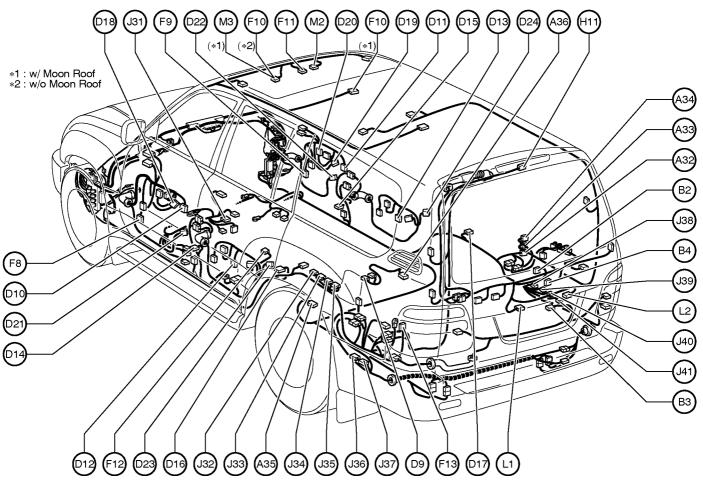
- A18 A/C Solar Sensor A19 A/C Thermistor
- A21 ABS ECU
- A22 ABS ECU
- A23 ABS ECU
- A24 Air Inlet Control Servo Motor
- A25 Air Mix Control Servo Motor
- A26 Air Vent Mode Control Servo Motor
- A27 Airbag Squib (Front Passenger Airbag Assembly)A28 Airbag Squib (Steering Wheel Pad)
- A29 Ashtray Illumination
- 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
- 4 Center Airbag Sensor Assembly
- 5 Center Diff. Lock Control Relay С
- C 6 Center ECU
- С 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 *1: w/ VSC *2: w/o VSC **(**J12) J4 J10 J13 J15 J20 J26 J28 J30 J21 R5 J25 Q, J24 J23 Т5 V8 R2 J7 R1 (R7 (03 **(**U1) (T10) **(**W3 (T11 (кз **(**T9 Y1 S4 Junction Connector 4 Power Outlet (Front) **Junction Connector** 5 Power Outlet (Rear Console Box) Junction Connector Junction Connector P Power Quarter Window SW LH Power Quarter Window SW RH Junction Connector Junction Connector Radio and Player Rear Diff. Lock Control ECU Rear Diff. Lock SW J 10 Junction Connector R **Junction Connector** J 11 Junction Connector R Rear Heater SW J 12 Junction Connector R 5 Remote Control Mirror SW J 13 R 6 R 7 Junction Connector Rheostat J 15 Junction Connector Room Temp. Sensor (Front) Junction Connector Junction Connector Junction Connector J 16 Seat Heater SW (Driver's Seat) Seat Heater SW (Front Passenger's Seat) J 17 J 18 Junction Connector S 5 Stop Light SW J 20 **Junction Connector** Junction Connector Junction Connector J 21 Т Telescopic Motor J 22 Theft Deterrent ECU 6 Theft Deterrent ECU J 23 **Junction Connector** Τ J 24 Junction Connector Tilt and Telescopic ECU J 25 **Junction Connector** Τ Tilt and Telescopic ECU Junction Connector Junction Connector J 26 Tilt Motor J 27 T 10 Transponder Key Amplifier J 28 Junction Connector T 11 Turn Signal Flasher J 29 Junction Connector J 30 Junction Connector U 1 Unlock Warning SW J 42 **Junction Connector** J 43 Junction Connector V 8 VSC Warning Buzzer J 44 Junction Connector W 3 Wireless Door Lock ECU K 3 Key Interlock Solenoid Y 1 Yaw Rate Sensor

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

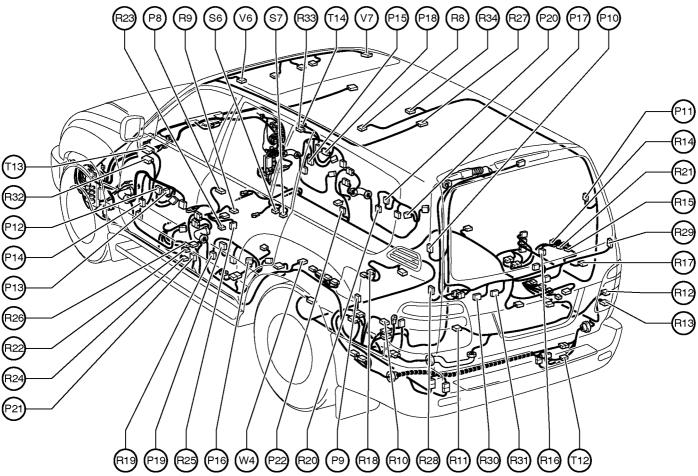
Position of Parts in Body



- A32 A/C Amplifier (Rear)
- A33 A/C Amplifier (Rear)
- A34 A/C Amplifier (Rear)
- A35 ABS Speed Sensor Rear LH
- A36 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)
- D10 Door Courtesy Light Front LH
- D11 Door Courtesy Light Front RH
- D12 Door Courtesy Light Rear LH
- D13 Door Courtesy Light Rear RH
- D14 Door Courtesy SW Front LH
- D15 Door Courtesy SW Front RH
- D16 Door Courtesy SW Rear LH
- D17 Door Courtesy SW Rear RH
- D18 Door Key Lock and Unlock SW LH
- D19 Door Key Lock and Unlock SW RH
- D20 Door Lock Control SW RH
- D21 Door Lock Motor and Door Unlock Detection SW Front LH
- D22 Door Lock Motor and Door Unlock Detection SW Front RH
- D23 Door Lock Motor and Door Unlock Detection SW Rear I H
- D24 Door Lock Motor and Door Unlock Detection SW Rear RH

- 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
- F12 Fuel Pump and Sender
- F13 Fuel Pump Control ECU
- H11 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

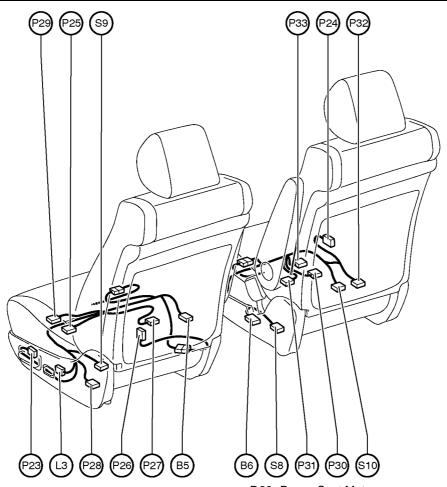
Position of Parts in Body



- P 8 Parking Brake SW
- P 9 Power Outlet (Luggage Compartment)
- P10 Power Vent Window Motor LH
- P 11 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

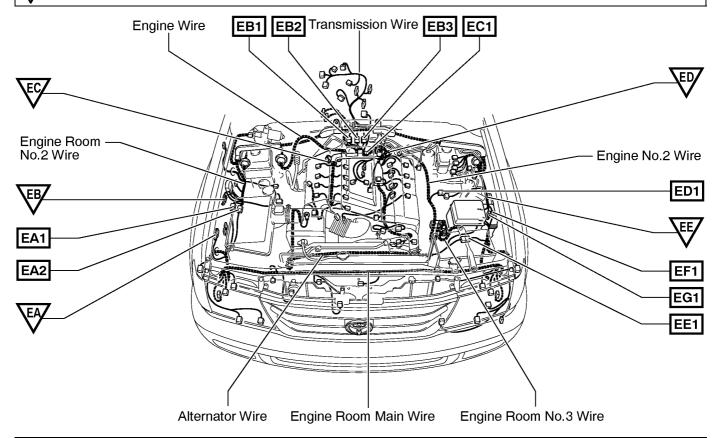


- B 5 Buckle SW LH B 6 Buckle SW RH
- L 3 Lumbar Support Control SW (Driver's Seat)
- P23 Power Seat Control SW (Driver's Seat)
- P24 Power Seat Control SW (Front Passenger's Seat)
- P25 Power Seat Motor (Driver's Seat Front Vertical Control)
- P26 Power Seat Motor (Driver's Seat Lumbar Support Control)
- P27 Power Seat Motor (Driver's Seat Rear Vertical Control)
- P28 Power Seat Motor (Driver's Seat Reclining Control)

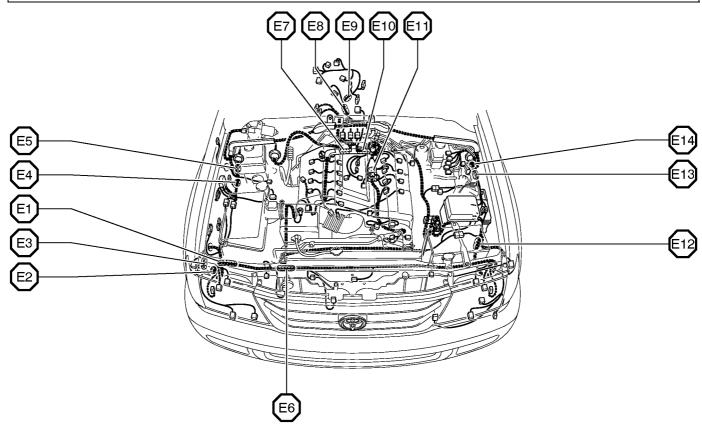
- P29 Power Seat Motor (Driver's Seat Slide Control)
- P30 Power Seat Motor (Front Passenger's Seat Front Vertical Control)
- P31 Power Seat Motor (Front Passenger's Seat Rear Vertical Control)
- P32 Power Seat Motor (Front Passenger's Seat Reclining Control)
- P33 Power Seat Motor (Front Passenger's 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

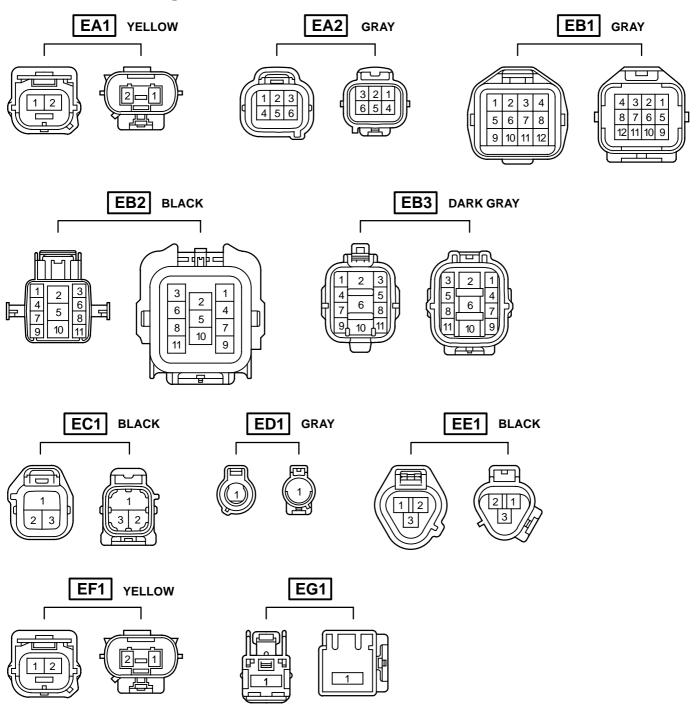
☐ : Location of Connector Joining Wire Harness and Wire Harness



: Location of Splice Points



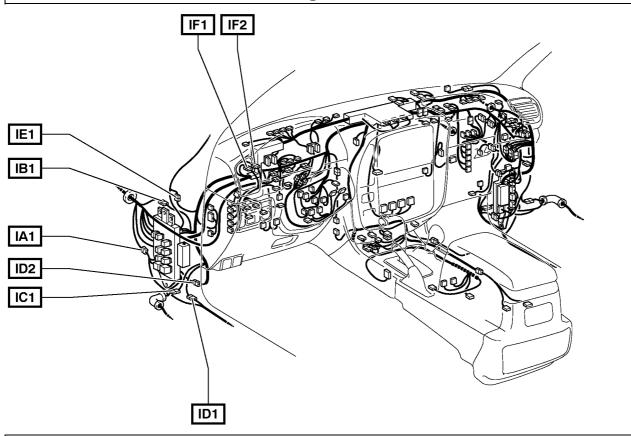
Connector Joining Wire Harness and Wire Harness



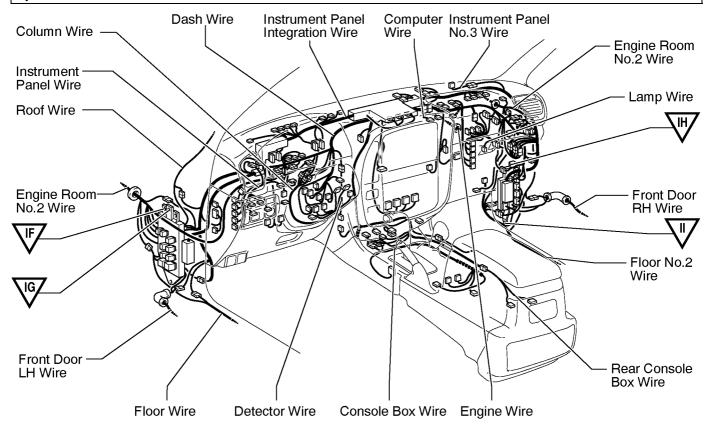
Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
EA2	
EB1	Engine Wire and Transmission Wire (On the Transmission)
EB2	
EB3	
EC1	Engine No.2 Wire and Engine Wire (On the Transmission)
ED1	Engine No.2 Wire and 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)

G ELECTRICAL WIRING ROUTING

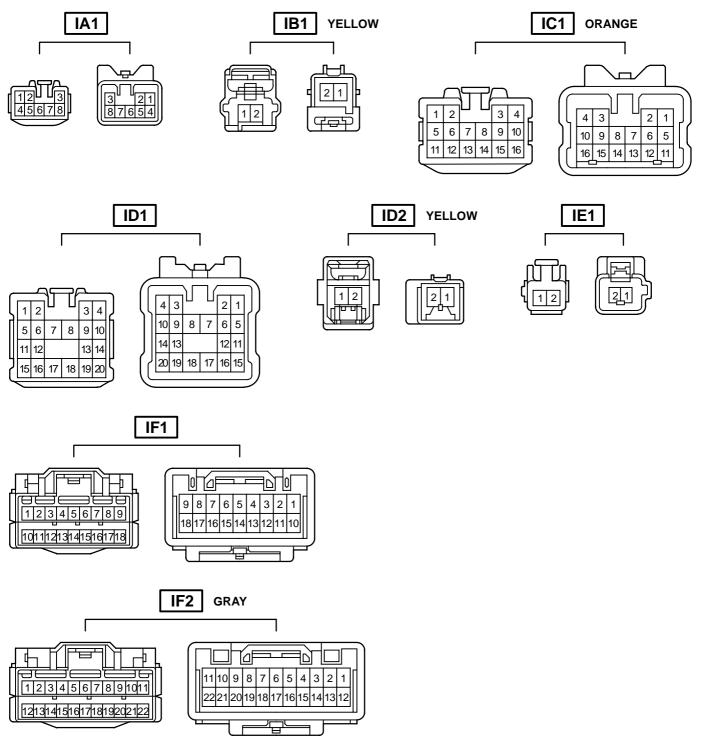
☐ : Location of Connector Joining Wire Harness and Wire Harness



: Location of Ground Points

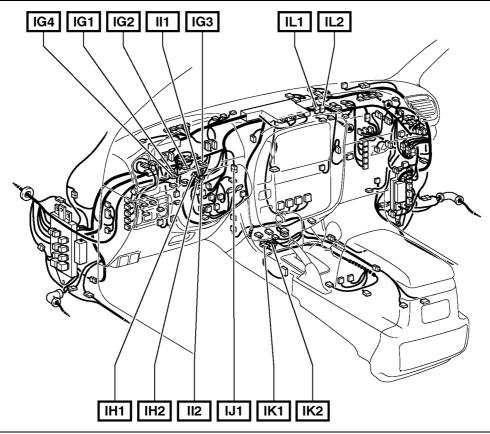


Connector Joining Wire Harness and Wire Harness

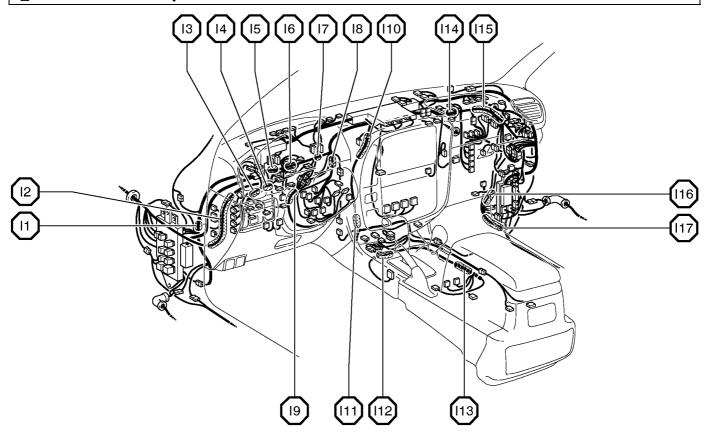


Code	Joining Wire Harness and Wire Harness (Connector Location)
IA1	Floor Wire and Engine Room No.2 Wire (Left Kick Panel)
IB1	Engine Room No.2 Wire and Dash Wire (Left Kick Panel)
IC1	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID1	Dash Wire and Floor Wire (Left Kick Panel)
ID2	
IE1	Dash Wire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

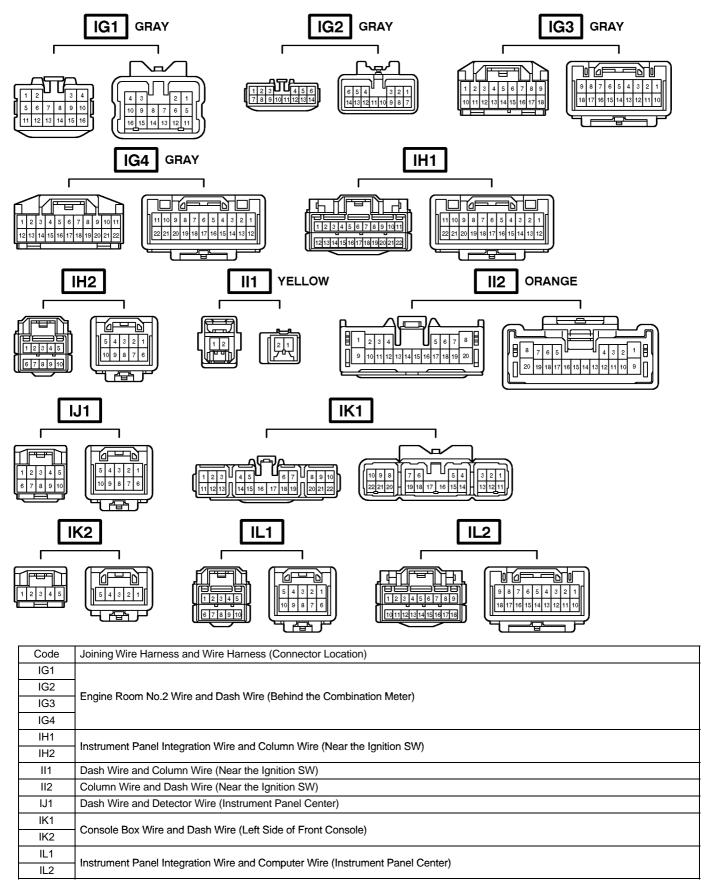
☐ : Location of Connector Joining Wire Harness and Wire Harness



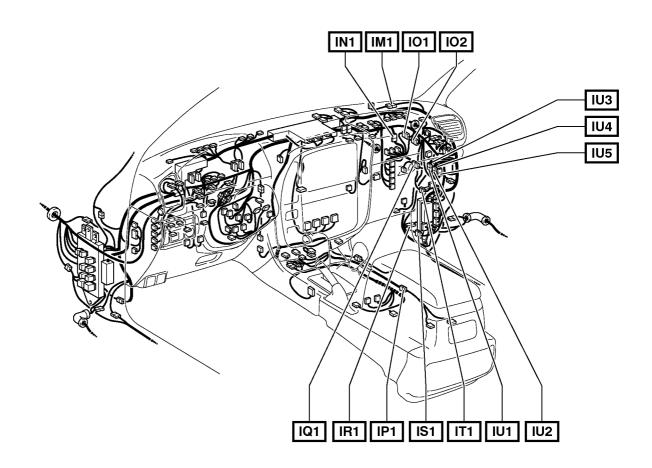
: Location of Splice Points



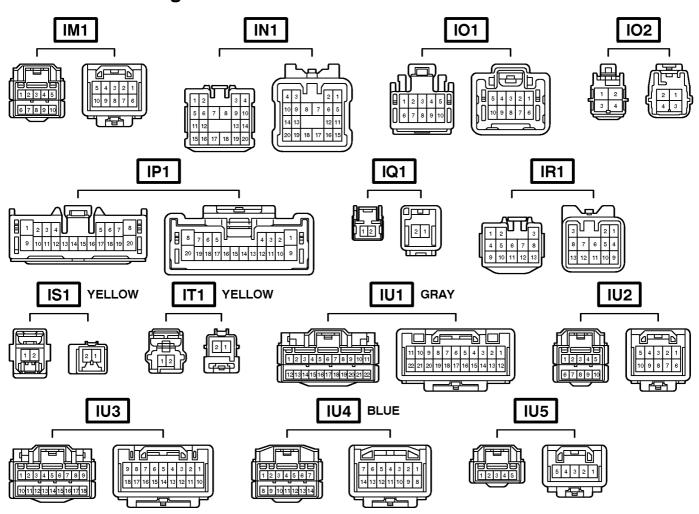
Connector Joining Wire Harness and Wire Harness



☐ : Location of Connector Joining Wire Harness and Wire Harness

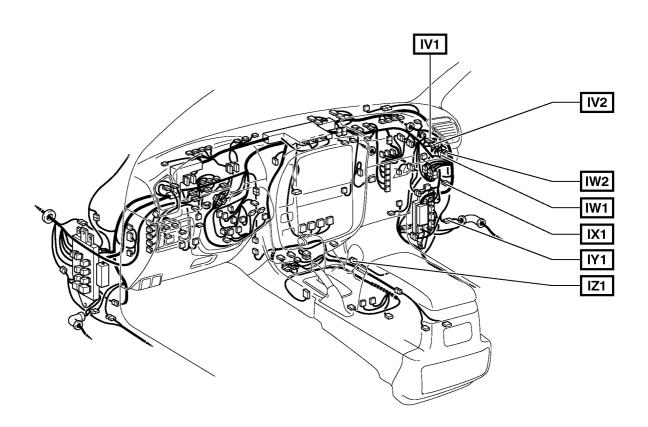


Connector Joining Wire Harness and Wire Harness

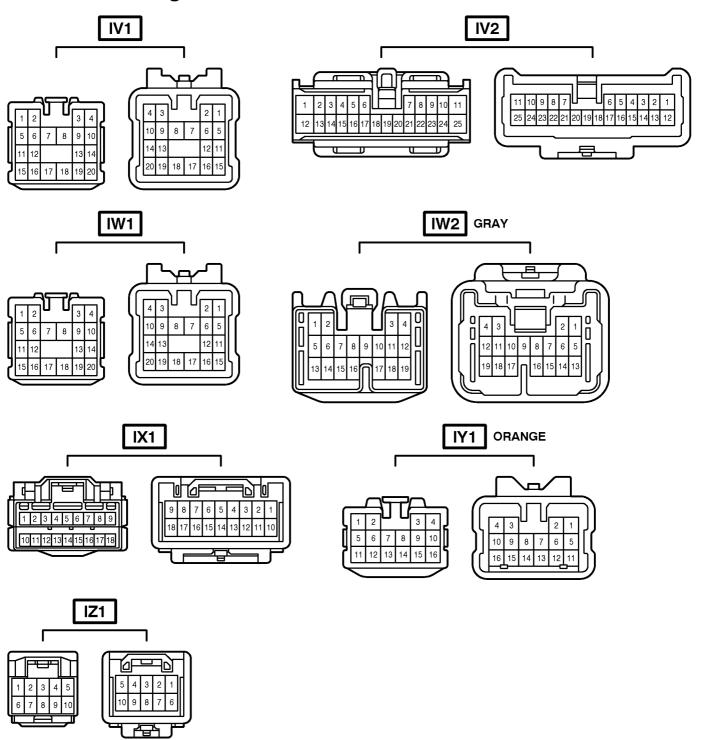


Code	Joining Wire Harness and Wire Harness (Connector Location)
IM1	Instrument Panel Integration Wire and Instrument Panel No.3 Wire (Right Side of Instrument Panel)
IN1	
IO1	Engine Wire and Dash Wire (Behind the Glove Box)
102	
IP1	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)
IQ1	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

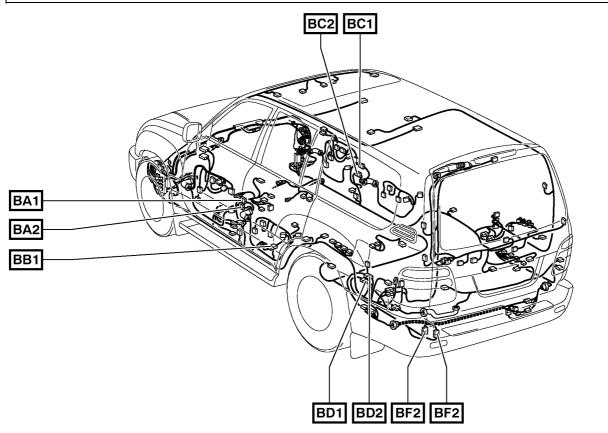


Connector Joining Wire Harness and Wire Harness

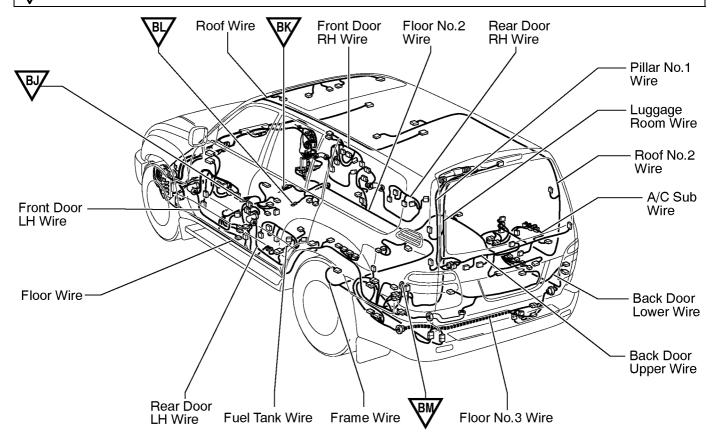


Code	Joining Wire Harness and Wire Harness (Connector Location)
IV1	Dash Wire and Floor No.2 Wire (Behind the Glove Box)
IV2	
IW1	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IW2	
IX1	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
IY1	Front Door RH Wire and Dash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

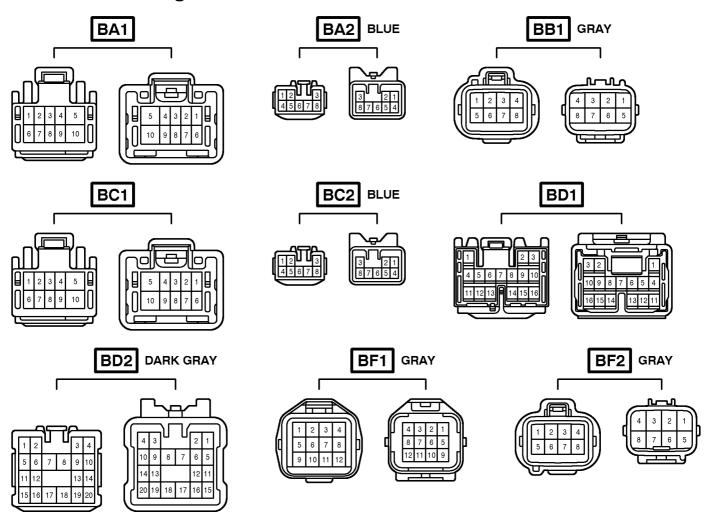
□ : Location of Connector Joining Wire Harness and Wire Harness



: Location of Ground Points

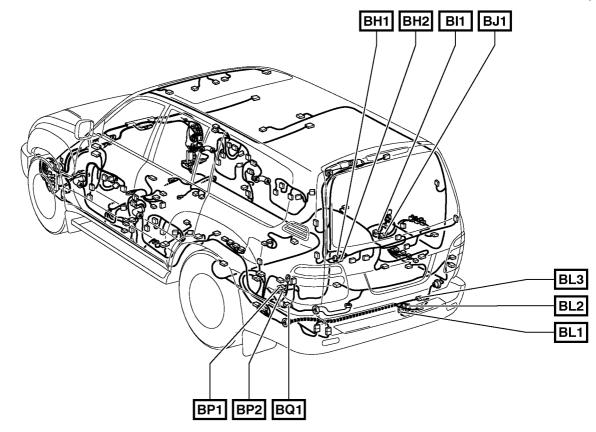


Connector Joining Wire Harness and Wire Harness

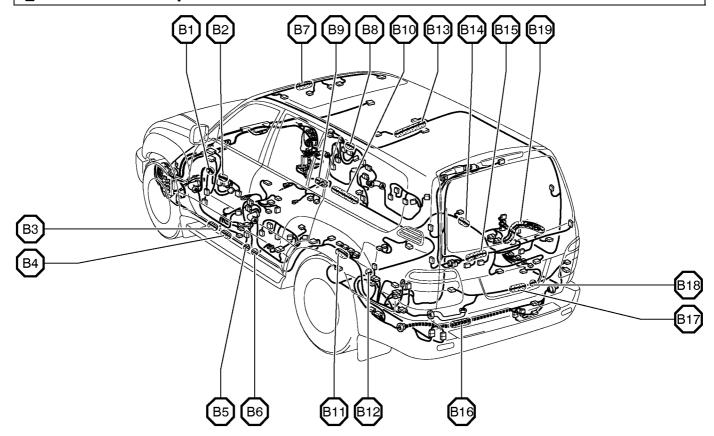


Code	loining Wire Harness and Wire Harness (Connector Location)					
BA1	Door Door LLI Wire and Floor Wire /I off Cide of Control Billon					
BA2	Rear Door LH Wire and Floor Wire (Left Side of Center Pillar)					
BB1	or Wire and Fuel Tank Wire (Near the Fuel Tank)					
BC1	B. B. BUINE JEL M. CHE (B. L.C.) (O. J. B. J.)					
BC2	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)					
BD1	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)					
BD2						
BF1	France Military and Floor No. 2 Military (Left Cide of Poor Floor Crossmann and					
BF2	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)					

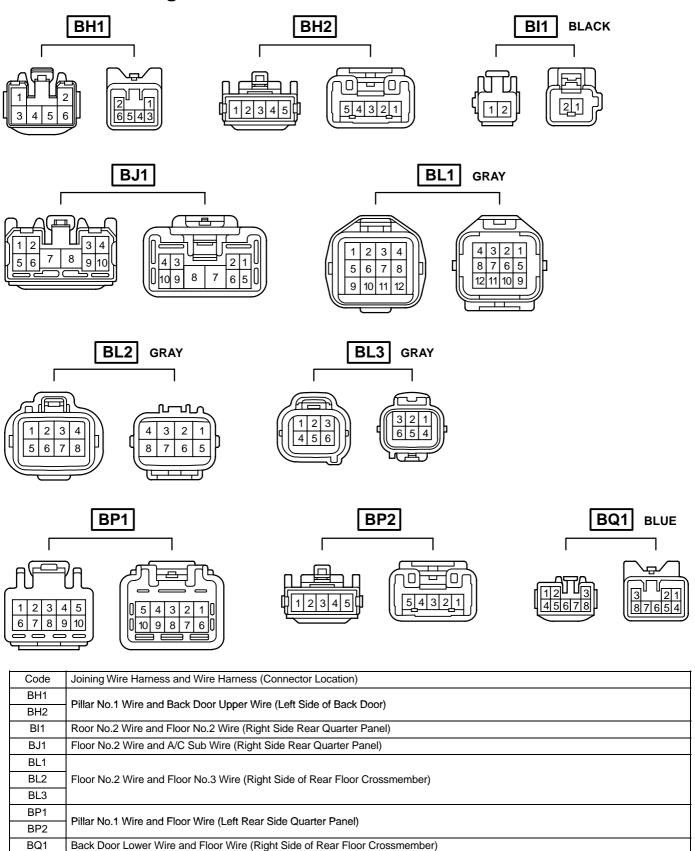
☐ : Location of Connector Joining Wire Harness and Wire Harness



: Location of Splice Points

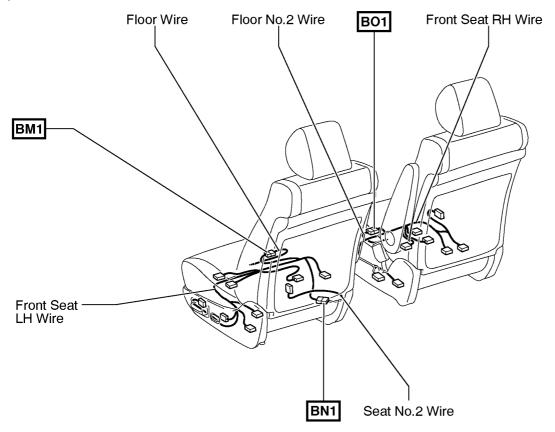


Connector Joining Wire Harness and Wire Harness

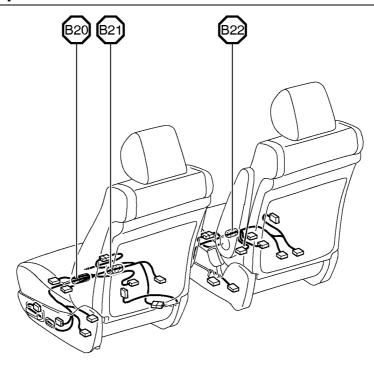


G ELECTRICAL WIRING ROUTING

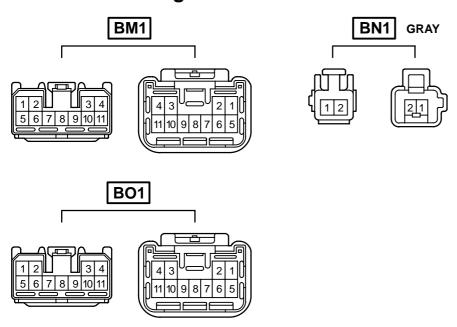
☐ : Location of Connector Joining Wire Harness and Wire Harness



: Location of Splice Points

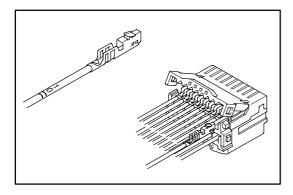


Connector Joining Wire Harness and Wire Harness



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)

HINT



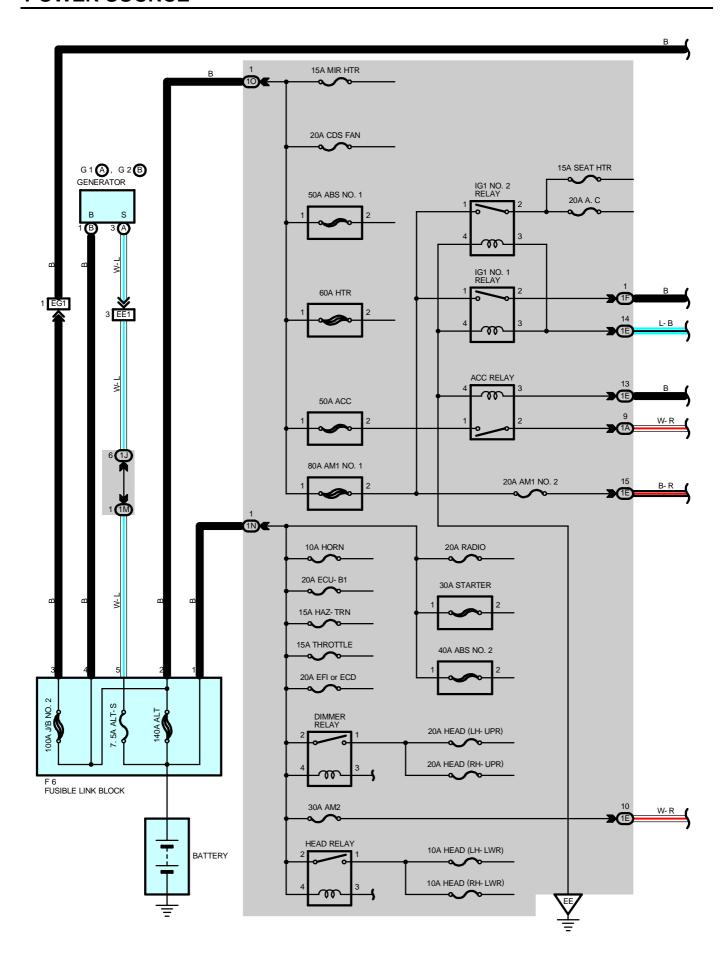
WIRE COLOR AND TERMINAL NUMBER

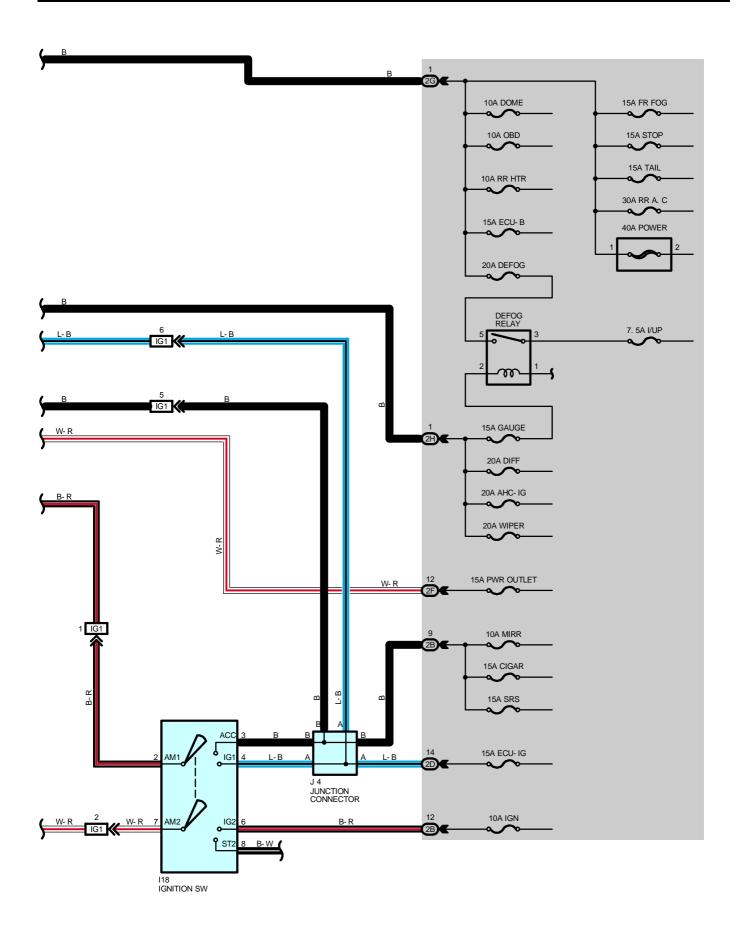
In some parts of the instrumental panel wiring harness, the same wire color (i.e. SB: Sky Blue) is used for all the wiring to a specific connector.

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.





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		de	See Page	Code		See Page	Code	See Page
	F6		6 38		В	38	J4	41
G1 A		Α	38	I1	8	40		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

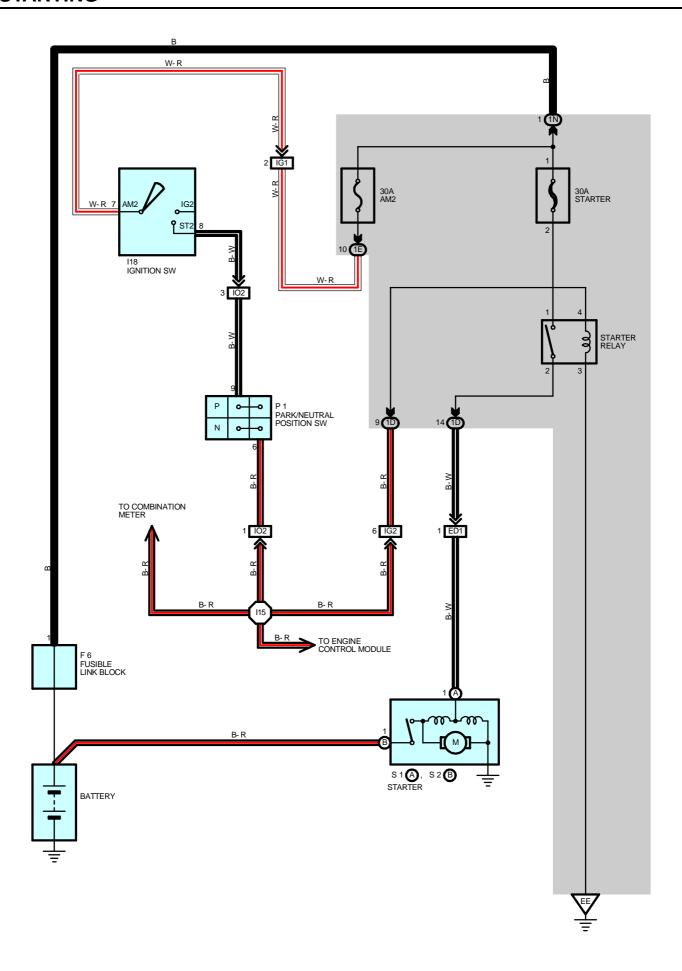
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A		
1E	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1F		
1J	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1M		
1N	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)
10		
2B	26	Doob Wire and Coul Cide 1/D LLL (Left Kiels Done)
2D	20	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2F		
2G	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2H		

TONNECTOR 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)			
ſ	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	



- 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 ${\bf P}$ or ${\bf N}$ position and ignition SW at ${\bf ST}$ position

: PARTS LOCATION

Code	See Page	Code		See Page	Code		See Page
F6	38	P1	1	39	S2	В	39
I18	40	S1	Α	39			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1D	00	Engine Deem No 2 Wire and Engine Deem I/D (Engine Compartment Left)			
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)			

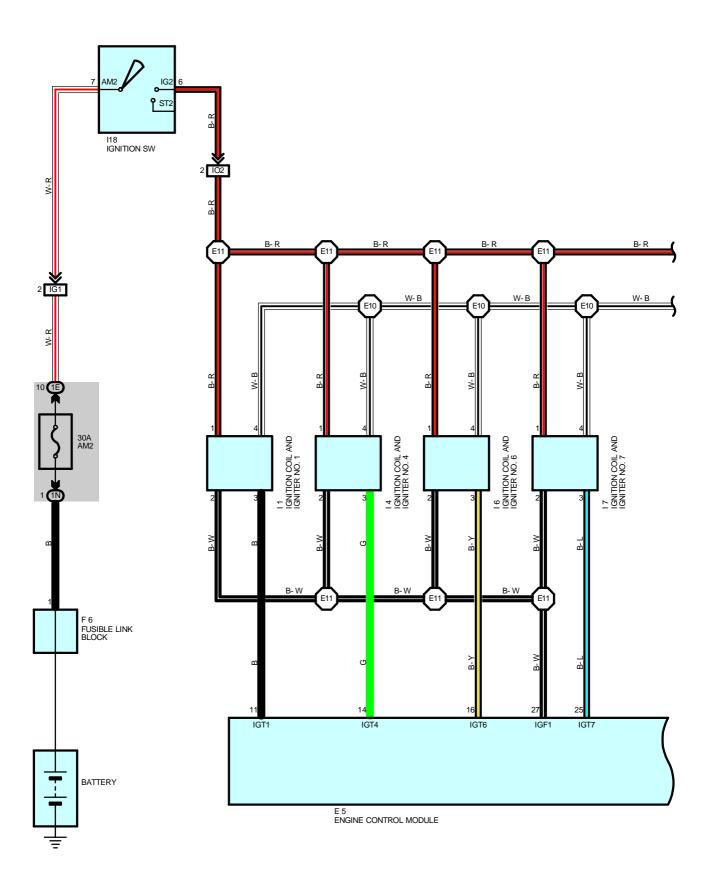
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

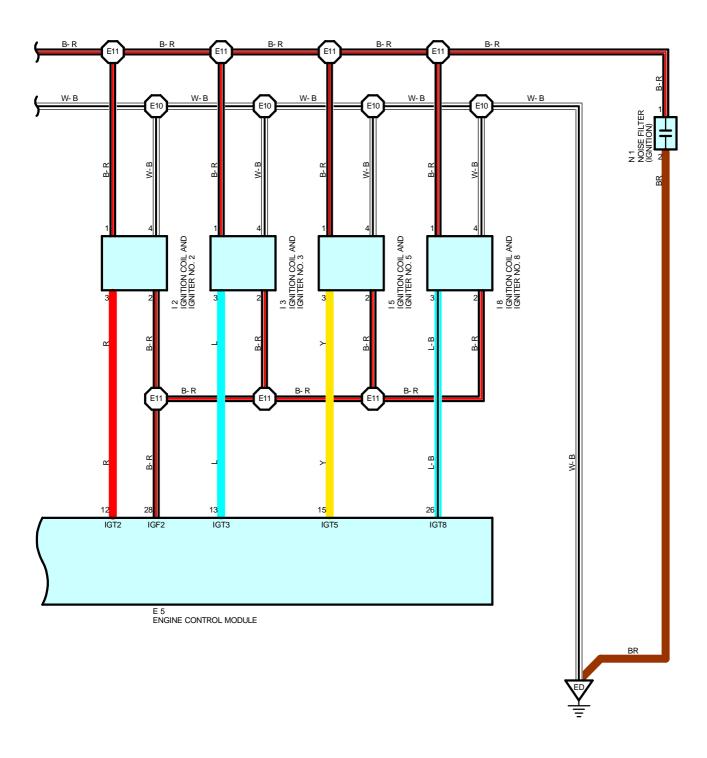
	Code	See Page	pining Wire Harness and Wire Harness (Connector Location)					
Ī	ED1	46	Engine No.2 Wire and Engine Room No.2 Wire (Near the Engine Room J/B)					
Ī	IG1	F0	Francisco Doore No O Wine and Dook Wine (Bakind the Combination Mater)					
ĺ	IG2	G2 Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)						
ĺ	102	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	

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





IGNITION

- SERVICE HINTS

I18 IGNITION SW

7-6 : Closed with ignition SW at \mathbf{ON} or \mathbf{ST} position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
E5	40	13	39	17	39
F6	38	14	39	18	39
I1	39	15	39	l18	40
12	39	16	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)			

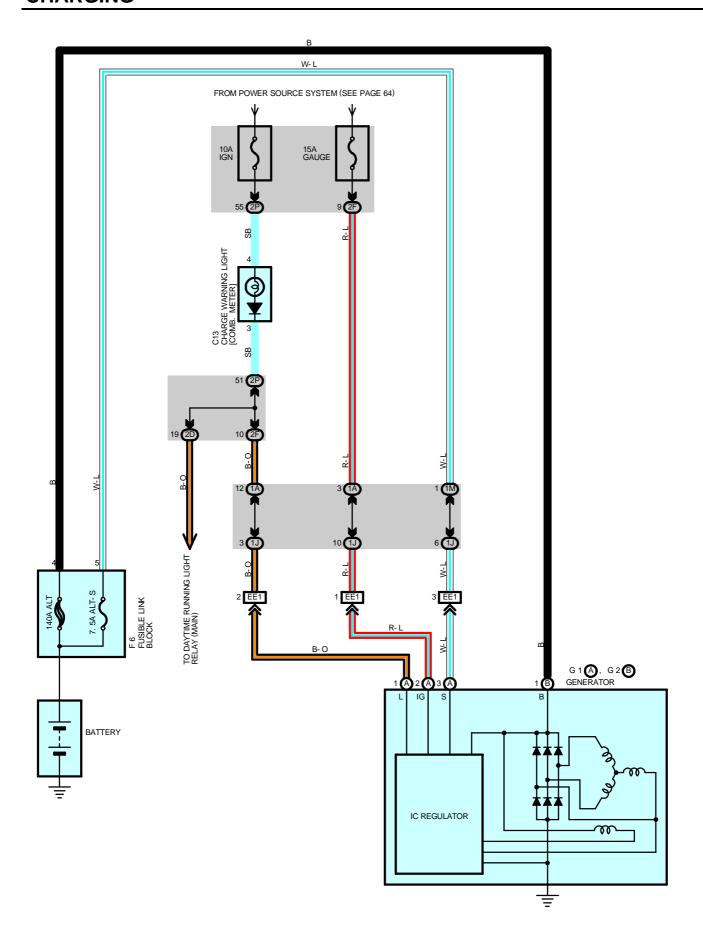
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IG1	50	ingine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
102	52	Engine Wire and Dash Wire (Behind the Glove Box)			

7 : GROUND POINTS

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

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



SERVICE HINTS

G1 GENERATOR

1-GROUND : 13.2-14.0 volts with engine running at 5000 rpm and 115 $^{\circ}\text{C}$ (239 $^{\circ}\text{F})$

: PARTS LOCATION

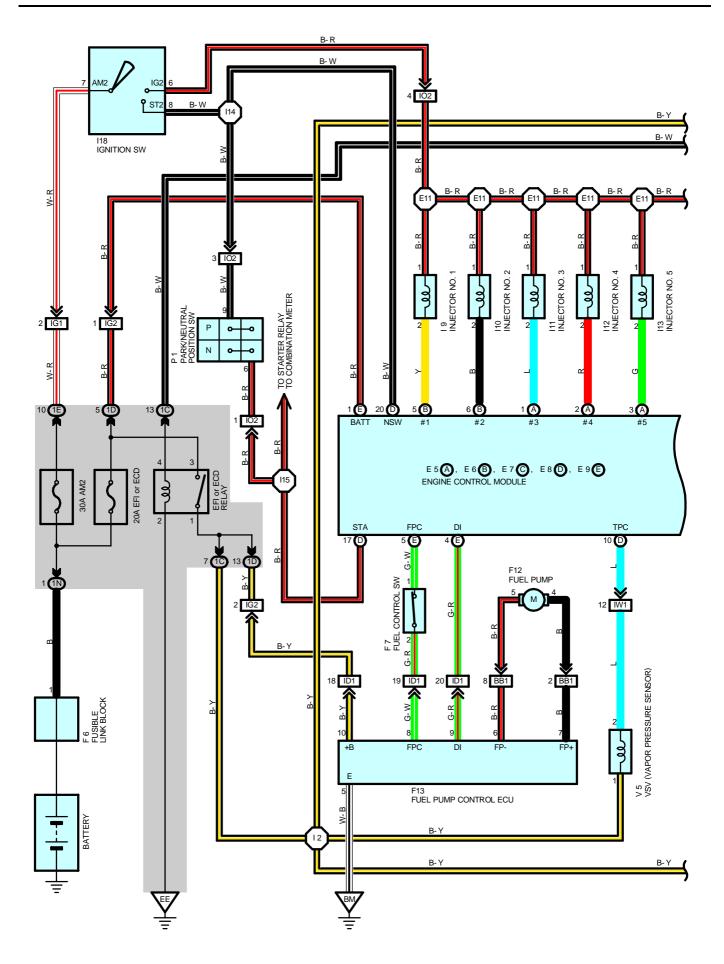
Code	See Page	Co	ode	See Page	Code	See Page
C13	40	G1	Α	38		
F6	38	G2	В	38		

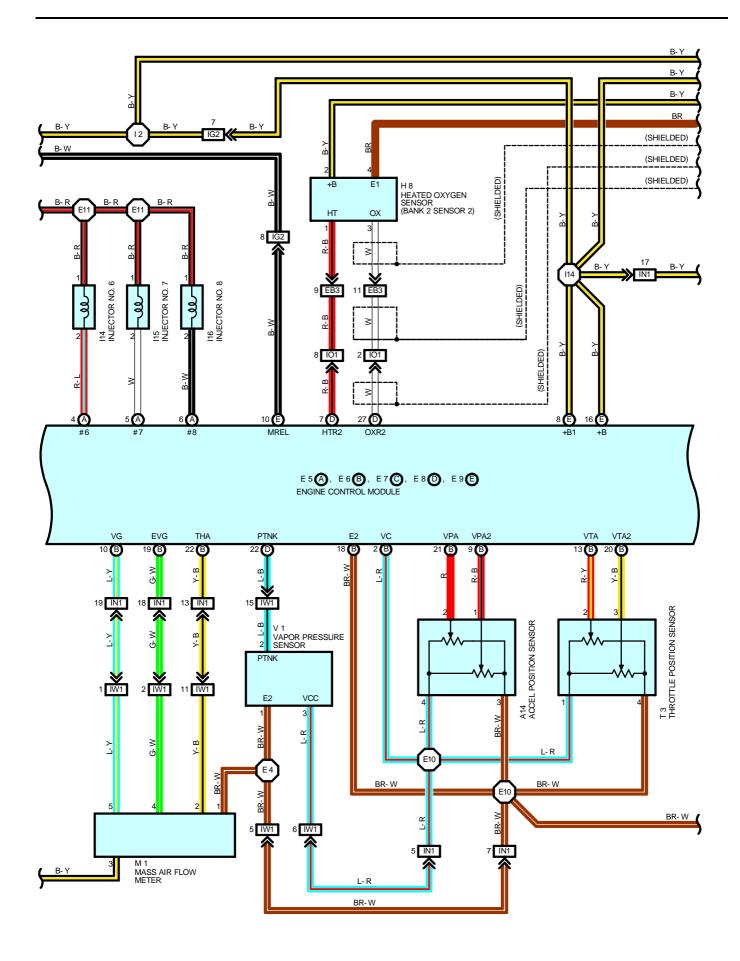
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

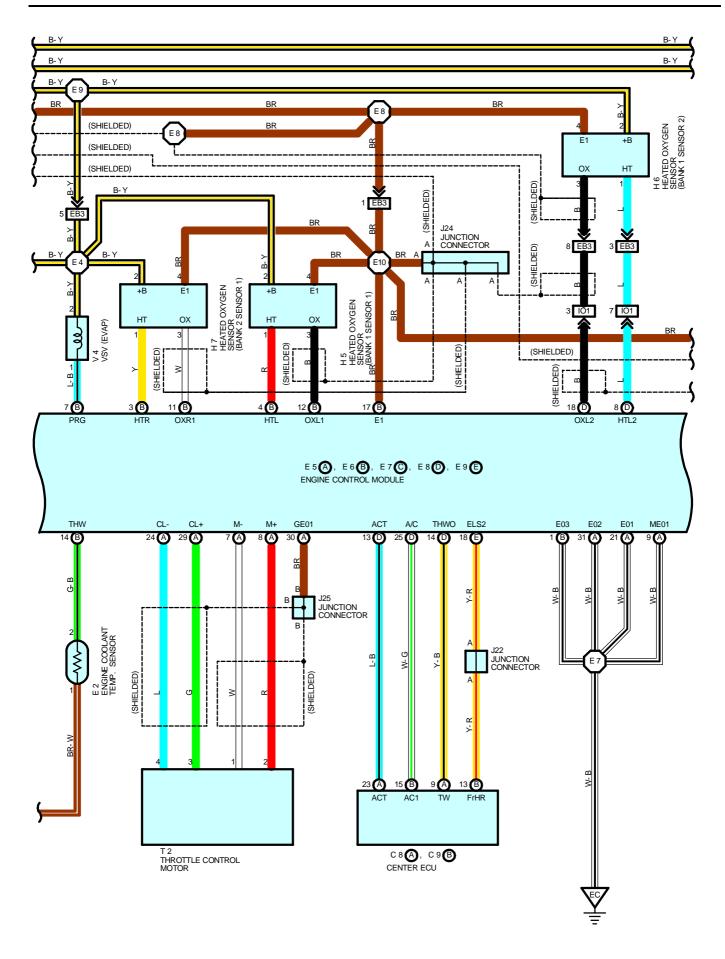
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	23	ngine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
1J	23	gine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1M	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)			
2D	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)			

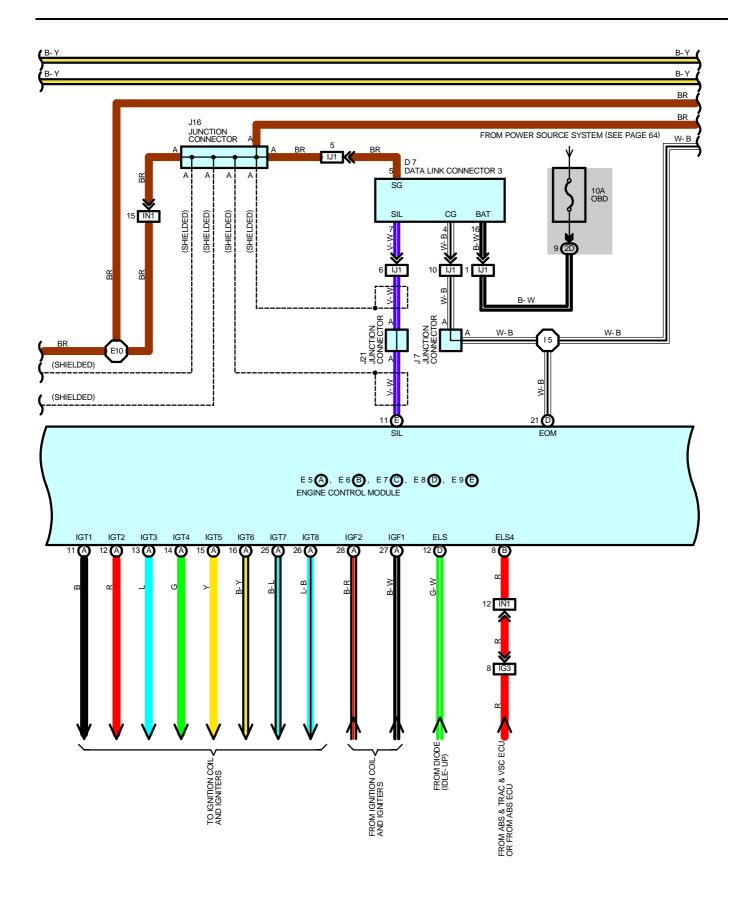
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

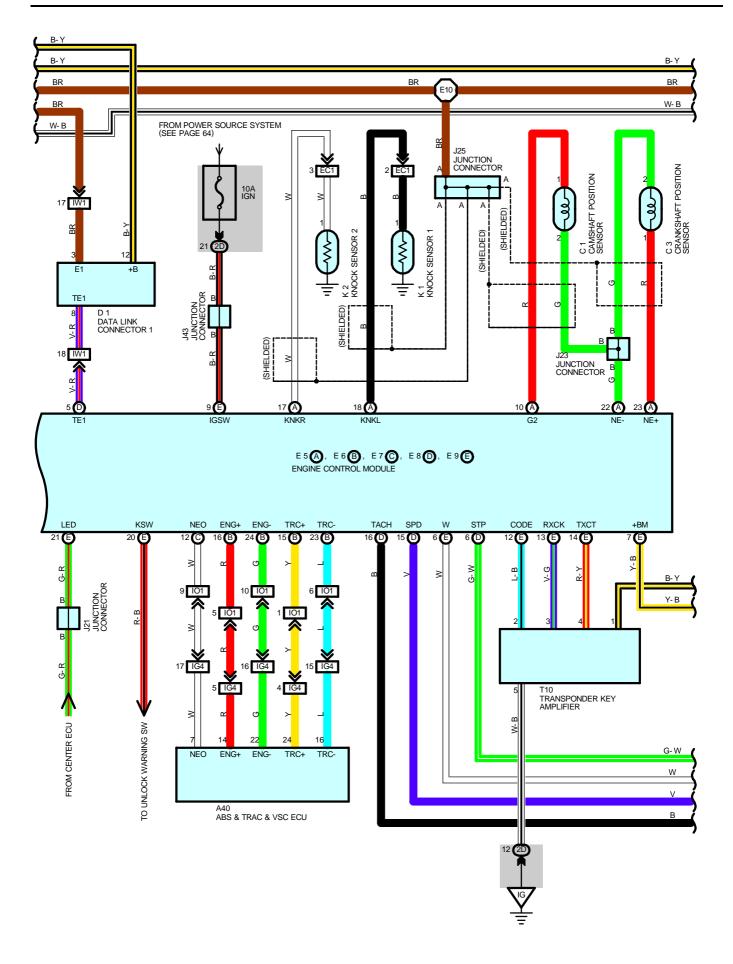
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
EE1	46	Engine Room Main Wire and Alternator Wire (Near the Battery)	

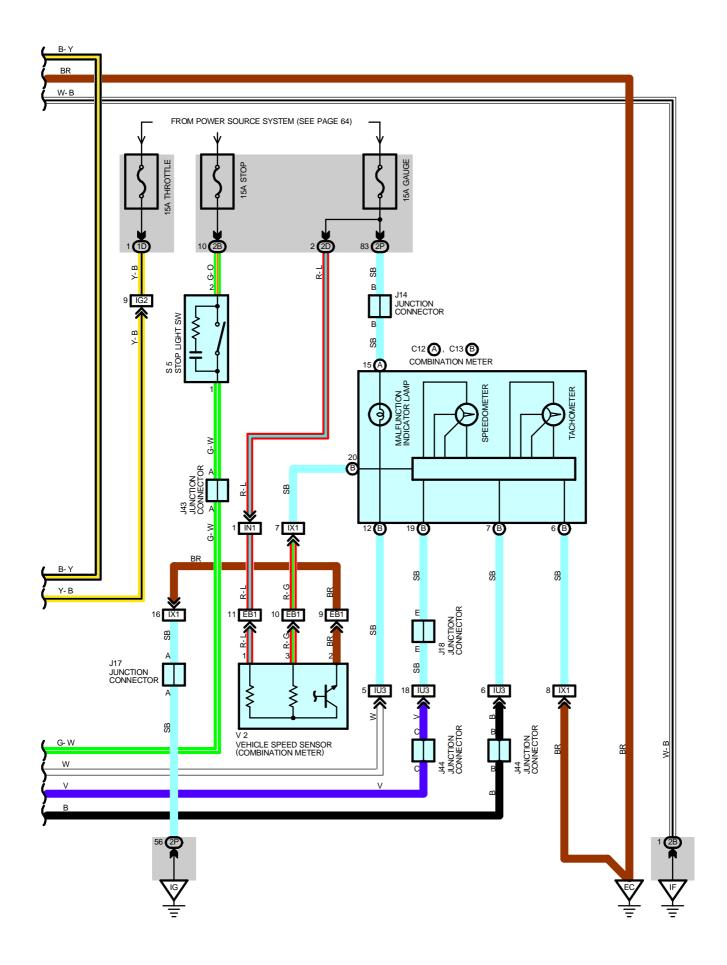












ENGINE CONTROL AND ENGINE IMMOBILISER SYSTEM

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.

ENGINE CONTROL AND ENGINE IMMOBILISER SYSTEM

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** $k\Omega$ (**-20** °C, **-4** °F) : Approx. **2.45** $k\Omega$ (**20** °C, **68** °F) : Approx. **0.32** $k\Omega$ (**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: **0.3-3.4** voits with idling, intake all temp. **20** C (**36** 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

Co	ode	See Page	Code	See Page	Code	See Page
Α	14	38	F13	42	J21	41
A	40	40	H5	39	J22	41
C	:1	38	H6	39	J23	41
C	3	38	H7	39	J24	41
C8	Α	40	H8	39	J25	41
C9	В	40	19	39	J43	41
C12	Α	40	I10	39	J44	41
C13	В	40	l11	39	K1	39
С)1	38	l12	39	K2	39
С)7	40	l13	39	M1	39
E	2	38	l14	39	P1	39
E5	Α	40	l15	39	S5	41
E6	В	40	I16	39	T2	39
E7	С	40	l18	40	T3	39
E8	D	40	J7	41	T10	41
E9	Е	40	J14	41	V1	39
F	6	38	J16	41	V2	39
F	7	40	J17	41	V4	39
F	12	42	J18	41	V5	39

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1C					
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	00	Doob Wire and Coud Cide I/D III (Left Viel, Done)			
2D	26	Dash 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)			

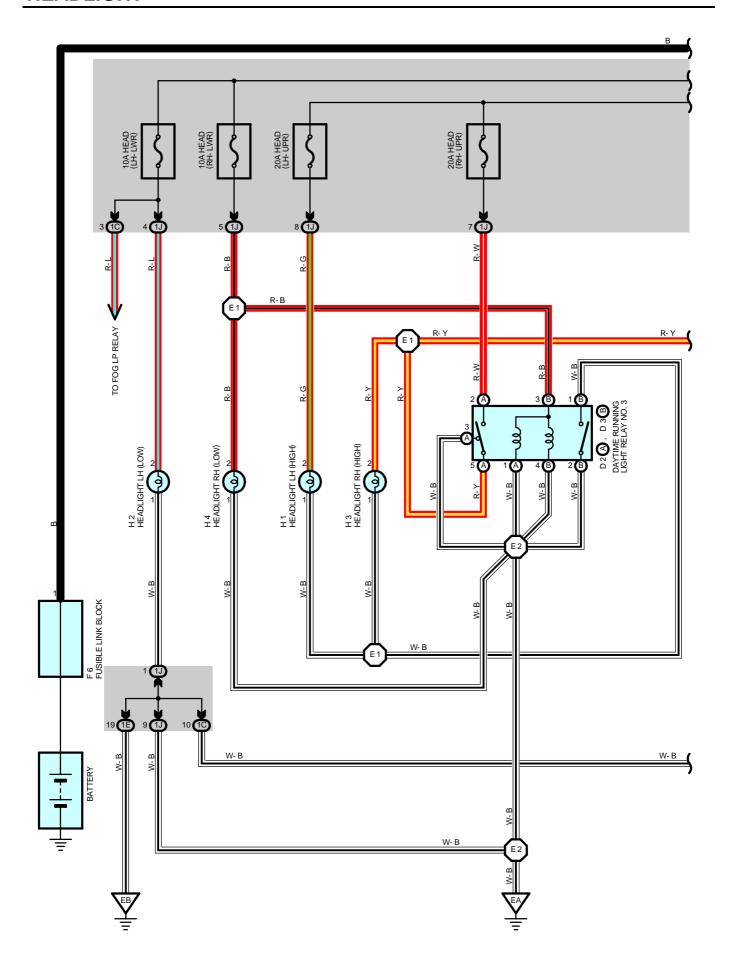
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

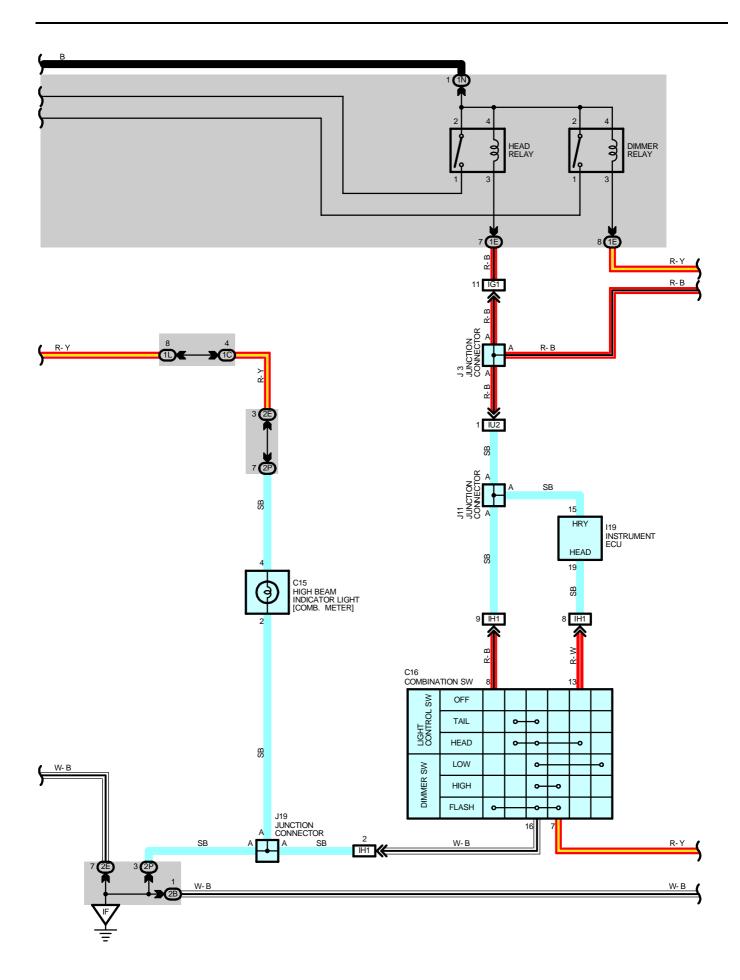
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EB1	40	Engine Wire and Transmission Wire (On the Transmission)			
EB3	46	Engine Wire and Transmission Wire (On the Transmission)			
EC1	46	Engine No.2 Wire and Engine Wire (On the Transmission)			
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)			
IG1					
IG2	50	Fraire Deers No C.Wire and Deek Wire (Pakind the Combination Mater)			
IG3	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
IG4					
IJ1	50	Dash Wire and Detector Wire (Instrument Panel Center)			
IN1		Engine Wire and Dash Wire (Behind the Glove Box)			
IO1	52				
102	1				
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)			

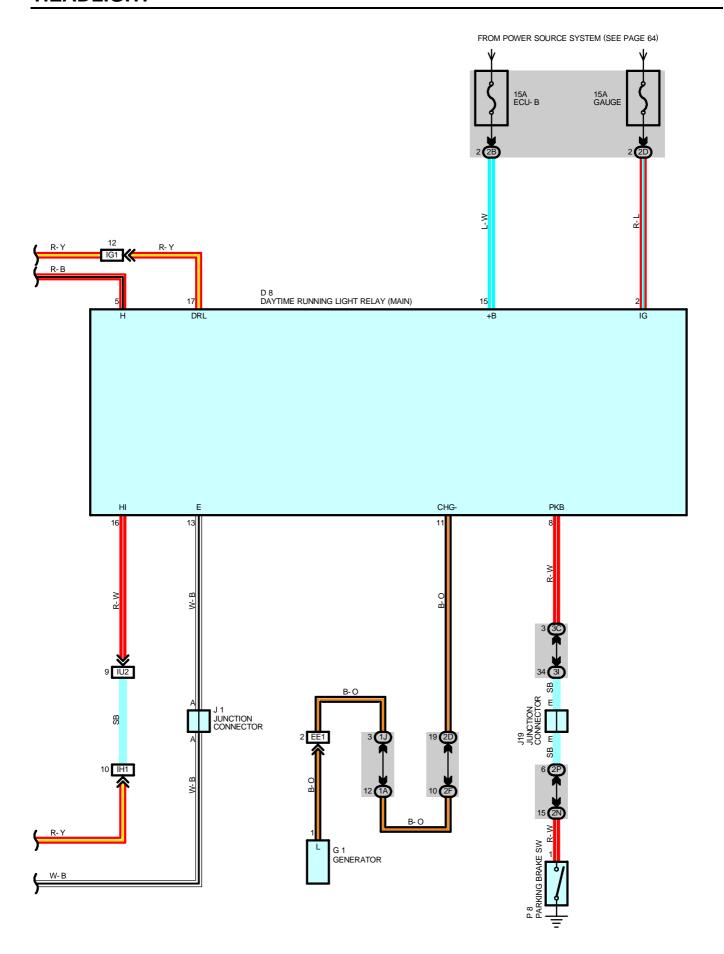
: GROUND POINTS

Code	See Page	Ground Points Location			
EC	46	ear Bank of Right Cylinder Head			
EE	46	Front Left Side of Fender Apron			
IF	40	Set Bolt of Cowl Side J/B LH			
IG	48	Set Boit of Cowi Side J/B LH			
BM	56	Left Rear Side Quarter Panel			

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	12	50	Engine Room No.2 Wire
E8	46	Transmission Wire	15	50 Dash Wire	
E9	E9 46		l14		Dash Wire
E10	46	Engine Wire	l15		







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-LWR), 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) 1 to GROUND. Also current flows from the daytime running light relay No.3 TERMINAL (A) 3 to TERMINAL (B) 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

Co	de	See Page	Code	See Page	Code	See Page
С	15	40	G1	38	J1	41
С	16	40	H1	39	J3	41
D2	Α	38	H2	39	J11	41
D3	В	38	H3	39	J19	41
D	8	40	H4	39	P8	43
F6		38	l19	40		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)		
1A		Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)		
1C	23			
1E				
1J	- 23	Engine Beam Main Wire and Engine Beam I/P (Engine Compartment Left)		
1L		Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)		
1N	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)		
2B	- 26	Dook Wire and Could Side 1/D LLL (Left Kiels Done)		
2D		Dash Wire and Cowl Side J/B LH (Left Kick Panel)		
2E	00	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)		
2F	26			
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)		
31	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)		

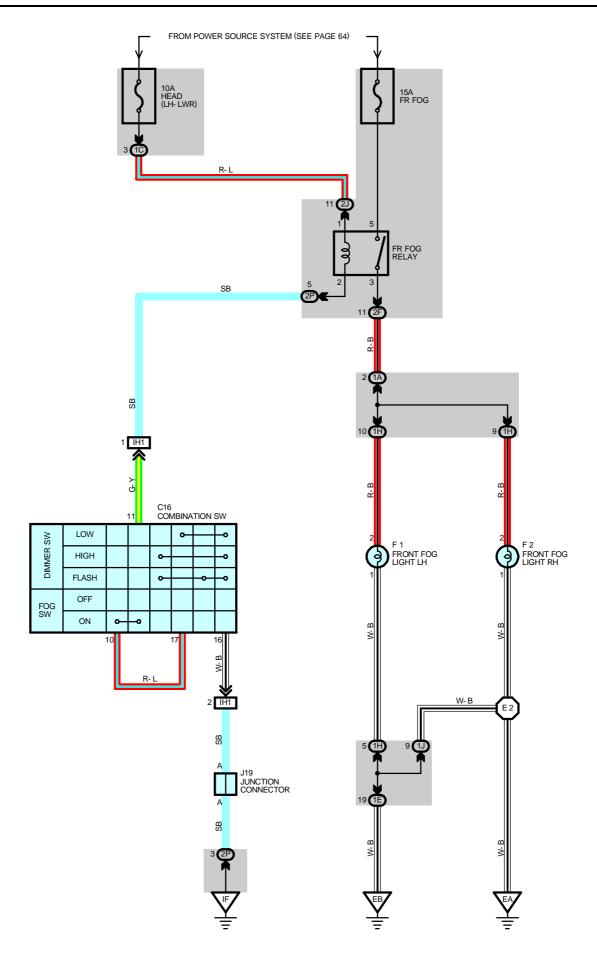
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

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		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 Pan		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		From Right Side of Ferider Apron	
IF	48	Set Bolt of Cowl Side J/B LH	

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points	
F1	46	Engine Room Main Wire	F2	46	Engine Room Main Wire	



- 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					
1C	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
1E					
1H	22	Engine Deem Main Wire and Engine Deem I/D (Engine Compartment Left)			
1J	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
2F	26	Engine Boom No 2 Wire and Coul Side 1/B LLL /Left Kiels Bone)			
2J	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)			

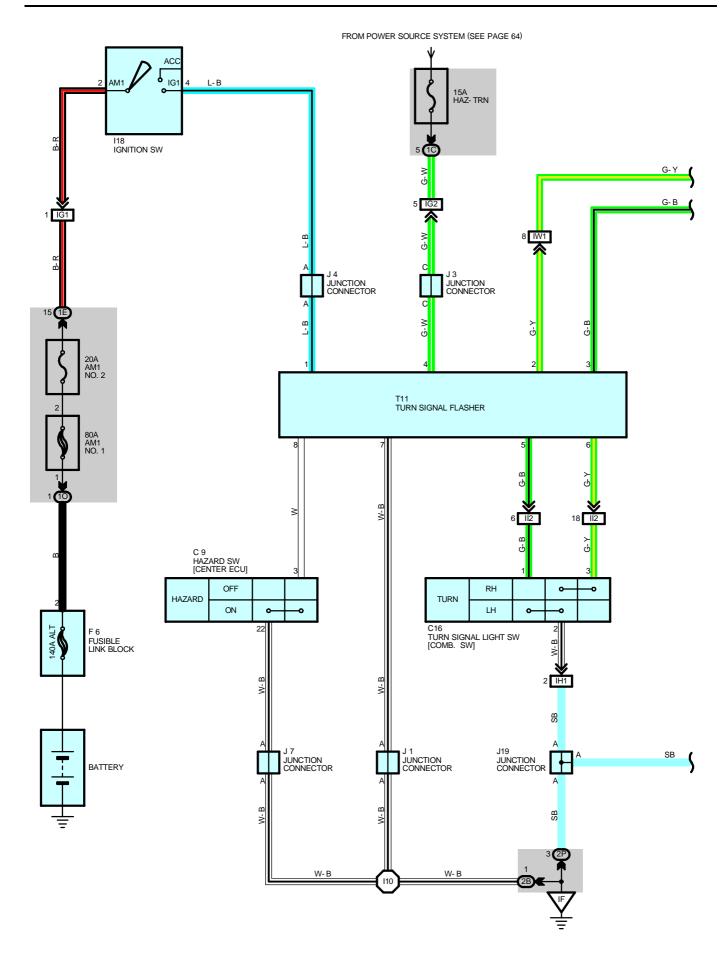
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

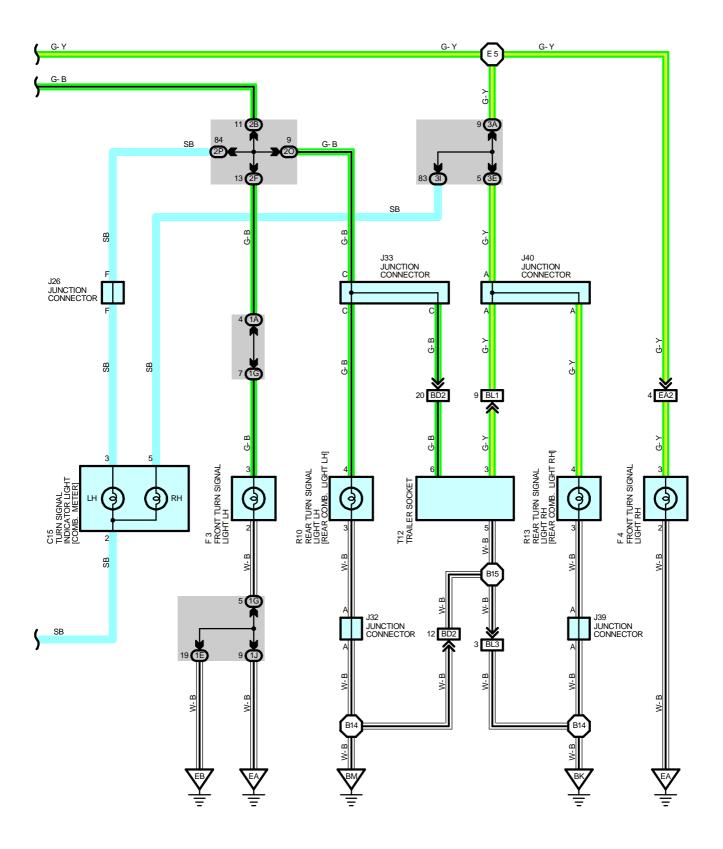
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)

: GROUND POINTS

Code	See Page	Ground Points Location
EA	46	Front Dight Cide of Fonder Anger
EB	40	Front Right Side of Fender Apron
IF	48	Set Bolt of Cowl Side J/B LH

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

SERVICE HINTS -

T11 TURN SIGNAL FLASHER

4-GROUND: Always approx. 12 volts

1-GROUND : Approx. 12 volts with ignition SW at \mathbf{ON} or \mathbf{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
l18	40	J32	42	T12	43

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A		
1C	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1E		
1G	22	Facing Doom Main Wire and Engine Doom I/D (Engine Comportment Left)
1J	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
10	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)
20	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)
31	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

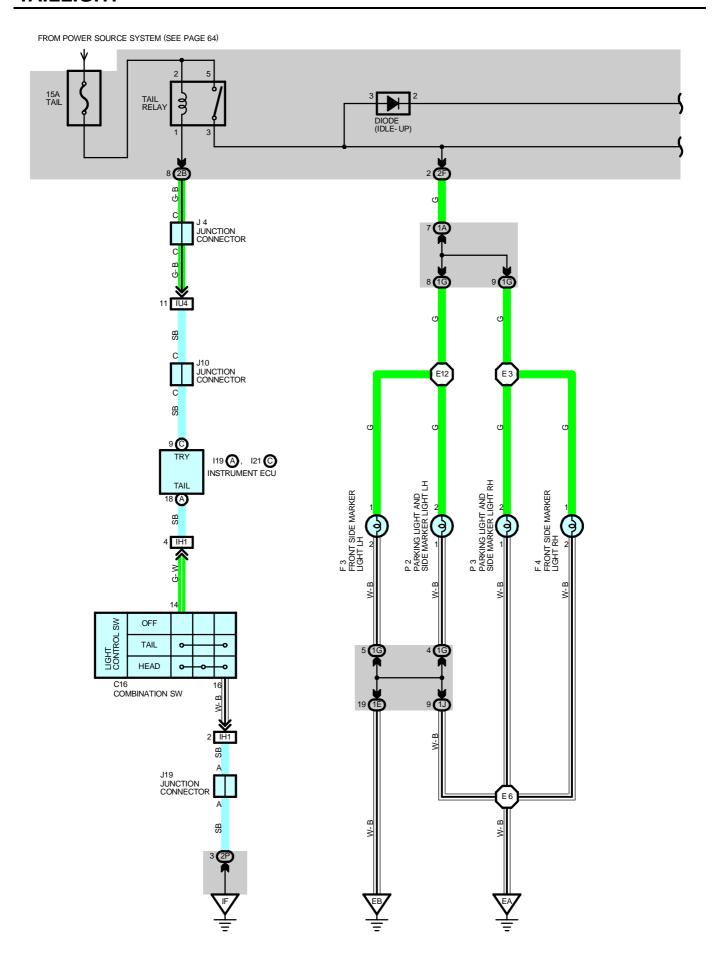
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

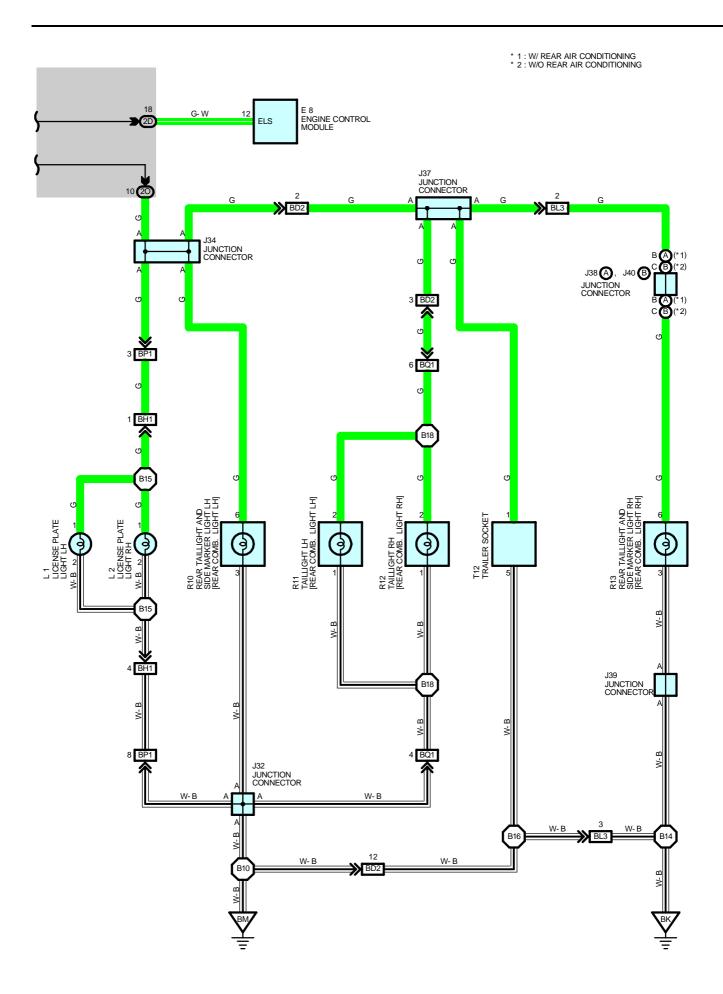
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EA2	46	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)			
IG1	50	Francis Developed No. O. W. and Developed Mills (Developed the Oceanic of the Market)			
IG2	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)			
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. 2 Wire (Pight Side of Pear Floor Crossmannhar)			
BL3	36	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)			

Code	See Page	Ground Points Location			
EA	40	Total Dieks Older of Freedom Assess			
EB	46	Front Right Side of Fender Apron			
IF	48	Set Bolt of Cowl Side J/B LH			
BK	56	ront Side Under the Front Passenger's Seat			
BM	56	Left Rear Side Quarter Panel			



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
l10	50	Dash Wire	B15	58	Back Door Upper Wire





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

Co	Code See Page Code		See Page	Code	See Page		
С	16	40	J1	19	41	L2	42
Е	E8 40		8 40 J32 42		P2	39	
F	-3	38	J34 42		42	P3	39
F	⁻ 4	38	J37		42	R10	43
l19	Α	40	J38	Α	42	R11	43
l21	С	40	J3	39	42	R12	43
J	J4 41 J40 B		В	42	R13	43	
J.	10	41	L	1	42	T12	43

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	23	Engine Boom No 2 Wire and Engine Boom I/D /Engine Compartment Left)			
1E	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
1G	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1J	23	Engine Room Main Wire and Engine Room 3/5 (Engine Compartment Left)			
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2D	20	Dash Wile and Cowi Side 3/B En (Left Nick Pariel)			
2F	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
20	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)			

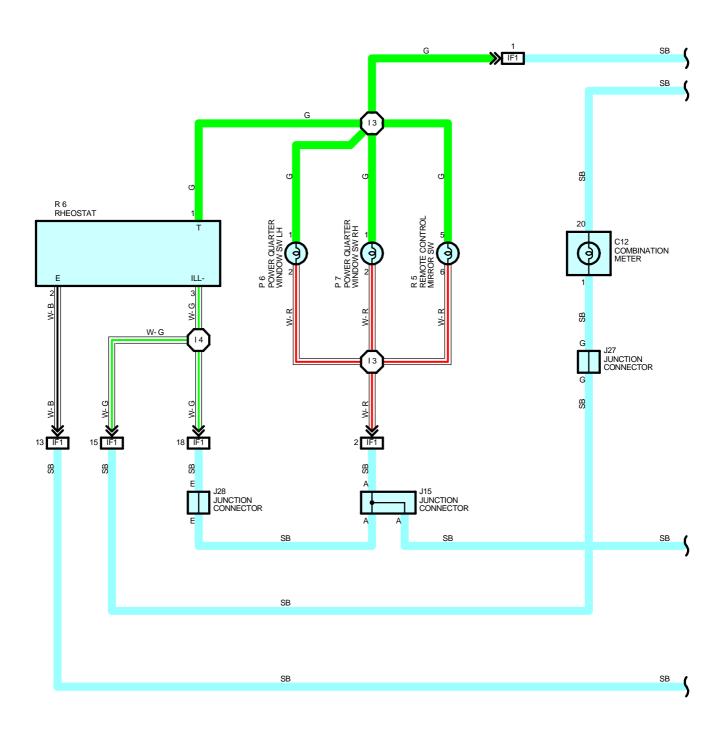
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

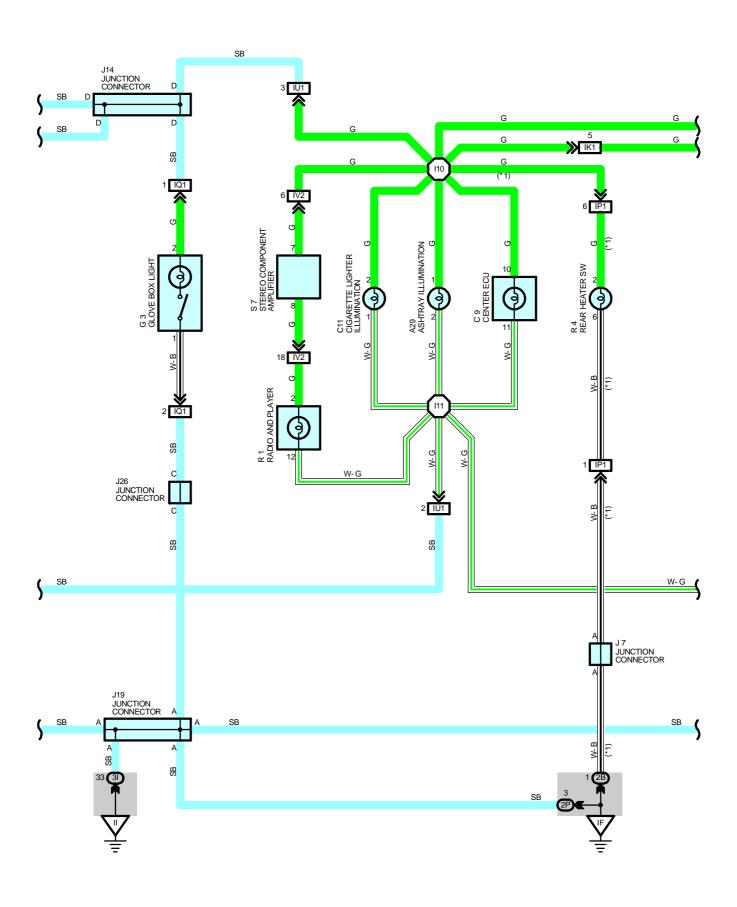
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
IU4	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
BD2	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BH1	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)

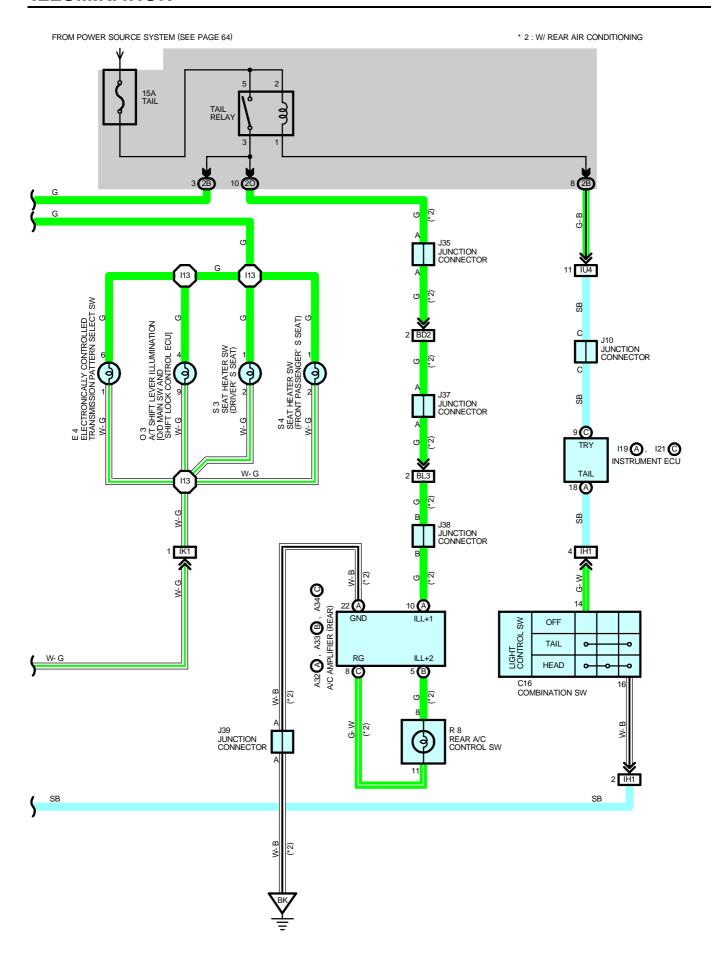
7 : GROUND POINTS

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

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







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

Co	de	See Page	Code	See Page	Code	See Page
A29		40	J7	41	O3	41
A32	Α	42	J10	41	P6	41
A33	В	42	J14	41	P7	41
A34	С	42	J15	41	R1	41
С	9	40	J19	41	R4	41
C.	11	40	J26	41	R5	41
C.	12	40	J27	41	R6	41
C.	16	40	J28	41	R8	43
E	4	40	J35	42	S3	41
G	i3	40	J37	42	S4	41
l19	Α	40	J38	42	S7	43
I21	С	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)
20	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)
31	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

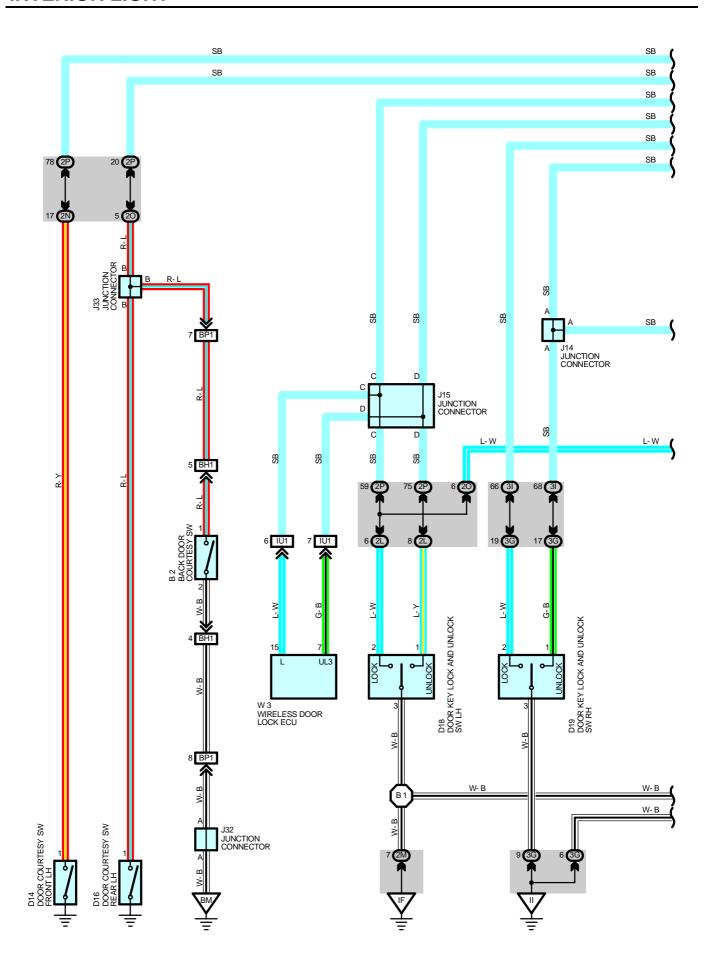
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

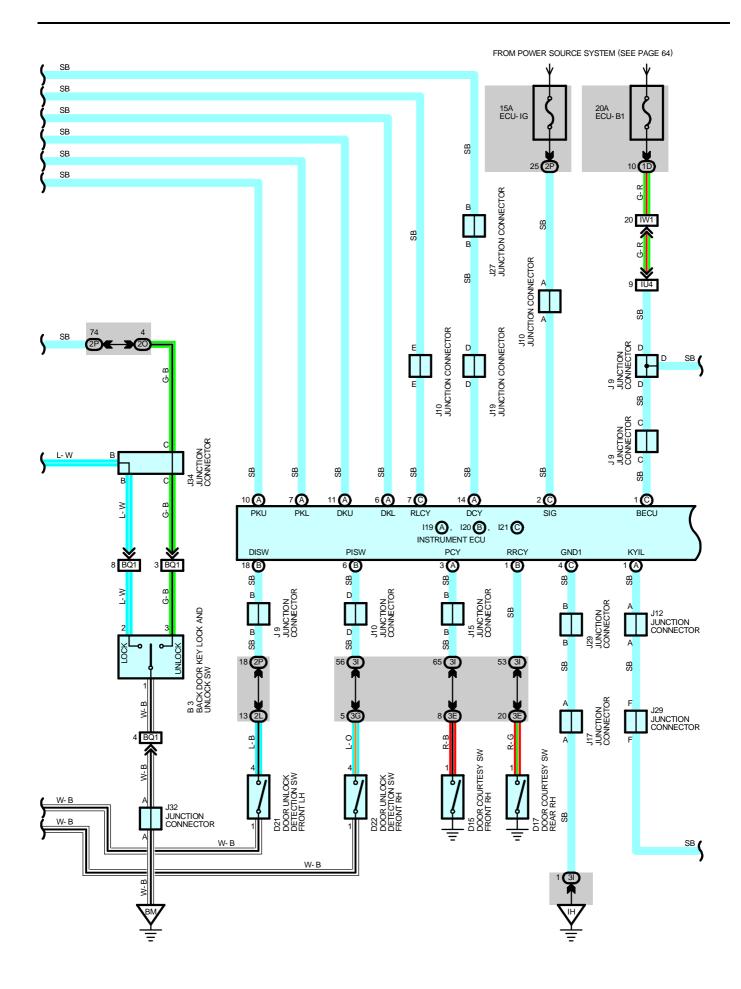
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	48	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
IK1	50	Console Box Wire and Dash Wire (Left Side 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		Instrument Denel Internation Wire and Deak Wire (Dekind the Claus Den)
IU4	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)
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)

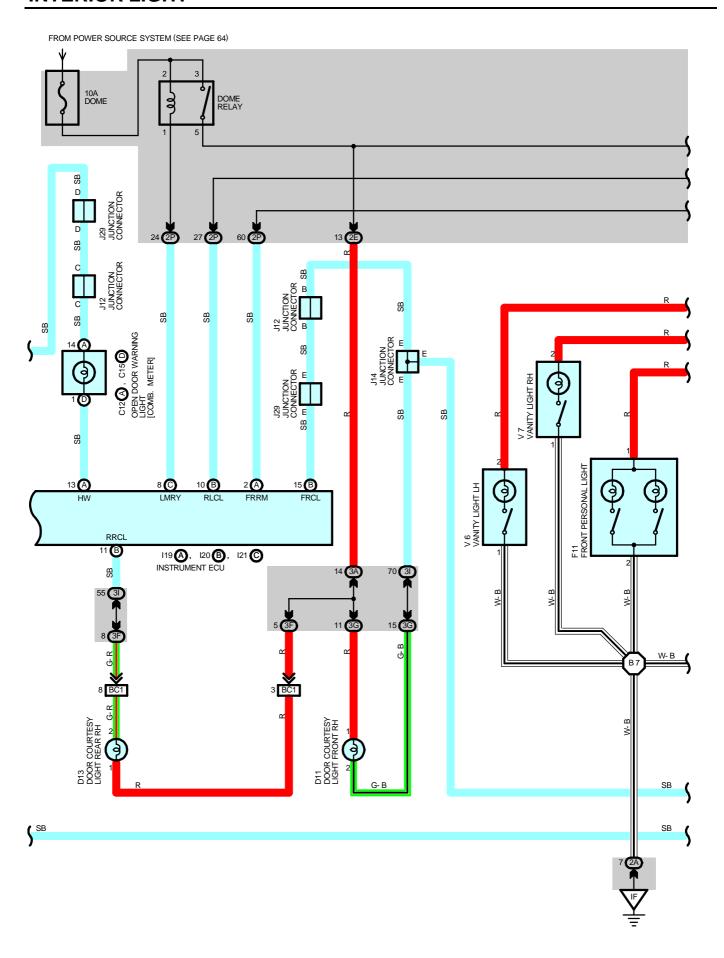
: GROUND POINTS

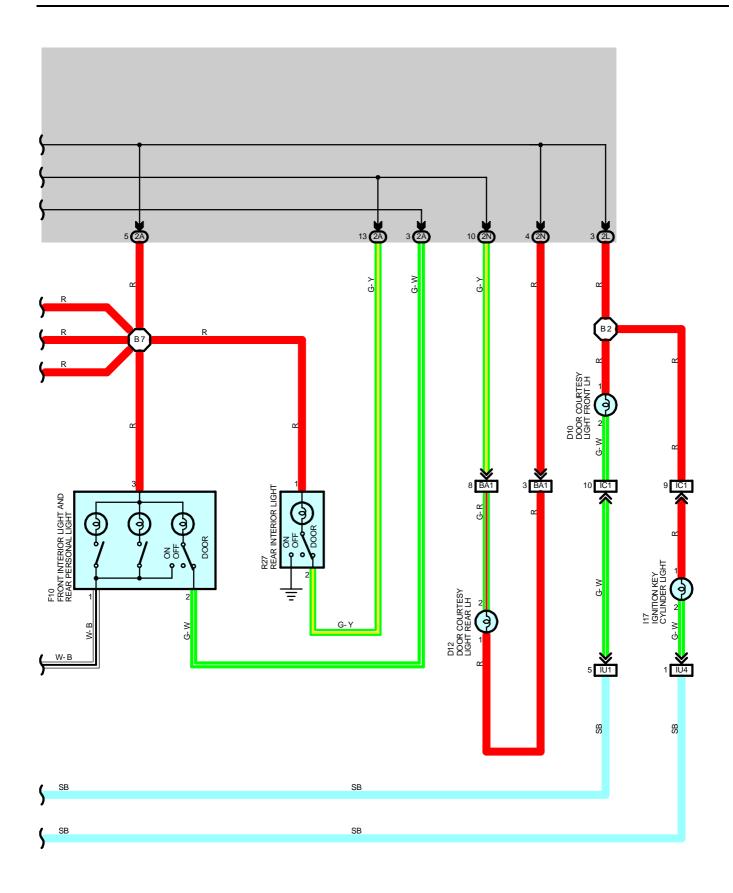
Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
II	48	Set Bolt of Cowl Side J/B RH
BK	56	Front Side Under the Front Passenger's Seat

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
13	F0	Instrument Panel Wire	l11	50	Dash Wire
14	50		I13	50	Console Box Wire
I10	50	Dash Wire			









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

119 (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

Co	Code See Page		Co	de	See Page	Code	See Page
В	2	42	D'	19	42	J15	41
В	3	42	D2	21	42	J17	41
C12	Α	40	D2	22	42	J19	41
C15	D	40	F1	10	42	J27	41
D.	10	42	F11		42	J29	41
D.	11	42	l17		40	J32	42
D.	12	42	l19	Α	40	J33	42
D13		42	120	В	40	J34	42
D14		42		С	40	R27	43
D.	15	42		9	41	V6	43
D16		42	J1	10	41	V7	43
D17		42	J1	12	41	W3	41
D.	18	42	J1	14	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	26	Front Door LLWing and Could Cide UD LLL (Left Kiel, Door)			
2M	20	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)			
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)			
20	26	Floor Wife and Cowi Side 3/B LH (Left Nick Pariel)			
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
ЗА	32	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3E	20	Floor No 2 Wire and Coul Cide I/D DLL (Bight Kiek Dane)			
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)			
31	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

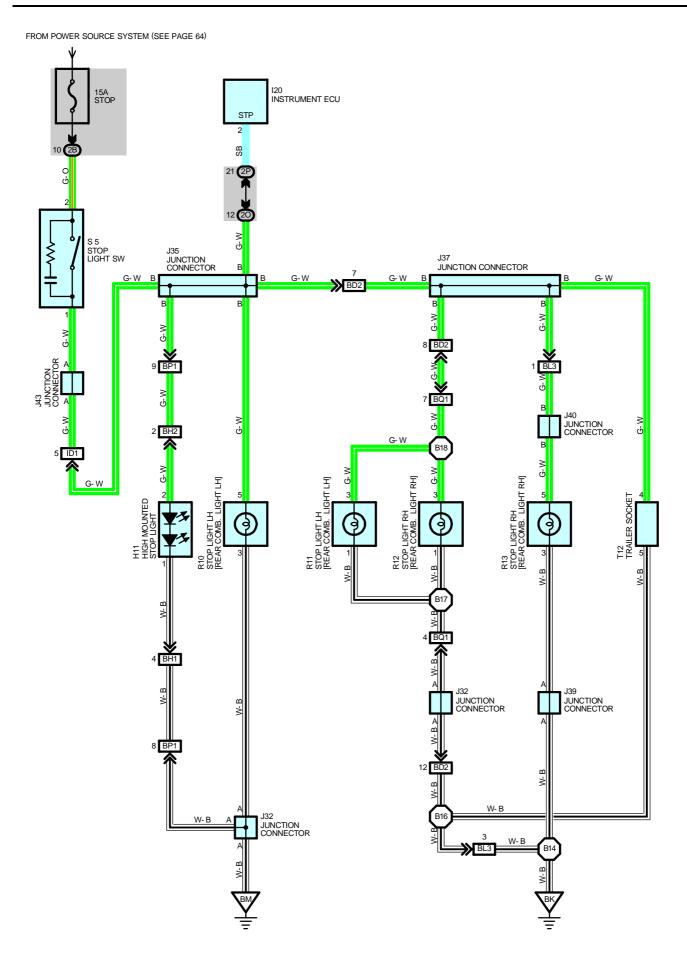
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC1	48	Front Door LH Wire and Dash Wire (Left Kick Panel)
IU1	50	Instrument Danel Interretion Wire and Deep Wire (Behind the Clave Day)
IU4	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IW1	54	Engine 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)

Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
IH	40	Set Bolt of Cowl Side J/B RH
II	48	Set boil of Cowi Side J/B KIT
BM	56	Left Rear Side Quarter Panel

INTERIOR LIGHT



Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B1	- 58	Front Door LLI Wire	B7	58	Roof Wire
B2	36	Front Door LH Wire			



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
120	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)
20	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)

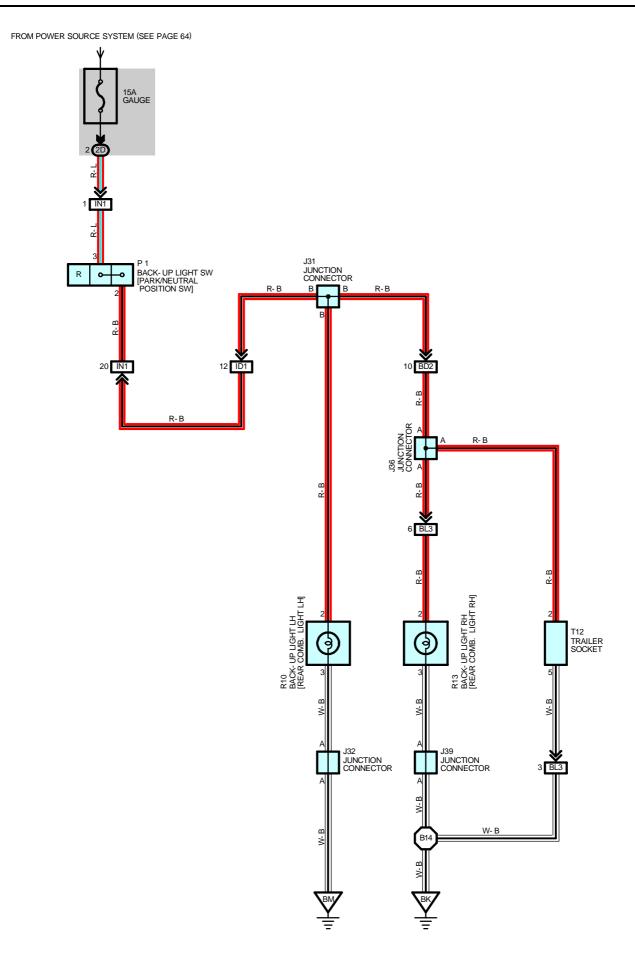
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

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	F0	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BH2	58				
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

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	30	Dack Door Lower write



SERVICE HINTS

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

4-8 : Closed with shift lever at ${\bf R}$ 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

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

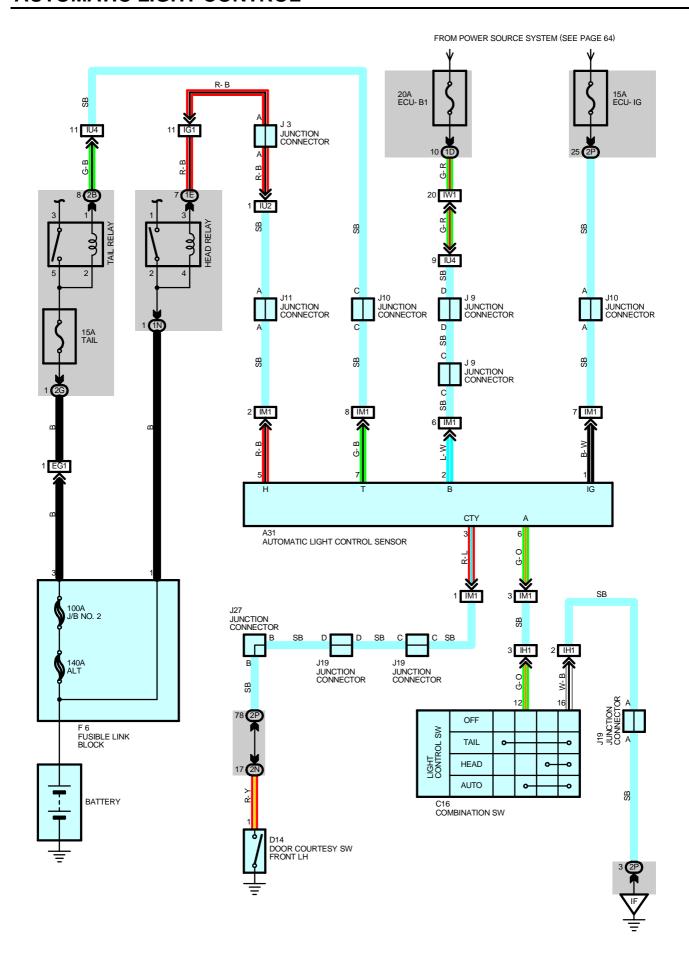
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

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

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



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	00	Engine Deem No 2 Wire and Engine Deem I/D (Engine Compartment Left)
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)
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)

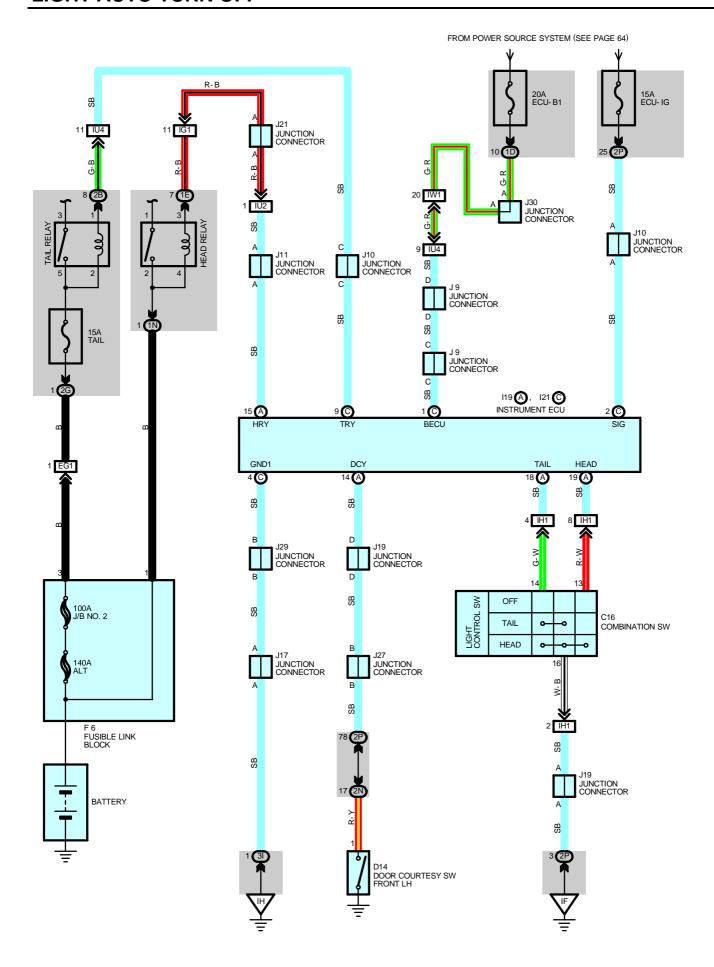
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

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	F0	Instrument Band Internation Wire and Back Wire (Bakind the Claus Ban)			
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)			

AUTOMATIC LIGHT CONTROL

∇

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



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
D	14	42	J10	41	J27	41
F6		38	J11	41	J29	41
l19	Α	40	J17	41	J30	41
121	С	40	J19	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	00	Familia Bassa Na C. Wiss and Familia Bassa I/D /Familia Company and Laft
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)
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)
31	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

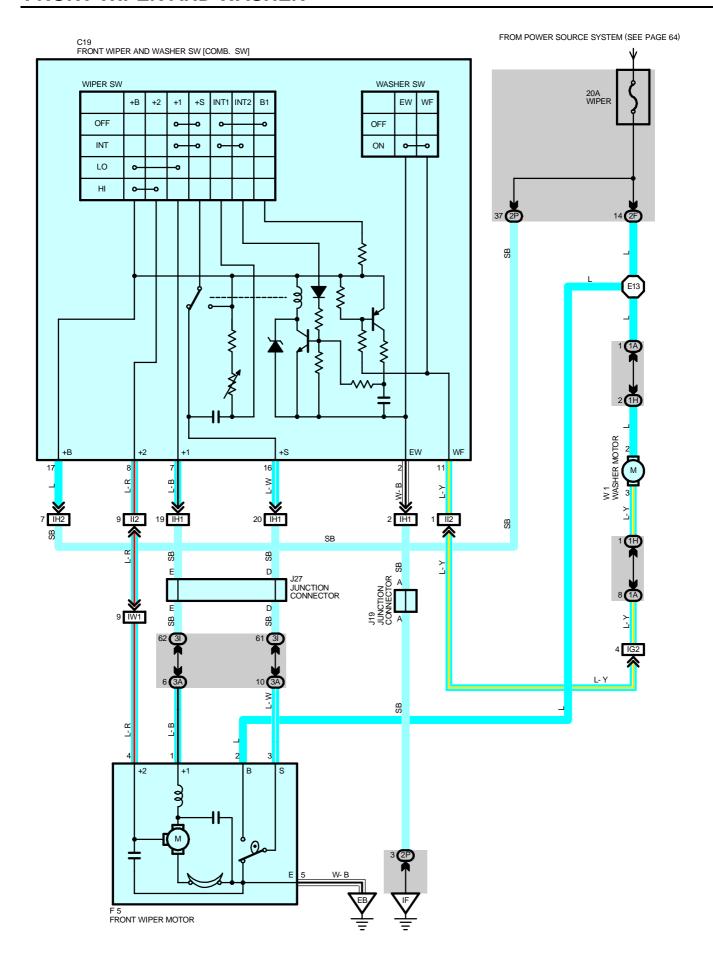
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

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	F2	Instrument Denel Integration Wire and Deah Wire (Behind the Clave Boy)
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)

LIGHT AUTO TURN OFF



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



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

 $8\text{-}GROUND\,:$ Approx. $\boldsymbol{12}$ volts with front wiper and washer SW at \boldsymbol{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)
31	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	Ingine Room No.2 Wire and Dash Wire (Behind the Combination Meter)	
IH1	F0	Instrument Dend Integration Wire and Column Wire (Near the Ignition CIA)	
IH2	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)	

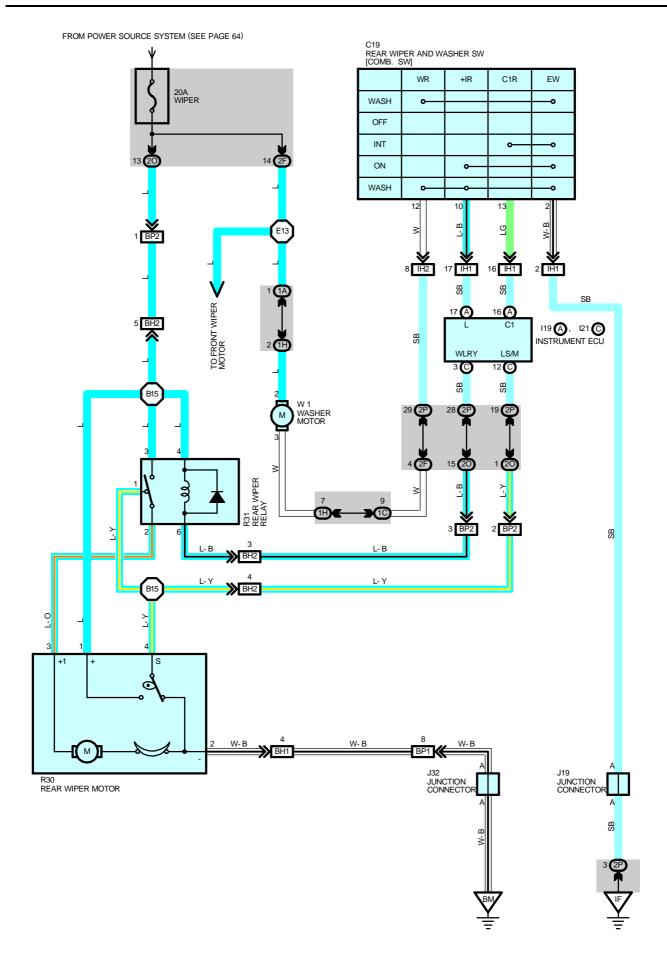
FRONT WIPER AND WASHER

: 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



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



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 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 \mathbf{ON} or \mathbf{ST} position

2-GROUND: Always continuity

: PARTS LOCATION

Co	Code See Page		Code	See Page	Code	See Page
С	19	40	J19	41	R31	43
I19	Α	40	J32	42	W1	39
I21	С	40	R30	43		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)	
1A	22	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)	
1C	23	Engine Room No.2 wire and Engine Room 3/6 (Engine Compartment Lett)	
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)	
20	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 Denel Integration Wire and Column Wire (Near the Ignition CIA)		
IH2	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)		
BH1	50	Billow No. 4 Wire and Book Door Honey Wire (Left Side of Book Door)		
BH2	58	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)		
BP1	50	Billow No. 4 Wire and Floor Wire /I off Book Cide Quarter Bone)		
BP2	58	Pillar No.1 Wire and Floor Wire (Left Rear Side Quarter Panel)		

REAR WIPER AND WASHER

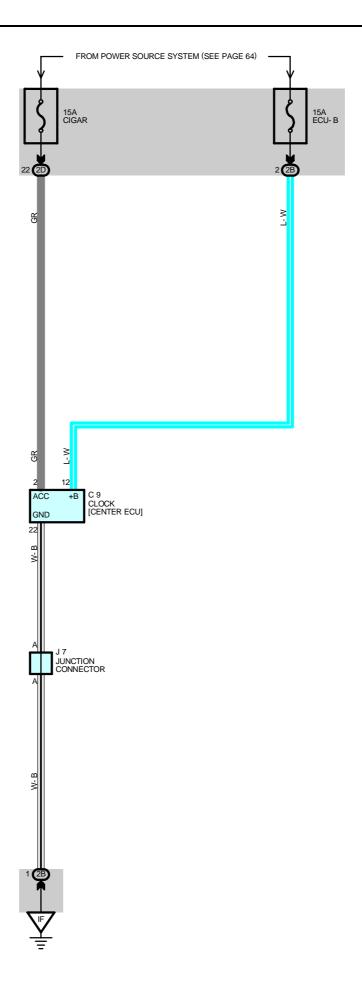


: GROUND POINTS

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



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



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 0

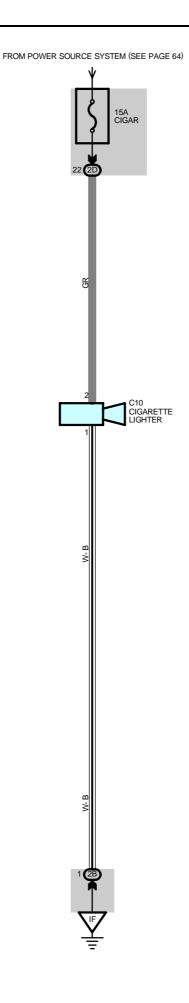
Code	See Page	Code	See Page	Code	See Page
C9	40	J7	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)		
2B	26	Dook Wire and Coul Side I/D LLL (Left Kiels Dane)		
2D	20	Dash Wire and Cowl Side J/B LH (Left Kick Panel)		

: GROUND POINTS

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



C10 CIGARETTE LIGHTER

2-GROUND : Approx. 12 volts with ignition SW at \boldsymbol{ACC} or \boldsymbol{ON} position

1-GROUND: Always continuity

: PARTS LOCATION

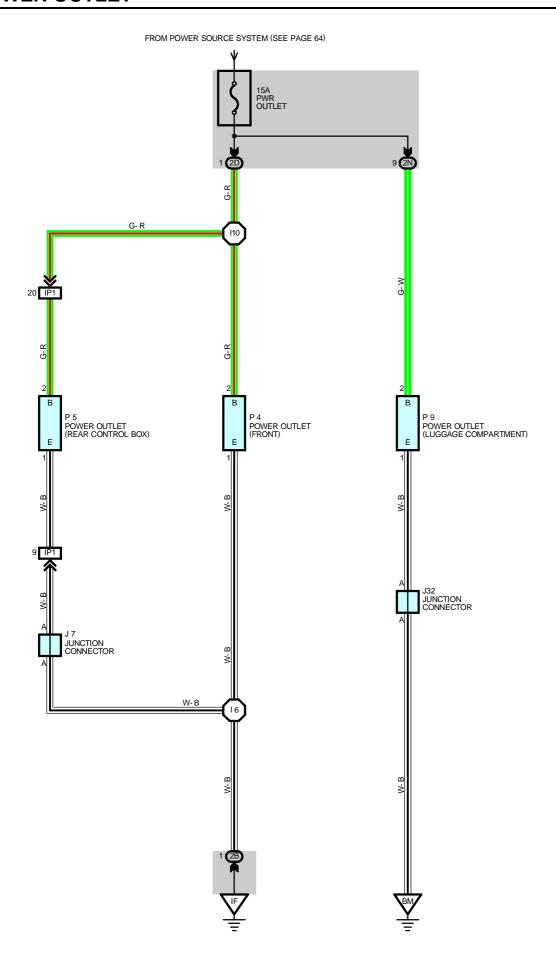
Code	See Page	Code	See Page	Code	See Page
C10	40				

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)		
2B	26	Dock Wire and Coud Side I/D LLL /Left Kiek Done)		
2D	20	Dash Wire and Cowl Side J/B LH (Left Kick Panel)		

: GROUND POINTS

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



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	20	Dash Wire and Cowi Side 3/B En (Left Nick Parier)				
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)				

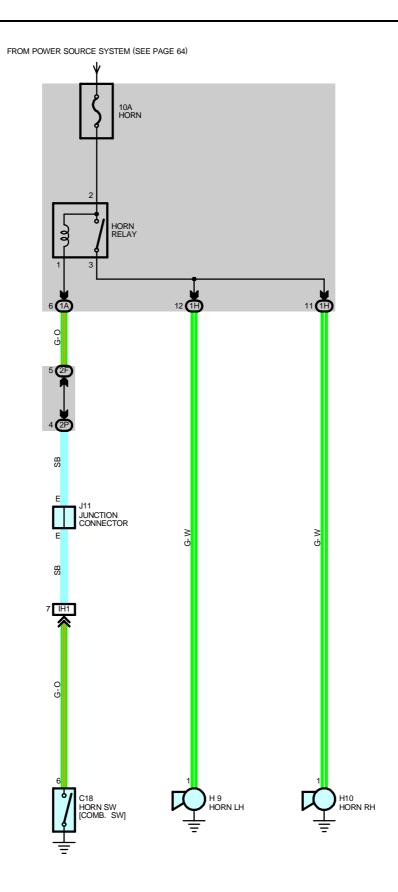
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

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)

7 : 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		

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
16	50	Dash Wire	I10	50	Dash Wire



HORN RELAY

2-3 : Closed horn SW on

: PARTS LOCATION

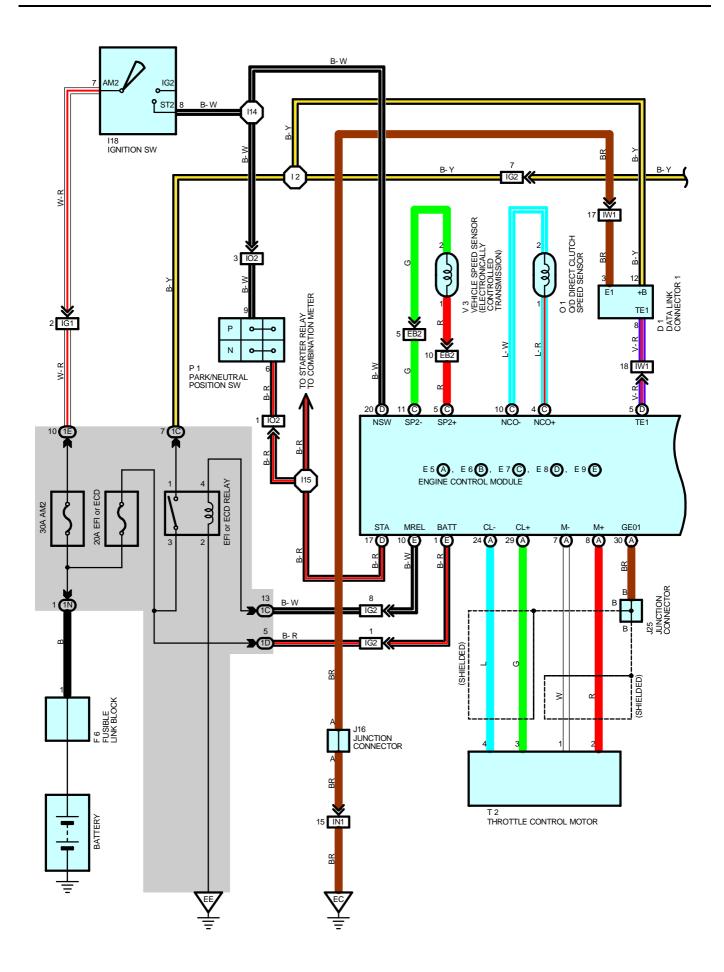
Code	See Page	Code	See Page	Code	See Page
C18	40	H10	39		
H9	39	J11	41		

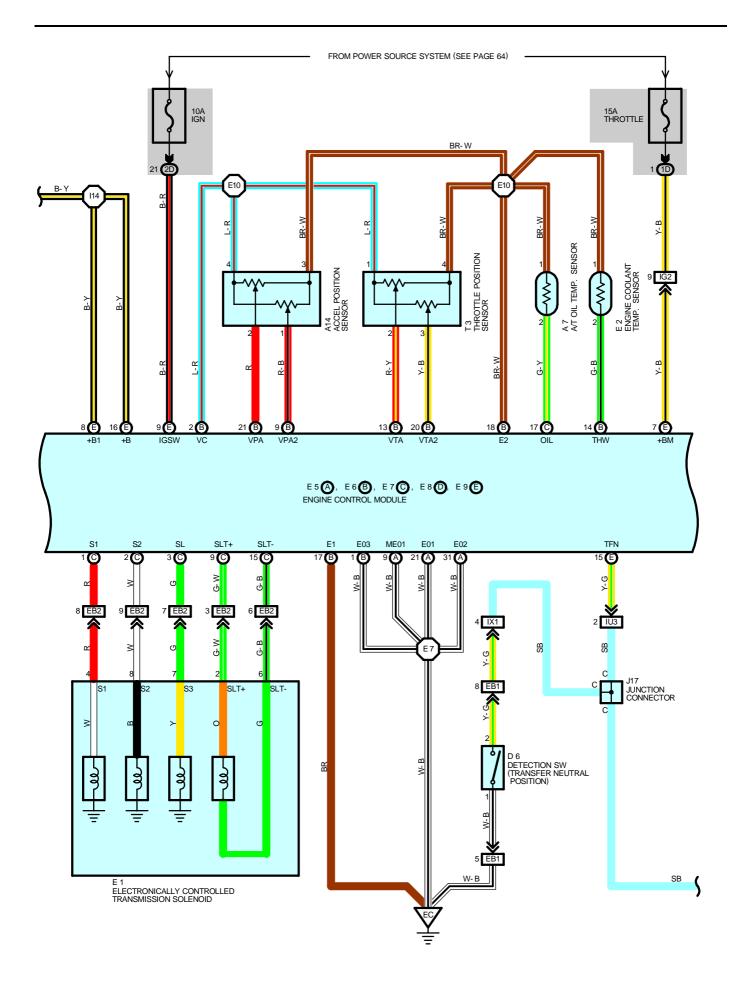
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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)	

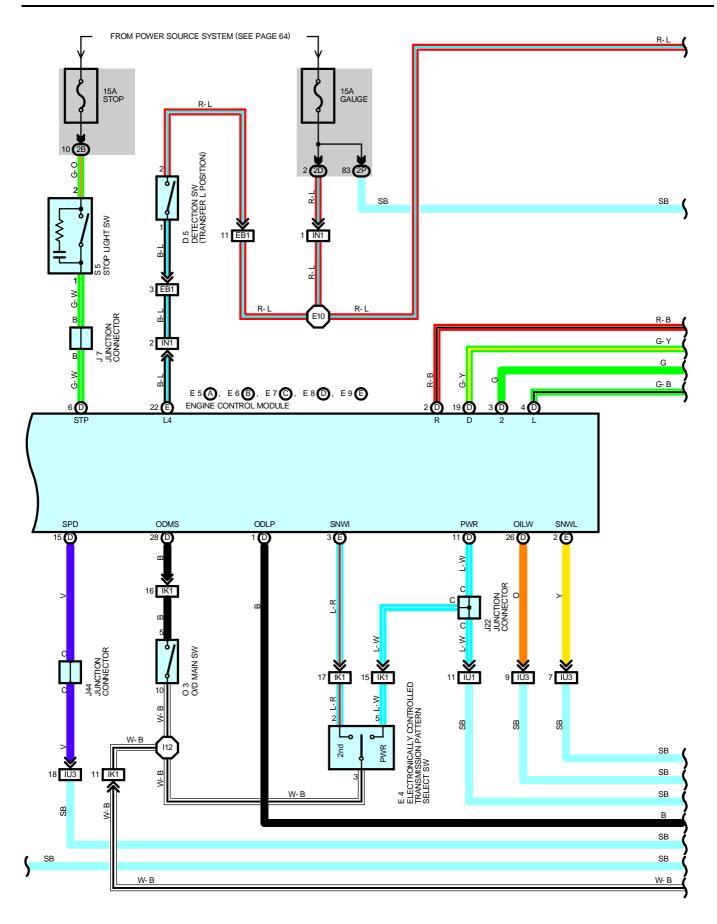
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

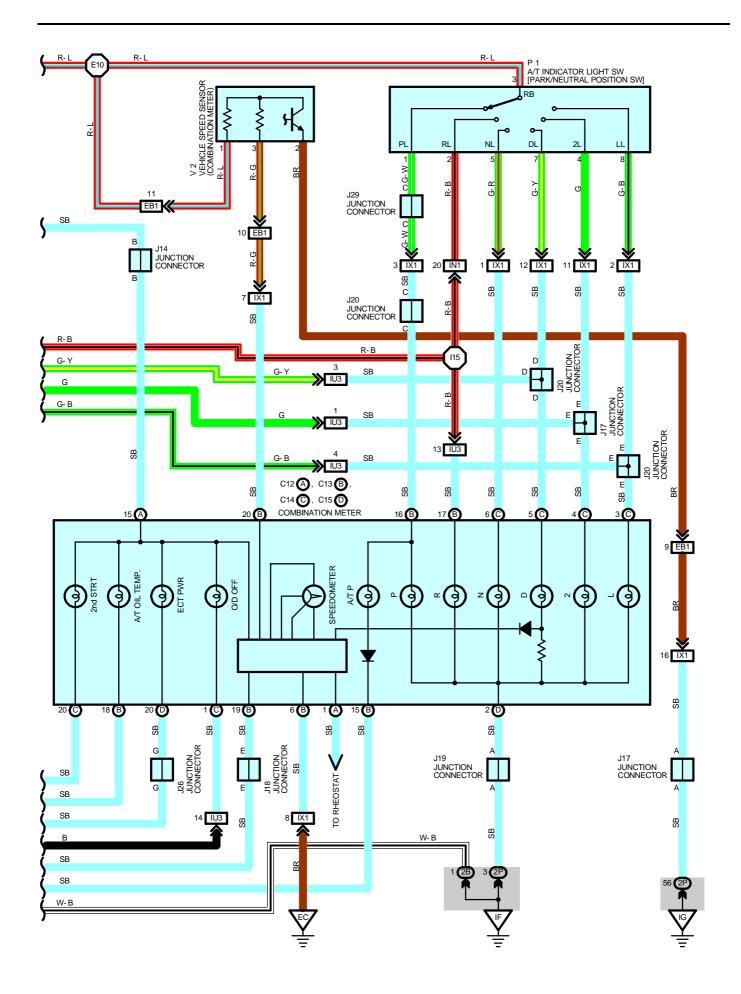
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)





ELECTRONICALLY CONTROLLED TRANSMISSION AND A/T INDICATOR





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.

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

Co	Code See Page Code		See Page	Code	See Page		
Α	.7	38	E6	В	40	J22	41
A	14	38	E7	С	40	J25	41
C12	Α	40	E8	D	40	J26	41
C13	В	40	E9	Е	40	J29	41
C14	С	40	F	6	38	J44	41
C15	D	40	I1	8	40	O1	39
D	1	38	J7		41	O3	41
D	5	38	8 J14		41	P1	39
D	6	38	J1	16	41	S5	41
Е	1	38	J1		41	T2	39
E2		38	J1	18	41	T3	39
E4		40	J1	19	41	V2	39
E5	Α	40	J2	20	41	V3	39

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C		
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1E	1E	
1N	23	Engine Room No.3 Wire and Engine Room J/B (Engine Compartment Left)
2B	26	Dook Wing and Could Cide I/D LLL / off I/int Done)
2D		Dash 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)

ELECTRONICALLY CONTROLLED TRANSMISSION AND A/T INDICATOR

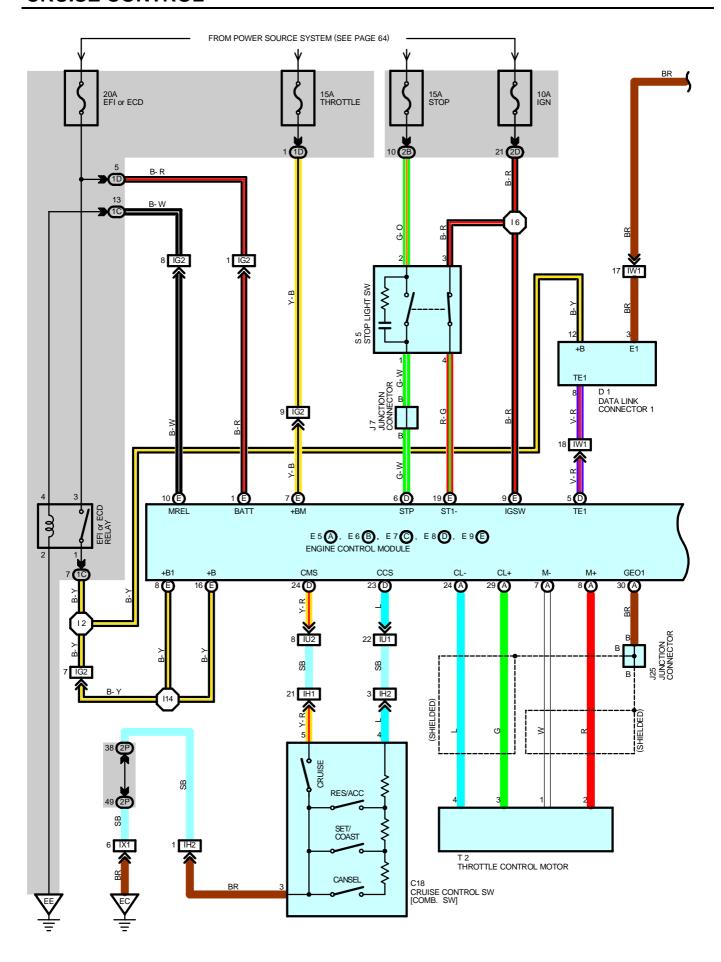
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

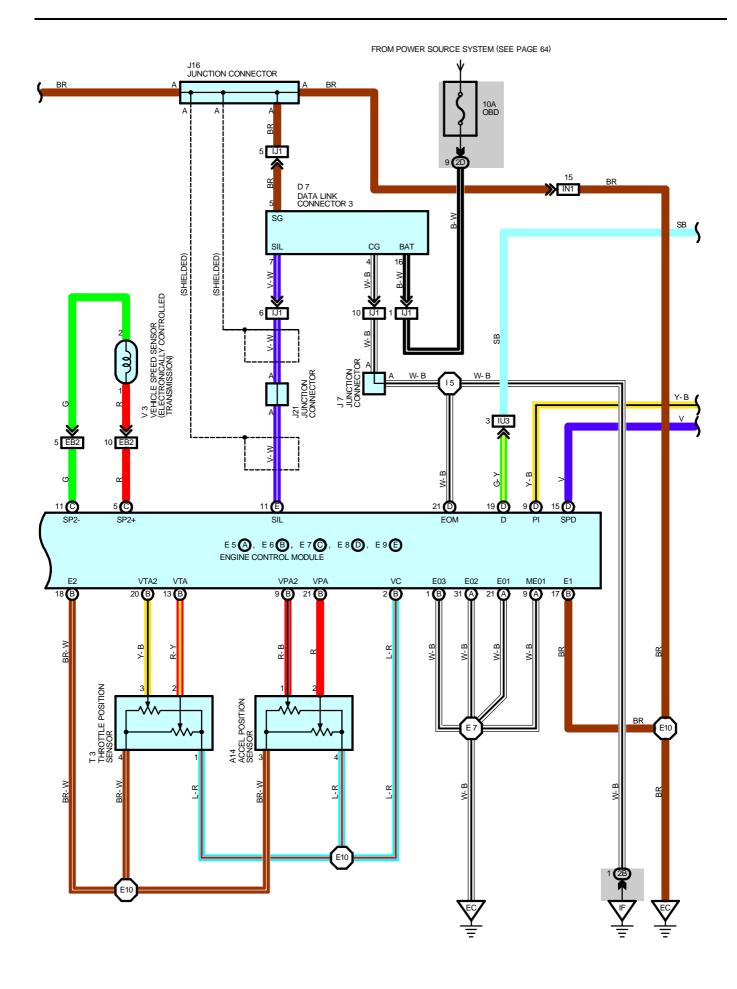
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EB1	46	Engine Wire and Transmission Wire (On the Transmission)			
EB2	46	Engine Wire and Transmission Wire (On the Transmission)			
IG1		5 · D N ONE ID INE (DIVIN O IV (1 M ·)			
IG2	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
IK1	50	Console Box Wire and Dash Wire (Left Side of Front Console)			
IN1	F0	Engine Wire and Deek Wire (Dekind the Clave Boy)			
IO2	52	Engine Wire and Dash Wire (Behind the Glove Box)			
IU1	- 52	Instrument Denel Integration Wire and Deah Wire (Pahind the Clave Box)			
IU3		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)			

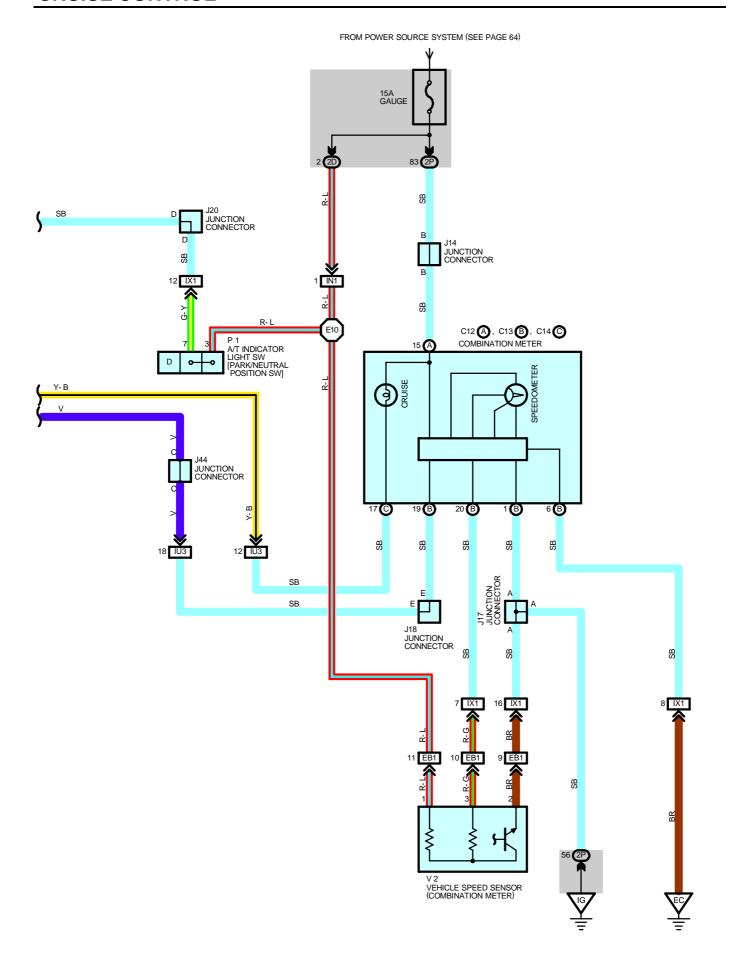
: GROUND POINTS

Code	See Page	Ground Points Location
EC	46	Rear Bank of Right Cylinder Head
EE	46	Front Left Side of Fender Apron
IF	40	Set Bolt of Cowl Side J/B LH
IG	48	Set Bolt of Cowl Side J/B LH

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E7	46 Engine Wire		l12	50	Console Box Wire
E10	46	Engine wire	l14	50	Dook Wire
12	50	Engine Room No.2 Wire		50	Dash Wire







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

CRUISE CONTROL

: PARTS LOCATION

Co	de	See Page	Co	de	See Page	Code	See Page
A.	14	38	E7	С	40	J21	41
C12	Α	40	E8	D	40	J25	41
C13	В	40	E9	Е	40	J44	41
C14	С	40	J	7	41	P1	39
C	18	40	J1	14	41	S5	41
D	1	38	J1	16	41	T2	39
D	7	40	J1	17	41	Т3	39
E5	Α	40	J1	18	41	V2	39
E6	В	40	J2	20	41	V3	39

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)		
1C	22	Engine Deem No 2 Wire and Engine Deem I/D (Engine Compartment Left)		
1D 23 Engine Room No.2 Wire and Engine		Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)		
2B	26	Doob Wire and Coul Cide I/D LLL / of Viel Done)		
2D	- 26	Dash 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)		

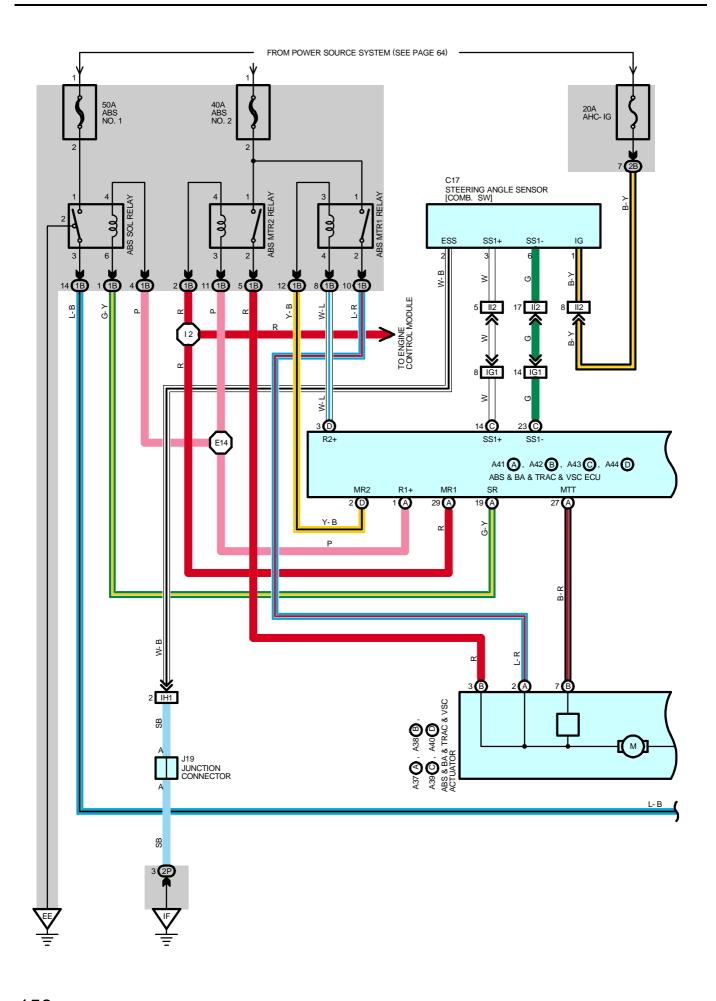
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

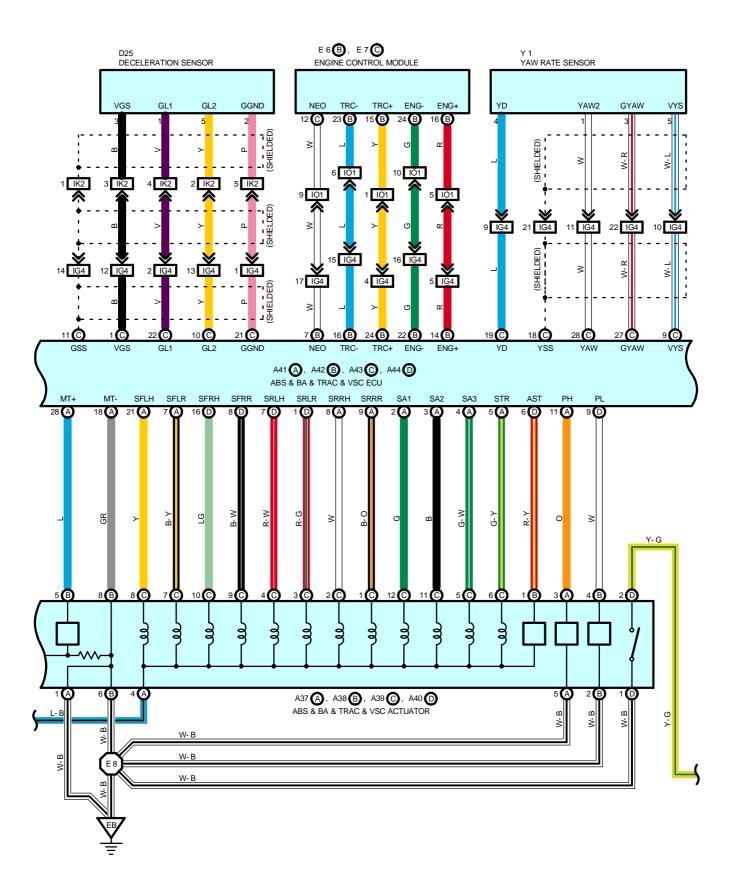
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EB1	46	Fraire Mire and Transmission Mire (On the Transmission)			
EB2	40	Engine Wire and Transmission Wire (On the Transmission)			
IG2	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
IH1	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)			
IH2	50	Tient Farier integration while and Column while (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)			
IU1					
IU2	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)			

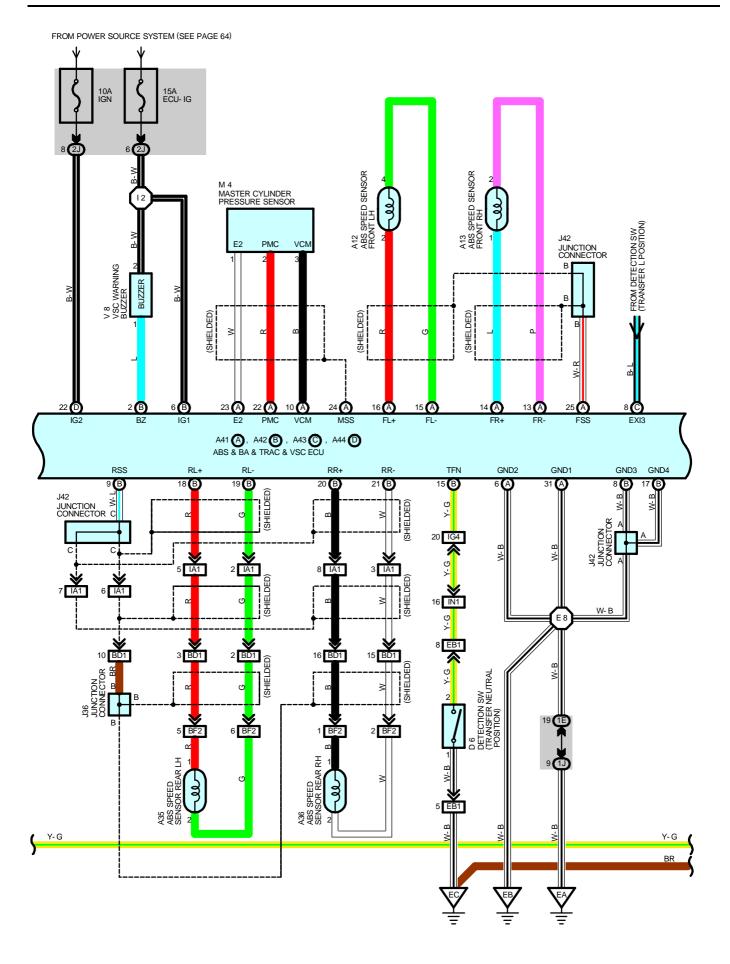
: GROUND POINTS

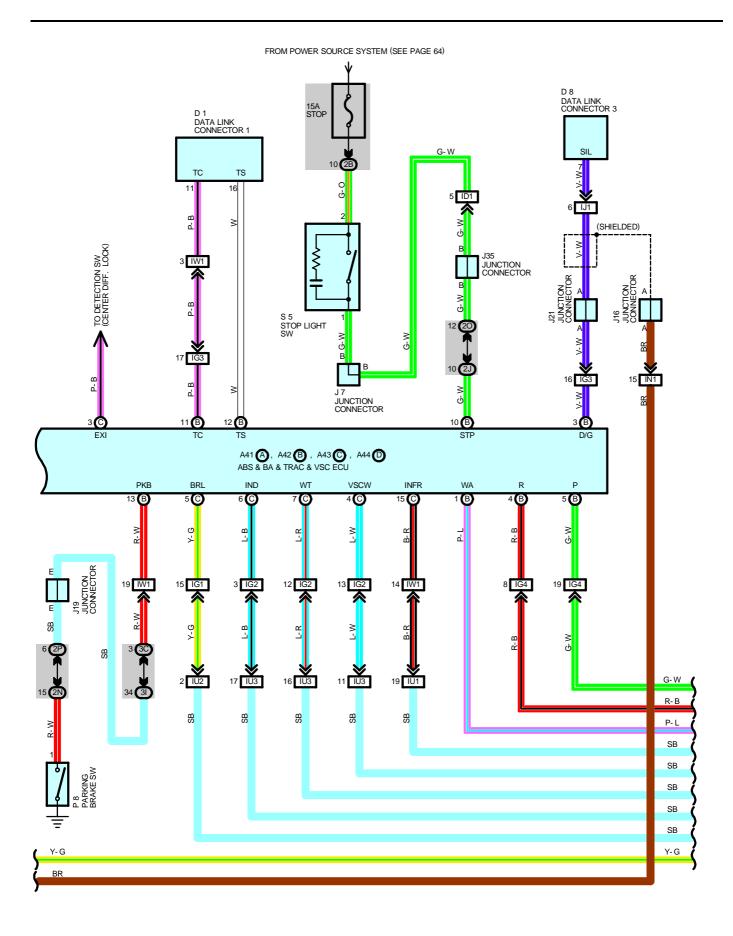
Code	See Page	Ground Points Location
EC	46	Rear Bank of Right Cylinder Head
EE	46	Front Left Side of Fender Apron
IF	40	Set Bolt of Cowl Side J/B LH
IG	48	Set Boil of Cowi Side J/B LH

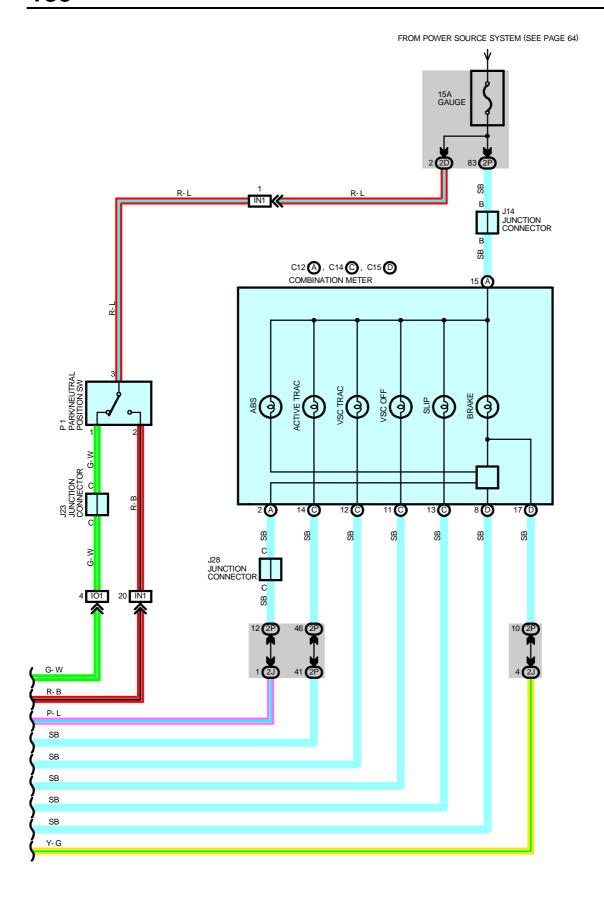
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E7	46	Engine Wire	15		
E10	46		16	50	Dash Wire
12	50	Engine Room No.2 Wire	l14]	











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.

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

(B) 6-GROUND : Approx. 12 volts with ignition SW at $\bf ON$ or $\bf ST$ position (D)22-GROUND : Approx. 12 volts with ignition SW at $\bf ON$ or $\bf ST$ 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** $^{\circ}$ C, **68** $^{\circ}$ 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

Co	de	See Page	Co	de	See Page	Code	See Page
A ²	12	38	C14	С	40	J21	41
A ²	13	38	C15	D	40	J23	41
A	35	42	C.	17	40	J28	41
A	36	42	D	1	38	J35	42
A37	Α	38	D	6	38	J36	42
A38	В	38	D	8	40	J42	41
A39	С	40	D2	25	40	M4	39
A40	D	40	E6	В	40	P1	39
A41	Α	40	E7	С	40	P8	43
A42	В	40	J	7	41	S5	41
A43	С	40	J1	14	41	V8	41
A44	D	40	J1	16	41	Y1	41
C12	Α	40	J1	19	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1B	23	Engine Boom No 2 Wire and Engine Boom I/P (Engine Compartment Left)			
1E	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)			
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2D	20	Dash wire and Cow Side 3/6 LFI (Left Rick Pariet)			
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)			
20	20	Floor Write and Cowr Side 3/B LFI (Left Rick Parier)			
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)			
31	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			

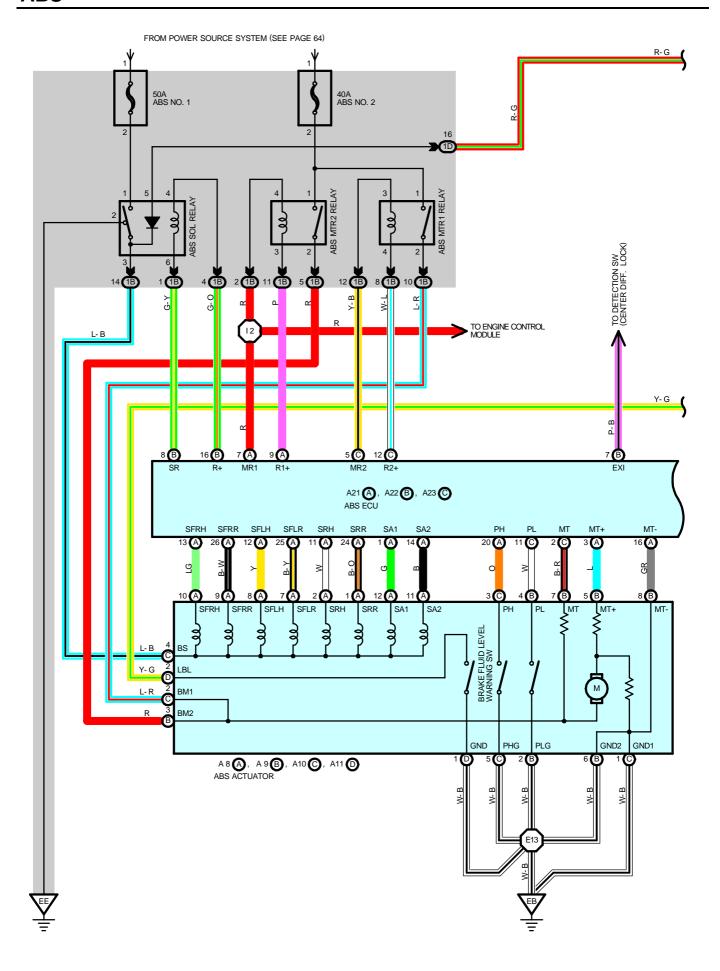
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

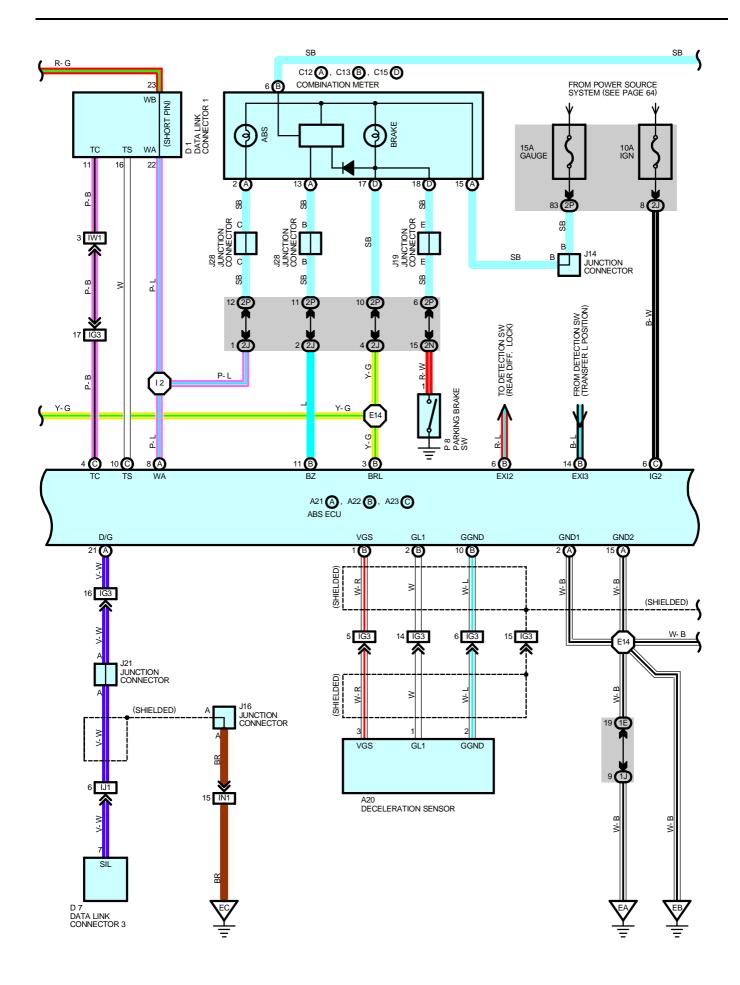
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EB1	46	Engine Wire and Transmission Wire (On the Transmission)			
IA1	48	Floor Wire and Engine Room No.2 Wire (Left Kick Panel)			
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)			
IG1					
IG2	50	Engine Deem No 3 Wire and Deek Wire (Bekind the Combination Mater)			
IG3	30	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
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	50	Engine Wire and Deek Wire (Bekind the Claus Boy)			
IO1	52	Engine Wire and Dash Wire (Behind the Glove Box)			
IU1					
IU2	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)			
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)			

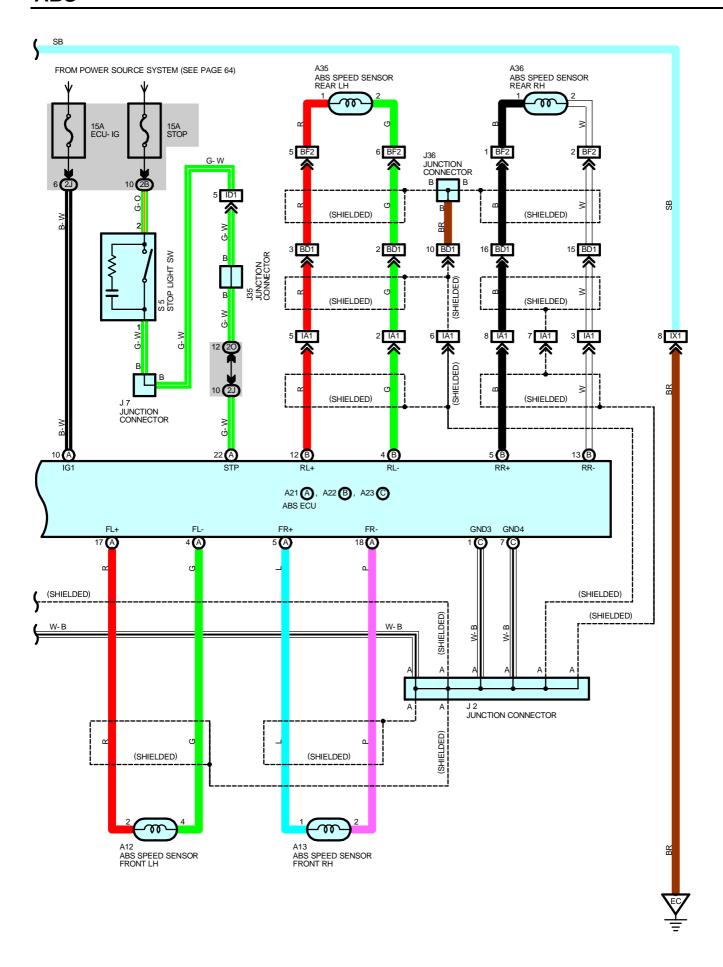
: GROUND POINTS

Code	See Page	Ground Points Location		
EA	46	Front Dight Cide of Fonder Apren		
EB	40	Front Right Side of Fender Apron		
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		

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E8	46	Transmission Wire	12	50	Engine Room No.2 Wire
E14	46	Engine Room No.2 Wire			







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** k Ω (**20**°C, **68**°F)

A13 ABS SPEED SENSOR FRONT RH

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

A35, A36 ABS SPEED SENSOR REAR LH, RH

1-2 : Approx. **1.2** kΩ (**25** $^{\circ}$ C, **77** $^{\circ}$ F)

: PARTS LOCATION

Co	Code See Page		Code		See Page	Code	See Page
A8	Α	38	A3	35	42	J16	41
A9	В	38	AS	36	42	J19	41
A10	С	38	C12	Α	40	J21	41
A11	D	38	C13	В	40	J28	41
A1	12	38	C15	D	40	J35	42
A1	13	38	D	1	38	J36	42
A2	20		D	7	40	P8	43
A21	Α	40	J	2	41	S5	41
A22	В	40	J	7	41		
A23	С	40	J1	14	41		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1B						
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)				
1E	1					
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 Coul Side I/D LLL /Left Viels Danel)				
20	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)
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)

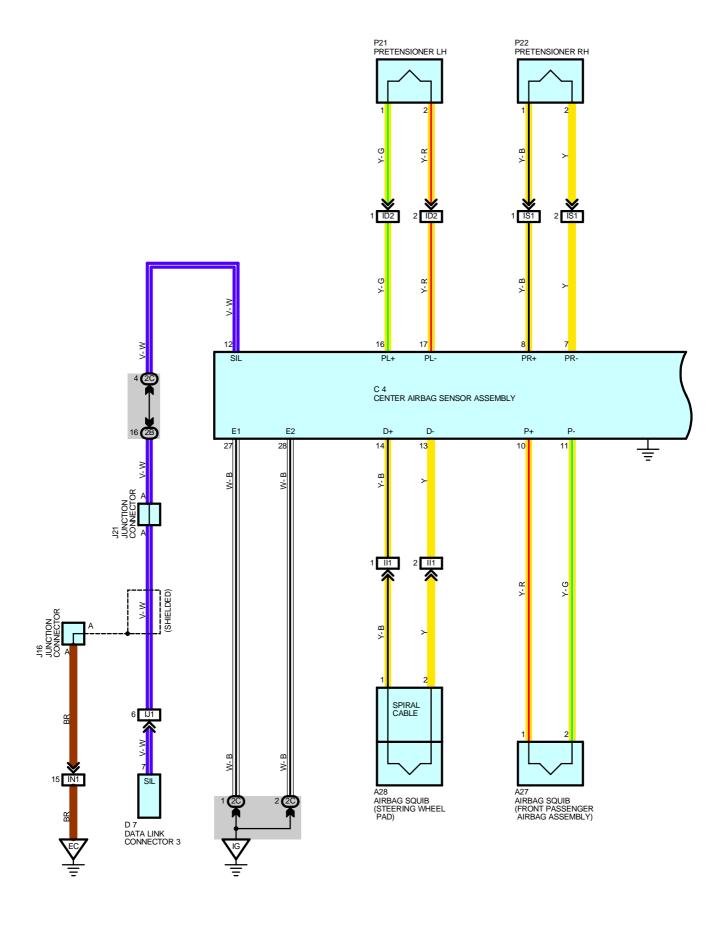
: GROUND POINTS

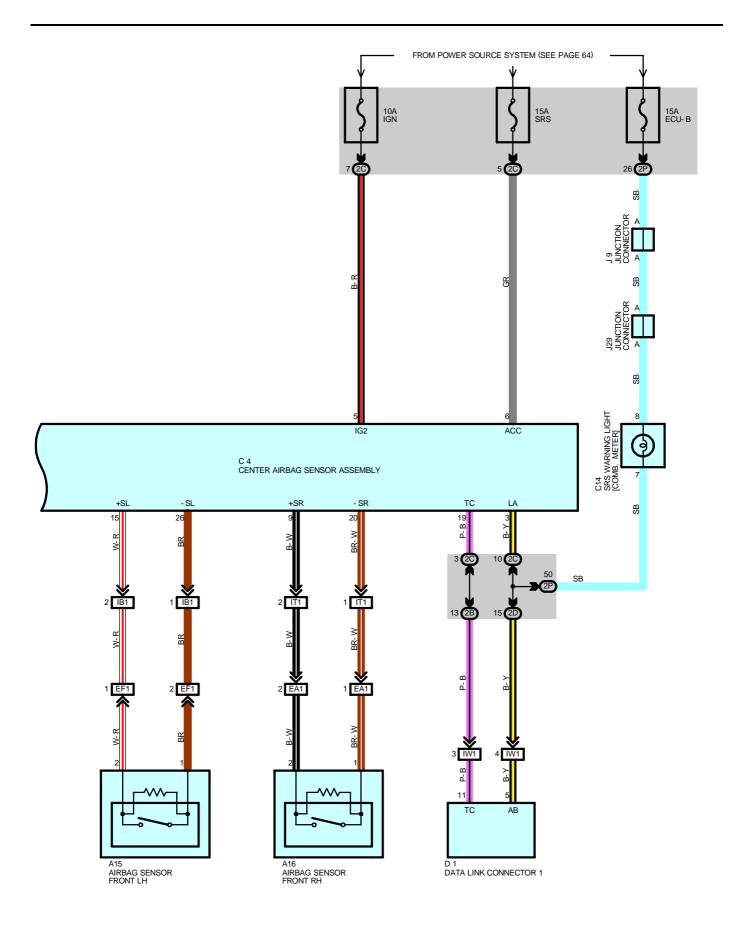
Code	See Page	Ground Points Location	
EA	46	Front Dight Cide of Fooder Apren	
EB	46	Front Right Side of Fender Apron	
EC	46	Rear Bank of Right Cylinder Head	
EE	46	Front Left Side of Fender Apron	

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E13	46	Engine Room No.2 Wire	12	50	Engine Room No.2 Wire
E14	46				

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 k Ω /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.





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 assemble.

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

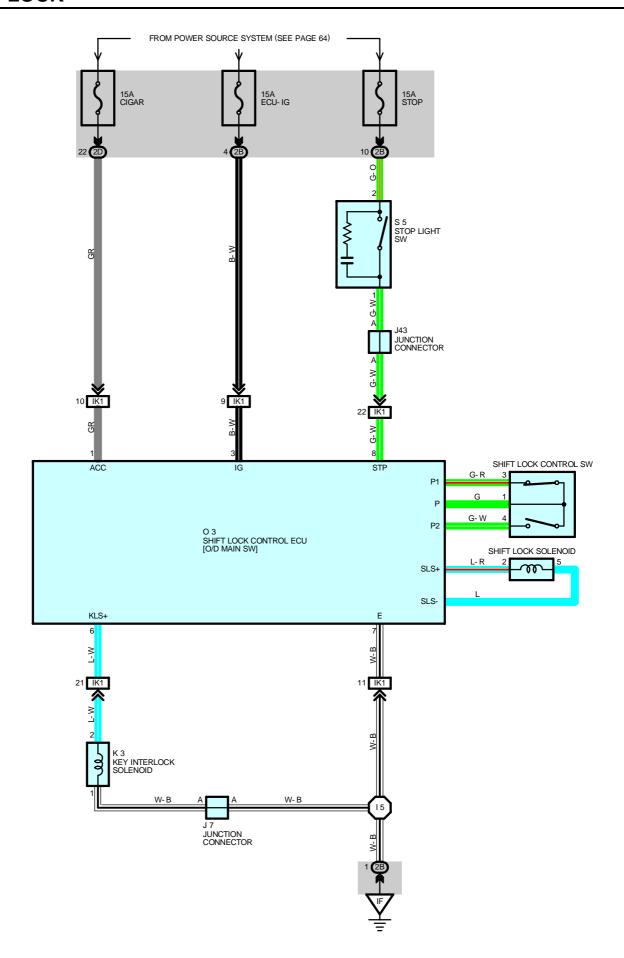
Code	See Page	Junction Block and Wire Harness (Connector Location)			
2B					
2C	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2D					
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
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	round Points Location	
ſ	EC	46	Rear Bank of Right Cylinder Head	
	IG	48	Set Bolt of Cowl Side J/B LH	



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	26	Dash Wire and Cowi Side 3/B LH (Left Nick Paner)			

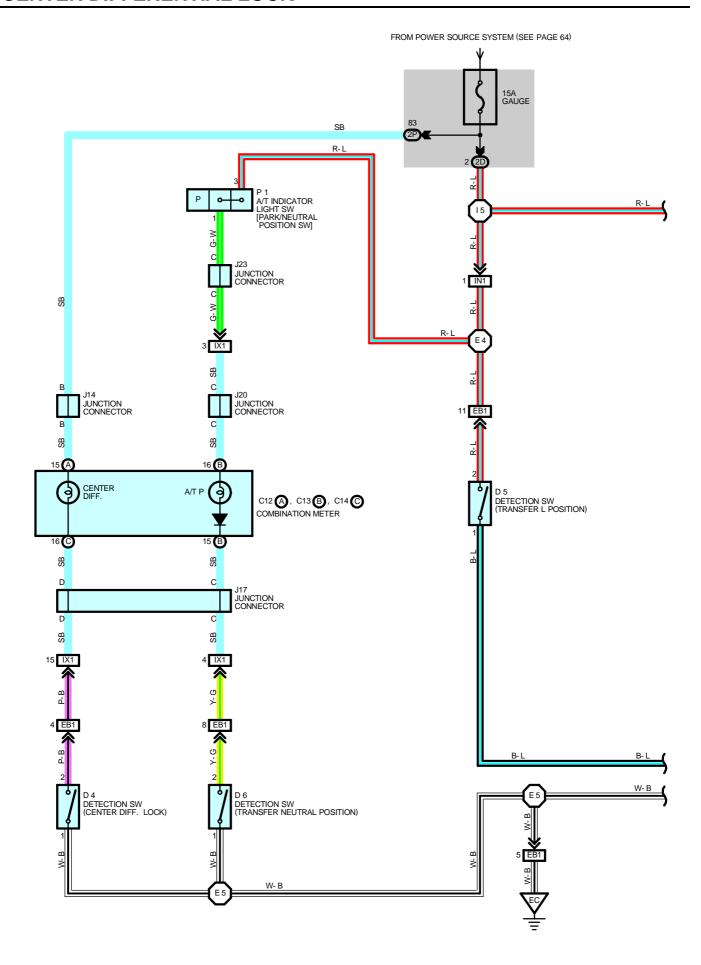
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

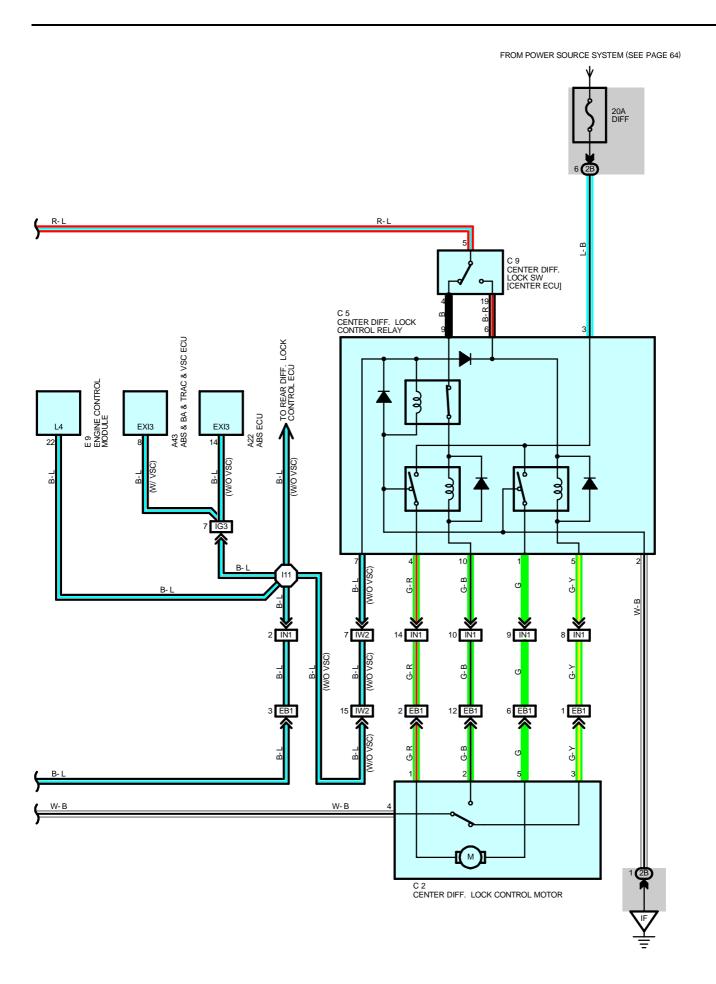
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IK1	50	Console Box Wire and Dash Wire (Left Side of Front Console)

: GROUND POINTS

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

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points	İ
15	50	Dash Wire				ĺ





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	Co	de	See Page	Code	See Page
A22	40	C13	В	40	J14	41
A43	40	C14	С	40	J17	41
C2	38	D.	4	38	J20	41
C5	40	D	5	38	J23	41
C9	40	D	6	38	P1	39
C12 A	40	E:	9	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	20	Dash Wile and Cowi Side 3/B Lm (Left Nick Paner)			
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			

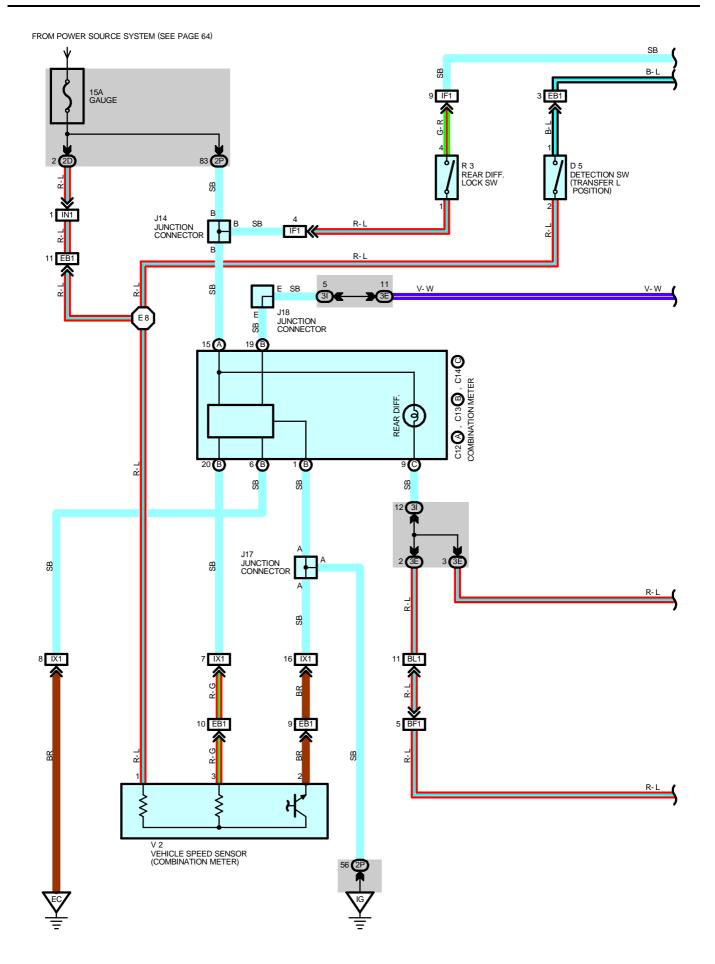
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

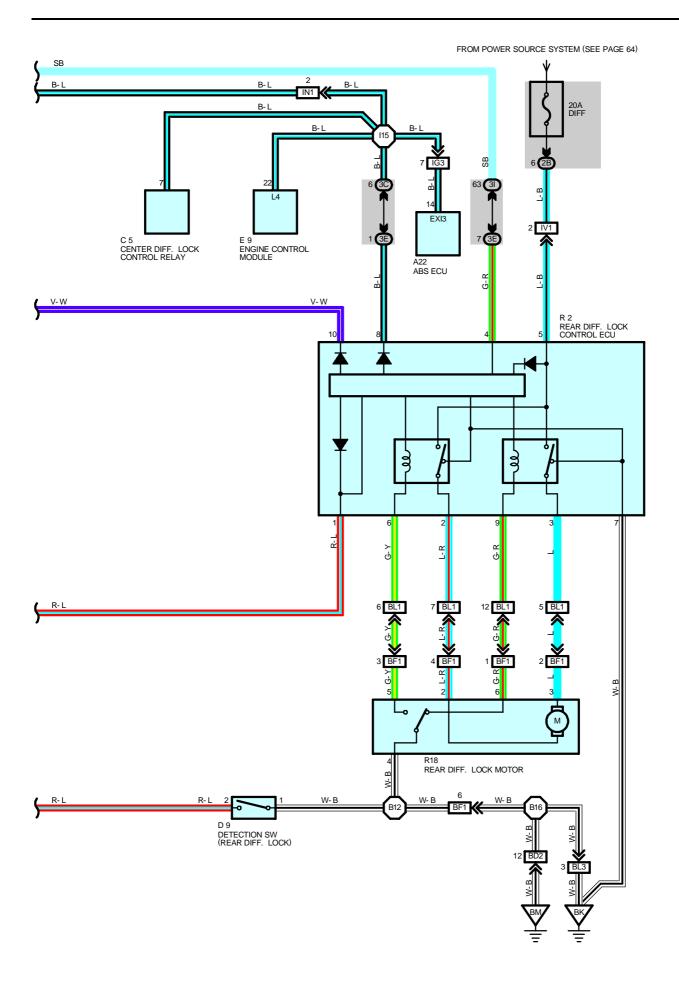
Code	See Page	pining Wire Harness and Wire Harness (Connector Location)			
EB1	46	ingine Wire and Transmission Wire (On the Transmission)			
IG3	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)			
IW2	54	Engine Room No.2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

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E4	46	Engine Room No.2 Wire	15	F0	Dash Wire
E5	46	Engine Room No.2 Wire	l11	50	





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

Co	de	See Page	Code	See Page	Code	See Page
A2	22	40	D5	38	J18	41
С	5	40	D9	42	R2	41
C12	Α	40	E9	40	R3	41
C13	В	40	J14	41	R18	43
C14	С	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	20			
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)		
31	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	50	Floor No 2 Mire and Floor No 2 Mire (Bight Cide of Boar Floor Crossmann)		
BL3	58	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)		

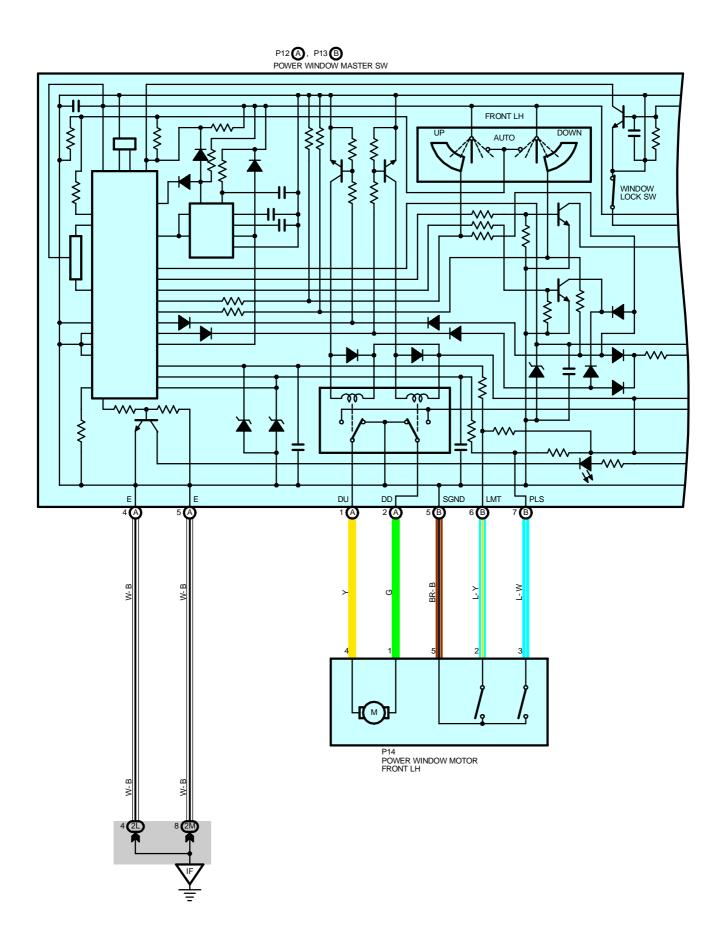


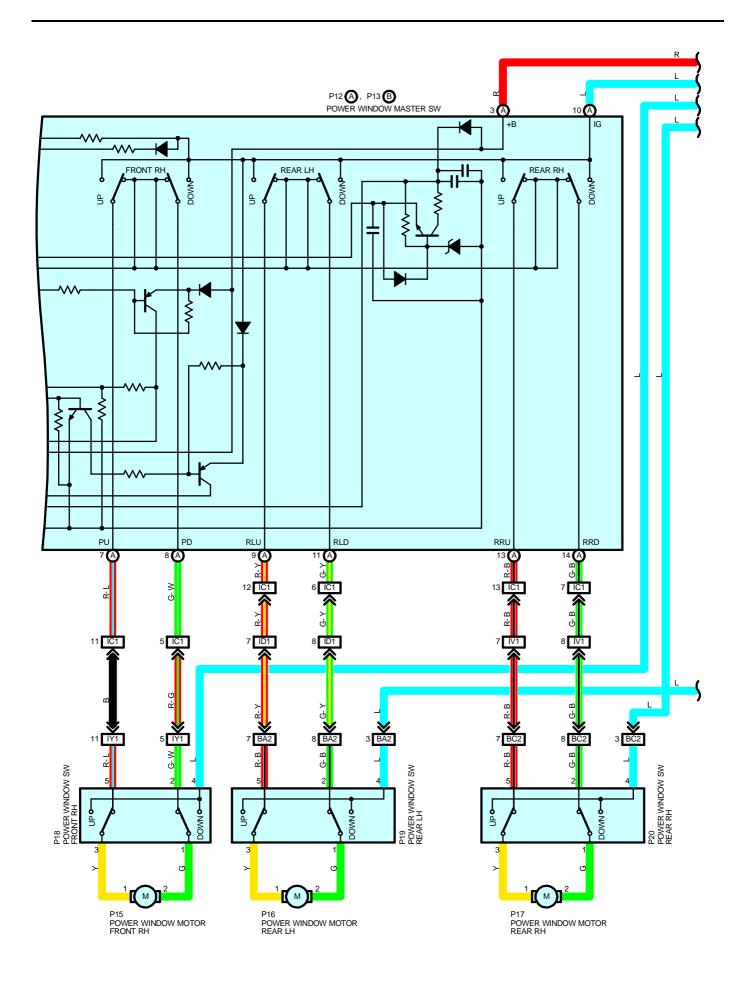
: GROUND POINTS

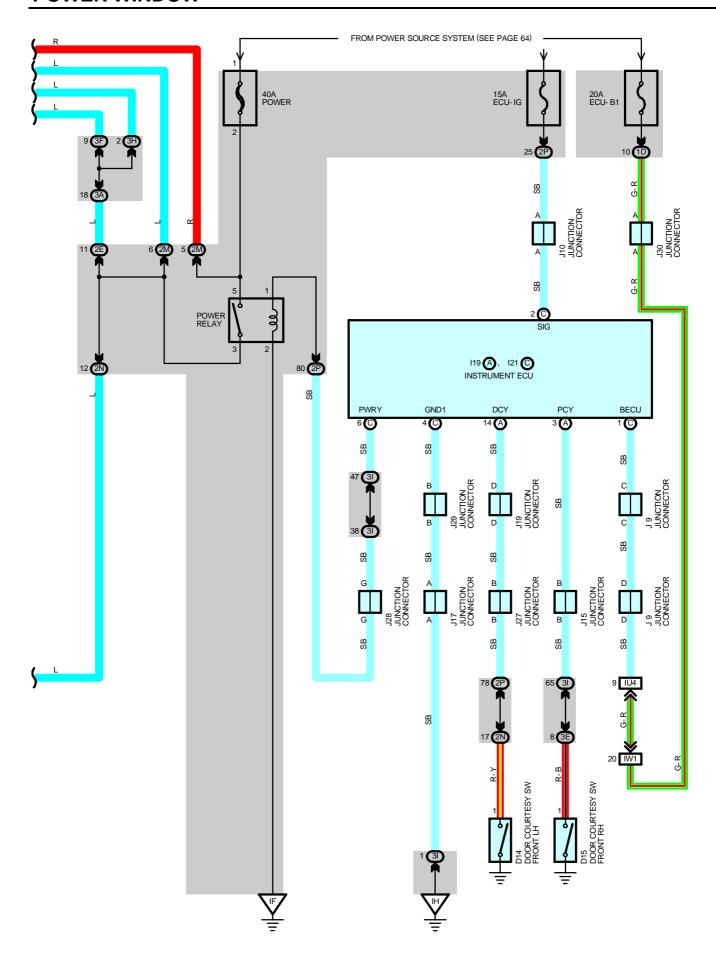
Code	See Page	Ground Points Location
EC	46	Rear Bank of Right Cylinder Head
IG	48	Set Bolt of Cowl Side J/B LH
BK	56	Front Side Under the Front Passenger's Seat
BM	56	Left Rear Side Quarter Panel



Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E8	46	Transmission Wire	B12	58	Frame Wire
l15	50	Dash Wire	B16	58	Floor No.3 Wire







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 \mathbf{ON} or \mathbf{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

 $\mbox{2-GROUND}\,$: Continuity with power window master SW at $\mbox{MANUAL DOWN}$ 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

Co	Code See Page Code		See Page	Code	See Page	
D	D14 42 J19 41		41	P15	43	
D	15	42	J27	41	P16	43
l19	Α	40	J28	41	P17	43
I21	С	40	J29	41	P18	43
	J9 41 J30 4		41	P19	43	
J	J10 41 P12 A		43	P20	43	
J	15	41	P13 B	43		
J	17	41	P14	43		

POWER WINDOW

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

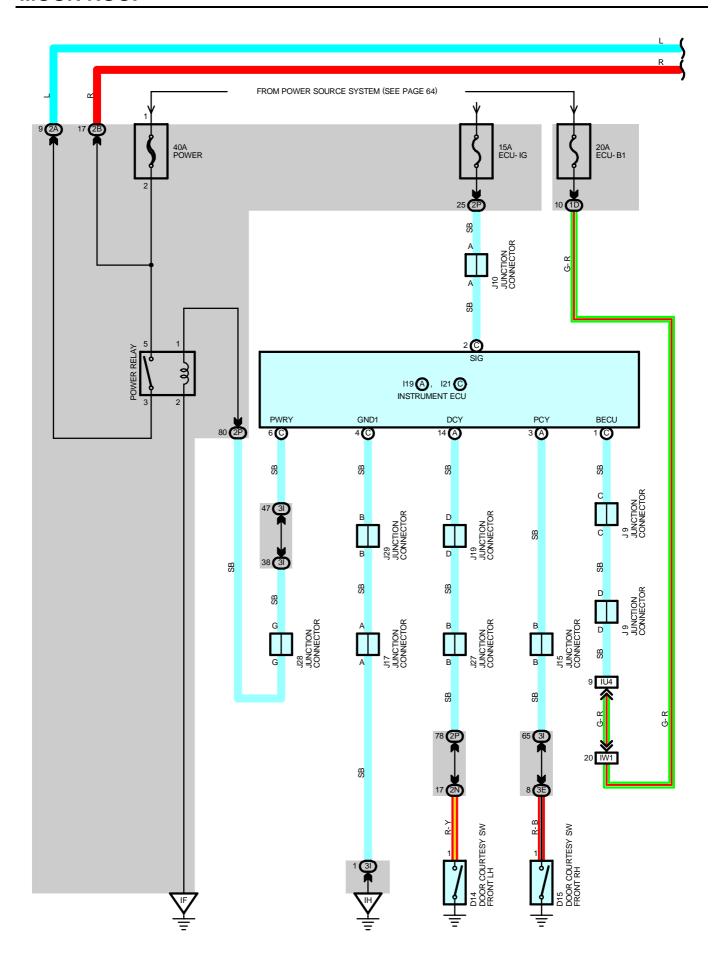
Code	See Page	Junction Block and Wire Harness (Connector Location)				
1D	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)				
2E	26	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)				
2L	26	Front Door LLI Wire and Coul Side I/D LLI (Left Viels Done)				
2M	26 2M	Front Door LH 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)				
3A	32	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3E	20	Floor No. 2 Miles and Could Cide. I/D DLL (Pinkt Kink Dane)				
3F	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3H	32	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)				
31	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				

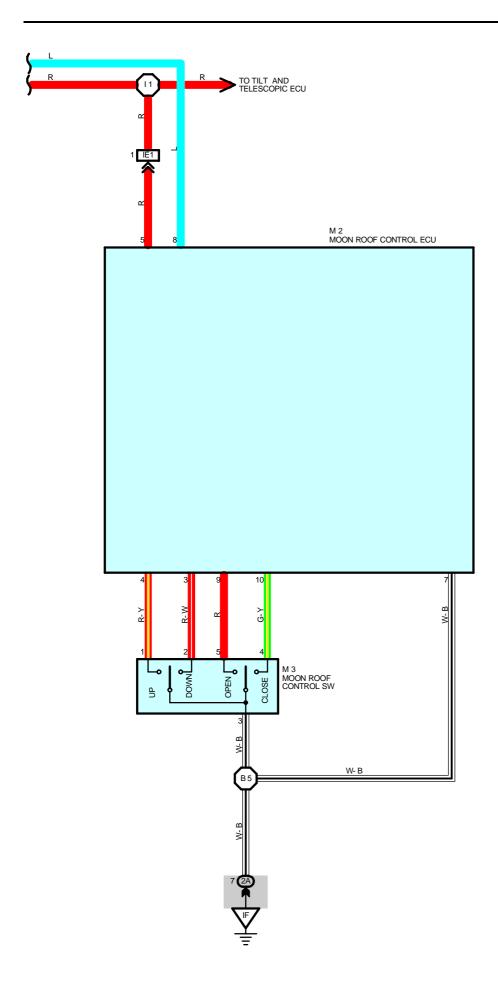
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

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	Fround Points Location			
IF	48	Set Bolt of Cowl Side J/B LH			
IH	48	Set Bolt of Cowl Side J/B RH			





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
D.	15	42	J15	41	J29	41
I19	Α	40	J17	41	M2	42
I21	I21 C 40		J19	41	M3	42
J	9	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)
31	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

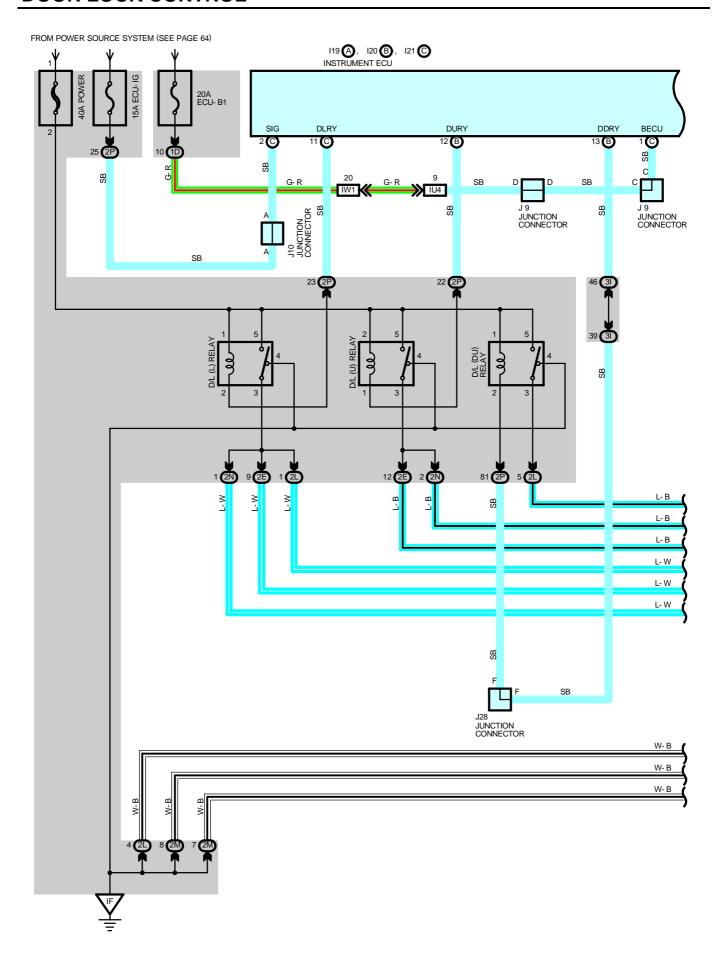
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

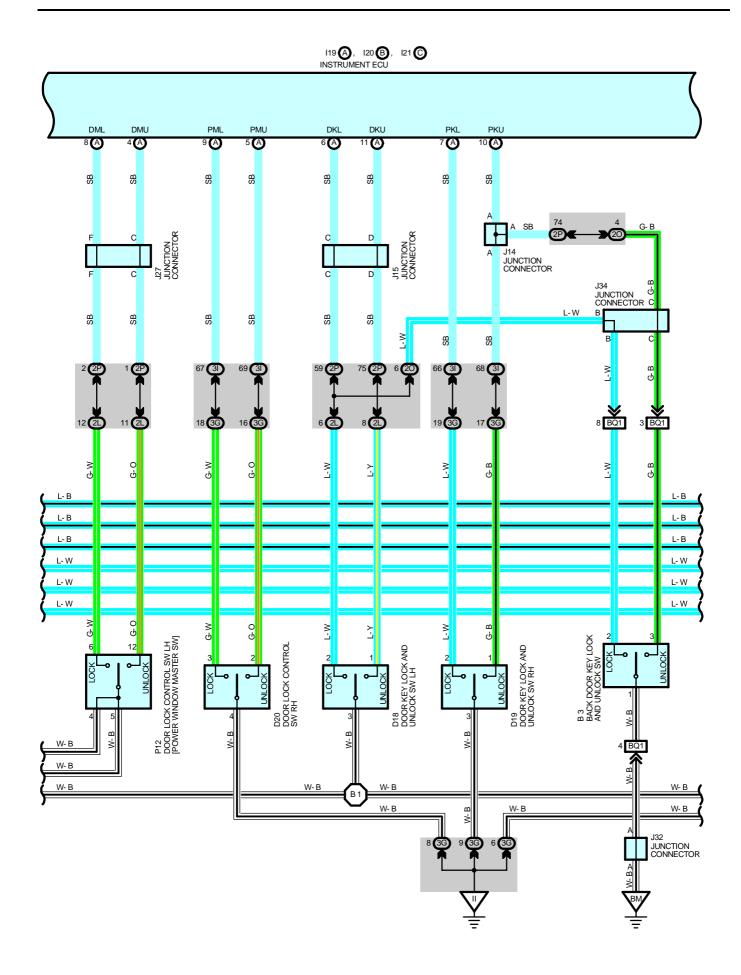
Code	See Page	ining Wire Harness and Wire Harness (Connector Location)			
IE1	48	Dash Wire and Roof Wire (Left Kick Panel)			
IU4	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)			

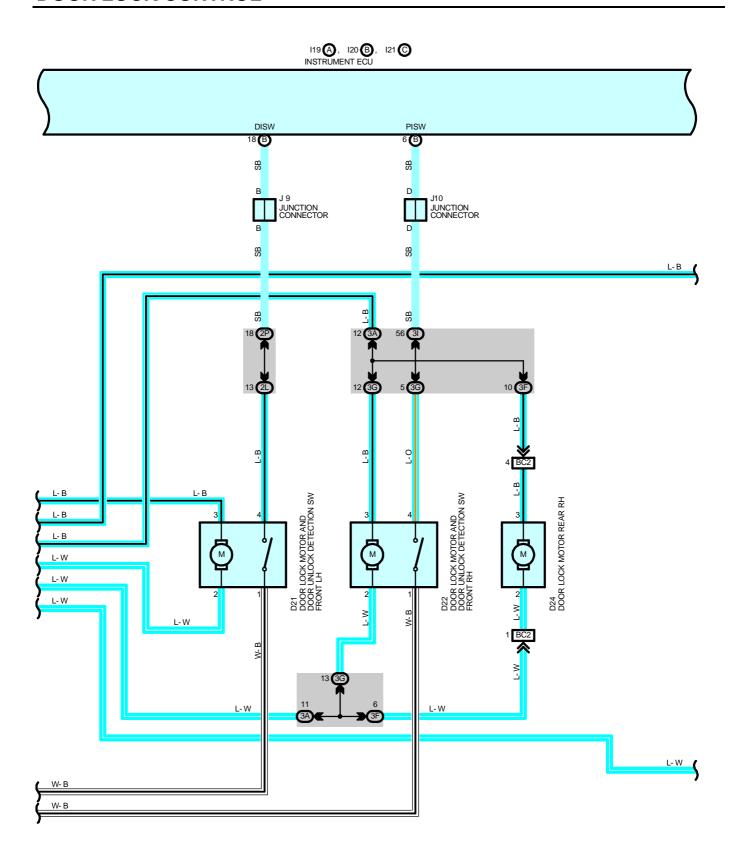
: GROUND POINTS

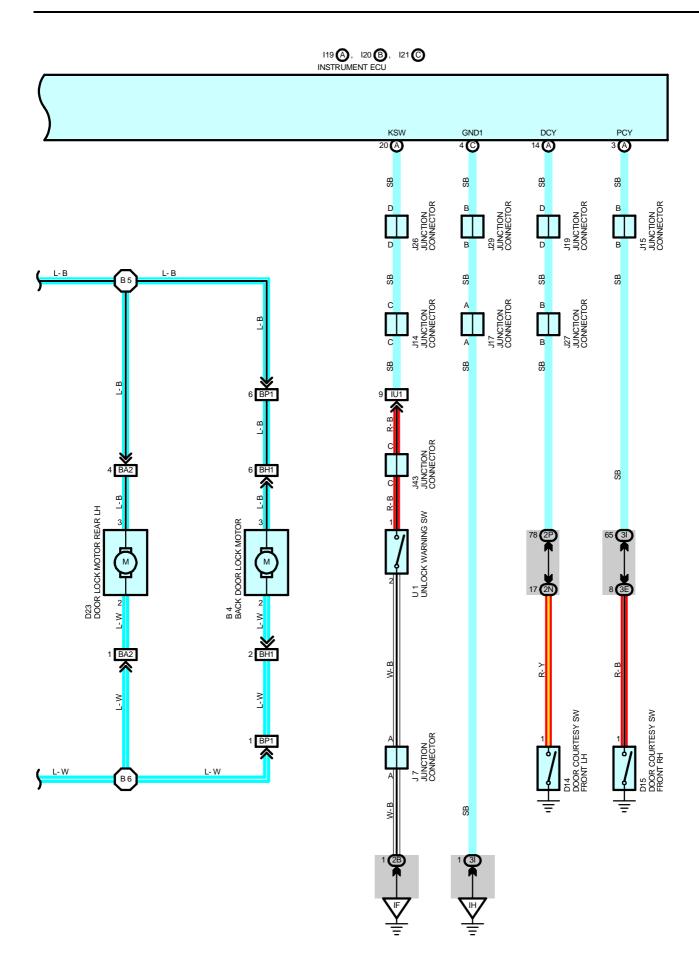
Code	See Page	Ground Points Location			
IF	48	Set Bolt of Cowl Side J/B LH			
IH	48	Set Bolt of Cowl Side J/B RH			

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
l1	50	Dash Wire	B5	58	Floor Wire









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

119 (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

O : PARTS LOCATION

Code	See Page	Co	de	See Page	Code	See Page
В3	42	D2	24	42	J19	41
B4	42	l19	Α	40	J26	41
D14	42	120	В	40	J27	41
D15	42	I21	С	40	J28	41
D18	42	J	7	41	J29	41
D19	42	J	9	41	J32	42
D20	42	J1	0	41	J34	42
D21	42	J1	4	41	J43	41
D22	42	J15		41	P12	43
D23	42	J1	7	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	26	Front Door LH Wire and Coul Side I/D LH // oft Kiek Done)				
2M	M 26	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)				
2N	00	Floor Wire and Coul Side I/D LH (Left Kick Done)				
20	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	20	Floor No. 2 Mins and Could Cide. I/D DLL (Pinkt Kint, Dane)				
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)				
31	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				

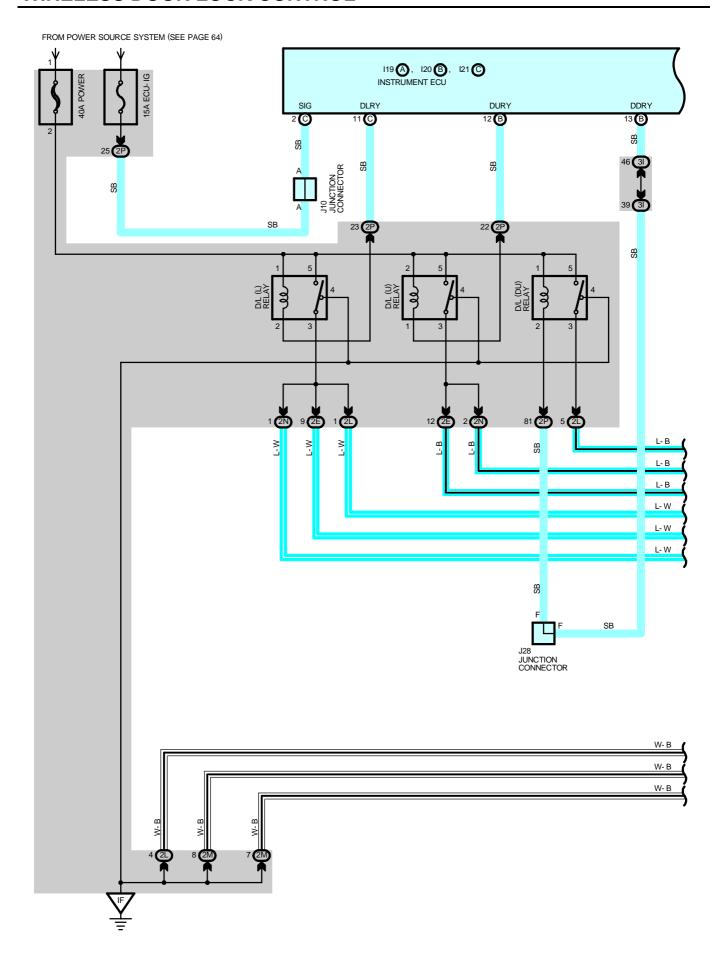
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

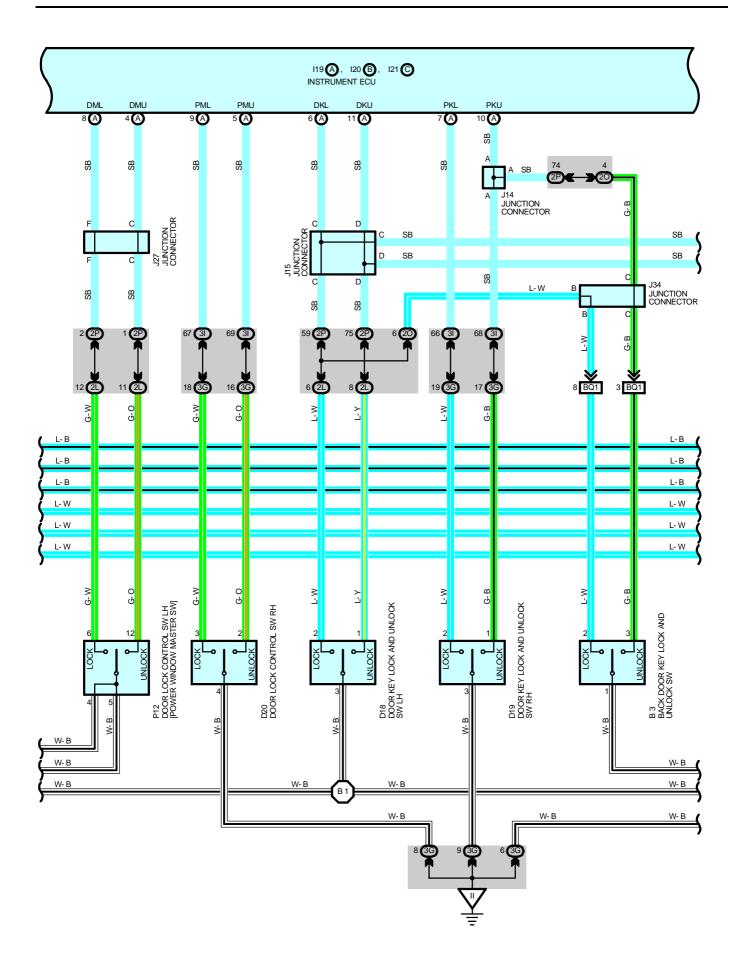
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
IU1	50	Instrument Denal Integration Wire and Deah Wire (Behind the Clave Boy)				
IU4	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)				
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove 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)				

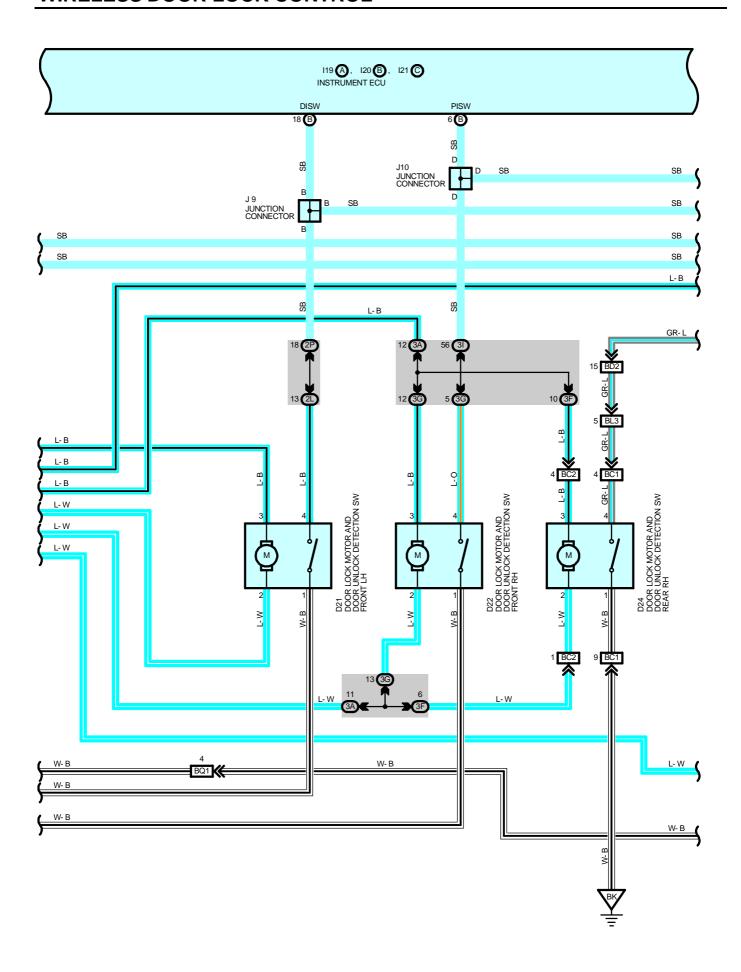
: GROUND POINTS

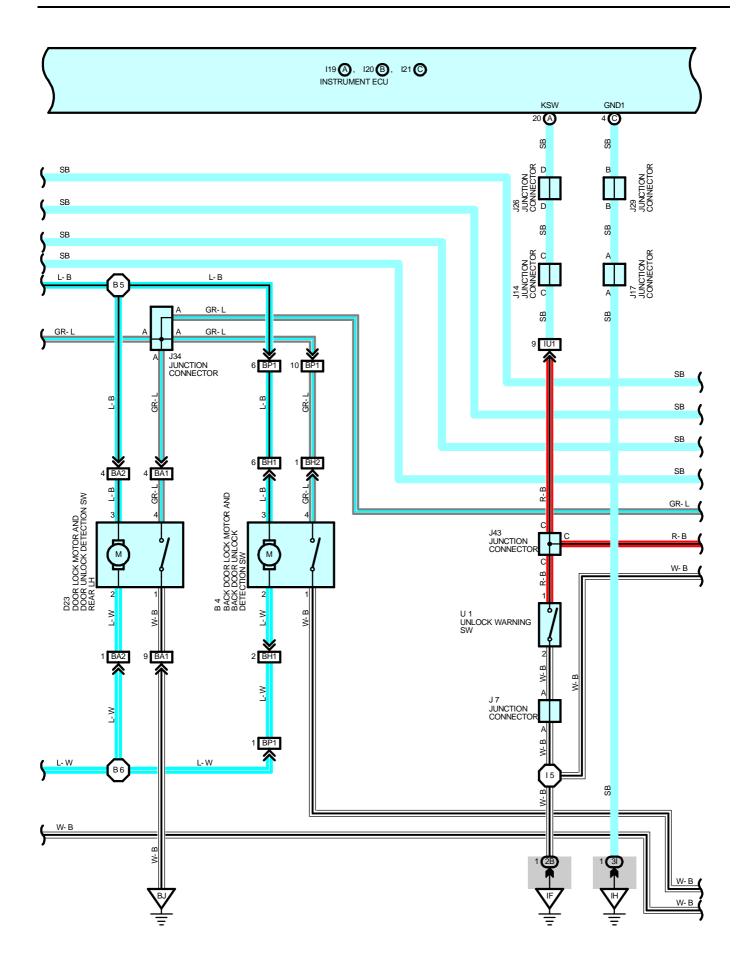
Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
IH	48	Set Bolt of Cowl Side J/B RH
II		
BM	56	Left Rear Side Quarter Panel

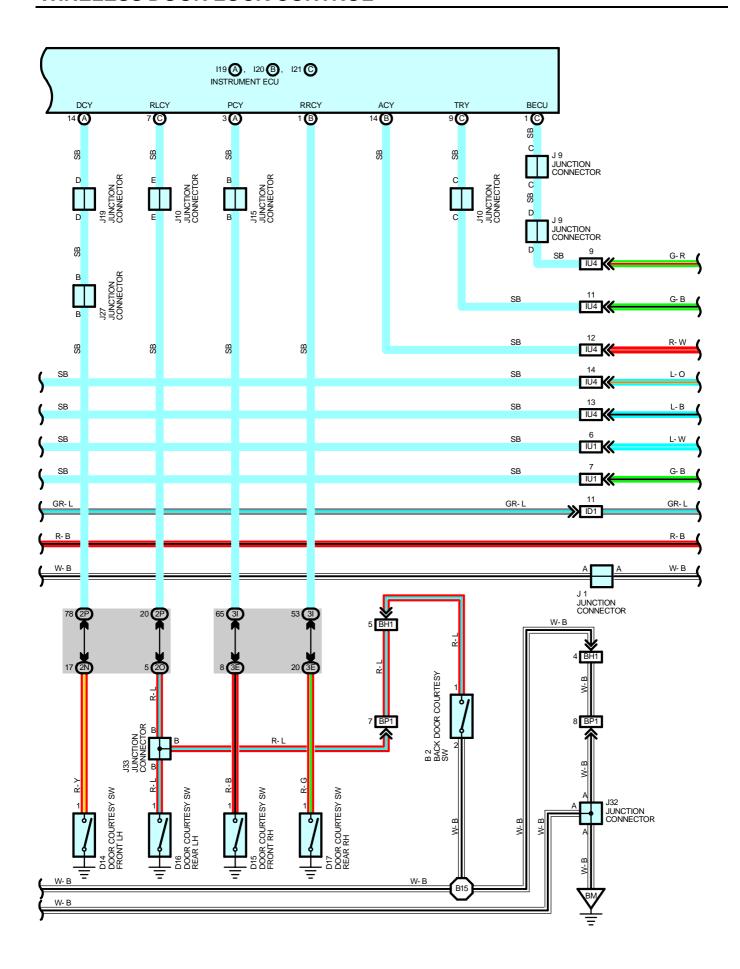
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B1	58	Front Door LH Wire	В6	58	Floor Wire
B5	58	Floor Wire			

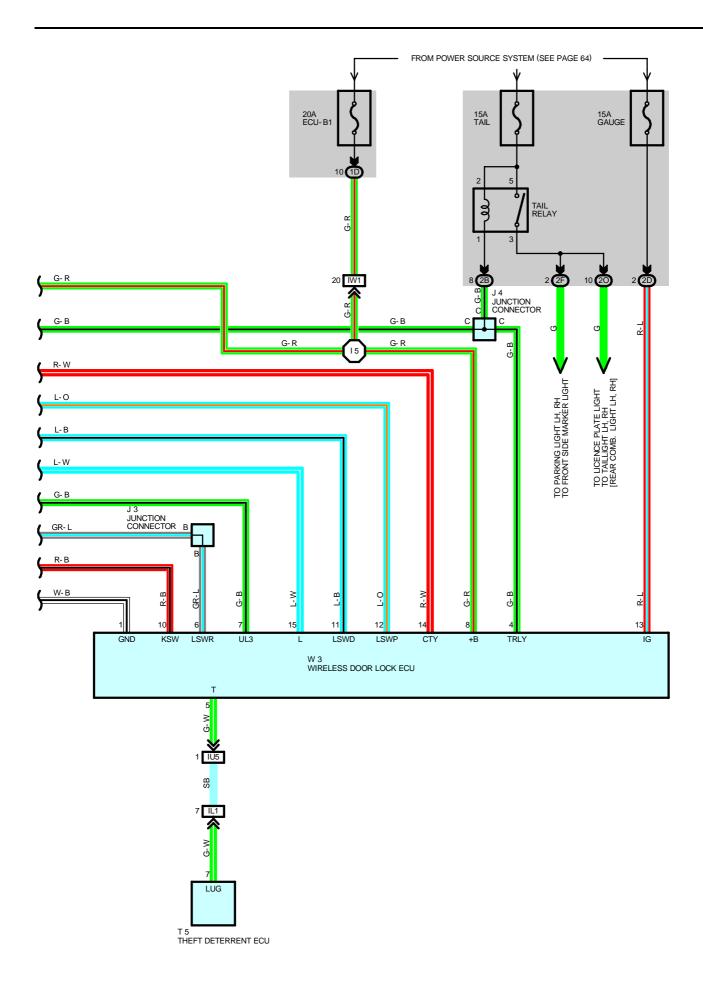












WIRELESS DOOR LOCK CONTROL

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.

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

119 (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	D2	24	42	J19	41
В3	42	l19	Α	40	J26	41
B4	42	120	В	40	J27	41
D14	42	I21	С	40	J28	41
D15	42	J	1	41	J29	41
D16	42	J	3	41	J32	42
D17	42	J.	4	41	J33	42
D18	42	J	7	41	J34	42
D19	42	J	9	41	J43	41
D20	42	J1	10	41	P12	43
D21	42	J1	14	41	T5	41
D22	42	J1	15	41	U1	41
D23	42	J1	17	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	00	Dook Wire and Coul Cide I/D I I / of Viel Done)			
2D	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2E	26	Engine Deem No 2 Wire and Coul Cide I/D LLL /Left Viels Denell			
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	20	Front Door En Wile and Cowi Side 3/B En (Leit Nick Paner)			
2N	26	Floor Wire and Cowl Side J/B LH (Left Kick Panel)			
20	20	Floor Wife and Cowi Side 3/B LFI (Left Nick Pariet)			
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	20	Floor No. 2 Wire and Coul Side I/D DIT (Binkt Kiel Dane)			
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)			
31	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

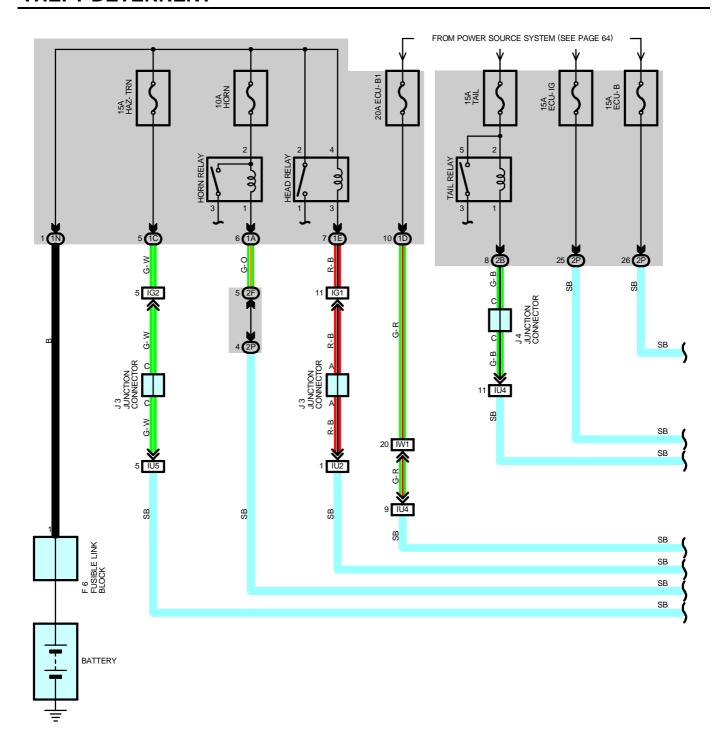
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)			
IL1	50	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)			
IU1					
IU4	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IU5					
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)			
BA1	FC	Door Door LLLMins and Floor Mins (Latt Cide of Contan Biller)			
BA2	56	Rear Door LH Wire and Floor Wire (Left Side of Center Pillar)			
BC1	FC	Door Door DI I Wiles and Floor No C Wiles (Dight Cide of Contan Billon)			
BC2	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	50	Billion No. 4 Wire and Book Book Incom Wire (I. of O'de of Book Book)			
BH2	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)			

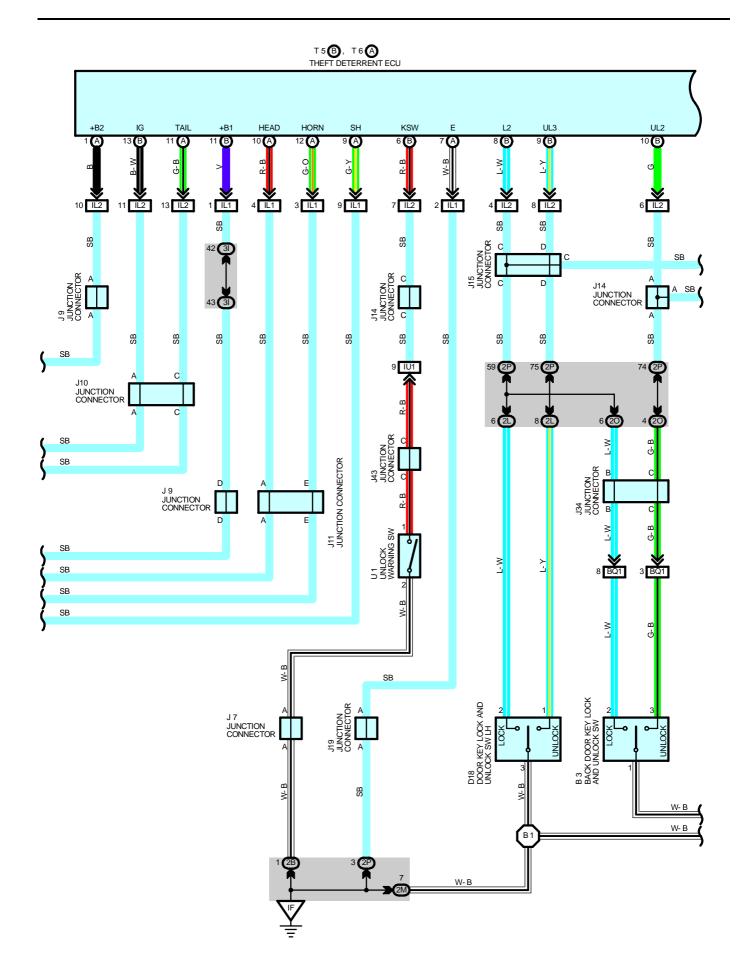
: GROUND POINTS

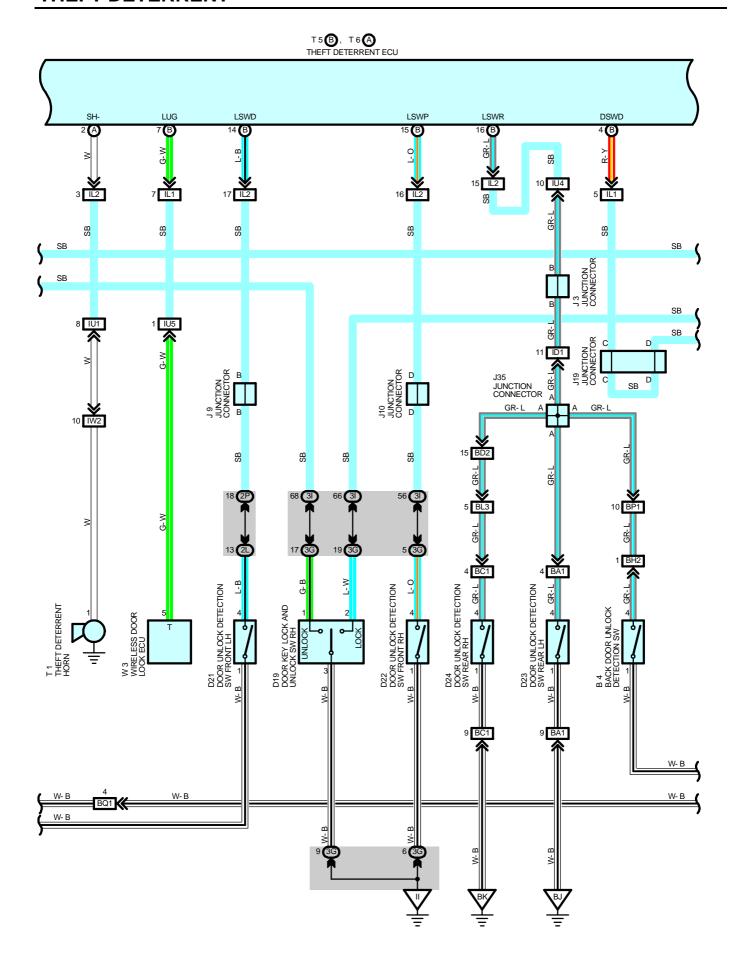
Code	See Page	Ground Points Location		
IF	48	Set Bolt of Cowl Side J/B LH		
IH	40	Set Bolt of Cowl Side J/B RH		
II	48	Set Bolt of Cowl Side 3/B KH		
BJ	56	Under the Driver's Seat		
BK	56	Front Side Under the Front Passenger's Seat		
BM	56	Left Rear Side Quarter Panel		

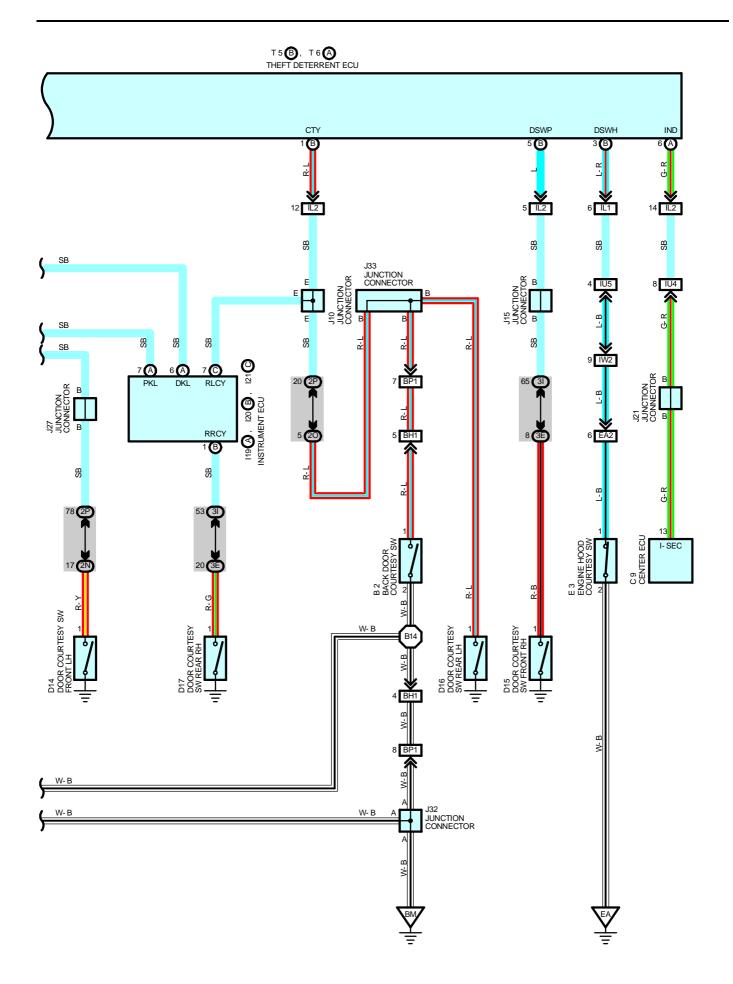


Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
15	50	Dash Wire	B6	58	Floor Wire
B1	58	Front Door LH Wire	B15	58	Back Door Upper Wire
B5	58	Floor Wire			









THEFT DETERRENT

SERVICE HINTS

D18, D19 DOOR KEY LOCK AND UNLOCK SW LH, RH

1-3 : Closed with door lock cylinder unlocked with key2-3 : 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 key1-2 : 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	Co	ode	See Page	Co	de	See Page
B2	42	Е	3	38	J2	21	41
В3	42	F	6	38	J2	27	41
B4	42	l19	Α	40	J:	32	42
C9	40	120	В	40	J:	33	42
D14	42	I21	С	40	J:	34	42
D15	42	J	3	41	J	35	42
D16	42	J	4	41	J43		41
D17	42	J	7	41	T1		39
D18	42	J	9	41	T5	В	41
D19	42	J.	10	41	T6	Α	41
D21	42	J.	11	41	U1		41
D22	42	J.	14	41	V	/3	41
D23	42	J.	15	41			
D24	42	J.	19	41			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A		
1C	00	Facina Daore No C.Wire and Facina Daore I/D /Facina Connectional Laft
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)
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	20	FIORE DOOF EH WITE AND COWN SIDE 3/B EH (Left Nick Pariet)
2N	Clear Wire and Coul Side I/D LLL / of Viels Danel)	Floor Wire and Coul Cide I/D LLL / of Viel Dane)
20	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)
3G	32	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
31	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

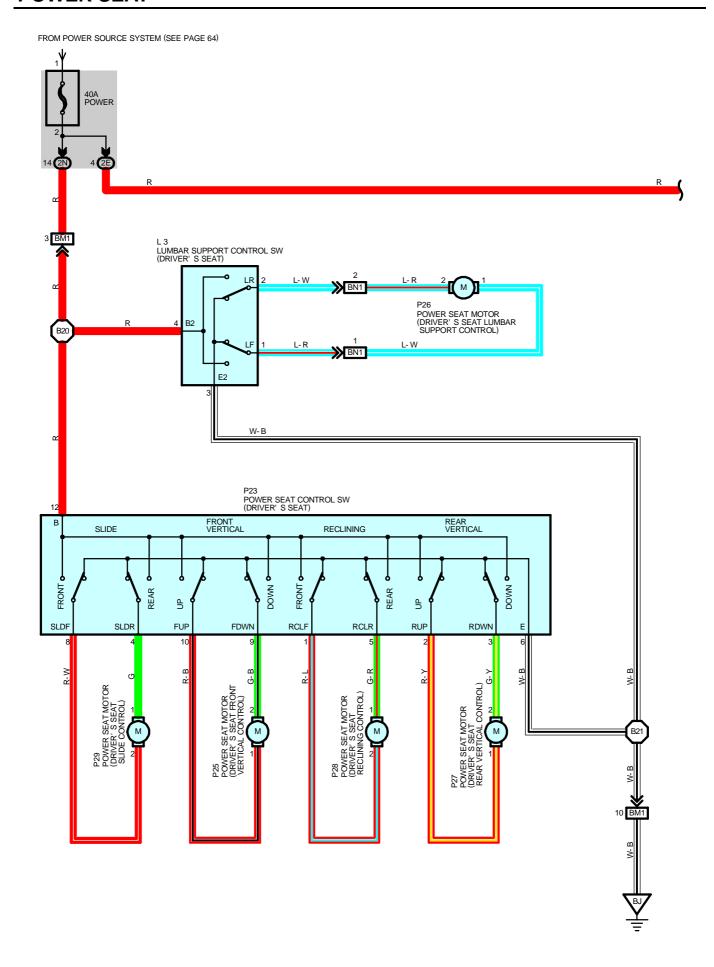
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
EA2	46	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)				
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)				
IG1	50	Familia Dear No C.Wire and Deak Wire (Dekind the Combination Mater)				
IG2	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)				
IL1	50	Instrument Developte wetter Miss and Committee Wise (Instrument Development)				
IL2	50	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)				
IU1						
IU2	50	Instrument Danel Integration Wire and Deep Wire (Behind the Claus Boy)				
IU4	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)				
IU5	1					
IW1	54	Engine Peam No 2 Wire and Deep Wire (Pakind the Clave Pey)				
IW2	7 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)				
BD2	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)				
BH1	50	Billow No. 4 Wire and Book Door Linner Wire (Left Side of Book Door)				
BH2	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)				

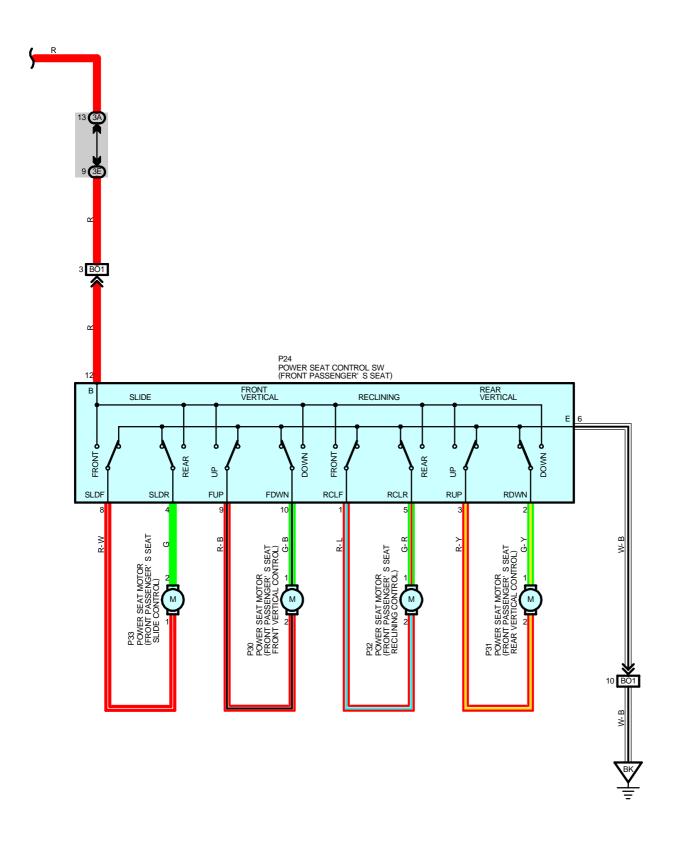
: GROUND POINTS

Code	See Page	Ground Points Location
EA	46	Front Right Side of Fender Apron
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



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





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

O

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)

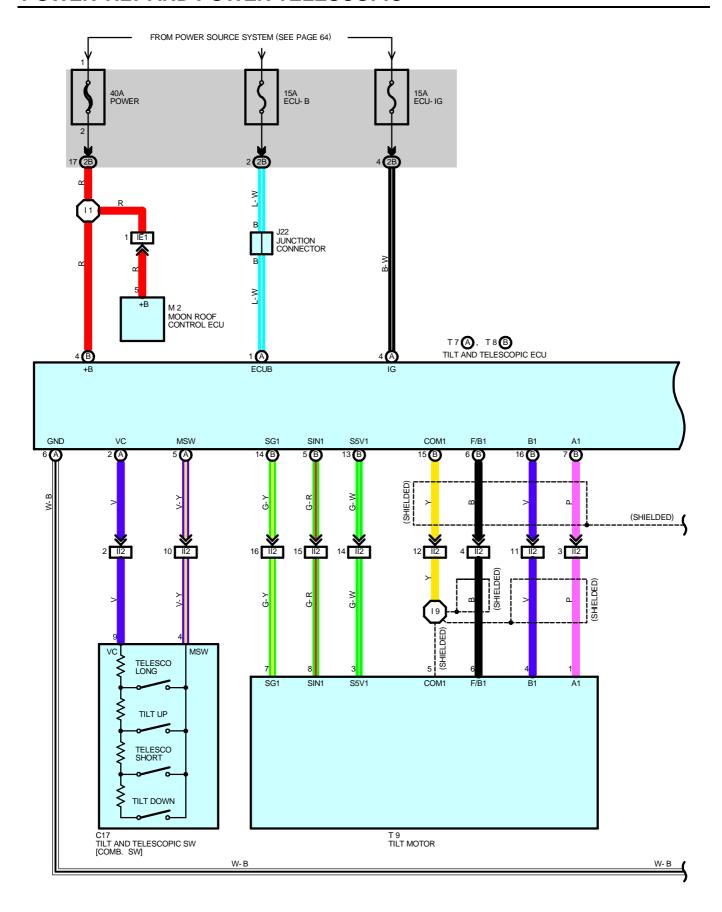
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

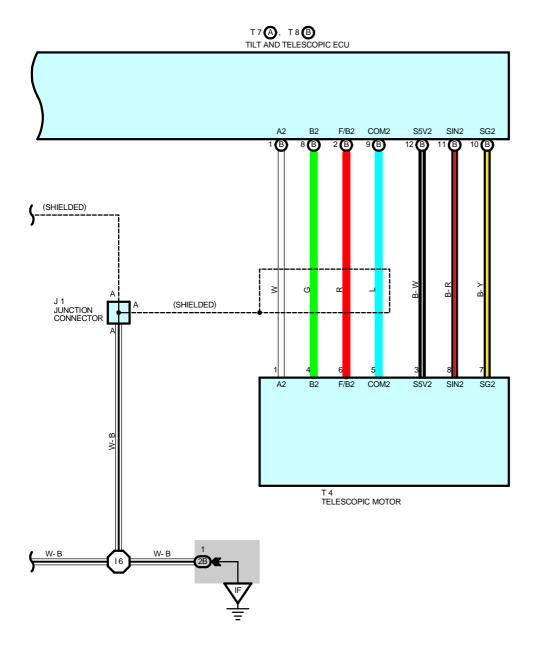
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BM1	60	Floor Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BN1	60	Seat No.2 Wire and Front Seat LH Wire (Rear Side Under the Driver's Seat)
BO1	60	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front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

7 : 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	

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





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** $k\Omega$ with tilt down operation

: PARTS LOCATION

Code	See Page	Code	æ	See Page	Co	de	See Page
C17	40	M2		42	T8	В	41
J1	41	T4		41	Т	9	41
J22	41	T7	Α	41			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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

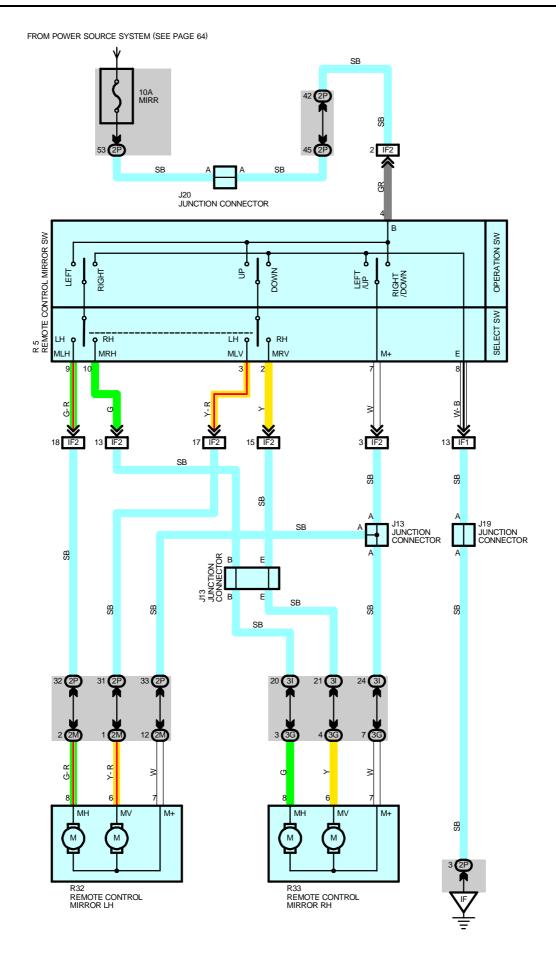
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	ode 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)

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



Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I1	50	Dash Wire	19	50	Columm Wire
16	50				



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

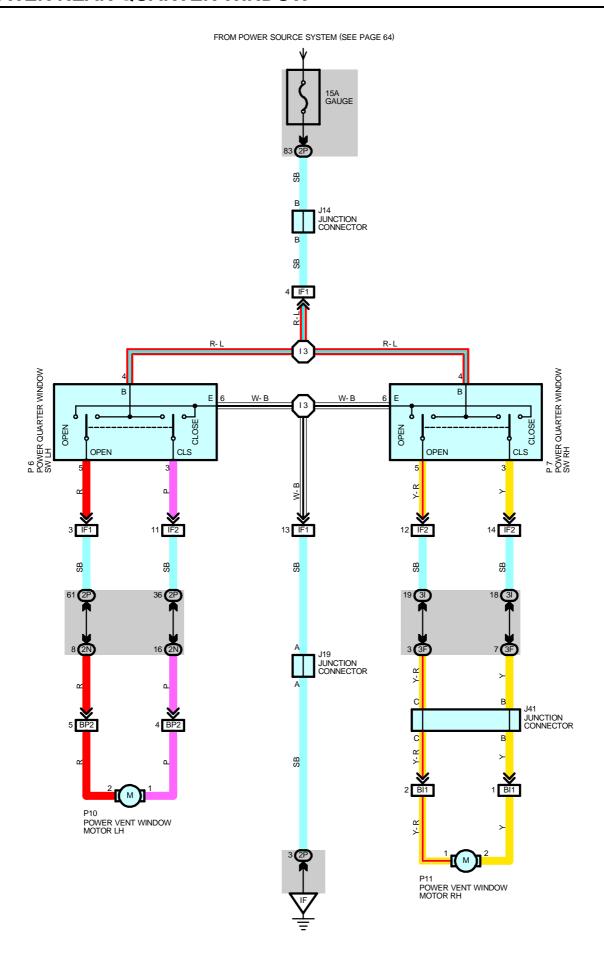
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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)
31	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 Denel Intervation Wive and Instrument Denel Wive (Left Cide of Instrument Denel)	
IF2		Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)	

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



P6 POWER QUARTER WINDOW SW LH

4-GROUND : Approx. 12 volts with ignition SW at \mathbf{ON} or \mathbf{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	Inction 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)			
31	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			

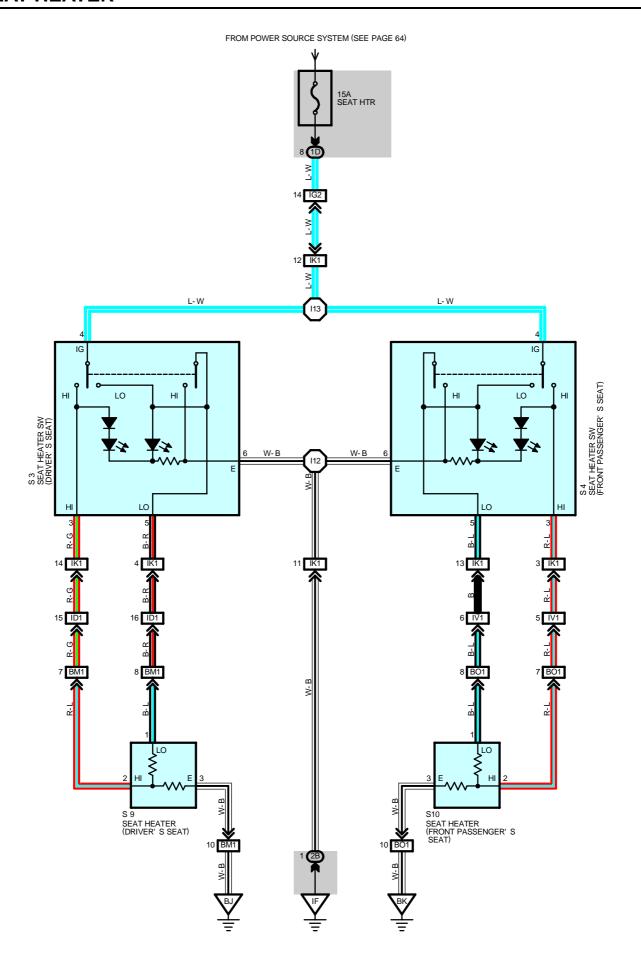
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
IF1	40	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)				
IF2	IF2 48	Instrument Paner integration while and instrument Paner while (Left Side of instrument Paner)				
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	

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
13	50	Instrument Panel Wire			



S3 SEAT HEATER SW (DRIVER'S SEAT)

4-GROUND : Approx. 12 volts with ignition SW at \mathbf{ON} or \mathbf{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)	

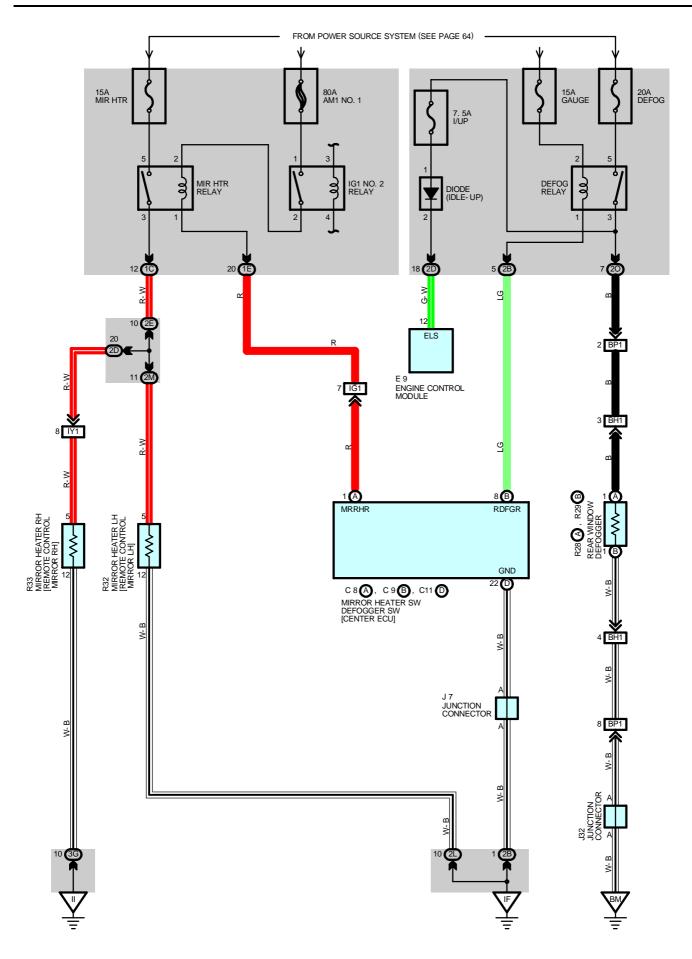
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

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	et Bolt of Cowl Side J/B LH		
BJ	56	nder the Driver's Seat		
BK	56	ront Side Under the Front Passenger's Seat		

Code	See Page	Page Wire Harness with Splice Points		See Page	Wire Harness with Splice Points
l12	50	Console Box Wire	l13	50	Console Box Wire



DEFOG RELAY

 $5\text{--}3\,$: Closed with ignition SW at ON or ST position and defogger SW on

MIR HTR RELAY

5-3 : Closed with ignition SW at \mathbf{ON} or \mathbf{ST} position and mirror heater SW on

: PARTS LOCATION

Co	de	See Page	Code		See Page	Code	See Page
C8	Α	40	J7 4		41	R32	43
C9	В	40	J3	32	42	R33	43
C11	D	40	R28	Α	43		
E9		40	R29	В	43		

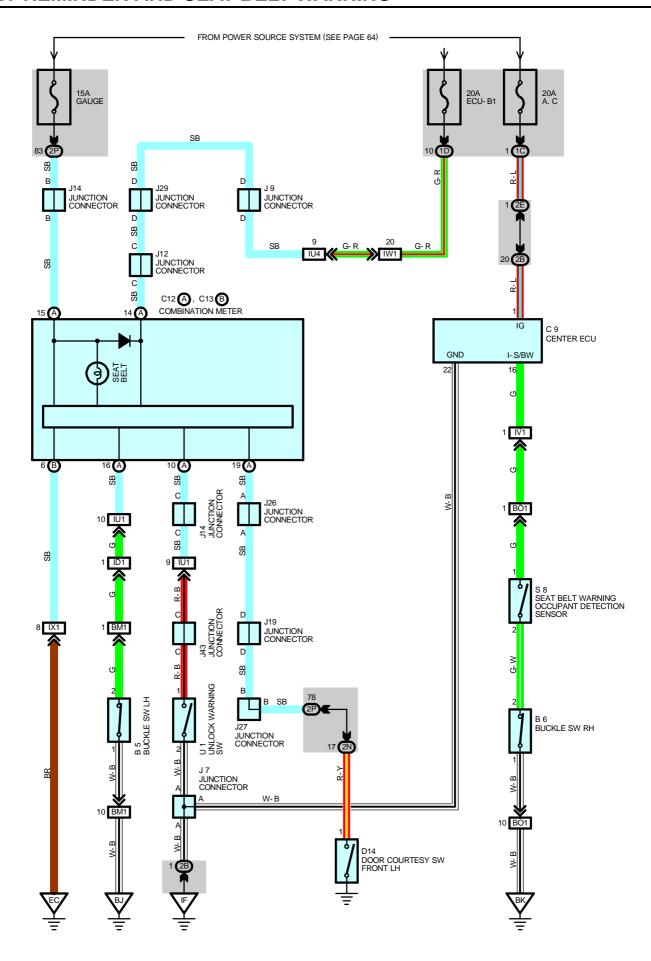
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1C	00	Facine Deep No 2 Wise and Facine Deep 1/D (Facine Compostment) of			
1E	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2B	26	Doob War and Ord O'ds 1/D I I / I / (1/C) Door)			
2D	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	26	Front Door III Wire and Coul Cide I/D III // oft //iel Door)			
2M	26	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)			
20	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	oining Wire Harness and Wire Harness (Connector Location)	
IG1	50	gine Room No.2 Wire and Dash Wire (Behind the Combination Meter)	
IY1	54	ont Door RH Wire and Dash Wire (Right Kick Panel)	
BH1	58	illar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)	
BP1	58	lar No.1 Wire and Floor Wire (Left Rear Side Quarter Panel)	

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	



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	
С	9	40	J12	41	J43	41	
C12	Α	40	J14	41	S8	44	
C13	В	40	J19	41	U1	41	
D14		42	J26	41			

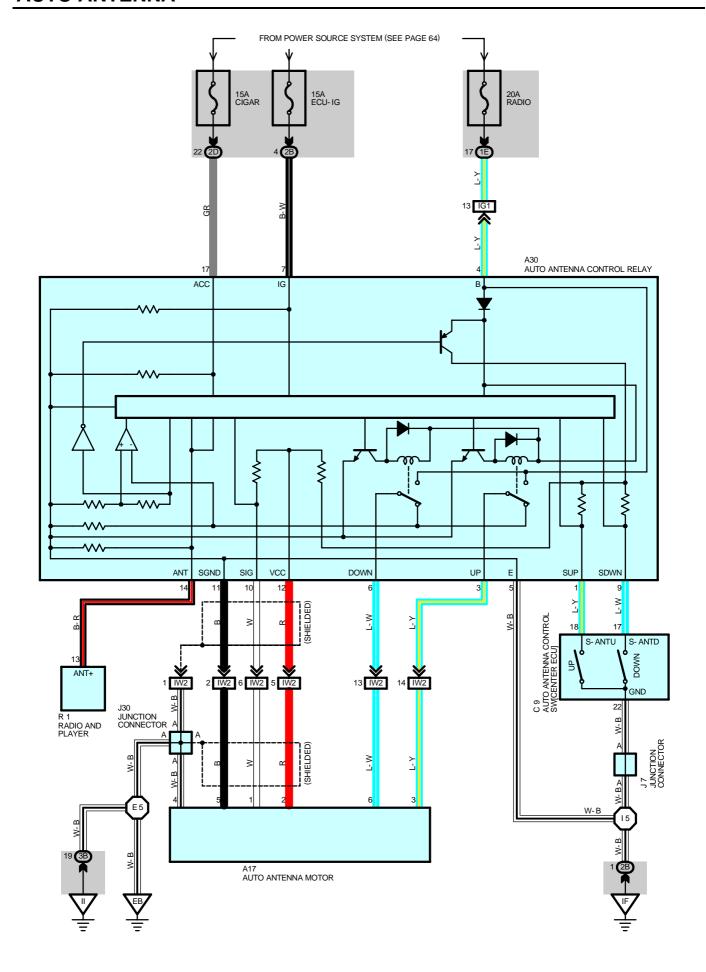
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)	
1C	00	Facing Doom No 2 Wire and Engine Doom I/D (Engine Comportment Left)	
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)	
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	50	least was at David lets and David Mine and David Mine (Dahind the Oleve David	
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)	
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)	

Code	See Page	Fround Points Location	
EC	46	tear 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	



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	Dook Wire and Coul Side I/D LLL /Left Kiels Danel)	
2D	Dash 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)		

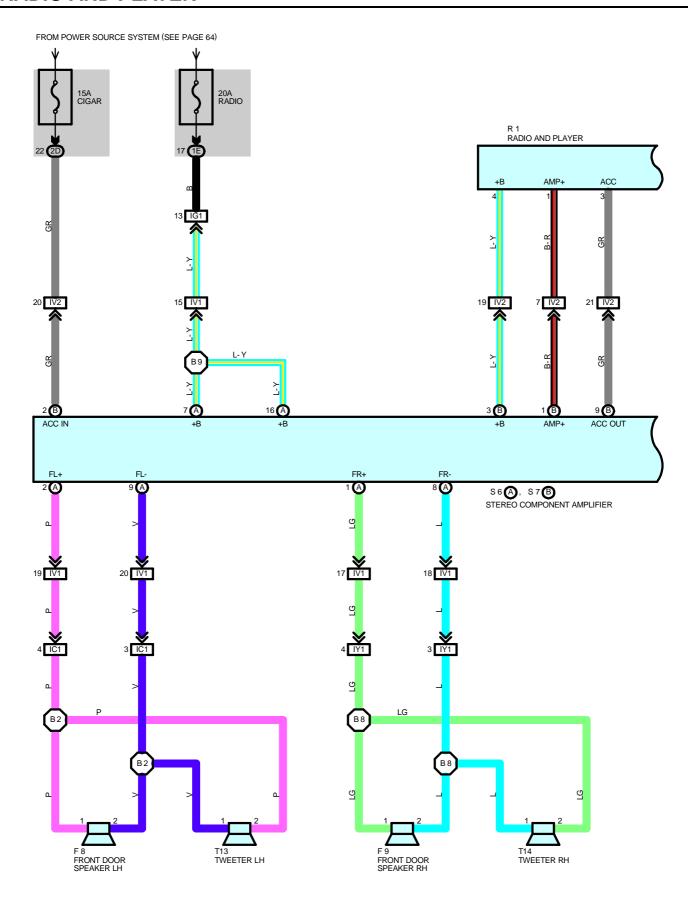
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

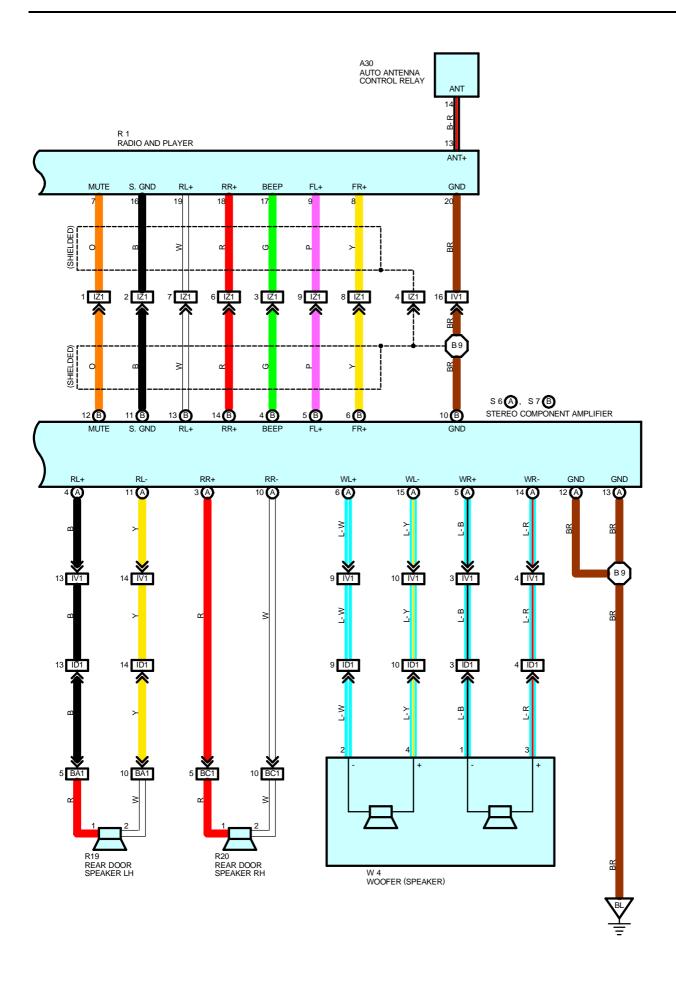
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IG1	50 Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)		
IW2	54 Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)		

7 : 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		

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E5	46	Engine Room No.2 Wire	15	50	Dash Wire





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	R ⁻	19	43	T13	43
F8	42	R	20	43	T14	43
F9	42	S6	Α	43	W4	43
R1	41	S7	В	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)	

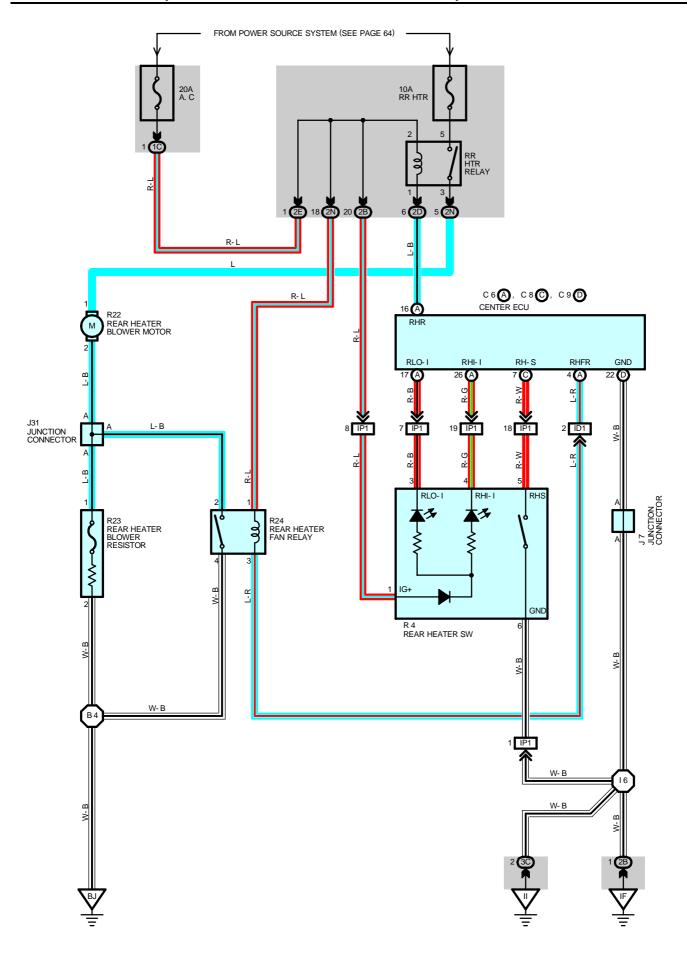
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

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	IV1 IV2 54	Dash Wire and Floor No.2 Wire (Behind the Glove Box)
IV2		Dasif wire and Floor No.2 wire (berilling the Glove Box)
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

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



- 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

Co	Code See Page		Code	See Page	Code	See Page
C6	Α	40	J7	41	R22	43
C8	С	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	ingine 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	20			
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)		

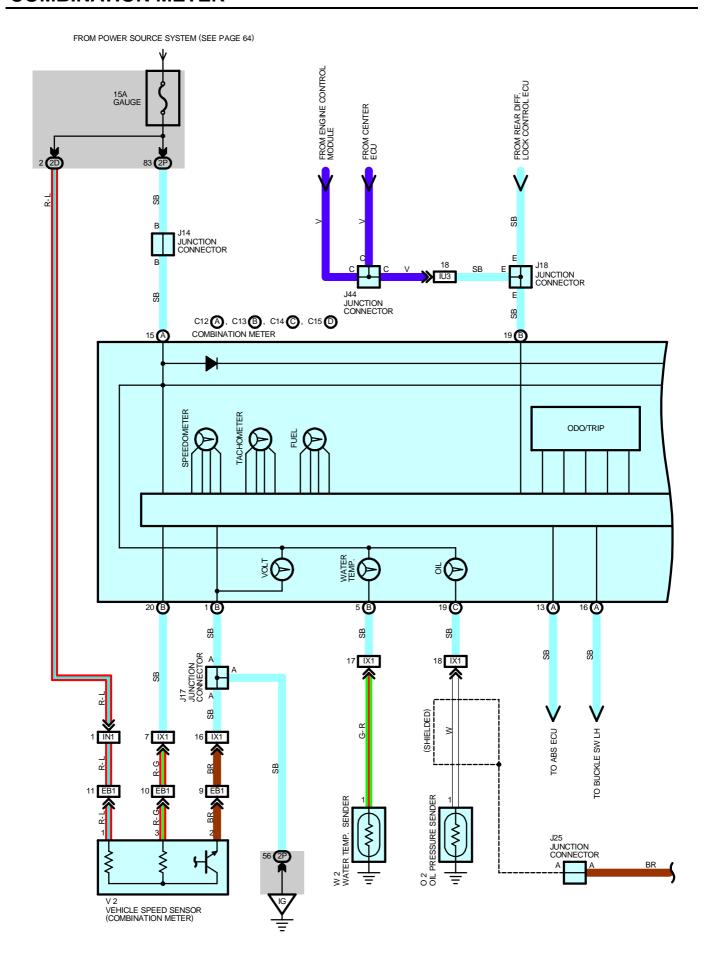
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

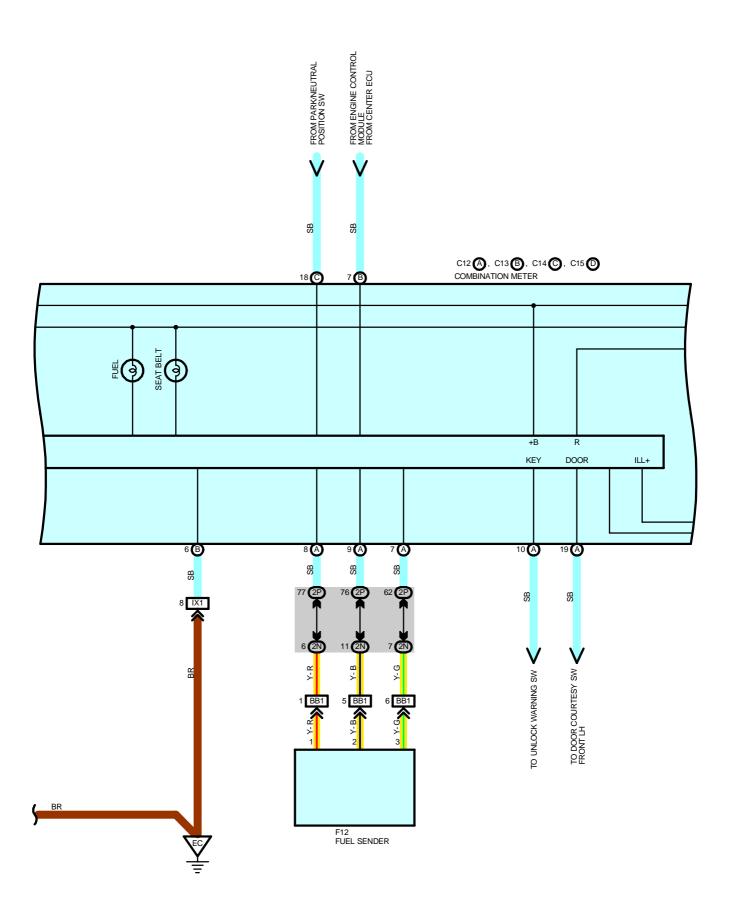
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
ID1	48	Dash Wire and Floor Wire (Left Kick Panel)	
IP1	52	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)	

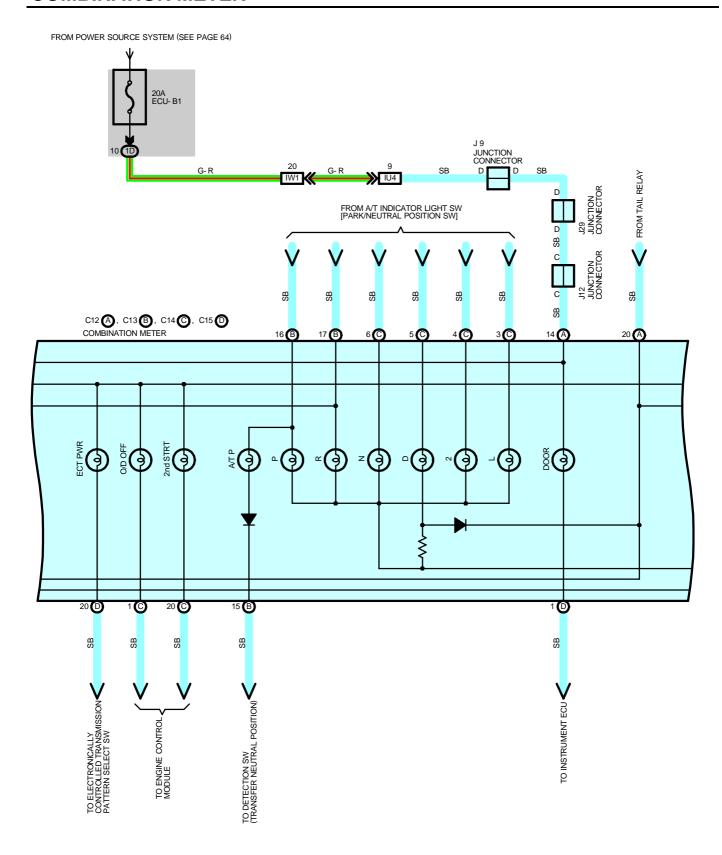
: GROUND POINTS

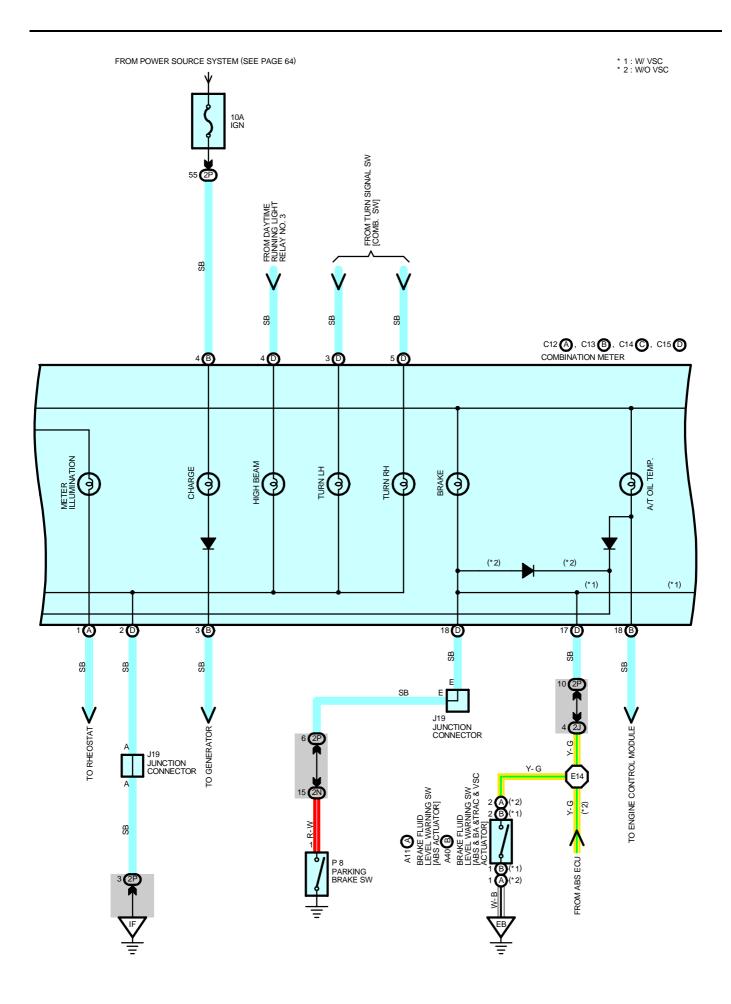
Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
II	48	Set Bolt of Cowl Side J/B RH
BJ	56	Under the Driver's Seat

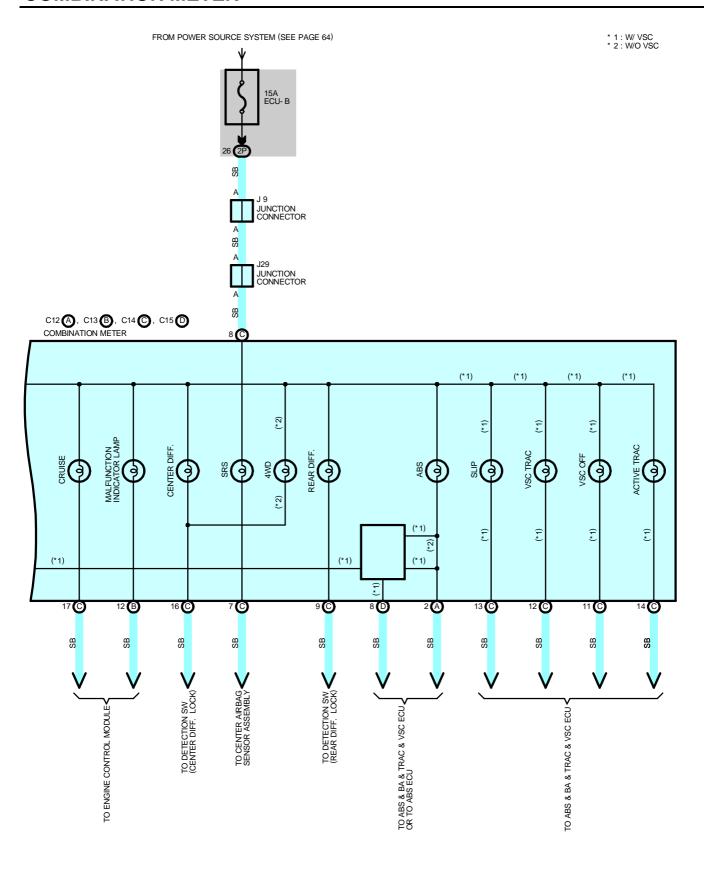
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
16	50	Dash Wire	B4	58	Floor Wire











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

Co	Code See Page Code See		See Page	Code	See Page	
A11	Α	38	J9	41	J29	41
A40	В	40	J12	41	J44	41
C12	Α	40	J14	41	O2	39
C13	В	40	J17	41	P8	43
C14	С	40	J18	41	V2	39
C15	D	40	J19	41	W2	39
F1	12	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)

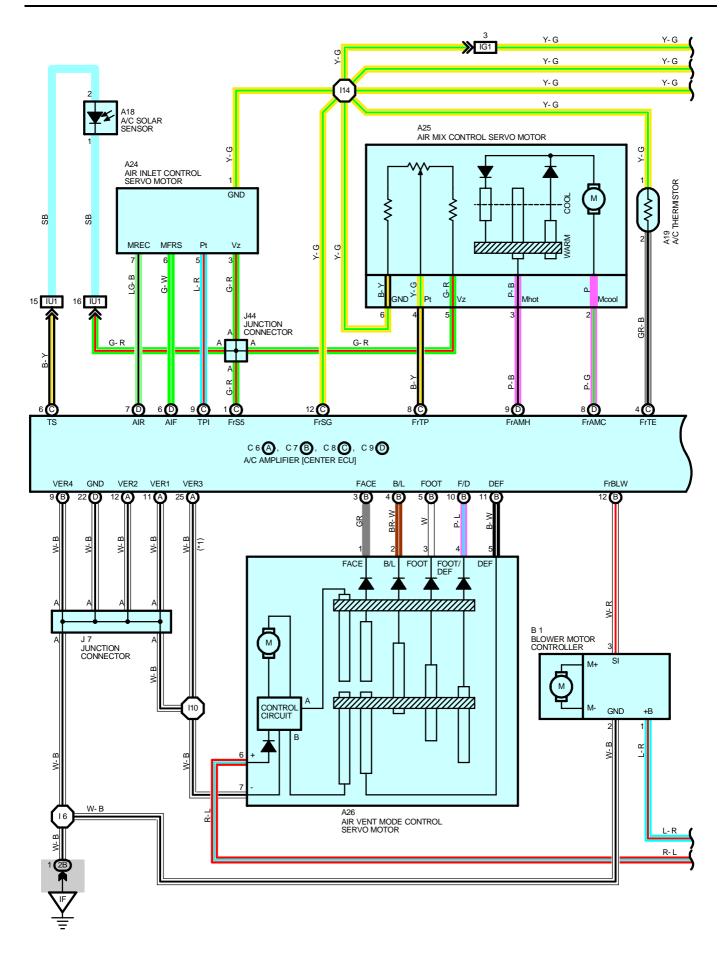
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

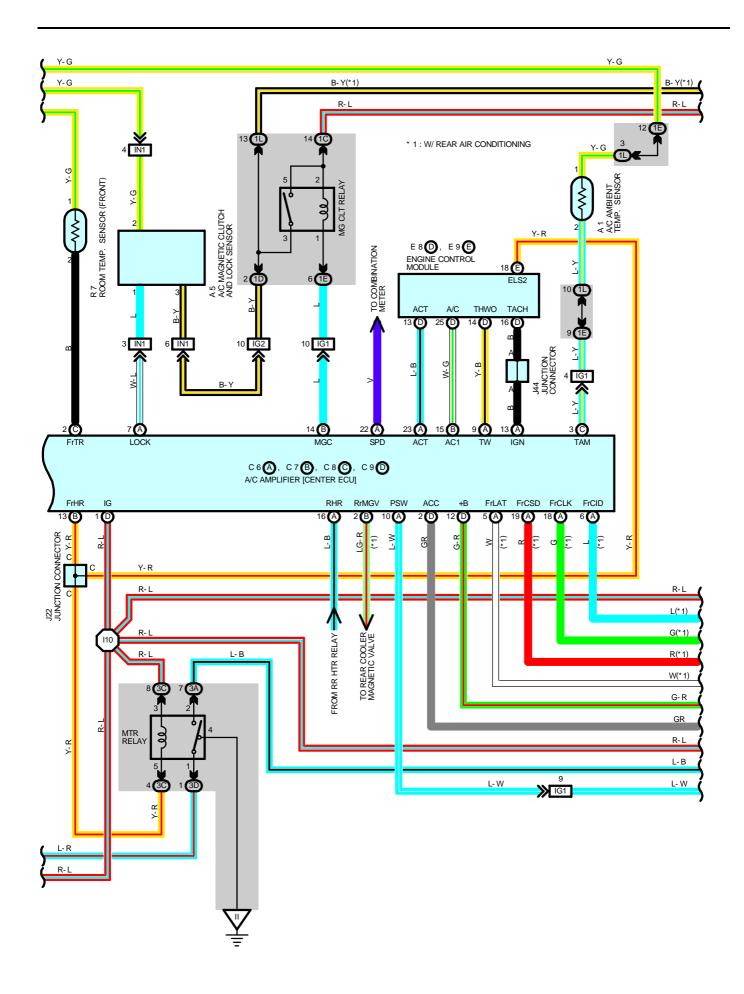
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
EB1	46	Engine Wire and Transmission Wire (On the Transmission)	
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)	
IU3	50	Instrument Denal Integration Wire and Deah Wire (Behind the Claus Box)	
IU4	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)	
IW1	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)	
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)	

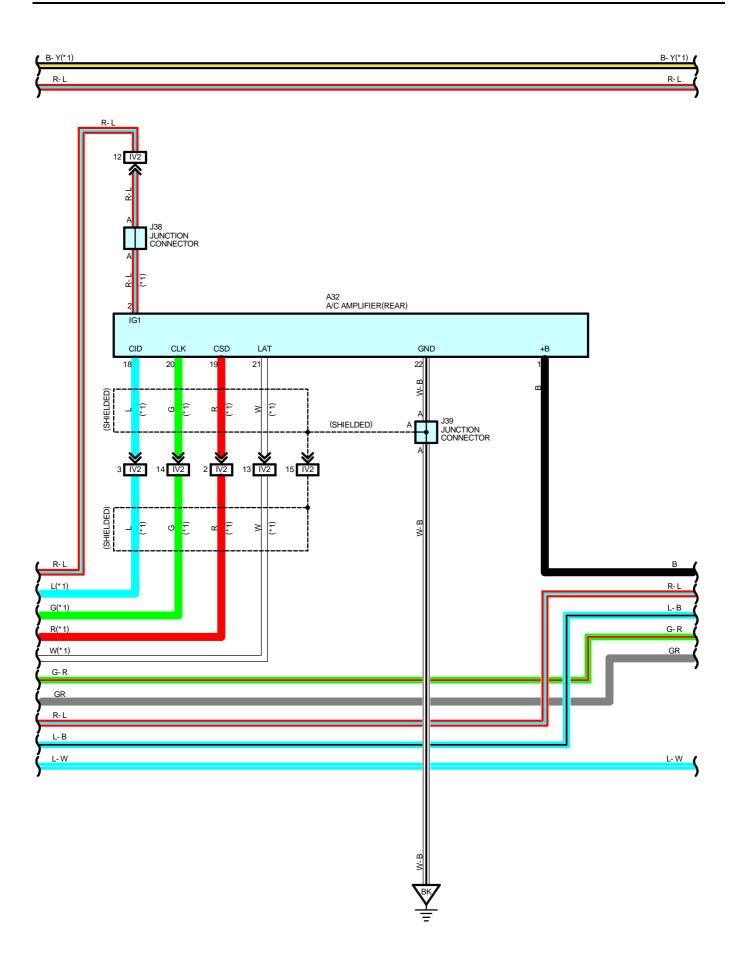
: GROUND POINTS

Code	See Page	Ground Points Location
EB	46	Front Right Side of Fender Apron
EC	46	Rear Bank of Right Cylinder Head
IF	40	Set Bolt of Cowl Side J/B LH
IG	48	Set Bolt of Cowi Side J/B LH

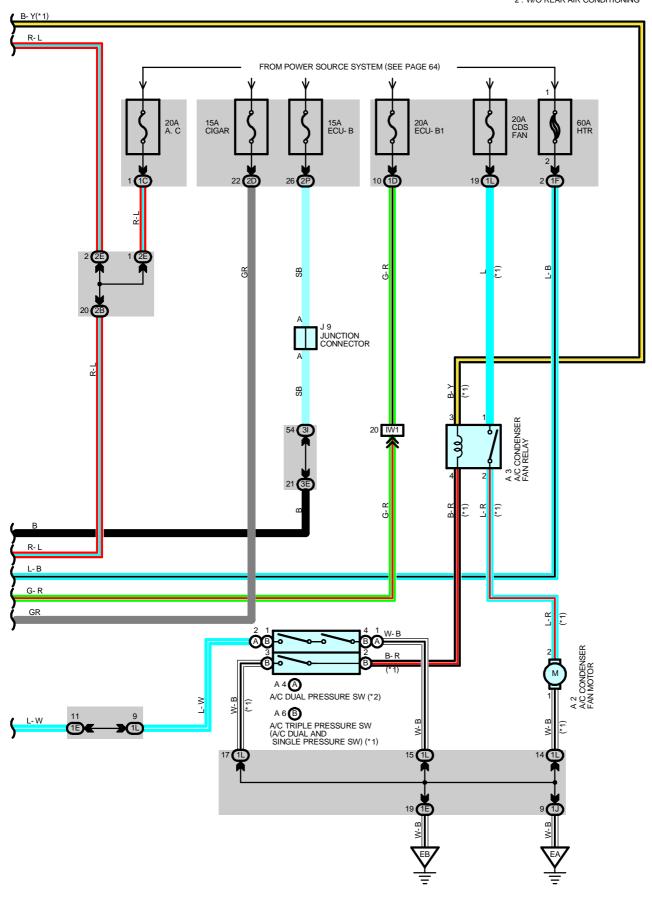
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E14	46	Engine Room No.2 Wire			







* 1 : W/ REAR AIR CONDITIONING * 2 : W/O REAR AIR CONDITIONING



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/cm² (**196.1** kpa, **28.4** psi) or more than approx. **32.0** kgf/cm² (**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/cm² (**196.1** kpa, **28.4** psi) or more than approx. **32.0** kgf/cm² (**3138.1** kpa, **455** psi)

(B) 2-(B) 3 : Open below approx. **12.5** kgf/cm² (**1225** kpa, **178** psi)

: Closed above approx. 15.5 kgf/cm² (1520 kpa, 220 psi)

: PARTS LOCATION

Co	de	See Page	Co	de	See Page	Co	de	See Page
Α	.1	38	A:	25	40	E9	Е	40
Α	.2	38	A	26	40	J	7	41
Α	.3	38	A:	32	42	J:	9	41
A4	Α	38	В	1	40	J2	2	41
Α	.5	38	C6	Α	40	J3	8	42
A6	В	38	C7	В	40	J3	9	42
A	18	40	C8	С	40	J4	4	41
A	19	40	C9	D	40	R	7	41
A	24	40	E8	D	40			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1C					
1D	00	Facine Deep No 2 Wise and Facine Deep 1/D /Facine Compositional Lafe)			
1E	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
1F					
1J	22	Facine Doom Main Wire and Engine Doom I/D (Engine Comportment Left)			
1L	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	20	Dash wile and Cowi Side 3/B LH (Left Nick Pariet)			
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	20	Dook Wire and Coul Cide I/D DLL (Dight Kiek Done)			
3D	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)			
31	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			

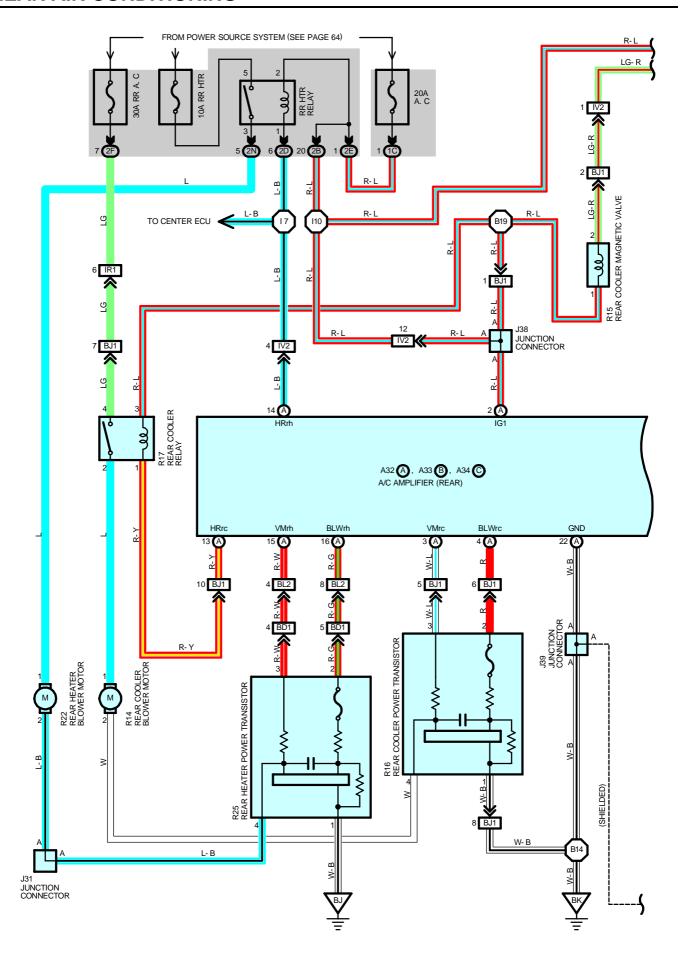
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

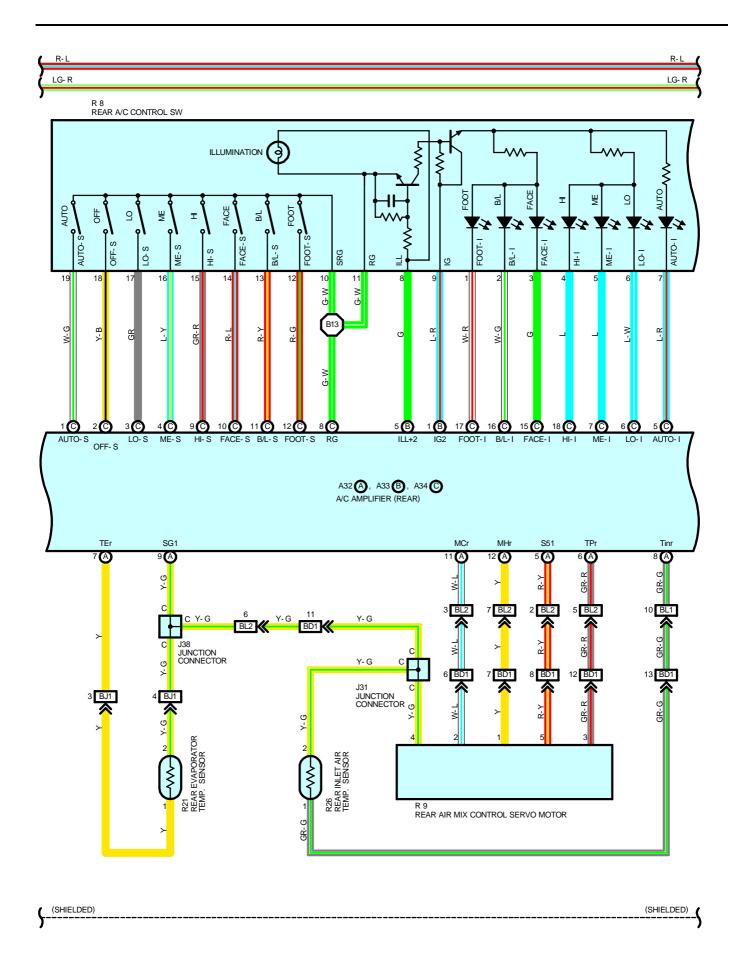
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG1	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG2	50	
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
IU1	52	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IV2	54	Dash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

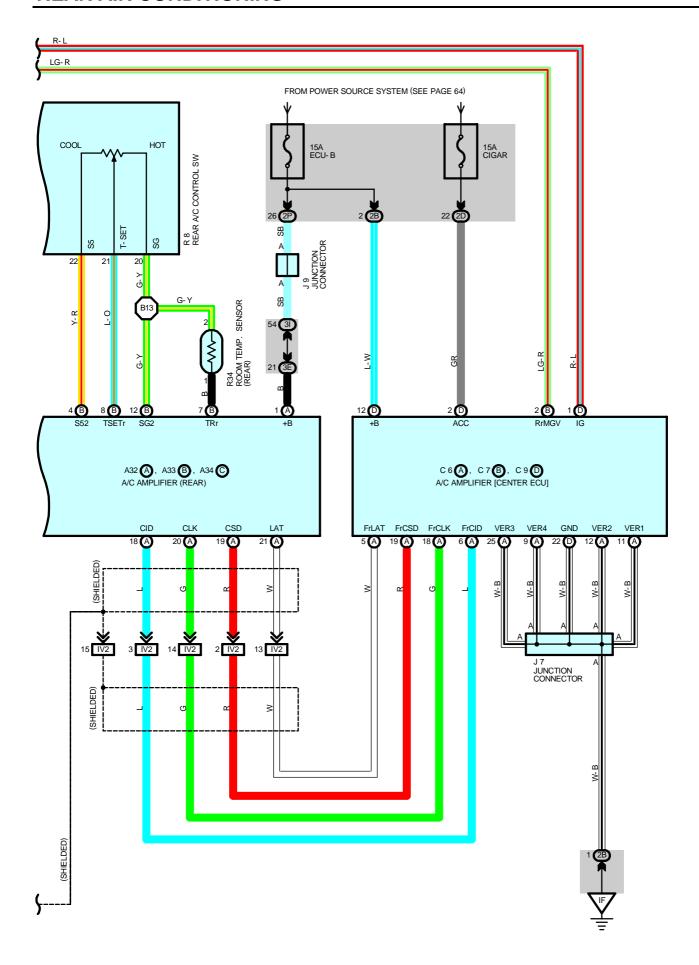
: GROUND POINTS

Code	See Page	Ground Points Location
EA	40	Front Dight Cide of Fonder Associ
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
BK	56	Front Side Under the Front Passenger's Seat

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
16	50	Dash Wire	l14	50	Dash Wire
I10	50				







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

Co	de	See Page	Code	See Page	Code	See Page
A32	Α	42	J31	42	R17	43
A33	В	42	J38	42	R21	43
A34	С	42	J39	42	R22	43
C6	Α	40	R8	43	R25	43
C7	В	40	R9	43	R26	43
C9	D	40	R14	43	R34	43
J	7	41	R15	43		
J	9	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	- 26				
2E	26	Fasing Boom No 2 Wire and Coul Side 1/D LLL /Left Kiek Done)			
2F	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)			
3E	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
31	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	5 0	Floor No 2 Wire and Floor No 2 Wire / Dight Side of Boar Floor Crossmanner
BL2	58	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)

REAR AIR CONDITIONING

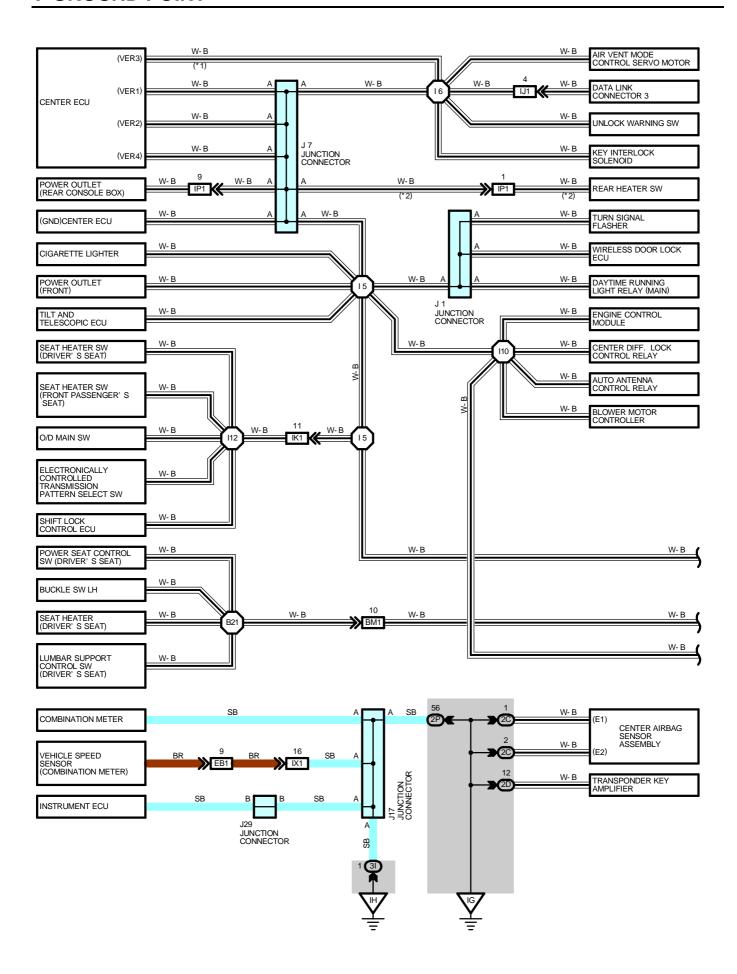


: GROUND POINTS

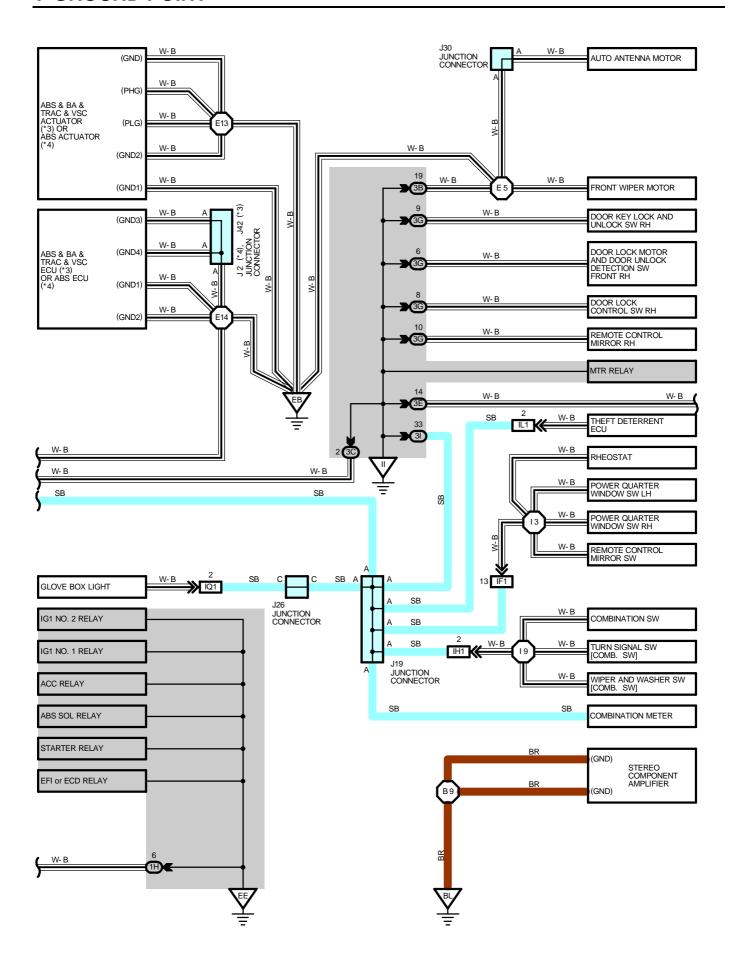
Code	See Page	Ground Points Location
IF	48	Set Bolt of Cowl Side J/B LH
BJ	56	Under the Driver's Seat
BK	56	Front Side Under the Front Passenger's Seat



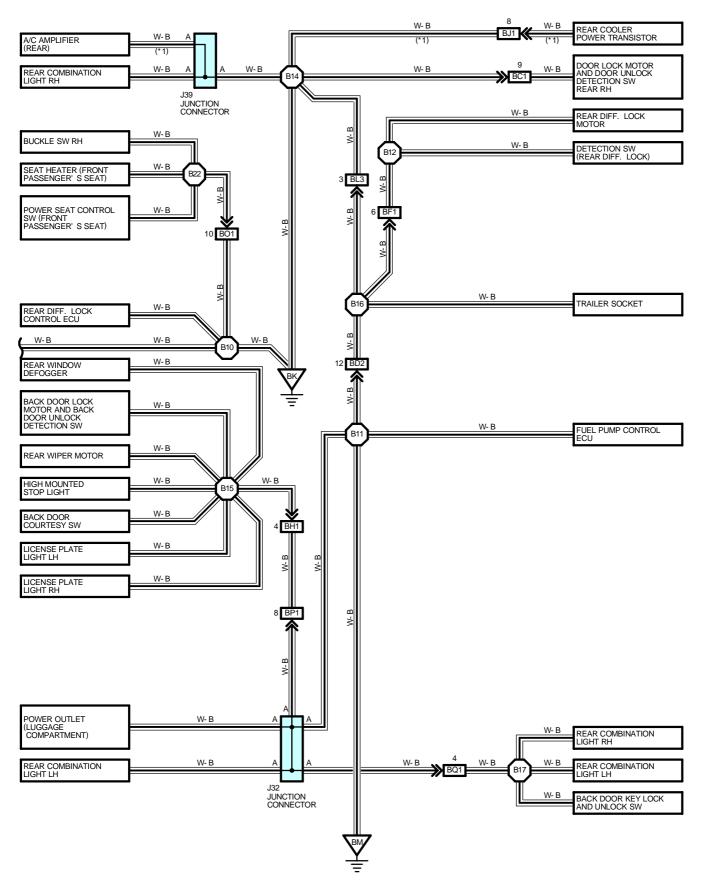
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
17	50	Dash Wire	B14	58	Floor No.2 Wire
I10	50		B19	58	A/C Sub Wire
B13	58	Roof No.2 Wire			

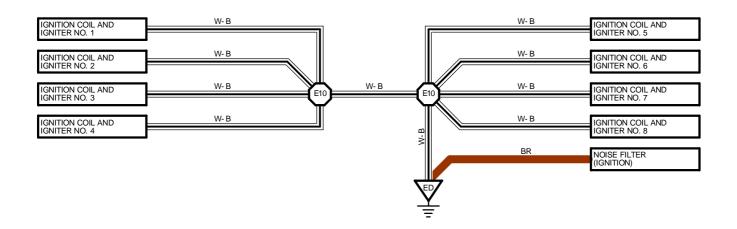


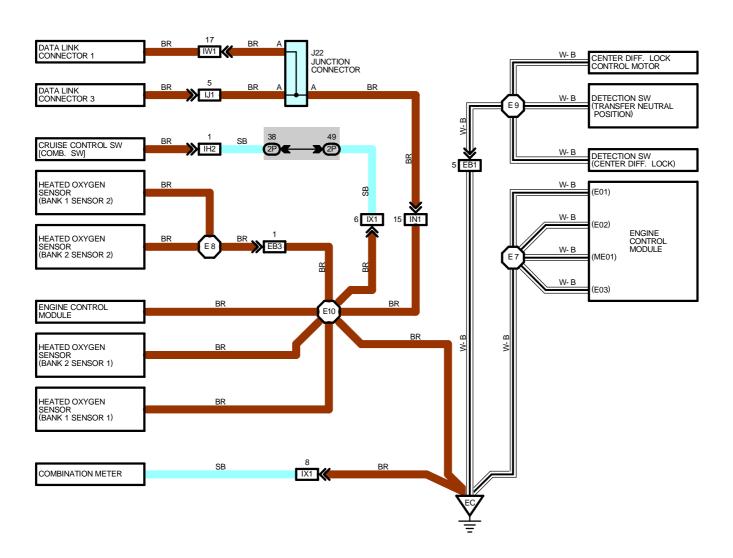
- * 1 : W/ REAR AIR CONDITIONING * 2 : W/O REAR AIR CONDITIONING
- 10 W-B W-B REMOTE CONTROL MIRROR LH 2M POWER WINDOW MASTER SW W-B 2L FRONT INTERIOR LIGHT AND REAR PERSONAL LIGHT W-B W-B WASHER MOTOR **1**J FRONT PERSONAL LIGHT W-B W-B A/C TRIPLE PRESSURE SW (A/C DUAL AND SINGLE PRESSURE SW) (* 1) W-B W-B W-B VANITY LIGHT RH В7 2E 10 (* 1) A/C DUAL PRESSURE SW VANITY LIGHT LH (* 2) W-B MOON ROOF CONTROL W-B W-B A/C CONDENSER FAN MOTOR (* 1) MOON ROOF CONTROL SW W-B W-B W-B HEADLIGHT LH (LOW) В7 2A) **(1J)** FRONT FOG LIGHT LH POWER RELAY D/L (DU) RELAY W-B PARKING LIGHT AND SIDE MARKER LIGHT LH 1G D/L (U) RELAY W-B FRONT TURN SIGNAL LIGHT LH 1G **1**)(E D/L (L) RELAY W-B W-B DOOR KEY LOCK AND UNLOCK SW LH W-B SB SB DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW FRONT LH **2P** W- E W-B В1 2M) W-B ENGINE HOOD COURTESY SW W-B 2B) (* FRONT FOG LIGHT RH W-B FRONT TURN SIGNAL LIGHT RH W-B PARKING LIGHT AND SIDE MARKER LIGHT RH W-B E 2 W-B HEADLIGHT RH (LOW) %-B W-B W-B W-B E 2 DAYTIME RUNNING LIGHT RELAY NO. 3 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR LH BA1 W-B REAR HEATER POWER TRANSISTOR W-B W-B В4 W-B W-B W-B W-B REAR HEATER BLOWER RESISTOR



- * 1 : W/ REAR AIR CONDITIONING * 3 : W/ VSC * 4 : W/O VSC







: 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	22	Engine Boom No 2 Wire and Engine Boom I/P (Engine Compartment Left)
1E	23	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1G		Facine Deem Main Wire and Engine Deem I/D (Facine Comportment Left)
1H	23	
1J	23	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1L		
2A	26	Roof Wire and Cowl Side J/B LH (Left Kick Panel)
2B		
2C	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	20	Tront boot Err wire and down dide of b Err (Echt Nick Failer)
20	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)
31	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	Facility Million and Transportation Million (On the Transportation)
EB3		Engine Wire and Transmission Wire (On the Transmission)
IF1	48	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IH1	50	Laterana Development and Orlean Mercal Orlea
IH2	50	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
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

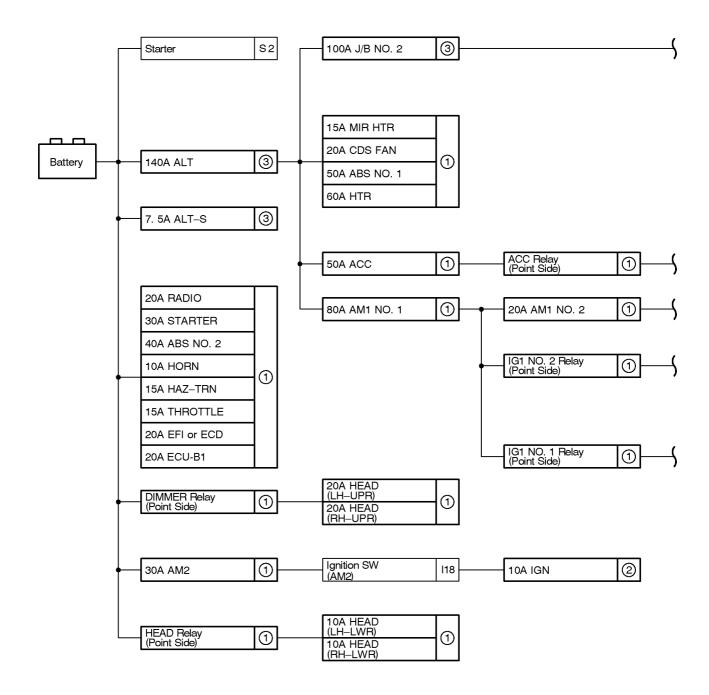
Code	See Page	Ground Points Location
EA	40	Front Right Side of Fender Apron
EB	46	
EC	46	Rear Bank of Right Cylinder Head
ED	46	Rear Bank of Left Cylinder Head
EE	46	Front Left Side of Fender Apron
IF	48	Set Bolt of Cowl Side J/B LH
IG	46	Set Bolt of Cowl Side 3/B LH
IH	40	Cat Dalt of Caud Cida I/D DI I
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
BL	56	Rear Side Under the Front Passenger's Seat
BM	56	Left Rear Side Quarter Panel



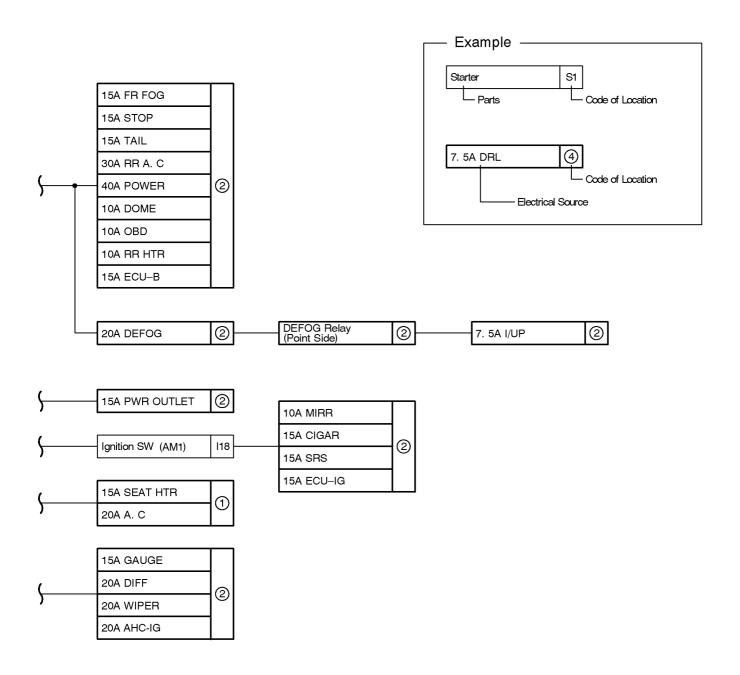
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	46	Engine Room Main Wire	B1	58	Front Door LH Wire
E5	46	Engine Room No.2 Wire	B4	58	Floor Wire
E7	46	Engine Wire	B7	58	Roof Wire
E8	46	Transmission Wire	B9	- 58	Floor No.2 Wire
E9	46		B10	36	FIGOR NO.2 WIFE
E10	46	Engine Wire	B11	58	Floor Wire
E13		Engine Room No.2 Wire	B12	58	Frame Wire
E14	46		B14	58	Floor No.2 Wire
13	50	Instrument Panel Wire	B15	58	Back Door Upper Wire
15	50	Dook Mino	B16	58	Floor No.3 Wire
16	50	Dash Wire	B17	58	Back Door Lower Wire
19	50	Column Wire	B21	60	Front Seat LH Wire
I10	50	Dash Wire	B22	60	Front Seat RH Wire
l12	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)

J POWER SOURCE (Current Flow Chart)

Engine Room J/B (See Page 22)

	Fuse	System	Page
		Automatic Light Control	118
		Combination Meter	242
		Condenser Fan and Front Air Conditioning	248
		Door Lock Control	194
		Interior Light	106
20A	ECU-B1	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
10/1	TIEAD (LITEVIL)	Headlight	86
10A	HEAD (RH-LWR)	Headlight	86
10A	HORN	Horn	140
10/1	HOKK	Theft Deterrent	210
15A	HAZ-TRN	Theft Deterrent	210
10/1	11/1/2 11(1)	Turn Signal and Hazard Warning Light	94
15A	MIR HTR	Rear Window Defogger and Mirror Heater	230
15A	SEAT HTR	Seat Heater	228
		Cruise Control	150
15A	THROTTLE	Electronically Controlled Transmission and A/T Indicator	142
		Engine Control and Engine Immobiliser System	76
		Condenser Fan and Front Air Conditioning	248
20A	A.C	Key Reminder and Seat Belt Warning	232
20/1	Α.Ο	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
		Cruise Control	150
20A	EFI or ECD	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
204	KADIO	Radio and Player	236
		Electronically Controlled Transmission and A/T Indicator	142
30A	AM2	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	ARC NO 2	ABS	164
	ABS NO.2	VSC	156
50A	ABS NO.1	ABS	164
SUA	ADS NO.1	VSC	156
60A	HTR	Condenser Fan and Front Air Conditioning	248
80A	AM1 NO.1	Rear Window Defogger and Mirror Heater	230
	AWIT NO.1	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
		ABS	164
		Charging	74
		Combination Meter	242
10A	IGN	Cruise Control	150
IUA	IGN	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
IUA	OBD	Engine Control and Engine Immobiliser System	76
10A	RR HTR	Rear Air Conditioning	254
IUA	KKHIK	Rear Heater (w/o Rear Air Conditioning)	240
		Auto Antenna	234
		Cigarette Lighter	136
		Clock	134
15A	CIGAR	Condenser Fan and Front Air Conditioning	248
		Radio and Player	236
		Rear Air Conditioning	254
		Shift Lock	174
		Clock	134
		Combination Meter	242
	ECU-B	Condenser Fan and Front Air Conditioning	248
15A		Headlight	86
ISA	ЕСО-В	Power Tilt and Power Telescopic	220
		Rear Air Conditioning	254
		SRS	169
		Theft Deterrent	210
		ABS	164
15A	ECILIC	Auto Antenna	234
IDA	ECU-IG	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
		Interior Light	106
		Light Auto Turn Off	122
		Moon Roof	190
		Power Tilt and Power Telescopic	220
15A	ECU-IG	Power Window	184
		Shift Lock	174
		Theft Deterrent	210
		VSC	156
		Wireless Door Lock Control	200
15A	FR FOG	Front Fog Light	92
		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
15A	GAUGE	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
		ABS	164
		Cruise Control	150
		Electronically Controlled Transmission and A/T Indicator	142
15A	STOP	Engine Control and Engine Immobiliser System	76
		Shift Lock	174
		Stop Light	114
		VSC	156
		Automatic Light Control	118
		Illumination	102
15A	TAIL	Light Auto Turn Off	122
		Taillight Theft Deterrent	98 210
		Wireless Door Lock Control	210
20A	AHC-IG	VSC	156
20A	DEFOG	Rear Window Defogger and Mirror Heater	230
ZUA	DLI OG	Center Differential Lock	
20A	DIFF	Rear Differential Lock	176 180
The		Rear Dillerential Lock	100

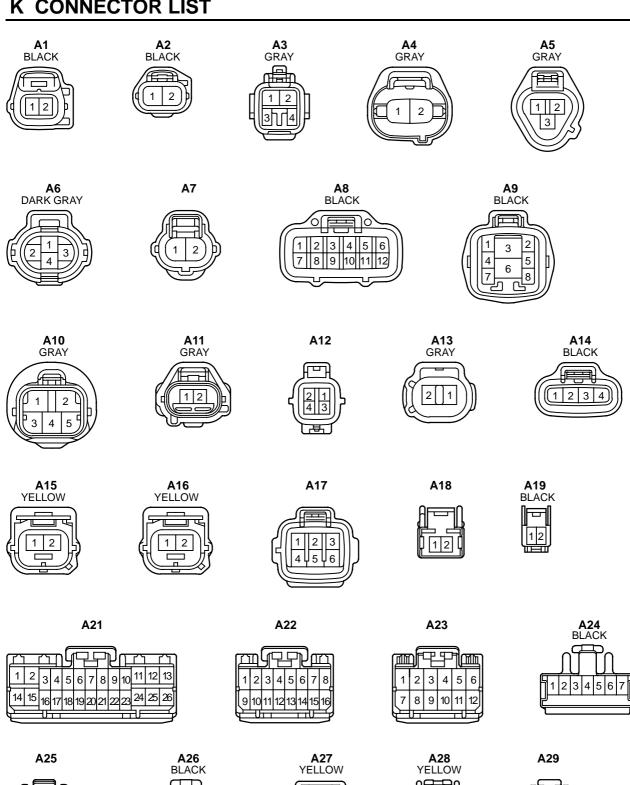
^{*} These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
20.4	WIPER	Front Wiper and Washer	126
20A	VVIPER	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
	Automatic Light Control Charging Light Auto Turn Off Turn Signal and Hazard Warning Light	Automatic Light Control	118
140A		Charging	74
140A		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.

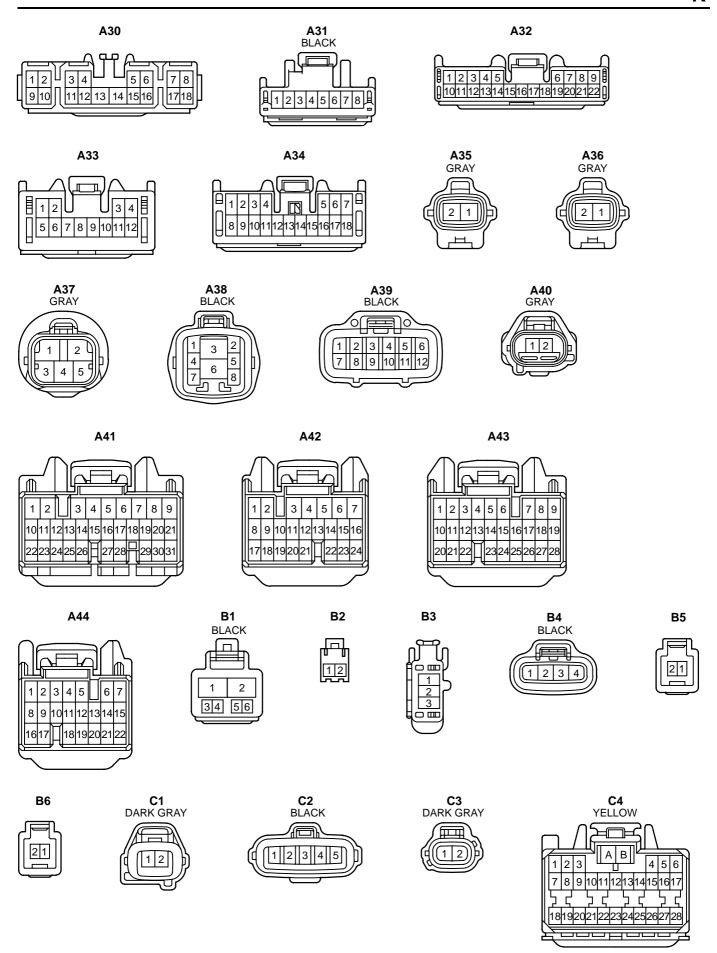


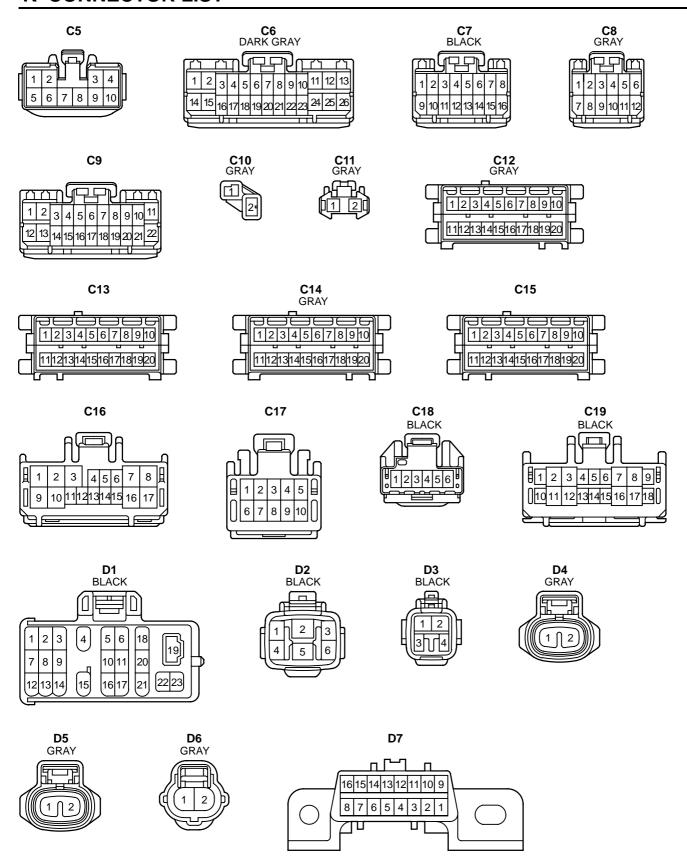
1 2

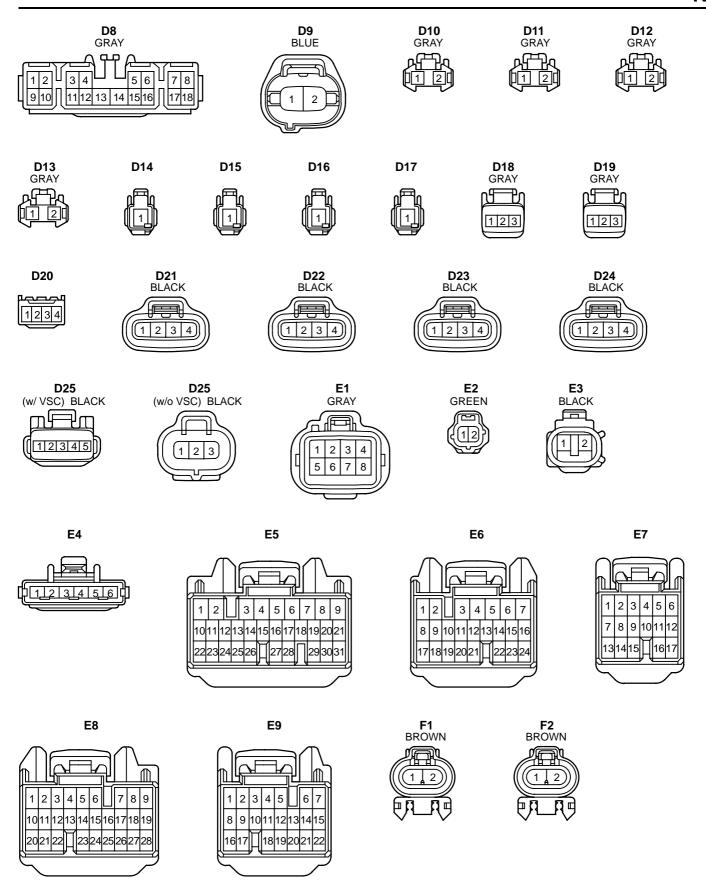
440,0

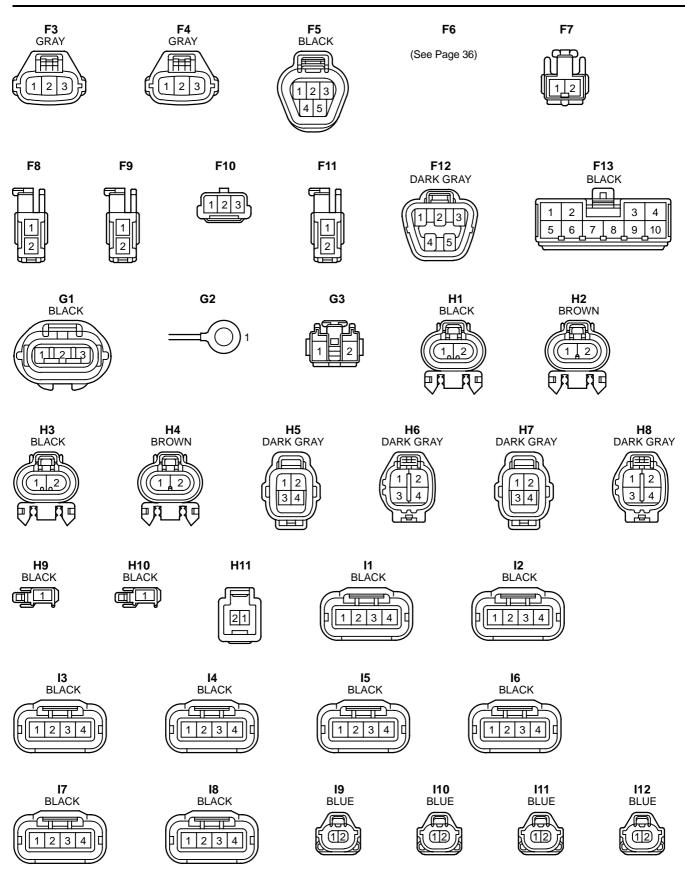
1 2 3 4 5 6 7

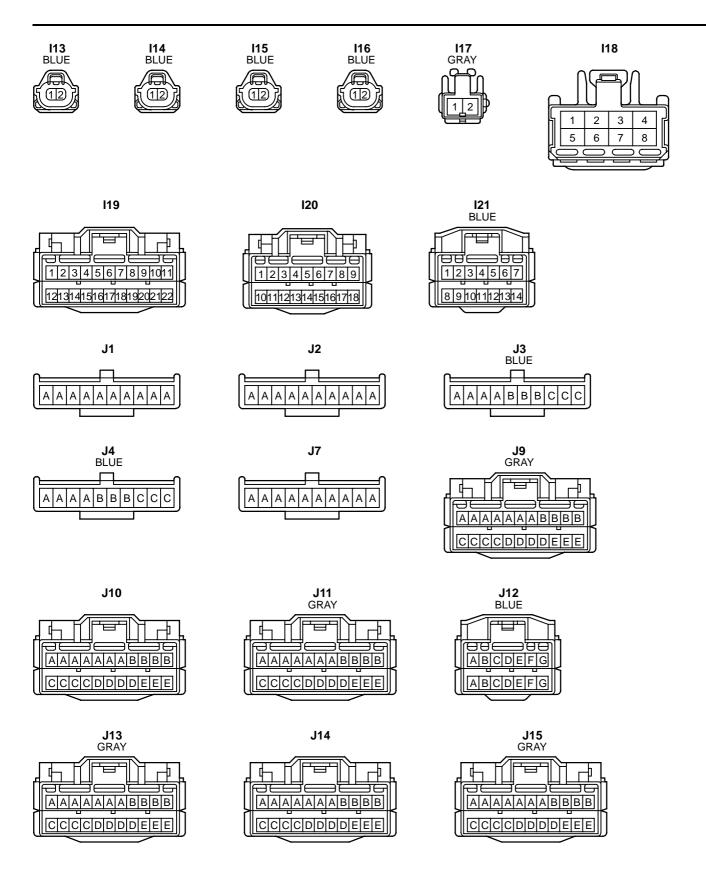
3

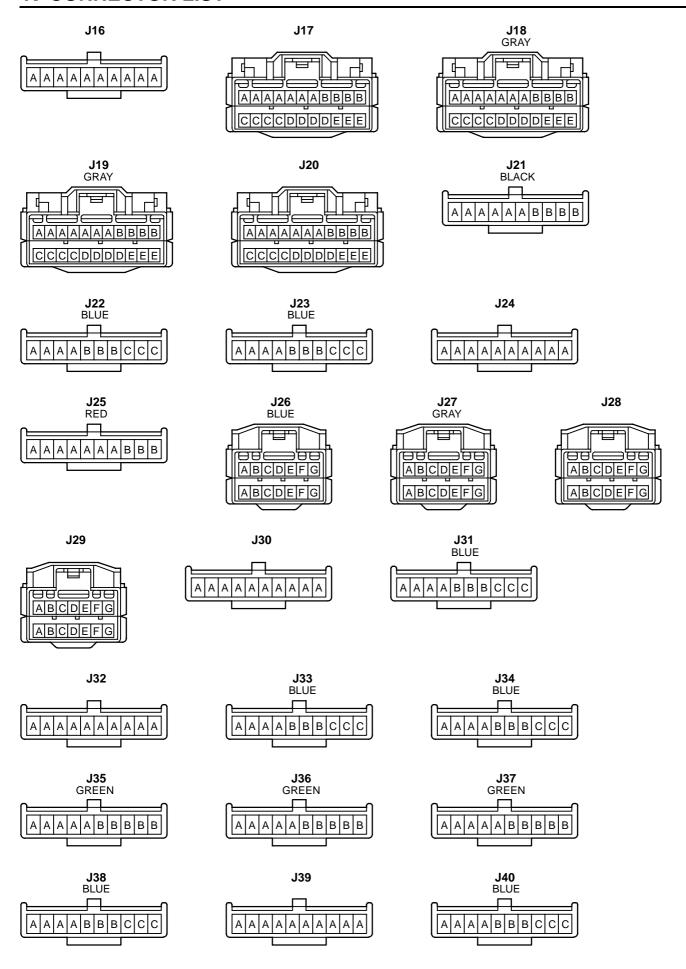


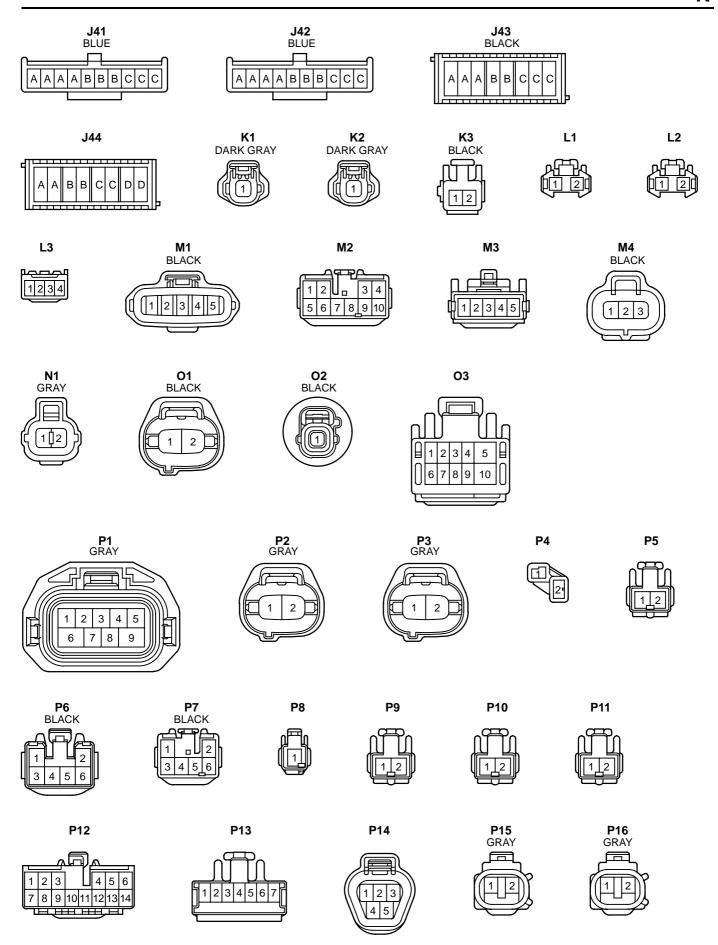


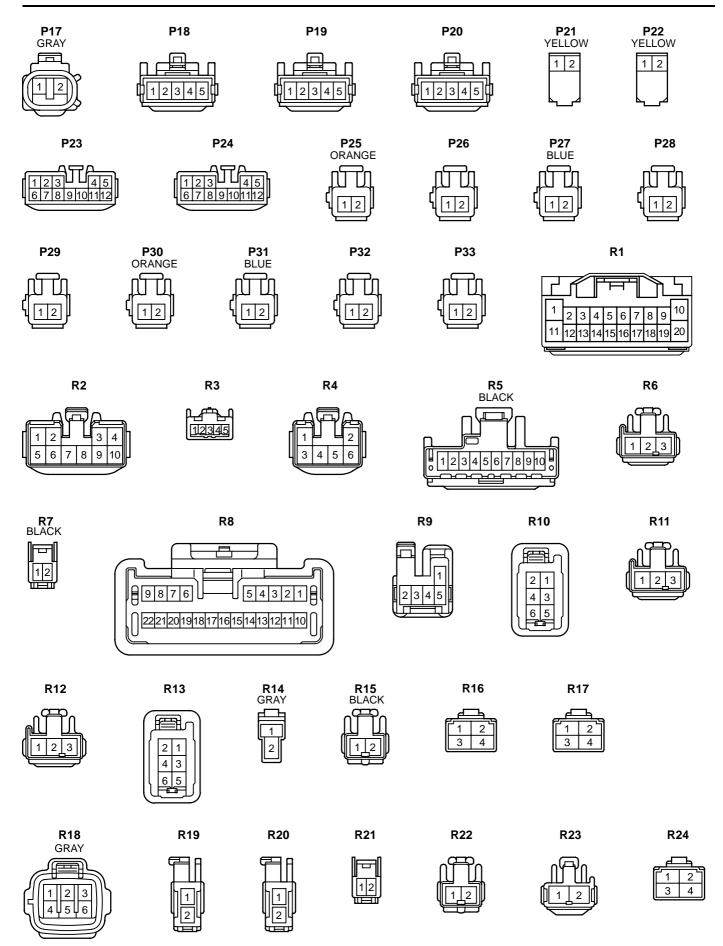


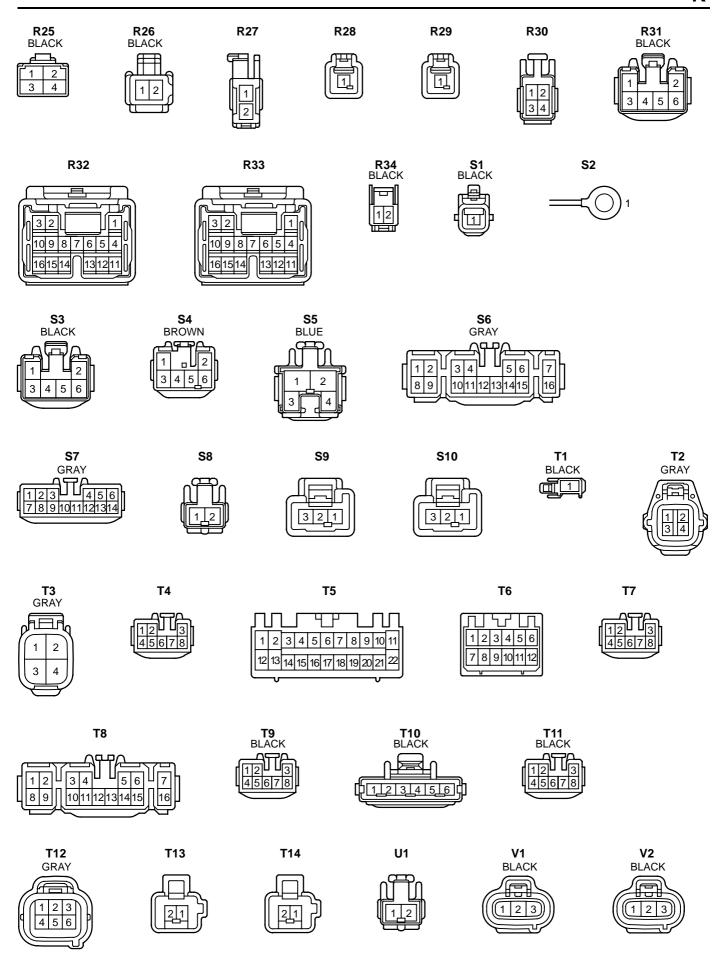


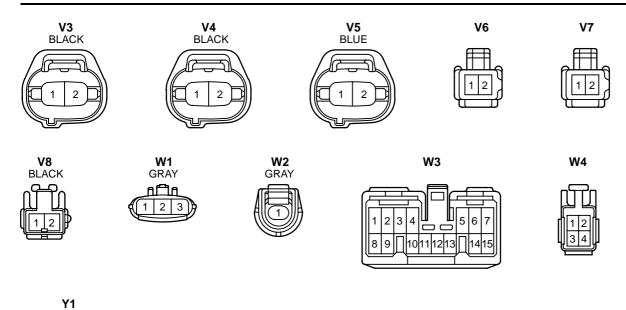












L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980-11070	B 1	Blower Motor Controller	90980-10910
A 2	A/C Condenser Fan Motor	90980-11237	B 2	Back Door Courtesy SW	90980-10039
A 3	A/C Condenser Fan Relay	90980-10940	В3	Back Door Key Lock and Unlock SW	90980-11490
A 4	A/C Dual Pressure SW	90980-11149	B 4	Back Door Lock Motor and Back Door	90980-11150
A 5	A/C Magnetic Clutch and Lock Sensor	90980-11016		Unlock Detection SW	00000 11100
A 6	A/C Triple Pressure SW (A/C Dual and	90980-10943	B 5	Buckle SW LH	90980-11211
	Single Pressure SW)		B 6	Buckle SW RH	22222 12217
A 7	A/T Oil Temp. Sensor	90980-11025	C 1	Camshaft Position Sensor	90980-10947
A 8	ABS Actuator	90980-11151	C 2	Center Diff. Lock Control Motor	90980-11024
A 9	ABS Actuator	90980-10895	C 3	Crankshaft Position Sensor	90980-11162
A10	ABS Actuator	90980-11413	C 4	Center Airbag Sensor Assembly	90980-11872
A11	ABS Actuator	90980-11009	C 5	Center Diff. Lock Control Relay	90980-10801
A12	ABS Speed Sensor Front LH	90980-10941	C 6	Center ECU	90980-11390
A13	ABS Speed Sensor Front RH	90980-11002	C 7	Center ECU	90980-11391
A14	Accel Position Sensor	90980-11150	C 8	Center ECU	90980-11408
A15	Airbag Sensor Front LH	90980-11856	C 9	Center ECU	90980-11392
A16	Airbag Sensor Front RH	00000 11000	C10	Cigarette Lighter	90980-10760
A17	Auto Antenna Motor	90980-11194	C11	Cigarette Lighter Illumination	90980-11148
A18	A/C Solar Sensor	90980-11919	C12	Combination Meter	82824-60060
A19	A/C Thermistor	90980-11918	C13	Combination Meter	82824-60050
A21	ABS ECU	90980-11390	C14	Combination Meter	82824-60060
A22	ABS ECU	90980-11391	C15	Combination Meter	82824-60050
A23	ABS ECU	90980-11424	C16	Combination SW	90980-11672
A24	Air Inlet Control Servo Motor	90980-11165	C17	Combination SW	90980-11581
A25	Air Mix Control Servo Motor	90980-10797	C18	Combination SW	90980-11616
A26	Air Vent Mode Control Servo Motor	90980-11165	C19	Combination SW	90980-11594
A27	Airbag Squib (Front Passenger Airbag Assembly)	90980-11884	D 1	Data Link Connector 1	90980-11195
A 0.0	Airbag Squib (Steering Wheel Pad)	00000 10050	D 2	Daytime Running Light Relay No.3	90980-10939
A28	0 1 (0 ,	90980-10850	D 3	Daytime Running Light Relay No.3	90980-10940
A29	Ashtray Illumination	90980-10825	D 4	Detection SW (Center Diff. Lock)	90980-11250
A30	Auto Antenna Control Relay	90980-10819	D 5	Detection SW (Transfer L Position)	90980-11230
A31	Automatic Light Control Sensor	90980-11633	D 6	Detection SW (Transfer Neutral Position)	90980-11025
A32	A/C Amplifier (Rear)	90980-11502	D 7	Data Link Connector 3	90080-98012
A33	A/C Amplifier (Rear)	90980-11475	D 8	Daytime Running Light Relay (Main)	90980-10819
A34	A/C Amplifier (Rear)	90980-11497	D 9	Detection SW (Rear Diff. Lock)	90980-11156
A35	ABS Speed Sensor Rear LH	90980-11073	D10	Door Courtesy Light Front LH	
A36	ABS Speed Sensor Rear RH		D11	Door Courtesy Light Front RH	00000 44440
A37	ABS & BA & TRAC & VSC Actuator	90980-11413	D12	Door Courtesy Light Rear LH	90980-11148
A38	ABS & BA & TRAC & VSC Actuator	90980-10895	D13	Door Courtesy Light Rear RH	7
A39	ABS & BA & TRAC & VSC Actuator	90980-11151	D14	Door Courtesy SW Front LH	
A40	ABS & BA & TRAC & VSC Actuator	90980-11009	D15	Door Courtesy SW Front RH	00000 40074
A41	ABS & BA & TRAC & VSC ECU	90980-11935	D16	Door Courtesy SW Rear LH	90980-10871
A42	ABS & BA & TRAC & VSC ECU	90980-11476	D17	Door Courtesy SW Rear RH	1
A43	ABS & BA & TRAC & VSC ECU	90980-11637		1	_1
A44	ABS & BA & TRAC & VSC ECU	90980-11638			

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	Code	Part Name	Part Number
D18	Door Key Lock and Unlock SW LH	00000 44470	H 8	Heated Oxygen Sensor (Bank 2 Sensor 2)	90980-11028
D19	Door Key Lock and Unlock SW RH	90980-11170	H 9	Horn LH	00000 40040
D20	Door Lock Control SW RH	90980-10601	H10	Horn RH	90980-10619
D21	Door Lock Motor and Door Unlock		H11	High Mounted Stop Light	90980-11211
	Detection SW Front LH		I 1	Ignition Coil and Igniter No.1	
D22	Door Lock Motor and Door Unlock Detection SW Front RH		12	Ignition Coil and Igniter No.2	
D23	Door Lock Motor and Door Unlock	90980-11150	13	Ignition Coil and Igniter No.3	
D23	Detection SW Rear LH		14	Ignition Coil and Igniter No.4	90980-11885
D24	Door Lock Motor and Door Unlock Detection SW Rear RH		15	Ignition Coil and Igniter No.5	
	Deceleration Sensor (w/ VSC)	90980-11182	16	Ignition Coil and Igniter No.6	
D25	Deceleration Sensor (w/o VSC)	90980-10845	17	Ignition Coil and Igniter No.7	
	Electronically Controlled Transmission	30300 10043	18	Ignition Coil and Igniter No.8	
E 1	Solenoid	90980-10891	19	Injector No.1	
E 2	Engine Coolant Temp. Sensor	90980-10737	l10	Injector No.2	
E 3	Engine Hood Courtesy SW	90980-11003	I11	Injector No.3	_
E 4	Electronically Controlled Transmission	90980-10933	l12	Injector No.4	90980-11153
	Pattern Select SW		I13	Injector No.5	
E 5	Engine Control Module	90980-11421	I14	Injector No.6	
E 6	Engine Control Module	90980-11476	l15	Injector No.7	
E 7	Engine Control Module	90980-11586	l16	Injector No.8	
E 8	Engine Control Module	90980-11637	l17	Ignition Key Cylinder Light	90980-10906
E 9	Engine Control Module	90980-11638	l18	Ignition SW	90980-11615
F 1	Front Fog Light LH	90980-11660	l19	Instrument ECU	90980-11927
F 2	Front Fog Light RH		120	Instrument ECU	90980-11914
F3	Front Turn Signal and Side Marker Light LH	90980-11020	I21	Instrument ECU	90980-11925
F 4	Front Turn Signal and Side Marker Light RH		J 1	Junction Connector	
F 5	Front Wiper Motor	90980-11599	J 2	Junction Connector	
F6	Fusible Link Block	82620-60010	J 3	Junction Connector	_
F 7	Fuel Control SW	90980-10860	J 4	Junction Connector	
F 8	Front Door Speaker LH	90980-10935	J 7	Junction Connector	
F 9	Front Door Speaker RH	00000 10000	J 9	Junction Connector	
F10	Front Interior Light and Rear Personal Light	90980-10365	J10	Junction Connector	90980-11927
F11	Front Personal Light	90980-10935	J11	Junction Connector	
F12	Fuel Pump and Sender	90980-11077	J12	Junction Connector	90980-11925
F13	Fuel Pump Control ECU	90980-10862	J13	Junction Connector	
G 1	Generator	90980-11349	J14	Junction Connector	90980-11927
G 2	Generator	90980-09212	J15	Junction Connector	
G 3	Glove Box Light	90980-11098	J16	Junction Connector	-
H 1	Headlight LH (High)	90980-11659	J17	Junction Connector	
H 2	Headlight LH (Low)	90980-11660	J18	Junction Connector	90980-11927
H 3	Headlight RH (High)	90980-11659	J19	Junction Connector	33300-11921
H 4	Headlight RH (Low)	90980-11660	J20	Junction Connector	
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			

L PART NUMBER OF CONNECTORS

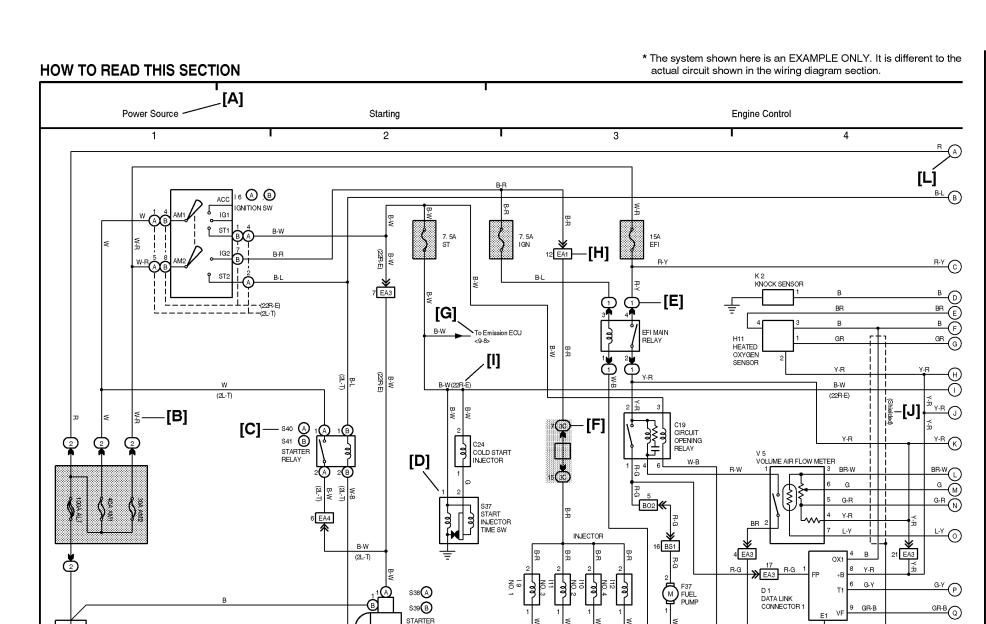
Code	Part Name	Part Number	Code	Part Name	Part Number
J21	Junction Connector		P 9	Power Outlet (Luggage Compartment)	
J22	Junction Connector		P10	Power Vent Window Motor LH	90980-10860
J23	Junction Connector	-	P11	Power Vent Window Motor RH	
J24	Junction Connector		P12	Power Window Master SW	90980-11791
J25	Junction Connector		P13	Power Window Master SW	90980-11165
J26	Junction Connector		P14	Power Window Motor Front LH	90980-11599
J27	Junction Connector	00000 44005	P15	Power Window Motor Front RH	
J28	Junction Connector	90980-11925	P16	Power Window Motor Rear LH	90980-11003
J29	Junction Connector		P17	Power Window Motor Rear RH	1
J30	Junction Connector		P18	Power Window SW Front RH	
J31	Junction Connector		P19	Power Window SW Rear LH	90980-10789
J32	Junction Connector		P20	Power Window SW Rear RH	
J33	Junction Connector		P21	Pretensioner LH	00000 44000
J34	Junction Connector		P22	Pretensioner RH	90980-11862
J35	Junction Connector		P23	Power Seat Control SW (Driver's Seat)	
J36	Junction Connector	-	P24	Power Seat Control SW (Front Passenger's	90980-10803
J37	Junction Connector			Seat)	
J38	Junction Connector		P25	Power Seat Motor (Driver's Seat Front Vertical Control)	
J39	Junction Connector			Power Seat Motor (Driver's Seat Lumbar	-
J40	Junction Connector		P26	Support Control)	
J41	Junction Connector		P27	Power Seat Motor (Driver's Seat Rear	
J42	Junction Connector		1 21	Vertical Control)	
J43	Junction Connector	82824-10020	P28	Power Seat Motor (Driver's Seat Reclining Control)	
J44	Junction Connector	82824-10010	` <u> </u>	Power Seat Motor (Driver's Seat Slide	-
K 1	Knock Sensor 1	90980-11166	P29	Control)	90980-10825
K 2	Knock Sensor 2	90960-11166	P30	Power Seat Motor (Front Passenger's Seat	
К3	Key Interlock Solenoid	90980-10825		Front Vertical Control)	
L 1	License Plate Light LH	90980-11148	P31	Power Seat Motor (Front Passenger's Seat Rear Vertical Control)	
L 2	License Plate Light RH	90960-11146		Power Seat Motor (Front Passenger's Seat	-
L 3	Lumbar Support Control SW (Driver's Seat)	90980-10601	P32	Reclining Control)	
M 1	Mass Air Flow Meter	90980-11317	P33	Power Seat Motor (Front Passenger's Seat]
M 2	Moon Roof Control ECU	90980-10997		Slide Control)	
М3	Moon Roof Control SW	90980-10789	R1	Radio and Player	90980-12038
M 4	Master Cylinder Pressure Sensor	90980-10845	R 2	Rear Diff. Lock Control ECU	90980-10801
N 1	Noise Filter (Ignition)	90980-10843	R 3	Rear Diff. Lock SW	90980-10631
01	O/D Direct Clutch Speed Sensor	90980-11156	R 4	Rear Heater SW	90980-10797
02	Oil Pressure Sender	90980-11363	R 5	Remote Control Mirror SW	90980-11657
03	O/D Main SW and Shift Lock Control ECU	90980-11614	R 6	Rheostat	90980-10908
P 1	Park/Neutral Position SW, A/T Indicator	90980-11784	R 7	Room Temp. Sensor (Front)	90980-11918
	Light SW and Back-Up Light SW		R 8	Rear A/C Control SW	90980-11503
P 2	Parking Light DU	90980-11156	R 9	Rear Air Mix Control Servo Motor	90980-11319
P 3	Parking Light RH	00000 40700	R10	Rear Combination Light LH	90980-11587
P 4	Power Outlet (Front)	90980-10760	R11	Rear Combination Light LH	90908-10908
P 5	Power Outlet (Rear Console Box)	90980-10860	R12	Rear Combination Light RH	00000 1150=
P 6	Power Quarter Window SW LH	90980-10797	R13	Rear Combination Light RH	90908-11587
P 7	Power Quarter Window SW RH	90980-10996	R14	Rear Cooler Blower Motor	90980-10214
P 8	Parking Brake SW	90980-10871	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	Code	Part Name	Part Number
R16	Rear Cooler Power Transistor	00000 40474	T 1	Theft Deterrent Horn	90980-10619
R17	Rear Cooler Relay	90980-10171	T 2	Throttle Control Motor	90980-10942
R18	Rear Diff. Lock Motor	90980-11194	Т3	Throttle Position Sensor	90980-11037
R19	Rear Door Speaker LH	00000 40005	T 4	Telescopic Motor	90980-10799
R20	Rear Door Speaker RH	90980-10935	T 5	Theft Deterrent ECU	90980-10765
R21	Rear Evaporator Temp. Sensor	90980-11918	Т6	Theft Deterrent ECU	90980-10973
R22	Rear Heater Blower Motor	90980-10860	Т7	Tilt and Telescopic ECU	90980-10799
R23	Rear Heater Blower Resistor	90980-10916	T 8	Tilt and Telescopic ECU	90980-10848
R24	Rear Heater Fan Relay	00000 40474	Т9	Tilt Motor	90980-10799
R25	Rear Heater Power Transistor	90980-10171	T10	Transponder Key Amplifier	90980-10933
R26	Rear Inlet Air Temp. Sensor	90980-11369	T11	Turn Signal Flasher	90980-10799
R27	Rear Interior Light	90980-10935	T12	Trailer Socket	90980-10988
R28	Rear Window Defogger	00000 44007	T13	Tweeter LH	90980-11300
R29	Rear Window Defogger	90980-11097	T14	Tweeter RH	
R30	Rear Wiper Motor	90980-10795	U 1	Unlock Warning SW	90980-10860
R31	Rear Wiper Relay	90908-10797	V 1	Vapor Pressure Sensor	00000 44440
R32	Remote Control Mirror LH	90980-11573	V 2	Vehicle Speed Sensor (Combination Meter)	90980-11143
R33	Remote Control Mirror RH	90960-11573	V 3	Vehicle Speed Sensor (Electronically	
R34	Room Temp. Sensor (Rear)	90980-11918		Controlled Transmission)	90980-11156
S 1	Starter	90980-11400	V 4	VSV (EVAP)	90980-11136
S 2	Starter	90980-09585	V 5	VSV (Vapor Pressure Sensor)	
S 3	Seat Heater SW (Driver's Seat)	90980-10797	V 6	Vanity Light LH	90980-11369
S 4	Seat Heater SW (Front Passenger's Seat)	90980-10996	V 7	Vanity Light RH	
S 5	Stop Light SW	90980-11118	V 8	VSC Warning Buzzer	90980-10906
S 6	Stereo Component Amplifier	90980-10848	W 1	Washer Motor	90980-11294
S 7	Stereo Component Amplifier	90980-10807	W 2	Water Temp. Sender	90980-11428
S 8	Seat Belt Warning Occupant Detection	90980-10860	W 3	Wireless Door Lock ECU	90980-11264
	Sensor		W 4	Woofer (Speaker)	90980-10795
S 9	Seat Heater (Driver's Seat)	- 90980-10907	Y 1	Yaw Rate Sensor	90980-11904
S10	Seat Heater (Front Passenger's Seat)	20000 10007			

<u>W-R</u>(s)

Intake manifold RH



[K]

Left front fender

†

BATTERY

W-R

W-R

- [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

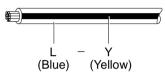
R = Red O = Orange LG = Light Green

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.

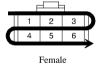
Example: L-Y

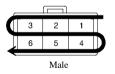


- [C] : The position of the parts is the same as shown in the wiring diagram and wire routing.
- **[D]**: Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example : Numbered in order from upper left to lower right

Numbered in order from upper right to lower left



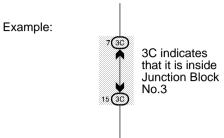


The numbering system for the overall wiring diagram is the same as above

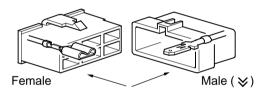
[E] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B.

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.



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



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

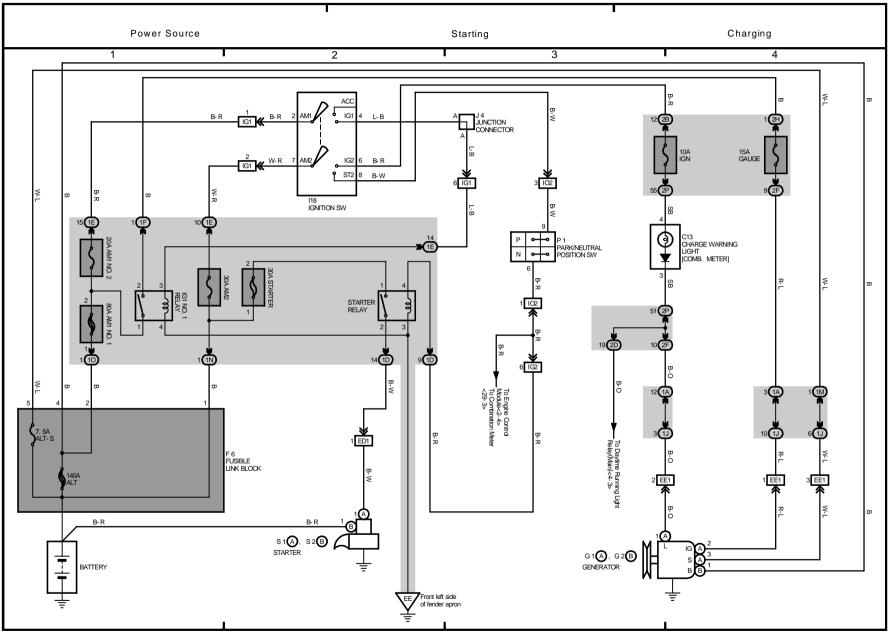


- [K]: Indicates and located on ground point.
- [L] : The same code occuring on the next page indicates that the wire harness is continuous.

SYSTEM INDEX

SYSTEMS LOCATIO	SYSTEMS	LOCATION
ABS 15-	Moon Roof	25-4
Auto Antenna11-	Power Outlet	23-2
Automatic Light Control	Power Rear Quarter Window	24-3
Back-Up Light8-	Power Seat	20-3
Center Differential Lock	Power Source	1~31-1
Charging1-	Power Tilt and Power Telescopic	21-3
Cigarette Lighter	Power Window	19-3
Clock	Radio and Player	28-3
Combination Meter	Rear Air Conditioning	31-3
Condenser Fan	Rear Differential Lock	17-3
Cruise Control	Rear Heater (w/o Rear Air Conditioning)	27-3
Door Lock Control	Rear Window Defogger and Mirror Heater	24-2
Electronically Controlled Transmission and A/T Indicator 13-	Rear Wiper and Washer	9-2
Engine Control and Engine Immobiliser System	Remote Control Mirror	22-3
Front Air Conditioning	Seat Heater	26-3
Front Fog Light	Shift Lock	11-2
Front Wiper and Washer	SRS	12-3
Headlight	Starting	1-2
Horn	Stop Light	8-3
Ignition	Taillight	6-3
Illumination7-	Theft Deterrent	18-3
Interior Light9-	Turn Signal and Hazard Warning Light	5-3
Key Reminder and Seat Belt Warning	VSC	14-2
Light Auto Turn Off	Wireless Door Lock Control	9-19

1 LAND CRUISER ELECTRICAL WIRING DIAGRAM



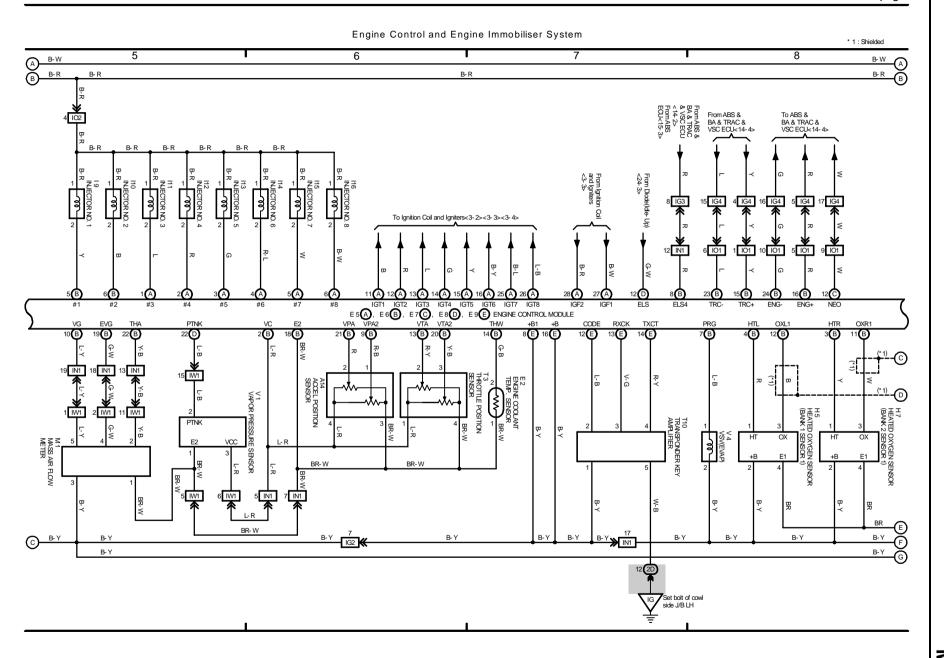
Rear bank of right cylinder head

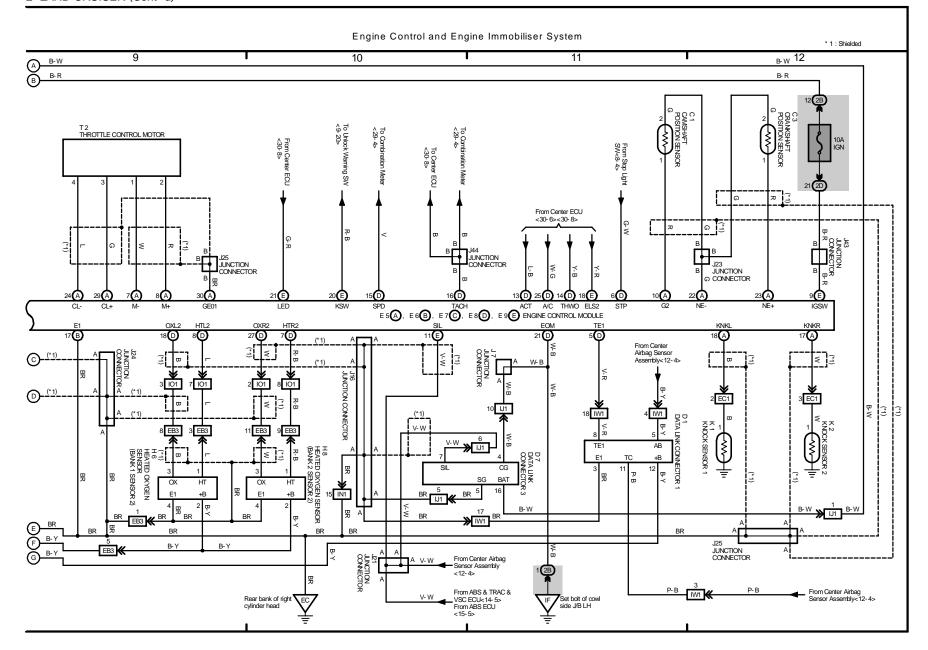
2 LAND CRUISER (Cont. next page) Power Source Engine Control and Engine Immobiliser System 2 B-W ST2 B-W ACC J 4 JUNCTION CONNECTOR L- B A 15A GAUGE I18 IGNITION SW IG2 6 IG1 8 IG2 9**2**D (1) 10 (1E) 9 IG2 J14 JUNCTION CONNECTOR BATT MREL 4BM NSW
E 5 (A), E 6 (B), E 7 (C), E 8 (D), E 9 (E) ENGINE CONTROL MODULE 1**2**G TPC C12(A), C13(B) 1**B** 31**(**A) 21**(**A) 9**(**A) 10**D** MALFUNCTION INDICATOR LAMP [COMB. METER] 1 EG1 1(1N) IU3 ₩ 100A J/B NO. 2 F 7 FUEL CONTROL SW V 5 VSV(Vapor Pressure Sensor) 140A ALT F13 FUEL PUMP CONTROL ECU F 6 FUSIBLE LINK BLOCK BATTERY

> BM Left rear side quarter panel

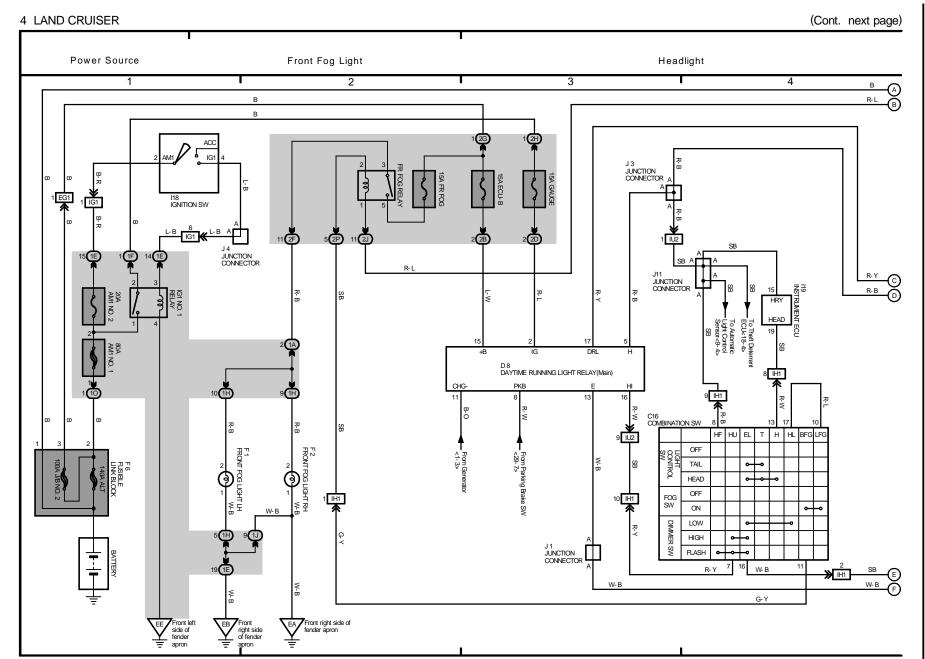
Front left side of fender apron

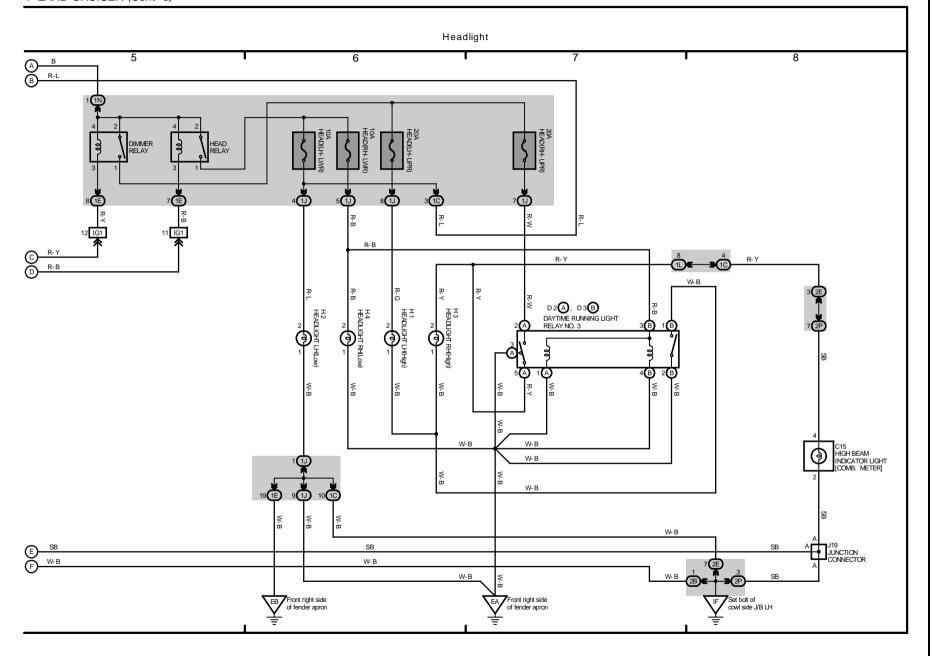
2 LAND CRUISER (Cont' d) (Cont. next page)



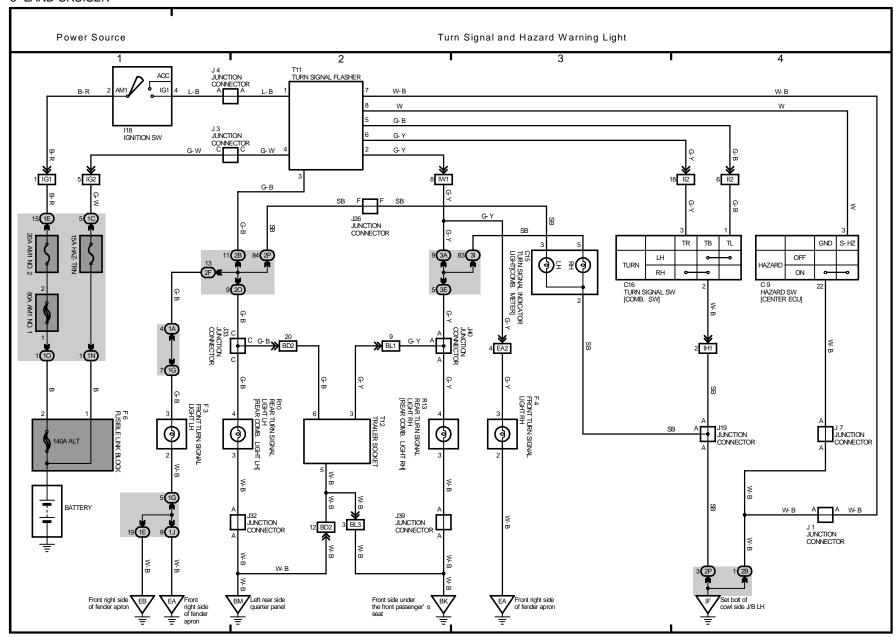


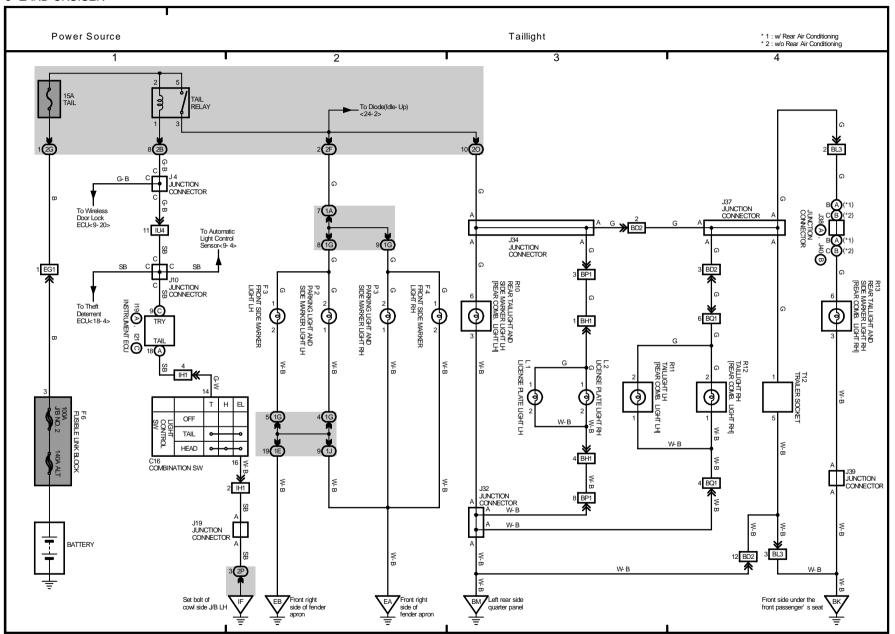
3 LAND CRUISER Ignition Power Source 2 B-R I18 IGNITION SW From Engine Control Module<2-6><2-7> W-B W-B W-B W-B W-B W-B W-B B-W B-R F 6 FUSIBLE LINK BLOCK To Engine Control Module <2-7> BATTERY Rear bank of left cylinder head

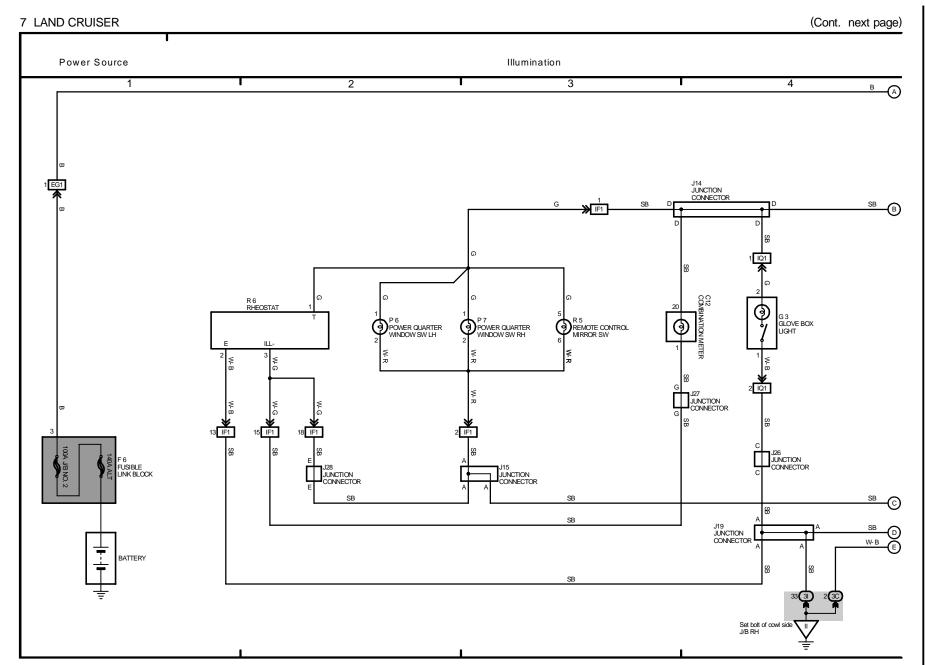


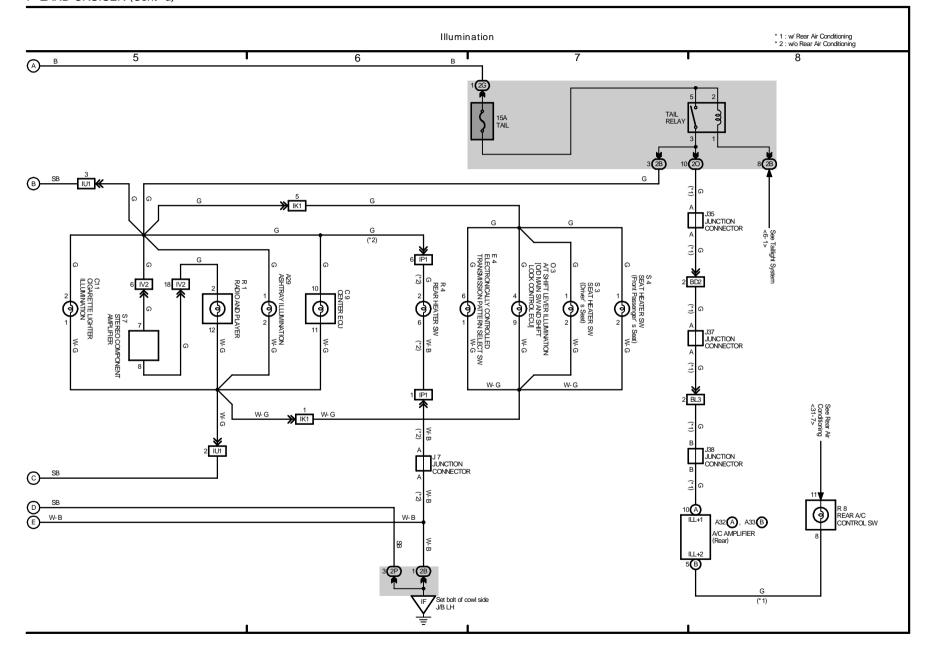


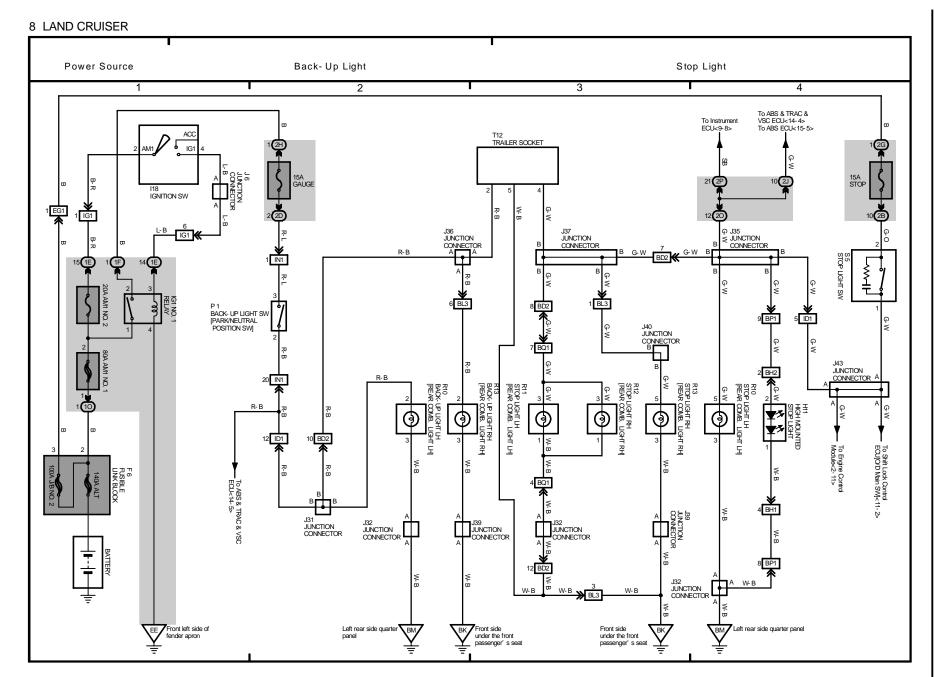
5 LAND CRUISER

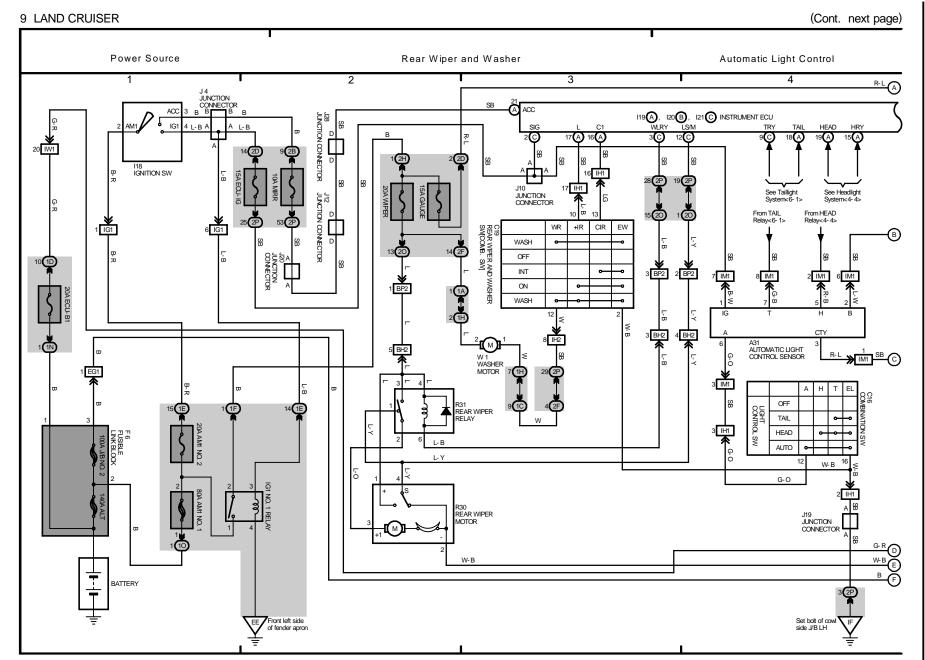




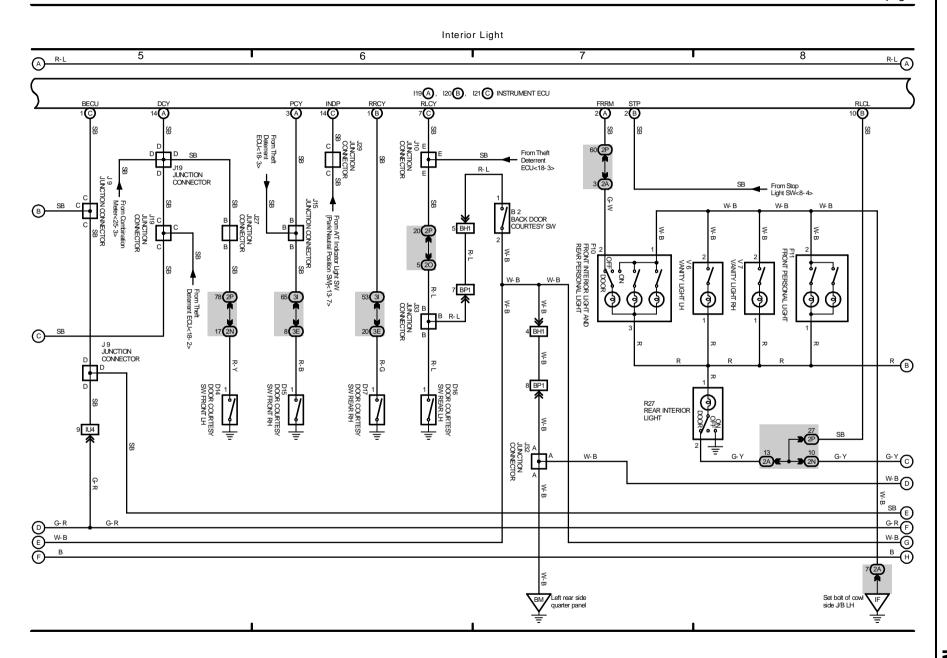




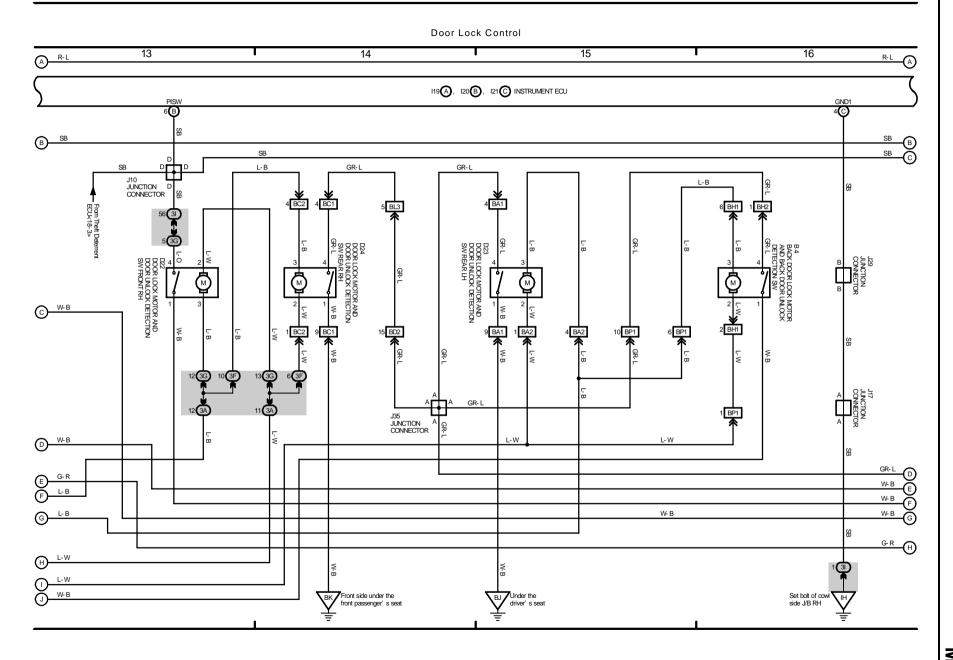


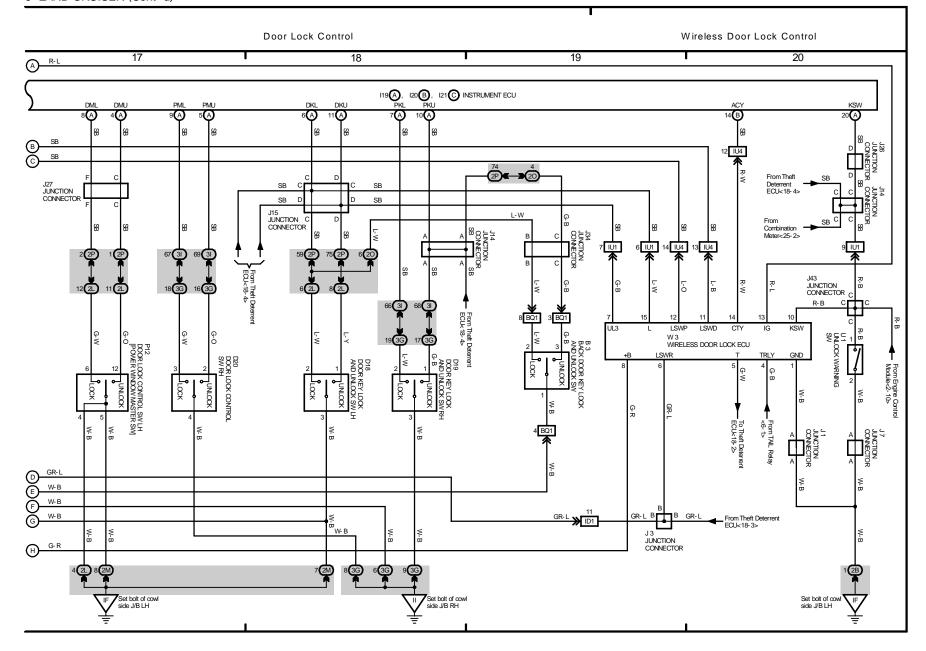


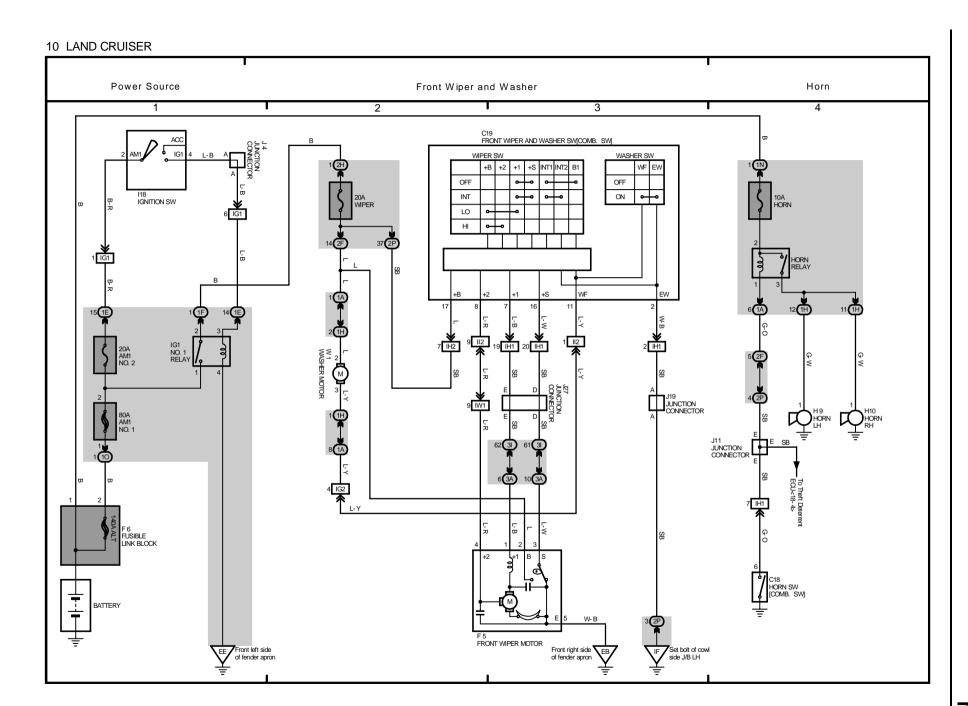
9 LAND CRUISER (Cont' d) (Cont. next page)

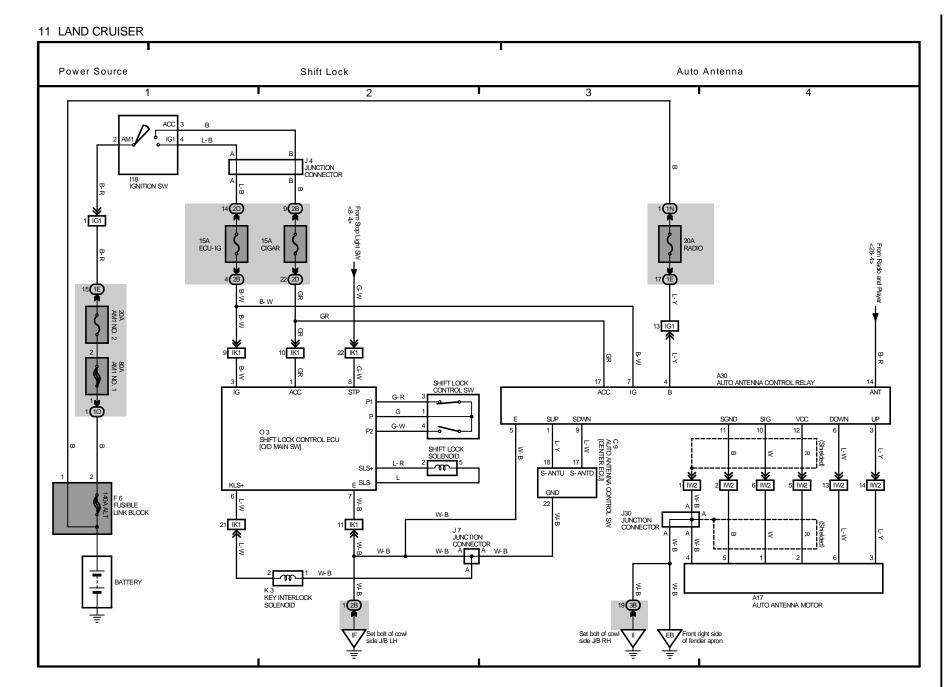


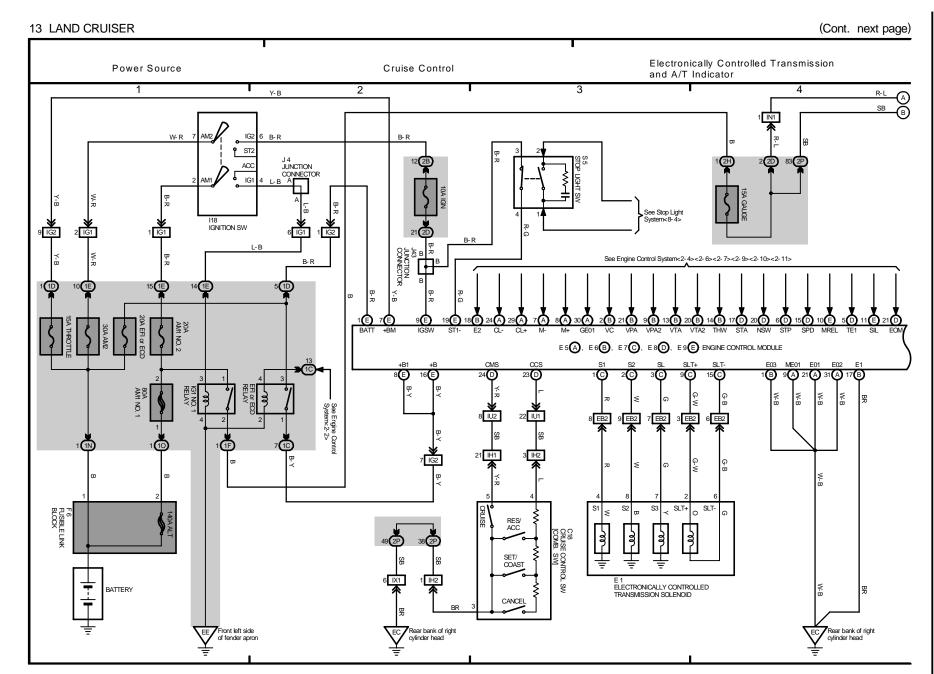
9 LAND CRUISER (Cont' d) (Cont. next page)

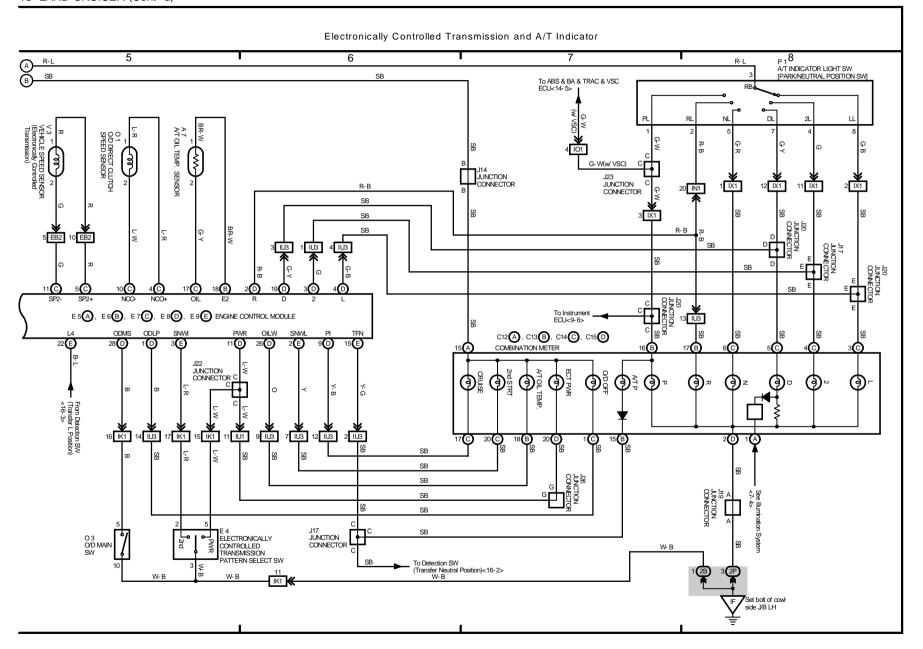


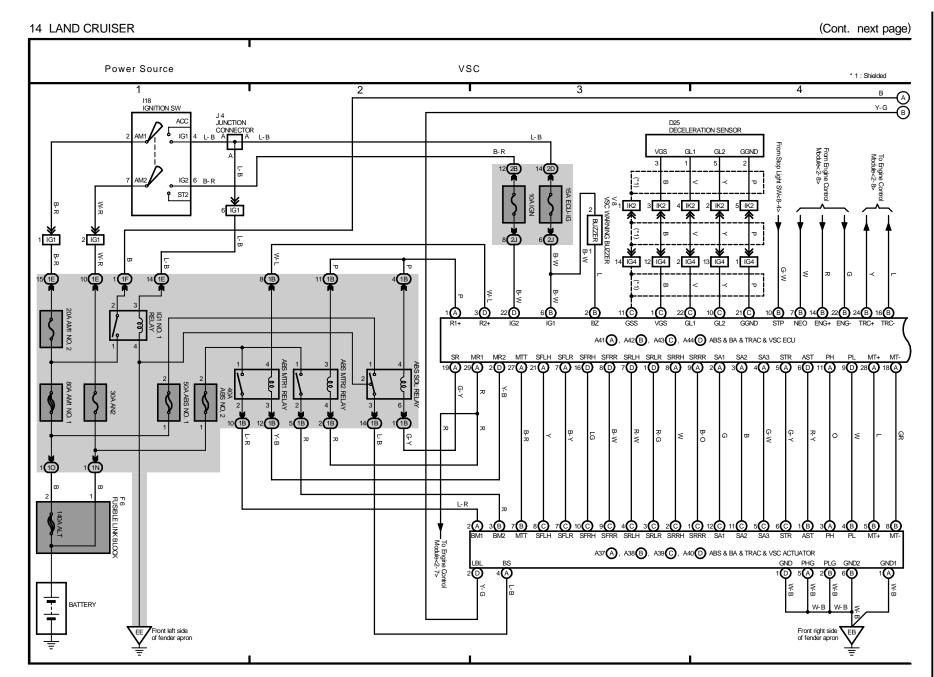




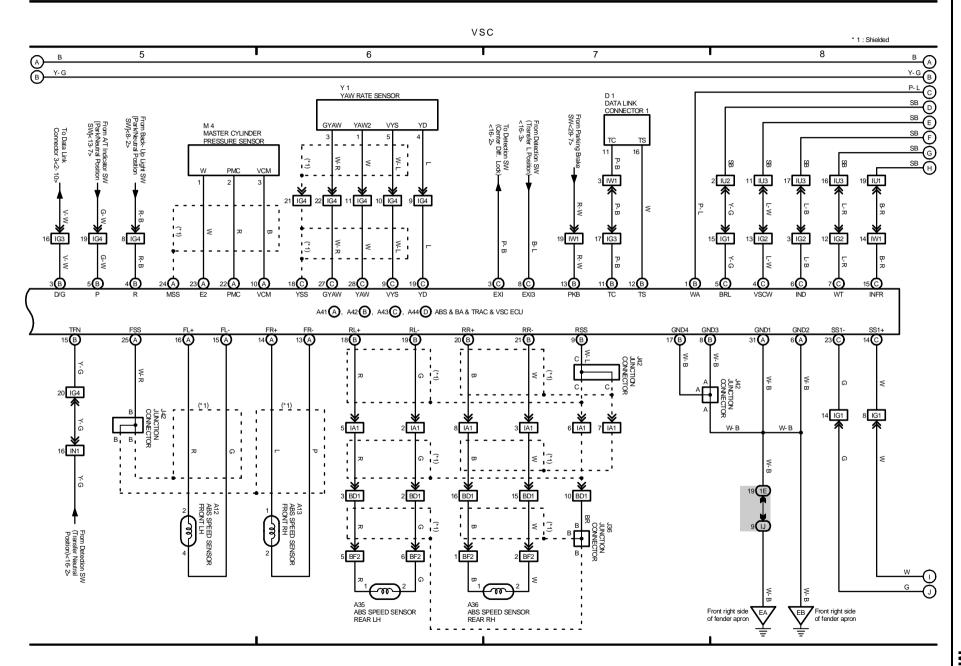


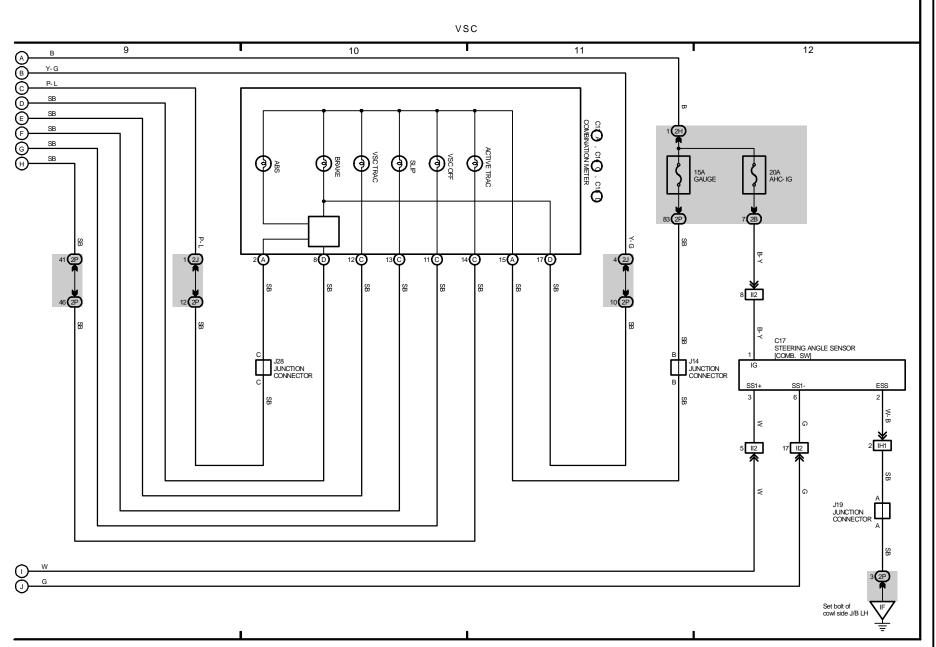


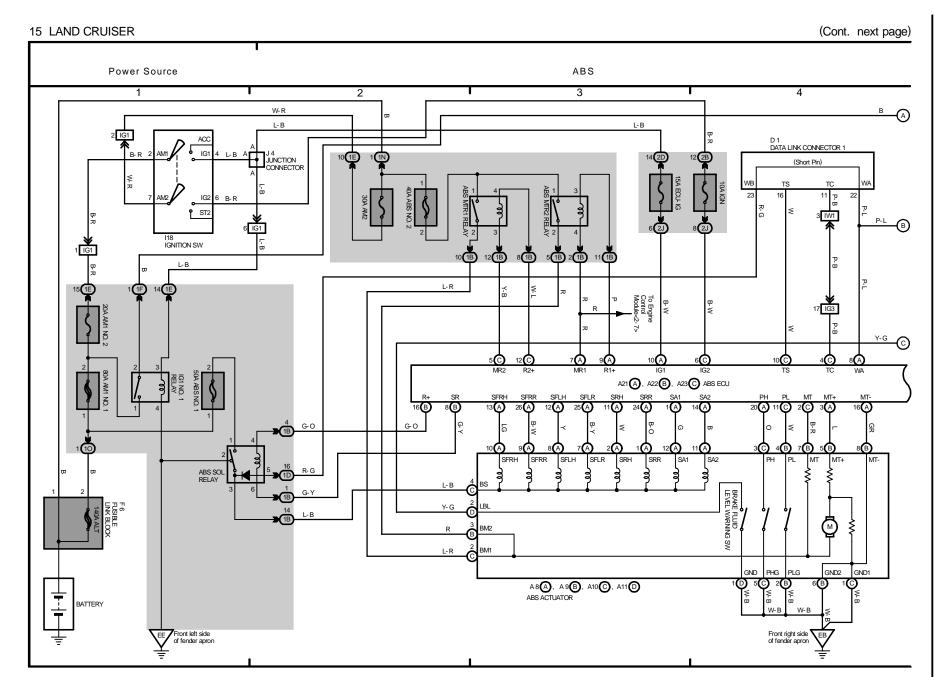


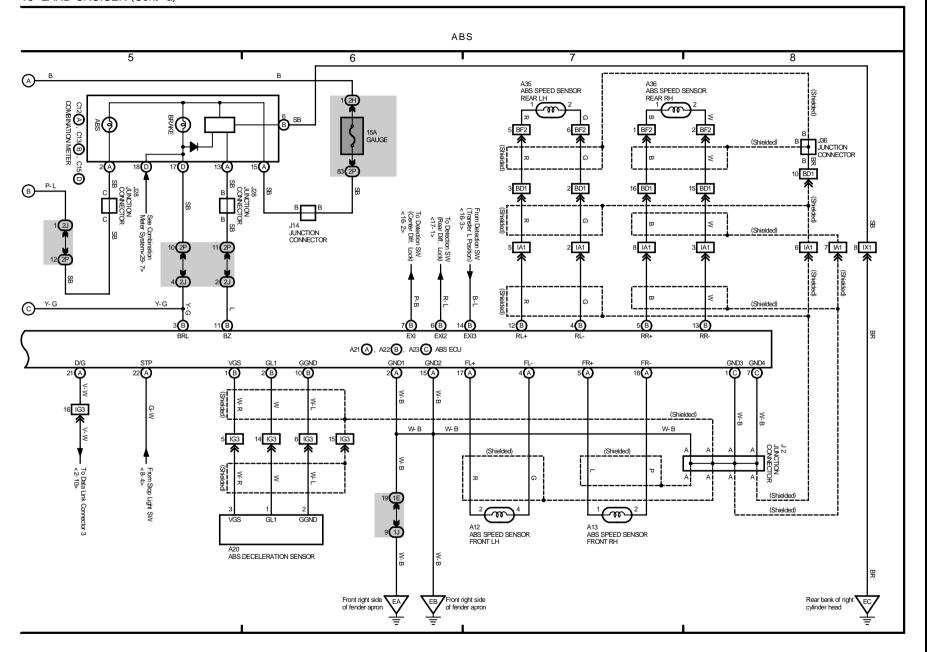


14 LAND CRUISER (Cont' d) (Cont. next page)

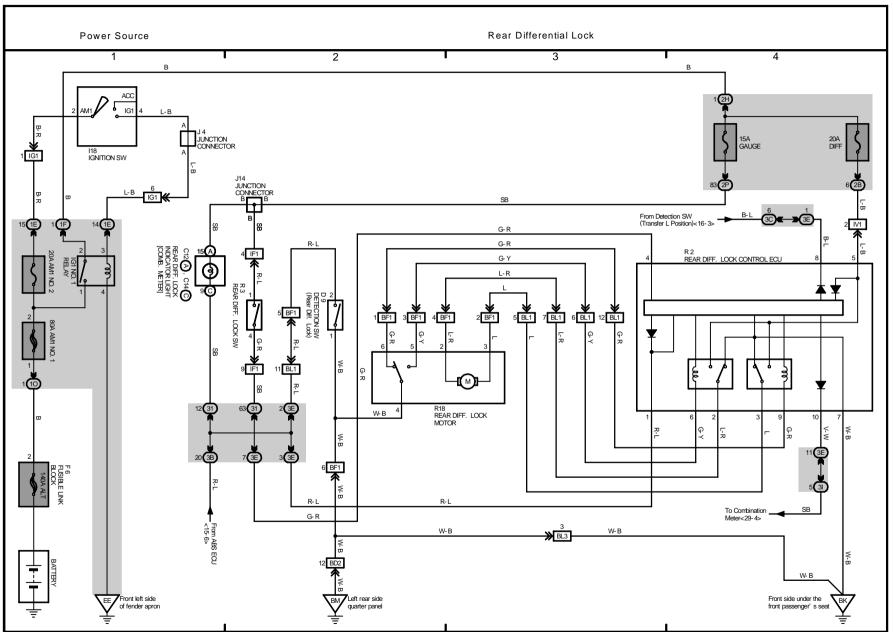








16 LAND CRUISER Power Source Center Differential Lock 2 15A GAUGE I18 IGNITION SW JUNCTION CONNECTOR R-L IG1 **≪** From ABS & TRAC & VSC ECU<14-7> From ABS ECU<15-6> C 9 CENTER DIFF. LOCK SW [CENTER ECU] J14 JUNCTION CONNECTOR 15 (1E) (TF) B-R To ABS & BA & TRAC & VSC ECU< 14-5> To ABS & BA & TRAC & VSC ECU-14-7> To ABS ECU-15-7> To Rear Diff. Lock Control ECU<17-4> C12(A), C14(C) CENTER DIFF. LOCK INDICATOR LIGHT [COMB. METER] To Engine Control Module<13-5> IG1 NO. 1 RELAY 1 IN1 J17 JUNCTION CONNECTOR 7 IG3 1(10) 11 EB1 B-L 7 IW2 9 IN1 10 IN1 8 IN1 4 IN1 2 IN1 3 EB1 12 EB1 2 EB1 C 2 CENTER DIFF. LOCK CONTROL MOTOR Rear bank of right cylinder head Front left side of fender apron Set bolt of cow side J/B LH



18 LAND CRUISER Power Source Theft Deterrent 2 3 J 4 JUNCTION CONNECTOR L-B A A L-B J 9 JUNCTION CONNECTOR D SB From Center ECU <30-8> I18 IGNITION SW IG1 1 EG1 15A ECU- IG 15A ECU- B 20A ECU- B1 15A HAZ-TRN 9 IU4 **※** 43**(3**) G-W 20A AM1 NO. 2 8 IU4 4 IU5 IG2 6 IL1 3 B DSWH 13 IL2 4 IL1 3 IL1 14 IL2 10 IL2 9 IL1 J 3 JUNCTION CONNECTOR 11**(**B) 1(10) +B2 +B1 IND T5B, T6A THEFT DETERRENT ECU DSWP CTY LSWD LSWR KSW LUG DSWD 7<u>11</u>1 5 IL1 16 IL2 2 IL1 **₩** 5 ||2 7 IL2 5 IL2 12 IL2 17 IL2 4 IL2 B IL2 6 IL2 10 1U4 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> To Door Unlock Detection SW Front LH<9-12> To Door Key Lock and Unlock SW RH and Back Door Key Lock and Unlock SW<9- 19> To Unlock Warning SW <9-20> To Door Unlock Detection SW Front RH<9-13> From Wireless Doo Lock EQUk 9-20> - BATTERY Front right side of fender apron Set bolt of cowl side J/B LH

P15 POWER WINDOW MOTOR FRONT RH

Set bolt of cowl IF

P16 POWER WINDOW MOTOR REAR LH P17 POWER WINDOW MOTOR REAR RH

20 LAND CRUISER Power Source Power Seat 2 **2** P24 POWER SEAT CONTROL SW 40A POWER (Front Passenger's Seat) FRONT VERTICAL REAR VERTICAL SLIDE RECLINING SLDF SLDR FUP FDWN RCLF RCLR RUP RDWN 1 EG1 3 BM1 L 3 LUMBAR SUPPORT CONTROL SW(Driver's Seat) P23 POWER SEAT CONTROL SW(Driver's Seat) FRONT VERTICAL REAR VERTICAL RECLINING ౼ Γ, R V ∀ 1 BN1 2 BN1 SLDF FUP RCLF RCLR RUP RDWN FDWN P27 POWER SEAT MOTOR (Driver's Seat Rear Vertical Control) P26 POWER SEAT MOTOR (Driver's Seat Lumbar Support Control) " 1 | M 2 | 囫 W-B 10 BO1 BJ Under the driver's seat Front side under the front passenger's seat

T 9 TILT MOTOR

BATTERY

Set bolt of cowl side J/B LH

T 4 TELESCOPIC MOTOR

22 LAND CRUISER Power Source Light Auto Turn Off Remote Control Mirror 2 J 4 JUNCTION CONNECTOR B B IG1 L-B J20 JUNCTION CONNECTOR R 5 REMOT<u>E CONTROL MIRROR SW</u> I18 IGNITION SW 1 IG1 J30 JUNCTION CONNECTOR A A OPERATION SW €<u>₽</u>, Ē • RH LH O O RH ⊔не∣ MLV MLH 15(1E) 17 IF2 18 IF2 15 IF2 SB 13 IF2 3 IF2 13 IF1 æ J19 JUNCTION CONNECTOR JUNCTION CONNECTOR J13 JUNCTION CONNECTOR SB SB 32 (2P) BECU 33**2**P 31 (2P) 21(31) 24(31) DCY 119(A), 121(C) 1 (2M) INSTRUMENT ECU ❿ \bigcirc BATTERY

R32 REMOTE CONTROL R33 REMOTE CONTROL

Set bolt of cowl side J/B LH

B 5 BUCKLE SW LH

Under the Vidriver's seat

Front side under the front passenger's seat

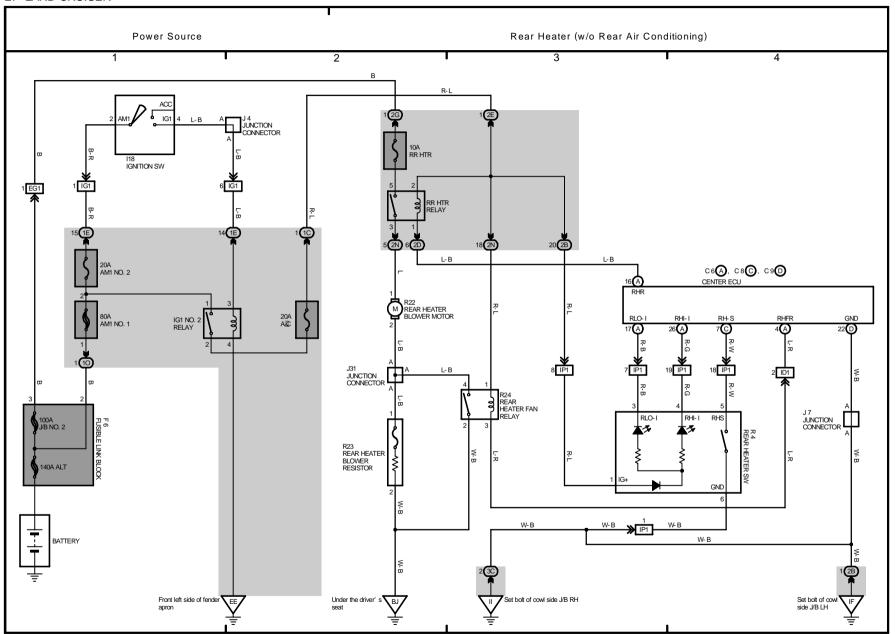
Rear bank of right EC

BATTERY

Front left side of fender apron

W-B

Set bolt of cowl side J/B LH



28 LAND CRUISER Power Source Radio and Player 2 To Auto Antenna Control Relay<11-4> R 1 RADIO AND PLAYER B J 4 JUNCTION CONNECTOR GND I18 IGNITION SW 18 15A CIGAR 13 IG1 1 IG1 6 IZ1 2 IZ1 7 IZ1 3 IZ1 7 IV2 21 IV2 19 IV2 16 IV1 17(1E) (Shielded) 20A RADIO ACC OUT S 6(A), S 7(B) STEREO COMPONENT AMPLIFIER WR+ WR-GND WL-2**(**A) 1**(**A) 8**(**A) 4**(**A) 11**(**A**)** 3**(**A) 10**(**A**)** 6**(**A**)** 15**(**A) 5**(**A) 14**(**A) 12**(**A**)** 13**(**A) 1 (1N) 14 IV1 5 BC1 10 BC1 10 IV1 3 IV1 9 IV1 14 ID1 F 6 FUSIBLE LINK BLOCK 10 101 3 ID1 9 ID1 BATTERY FRONT DOOR SPEAKER LH FRONT DOOR SPEAKER RH REAR DOOR SPEAKER LH REAR DOOR SPEAKER RH TWEETER LH TWEETER RH WOOFER(Speaker) Rear side under the front passenger's seat

29 LAND CRUISER (Cont. next page) Power Source Combination Meter 2 3 4 B-R SB 9 IU4 ACC В A JUNCTION CONNECTOR <u>2H</u>) 20 IW1 ST2 2 IG1 1 IG1 IGNITION SW 15 IU3 6 IU3 C12(A), C13(B), C14(C), C15(D) SEATBELT OD OFF OFF OFF 12G **③** ☐ (>) ₽ 1 EG1 6 IG1 DOOR KEY 15 (1E) 14(1E) 19**(C)** 9**(**A) 13(A) 19(A) 10(A) 16(A) 20(D) 100A J/B NO. 2 J18 JUNCTION CONNECTOR JI7
JUNCTION
CONNECTIOR
R-L
**

R-L
**

R-L 17 IX1 18 IX1 B IX1 A SB 16 IX1 RP 9 EB1 76**(**2P) 7**2**P See Key Reminder and
Seat Belt Warning System
<25-2> See Electronically Controlled
Transmission and A/T Indicato
System<13-7> ≶ 18 IU3 11 (2N) J44 <JUNCTION CONNECTOR 5 BB1 1 BB1 **余** - BATTERY From Center ECU< 30-7> From Engine Control Module <2-10> F12 FUEL SENDER Rear bank of right cylinder head Front left side of fender apron Set bolt of cowl side J/B LH V 2 VEHICLE SPEED SENSOR

(Combination Meter)

29 LAND CRUISER (Cont' d) (Cont. next page)

