FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the 1993 LEXUS ES300.

Applicable models: VCV 10 Series

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

Manual Name	Pub. No.
1992 LEXUS ES300Repair Manual	
Volume 1	RM223U1
Volume 2	RM223U2
1993 LEXUS New Car Features	NCF089U

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

TOYOTA MOTOR CORPORATION

NOTICE -

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

INTRODUCTION

This manual consists of the following 11 sections:

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

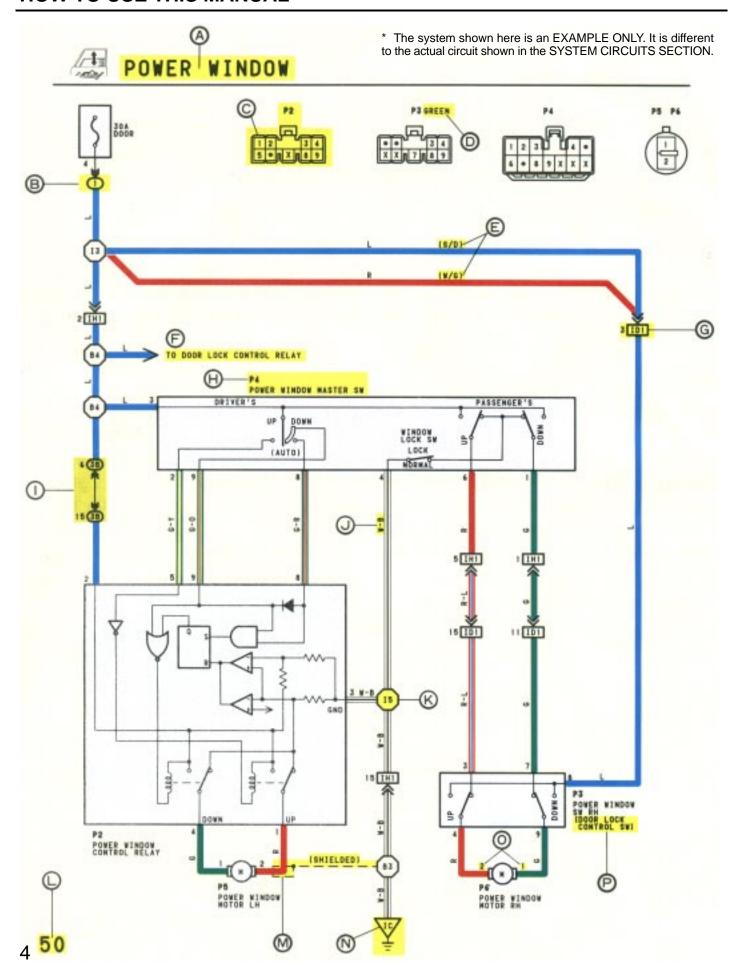
This manual provides information on the electrical circuits installed on vehicles by dividing them into a circuit for each system.

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

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

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

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



: System Title

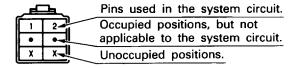


: Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B.



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

Explanation of pin use.



The pins shown are only for the highest grade, or only include those in the specification.



: Connector Color

Connectors not indicated are milky white in color.



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

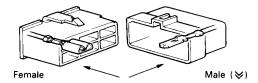


: Indicates related system.



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

Outside numerals are pin numbers.



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

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



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



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 (different junction blocks are shaded differently for further clarification).

Example:



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

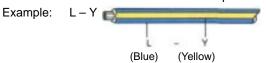


: Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

 $B = Black \quad L = Blue \quad R = Red$ $BR = Brown \quad LG = Light Green \quad V = Violet$ $G = Green \quad O = Orange \quad W = White$ $GR = Gray \quad P = Pink \quad Y = Yellow$

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

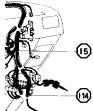




: Indicates a wiring Splice Point (Codes are "E" for the Engine Room, "I" for the Instrument Panel, and "B" for the Body).



Example:





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

(

: Page No.



Indicates a shielded cable.





: Indicates a ground point.

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



: Indicates the pin number of the connector.

The numbering system is different for female and male connectors.

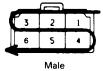
Example: Nu

Numbered in order from upper left to lower right

Numbered in order from upper right to lower left



Female





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



SYSTEM OUTLINE

WITH THE IGNITION SW TURNED ON, THE CURRENT FLOWS TO **TERMINAL 3** OF THE POWER WINDOW MASTER SW, **TERMINAL 2** OF THE POWER WINDOW CONTROL RELAY AND **TERMINAL 8** OF THE POWER WINDOW SW THROUGH THE **DOOR** FUSE.

1. DRIVER'S WINDOW "MANUAL UP" OPERATION BY MASTER SW

HOLDING MANUAL SW (DRIVER'S) ON "UP" POSITION LOCATED IN POWER WINDOW MASTER SW, THE CURRENT FLOWS TO **TERMINAL 5** OF THE POWER WINDOW CONTROL RELAY. THUS THE CURRENT INSIDE THE RELAY FLOWS FROM **TERMINAL 2** OF THE MASTER SW → **TERMINAL 2** OF THE POWER WINDOW MOTOR → **TERMINAL 1** → **TERMINAL 1** → **TERMINAL 1** → **TERMINAL 2** OF THE RELAY → **TERMINAL 2** OF THE RELAY → **TERMINAL 3** → TO **GROUND**. THE MOTOR TURNS TO ASCENT THE WINDOW. RELEASING THIS SW, THE ROTATION OF MOTOR IS STOPPED AND THE WINDOWS CAN STOP AT WILL POINT.

(FOR THE "MANUAL DOWN" OPERATION, CURRENT FLOWS IN THE REVERSE DIRECTION BECAUSE THE TERMINALS WHERE IT FLOWS ARE CHANGED).

2. DRIVER'S WINDOW "AUTO DOWN" OPERATION BY MASTER SW

ONCE THE "AUTO DOWN" BUTTON OF THE MASTER SW IS PUSHED, THE CURRENT FLOWS **TERMINAL 9** OF THE POWER WINDOW CONTROL RELAY THROUGH **TERMINAL 3** OF THE MASTER SW \rightarrow **TERMINAL 8** AND 9 TO OPERATE THE RELAY. THUS THE CURRENT INSIDE THE POWER WINDOW CONTROL RELAY FLOWS FROM **TERMINAL 2** OF THE RELAY \rightarrow **TERMINAL 4** \rightarrow **TERMINAL 1** OF THE POWER WINDOW MOTOR \rightarrow **TERMINAL 2** \rightarrow **TERMINAL 1** OF THE RELAY \rightarrow **TERMINAL 3** \rightarrow TO **GROUND**. THE MOTOR CONTINUES THE ROTATION ENABLING TO DESCENT THE WINDOW.

THE WINDOW DESCENDS TO THE END POSITION. THE CURRENT WILL BE CUT OFF TO RELEASE THE AUTO DOWN FUNCTION BASED ON THE INCREASING CURRENT BETWEEN **TERMINAL 2** OF THE RELAY AND **TERMINAL 1** IN RELAY.

3. DRIVER'S WINDOW AUTO DOWN RELEASE OPERATION BY MASTER SW

HOLDING THE MANUAL SW (DRIVER'S) ON "UP" POSITION IN OPERATING AUTO DOWN. THE CURRENT FROM **TERMINAL 3** OF THE MASTER SW PASSING **TERMINAL 2** FLOWS **TERMINAL 5** OF THE RELAY AND RELEASES THE AUTO DOWN FUNCTION IN THE POWER WINDOW CONTROL RELAY. RELEASING THE HAND FROM SW, WINDOW STOPS AND CONTINUING ON TOUCHING SW, THE FUNCTION SWITCHES TO MANUAL UP OPERATION.

4. PASSENGER'S WINDOW UP OPERATION (MASTER SW) AND WINDOW LOCK SW OPERATION

HOLDING PASSENGER'S WINDOW SW (MASTER SW) ON "UP", THE CURRENT FLOWS FROM TERMINAL 3 OF THE MASTER SW PASSING TERMINAL 6 TO TERMINAL 3 OF THE POWER WINDOW SW (PASSENGER'S) → TERMINAL 4 → TERMINAL 2 OF THE MOTOR → TERMINAL 1 → TERMINAL 9 OF THE POWER WINDOW SW → TERMINAL 7 → TERMINAL 1 OF THE MASTER SW → TERMINAL 4 TO GROUND. THE MOTOR RUNS TO ASCENT THE WINDOW. RELEASING THIS SW, THE ROTATION OF MOTOR IS STOPPED AND WINDOW CAN STOP AT WILL PLACE.

SWITCHING THE WINDOW LOCK SW IN "LOCK" POSITION, THE CIRCUIT IS OPENED AND STOPPED THE MOTOR ROTATION.

(FOR THE DOWN OPERATION, CURRENT FLOWS IN THE REVERSE DIRECTION BECAUSE THE TERMINALS WHERE IT FLOWS ARE CHANGED).



SERVICE HINTS

P 2 POWER WINDOW CONTROL RELAY

3-GROUND: ALWAYS CONTINUITY

2-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

5-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION AND MASTER SW AT UP POSITION

8-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION AND MASTER SW AT AUTO DOWN POSITION

9-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION AND MASTER SW AT DOWN OR AUTO DOWN POSITION

P 4 POWER WINDOW MASTER SW

4-GROUND: ALWAYS CONTINUITY

3-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

WINDOW LOCK SW

OPEN WITH THE WINDOW LOCK SW AT LOCK POSITION



: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
P2	21	P4	21	P6	21
P3	21	P5	21		



: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCK (RELAY BLOCK LOCATION)
1	16	R/B NO. 1 (INSTRUMENT PANEL LEFT SIDE)



: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
3B	14	J/B NO. 3 AND COWL WIRE (INSTRUMENT PANEL LEFT SIDE)



: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
ID1	26	FRONT DOOR RH WIRE AND COWL WIRE (RIGHT KICK PANEL)
IH1	26	FRONT DOOR LH WIRE AND COWL WIRE (LEFT KICK PANEL)



: GROUND POINTS

CODE	SEE PAGE	GROUND POINT LOCATION
IC	24	COWL LEFT



: SPLICE POINTS

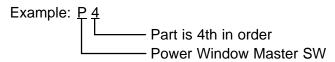
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
15	24	COWL WIRE

②: Explains the system outline.

(R): Indicates values or explains the function for reference during troubleshooting.

(S): Indicates the reference page showing the position on the vehicle of the parts in the system circuit. Example: Part "P4" (Power Window Master SW) is on page 21 of the manual.

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



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

Example: Connector "1" is described on page 16 of this manual and is installed on the left side of the instrument panel.

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

Example: Connector "3B" connects the Cowl Wire and J/B No. 3. It is described on page 14 of this manual, and is installed on the instrument panel left side.

indicates the reference page describing the wiring harness and wiring harness connector (the female wiring harness is shown first, followed by the male wiring harness).

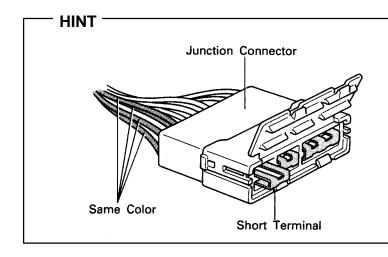
Example: Connector "ID1" connects the front door RH wire (female) and cowl wire (male). It is described on page 26 of this manual, and is installed on the right side kick panel.

indicates the reference page showing the position of the ground points on the vehicle.

Example: Ground point "IC" is described on page 24 of this manual and is installed on the cowl left side.

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

Example: Splice point "I 5" is on the Cowl Wire Harness and is described on page 24 of this manual.



Junction connector (code: J1, J2, J3, J4, J5) in this manual include a short terminal which is connected to a number of wire harnesses. Always perform inspection with the short terminal installed. (When installing the wire harnesses, the harnesses can be connected to any position within the short terminal grouping. Accordingly, in other vehicles, the same wire harness form a different part.)

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

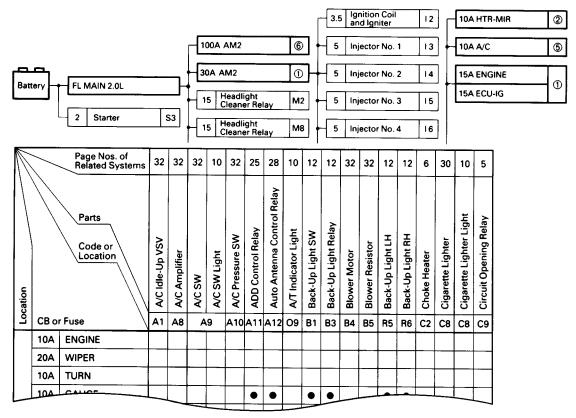
HOW TO USE THIS MANUAL

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

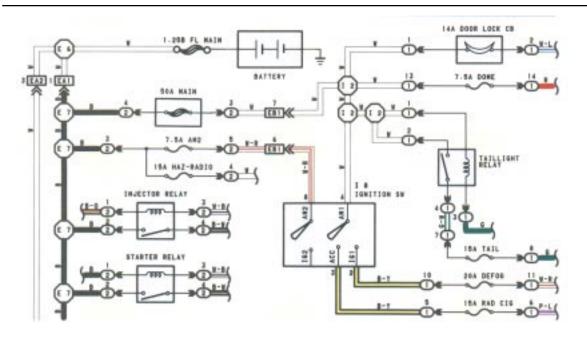
POWER SOURCE (Current Flow Chart)

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.

The next page and following pages show the parts to which each electrical source outputs current.



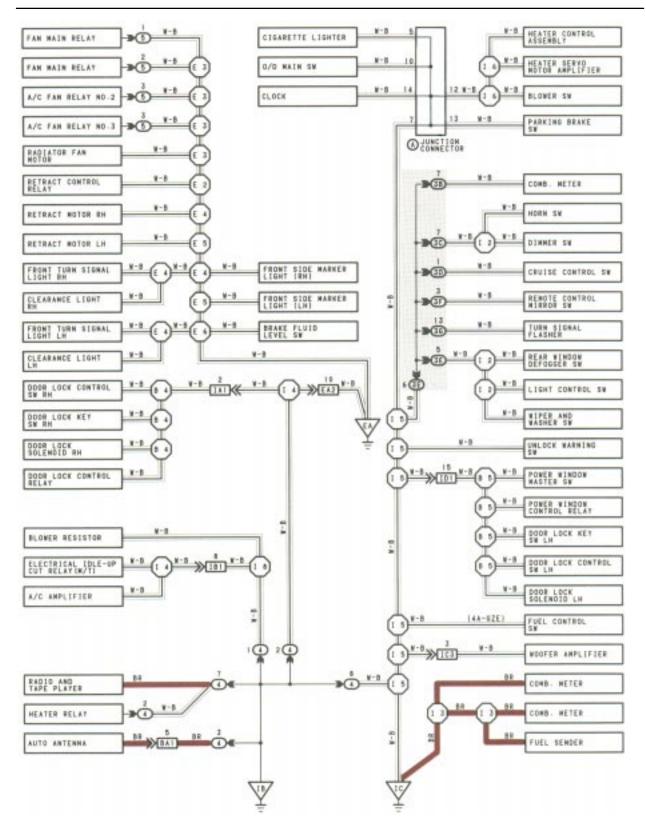
POWER SOURCE



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

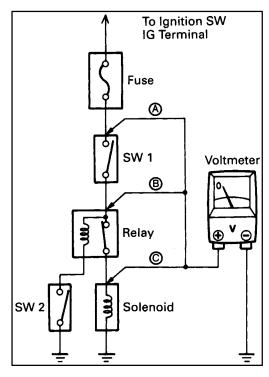
The ground points circuit diagram shows the connections from all major parts to the respective ground points. When troubleshooting a faulty ground point, checking the system circuits which use a common ground may help you identify the problem ground quickly. The relationship between ground points (,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

GROUND POINT



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

TROUBLESHOOTING

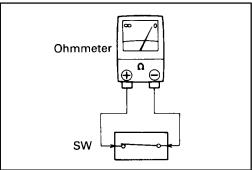


VOLTAGE CHECK

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

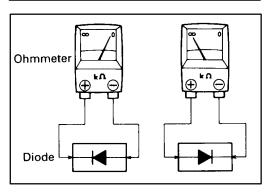
Example:

- A Ignition SW on
- B Ignition SW and SW 1 on
- © Ignition SW, SW 1 and Relay on (SW 2 off)
- (b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal. This check can be done with a test light instead of a voltmeter.



CONTINUITY AND RESISTANCE CHECK

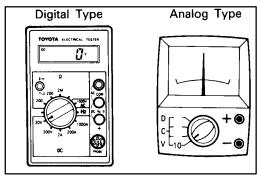
- (a) Disconnect the battery terminal or wire so there is no voltage between the check points.
- (b) Contact the two leads of an ohmmeter to each of the check points.



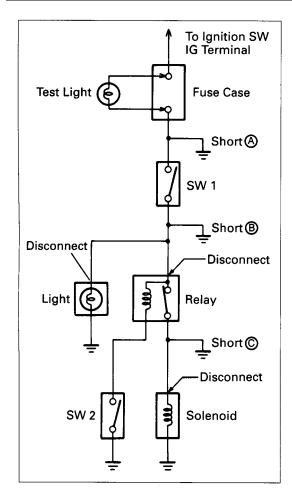
If the circuit has diodes, reverse the two leads and check again.

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

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



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



FINDING A SHORT CIRCUIT

- (a) Remove the blown fuse and disconnect all loads of the fuse.
- (b) Connect a test bulb in place of the fuse.
- (c) Establish conditions in which the test bulb comes on. Example:
 - ♠ Ignition SW on
 - B Ignition SW and SW 1 on
 - © Ignition SW, SW 1 and Relay on (Connect the Relay) and SW 2 off (or Disconnect SW 2)
- (d) Disconnect and reconnect the connectors while watching the test bulb.

The short lies between the connector where the test bulb stays lit and the connector where the bulb goes out.

(e) Find the exact location of the short by lightly shaking the problem wire along the body.

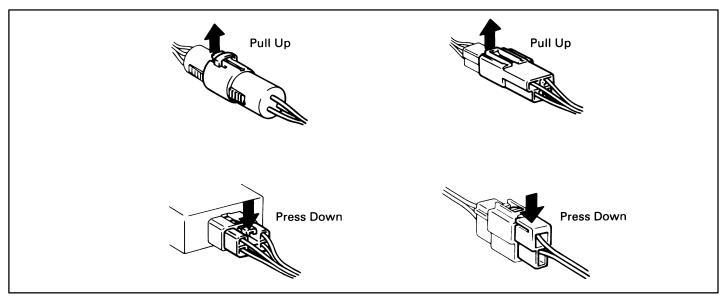
CAUTION

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

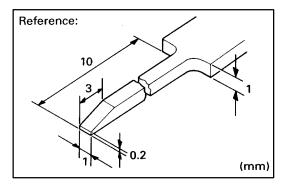
DISCONNECTION OF MALE AND FEMALE CONNECTORS

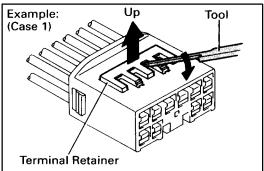
To pull apart the connectors, pull on the connector itself, not the wire harness.

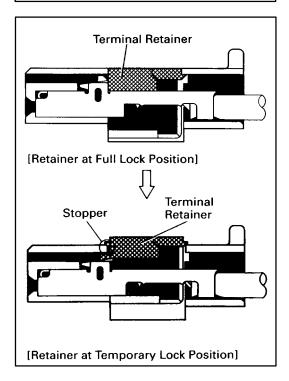
HINT: Check to see what kind of connector you are disconnecting before pulling apart.

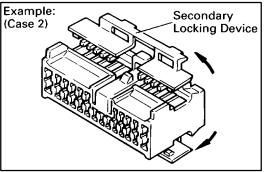


TROUBLESHOOTING









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

1. PREPARE THE SPECIAL TOOL

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

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

NOTICE:

Do not remove the terminal retainer from connector body.

A For Non-Waterproof Type Connector

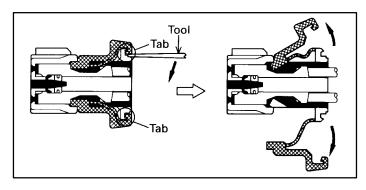
HINT: The needle insertion position varies according to the connector's shape (number of terminals etc.), so check the position before inserting it.

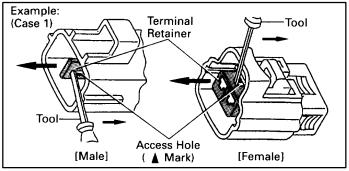
"Case 1"

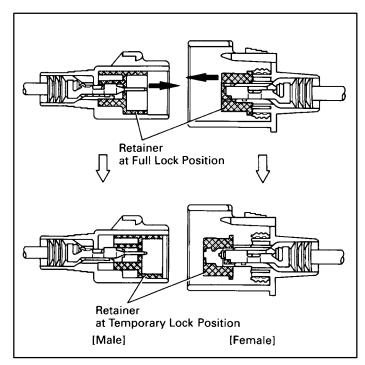
Raise the terminal retainer up to the temporary lock position.

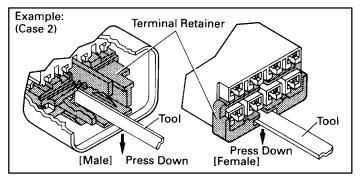
"Case 2"

Open the secondary locking device.









B For Waterproof Type Connector

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

Example:

Terminal Retainer: Connector Body

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

"Case 1"

Type where terminal retainer is pulled up to the temporary lock position (Pull Type). Insert the special tool into the terminal retainer access hole (

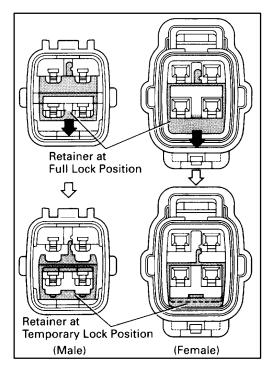
Mark) and pull the terminal retainer up to the temporary lock position.

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

"Case 2"

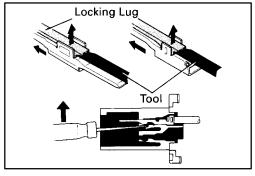
Type which cannot be pulled as far as Power Lock

TROUBLESHOOTING

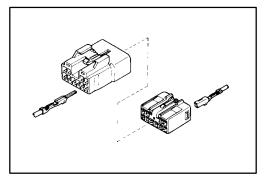


Insert the tool straight into the access hole of terminal retainer as shown.

Push the terminal retainer down to the temporary lock position.



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

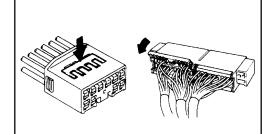


4. INSTALL TERMINAL TO CONNECTOR

(a) Insert the terminal.

HINT:

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



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

ABBREVIATIONS

The following abbreviations are used in this manual.

A/C = Air Conditioning

ABS = Anti-Lock Brake System A/T = Automatic Transmission

CB = Circuit Breaker COMB. = Combination

ECU = Electronic Control Unit EFI = Electronic Fuel Injection EGR = Exhaust Gas Recirculation

Ex. = Except
FL = Fusible Link
J/B = Junction Block
LH = Left-Hand

M/T = Manual Transmission

O/D = Overdrive R/B = Relay Block RH = Right-Hand

SRS = Supplemental Restraint System

SW = Switch

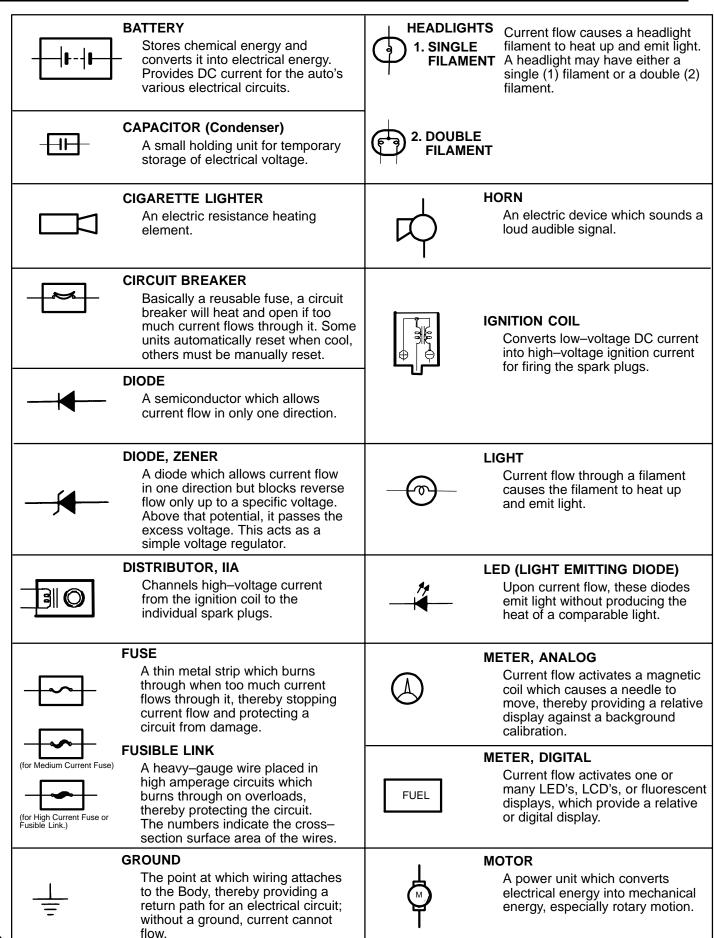
TDCL = Total Diagnostic Communication Link

TEMP. = Temperature

VSV = Vacuum Switching Valve

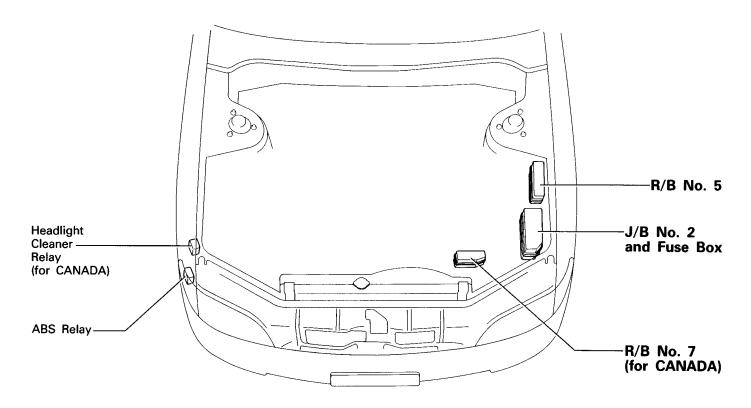
W/ = With W/O = Without

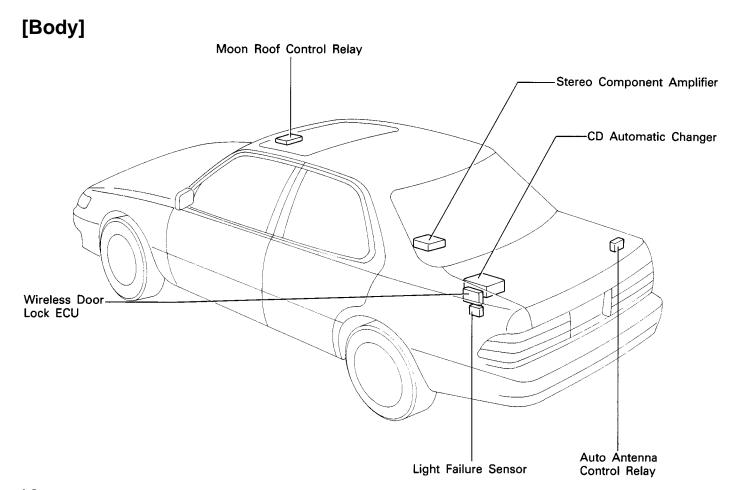
^{*} The titles given inside the components are the names of the terminals (terminal codes) and are not treated as being abbreviations.



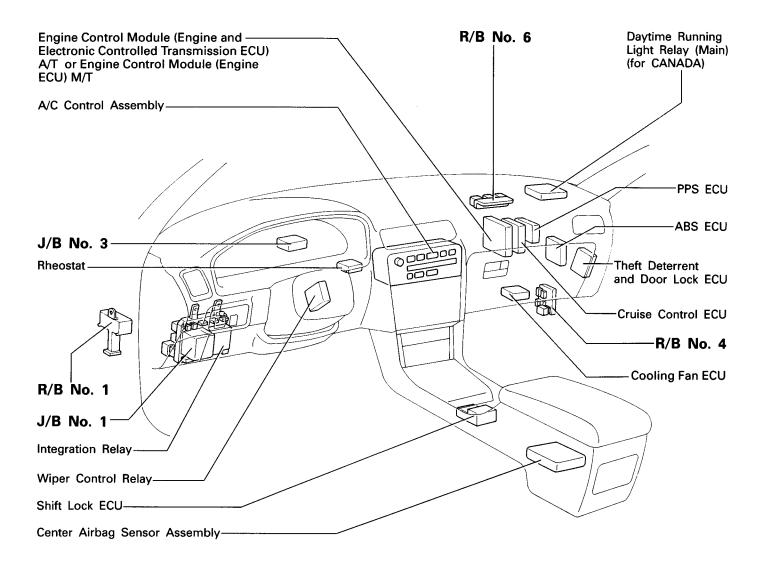
RELAY 1. NORMALLY CLOSED Basically, an electrically operated switch which may be normally closed (1) or open (2). Current flow through a small coil creates a	SPEAKER An electromechanical device which creates sound waves from current flow.
2. NORMALLY magnetic field which either opens or closes an attached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

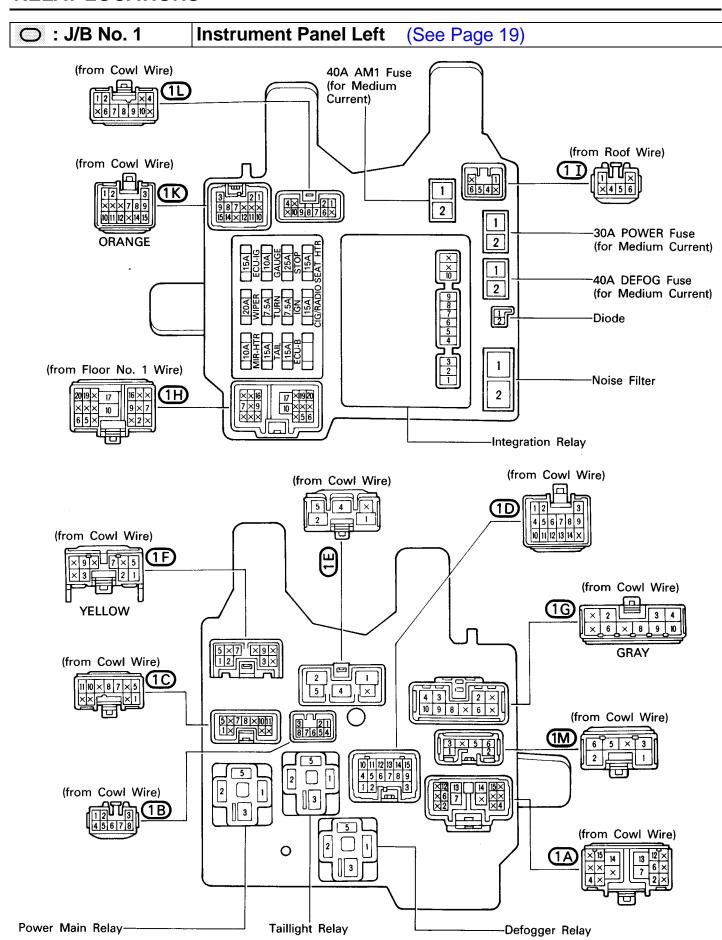
[Engine Compartment]



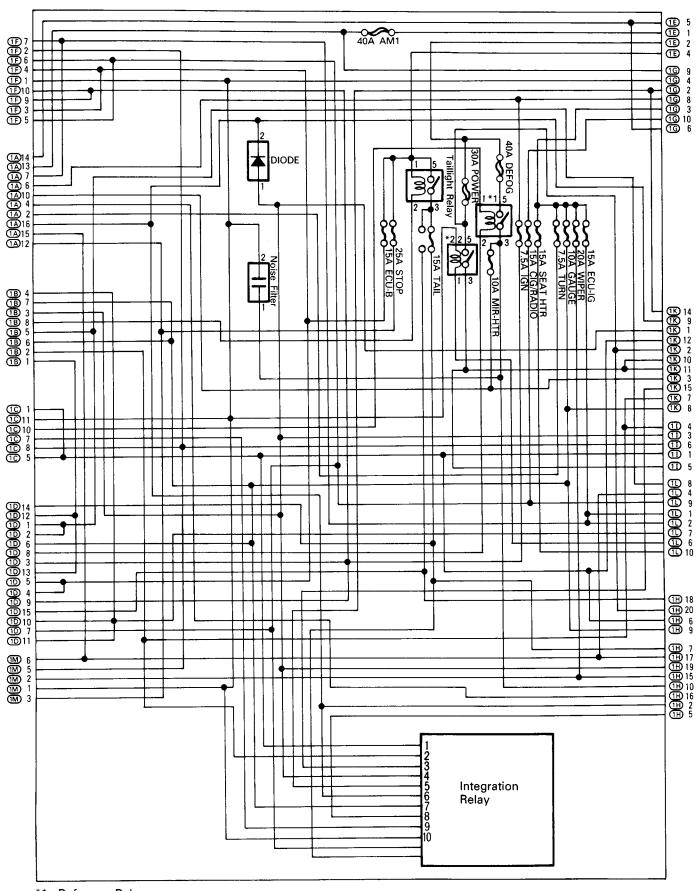


[Instrument Panel]

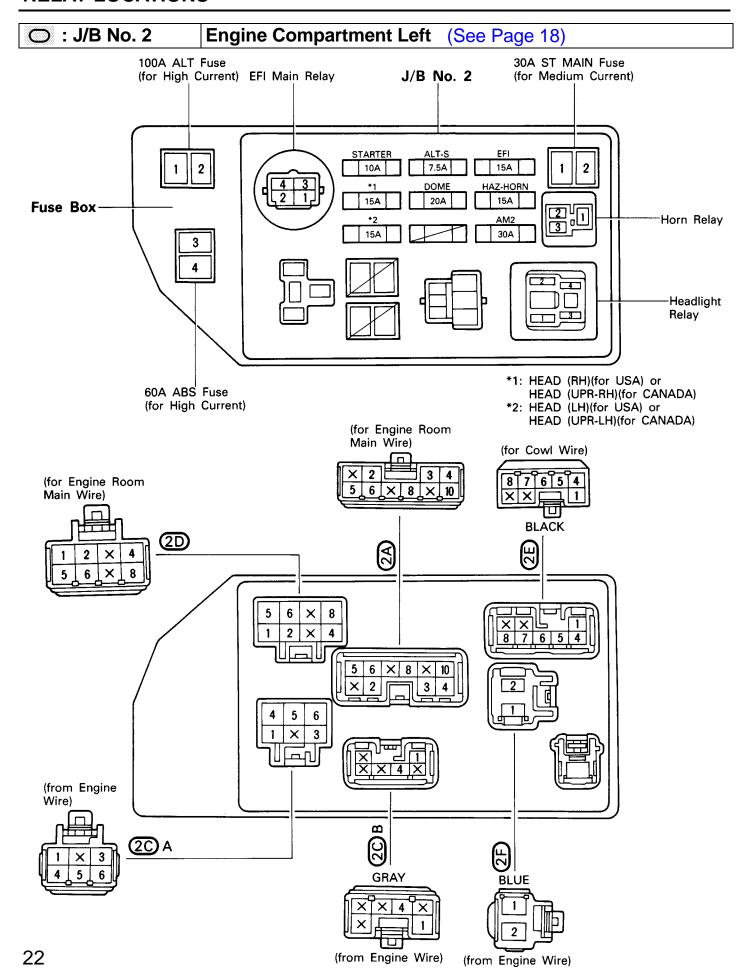




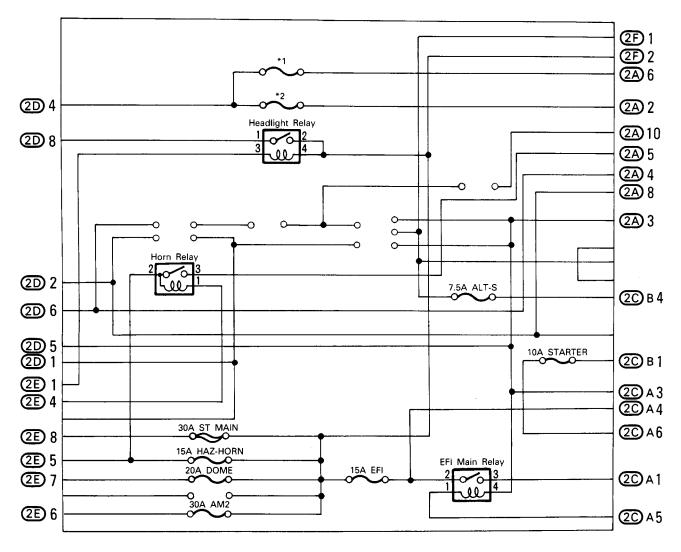
[J/B No. 1 Inner Circuit]



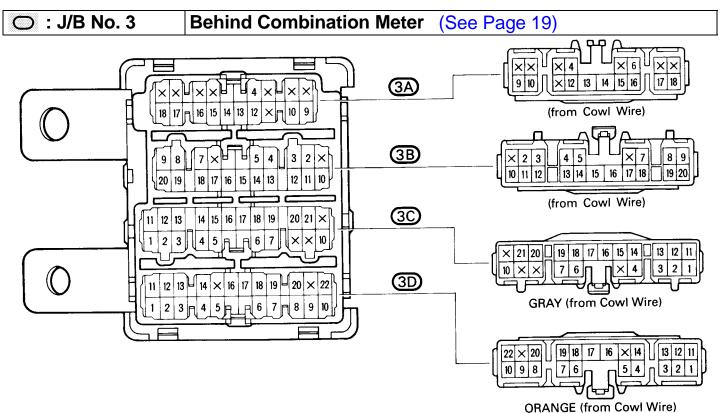
*1: Defogger Relay *2: Power Main Relay



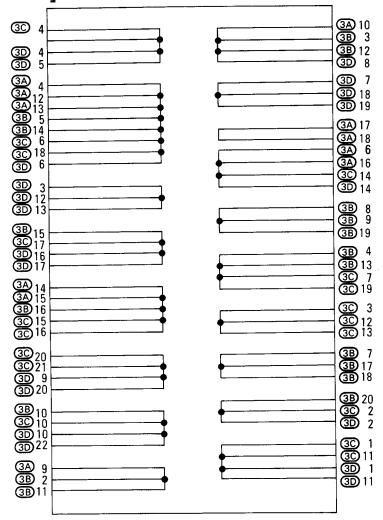
[J/B No. 2 Inner Circuit]



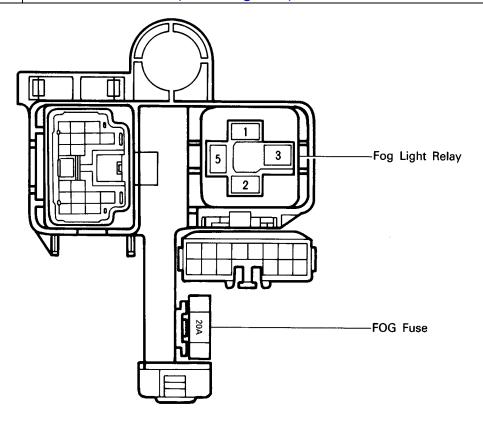
*1: 15A HEAD (RH)(for USA) or 15A HEAD (UPR-RH)(for CANADA)
*2: 15A HEAD (LH)(for USA) or 15A HEAD (UPR-LH)(for CANADA)



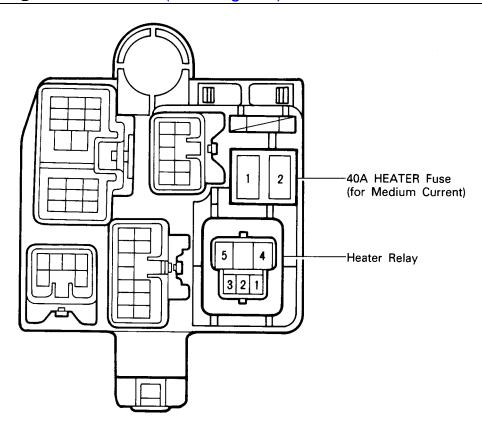
[J/B No. 3 Inner Circuit]



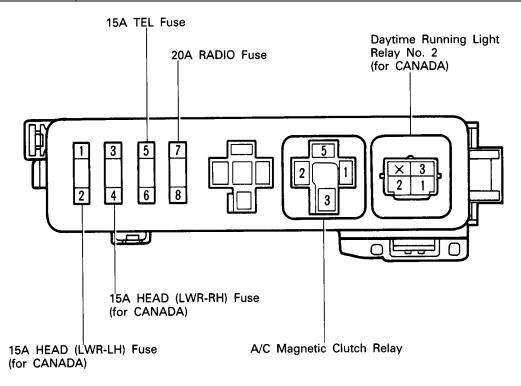
① : R/B No. 1 Left Kick Panel (See Page 19)



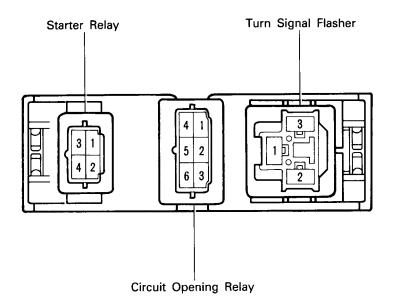
②: R/B No. 4 Right Kick Panel (See Page 19)



(See Page 18) : R/B No. 5

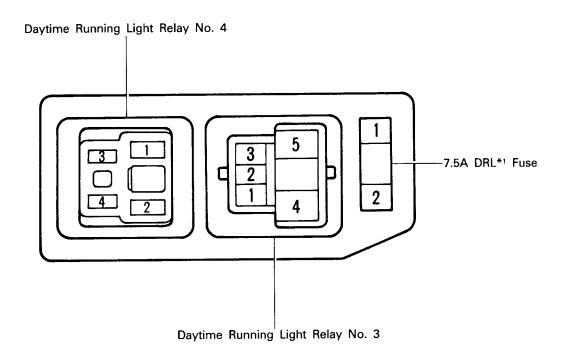


(6): R/B No. 6 Behind Glove Box (See Page 19)



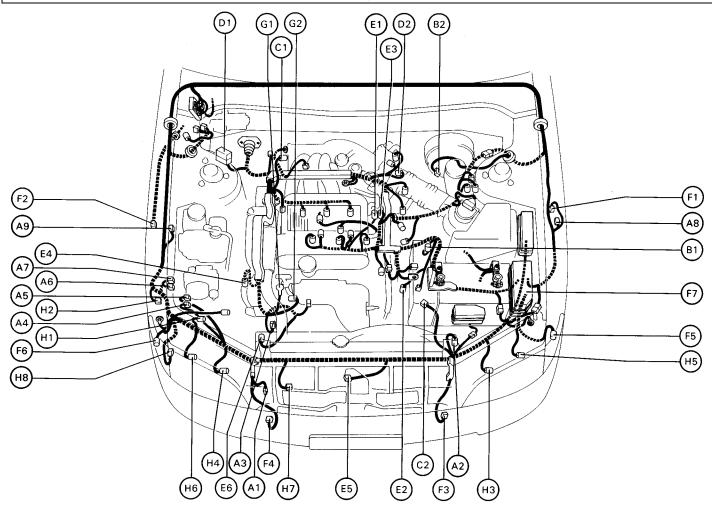
T: R/B No. 7 Near The Battery	(See Page 18)
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(for CANADA)



(*1: Daytime Running Light)

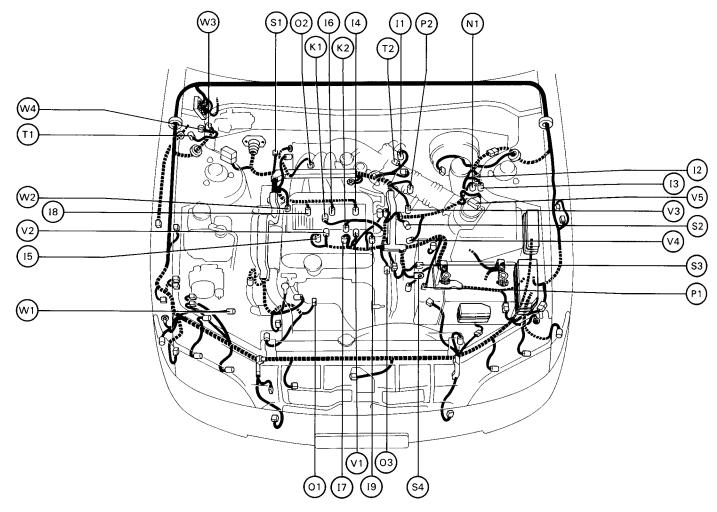
Position of Parts in Engine Compartment



- A 1 A/C Ambient Temp. Sensor
- A 2 A/C Dual and High Pressure SW
- A 3 A/C Magnetic Clutch and Lock Sensor
- A 4 ABS Actuator
- A 5 ABS Actuator
- A 6 ABS Relay
- A 7 ABS Relay
- A 8 ABS Speed Sensor Front LH
- A 9 ABS Speed Sensor Front RH
- B 1 Back-Up Light SW (M/T)
- B 2 Brake Fluid Level SW
- C 1 Cold Start Injector
- C 2 Cruise Control Actuator
- D 1 Data Link Connector 1 (Check Connector)
- D 2 Distributor
- E 1 EGR Gas Temp. Sensor or Short Pin
- 2 Electronic Controlled Transmission Solenoid
- E 3 Engine Coolant Temp. Sensor (EFI Water Temp. Sensor)
- E 4 Engine Coolant Temp. Sensor [Water Temp. Sensor (for Cooling Fan)]

- E 5 Engine Hood Courtesy SW
- E 6 Engine Oil Level Warning SW
- F 1 Front Airbag Sensor LH
- F 2 Front Airbag Sensor RH
- F 3 Front Fog Light LH
- F 4 Front Fog Light RH
- F 5 Front Turn Signal and Clearance Light LH
- F 6 Front Turn Signal and Clearance Light RH
- 7 Fuse Box
- G 1 Generator (Alternator)
- G 2 Generator (Alternator)
-
- H 1 Headlight Cleaner MotorH 2 Headlight Cleaner Relay
- H 3 Headlight Hi LH
- H 4 Headlight Hi RH
- H 5 Headlight Lo LH
- H 6 Headlight Lo RH
- H 7 Horn LH
- H 8 Horn RH

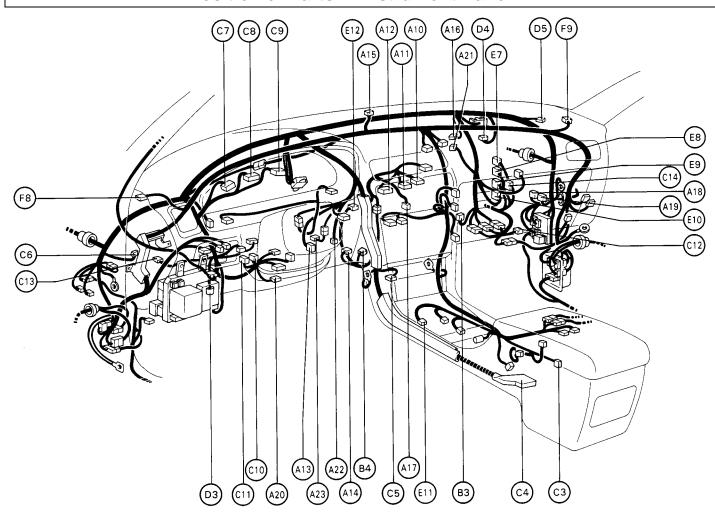
Position of Parts in Engine Compartment



- 1 Idle Air Control Valve (ISC Valve)
- 2 Igniter
- 3 Ignition Coil
- Injector No. 1
- Injector No. 2
- Injector No. 3
- 7 Injector No. 4
- Injector No. 5
- Injector No. 6
- Knock Sensor No. 1 K
- 2 Knock Sensor No. 2 Κ
- 1 Noise Filter (for Ignition System) Ν
- Oil Pressure SW 0
- 0 2 Oxygen Sensor No. 1 (Main)
- 0 3 Oxygen Sensor No. 2 (Main)
- Park/Neutral Position SW (Neutral Start SW)
- PPS Solenoid

- S Solenoid Valve (for Hydraulic Motor)
- S Start Injector Time SW
- Starter S 3
- S Starter
- Т Theft Deterrent Horn
- Throttle Position Sensor Т
- VSV (for Fuel Pressure Up)
- VSV (for Intake Air Control)
- 3 Vehicle Speed Sensor (Speed Sensor) ٧
- Vehicle Speed Sensor (Speed Sensor) (for Electronic Controlled Transmission)
- Volume Air Flow (Air Flow Meter)
- Washer Motor W
- W 2 Water Temp. Sender
- W 3 Wiper Angle Control Motor
- W 4 Wiper Motor

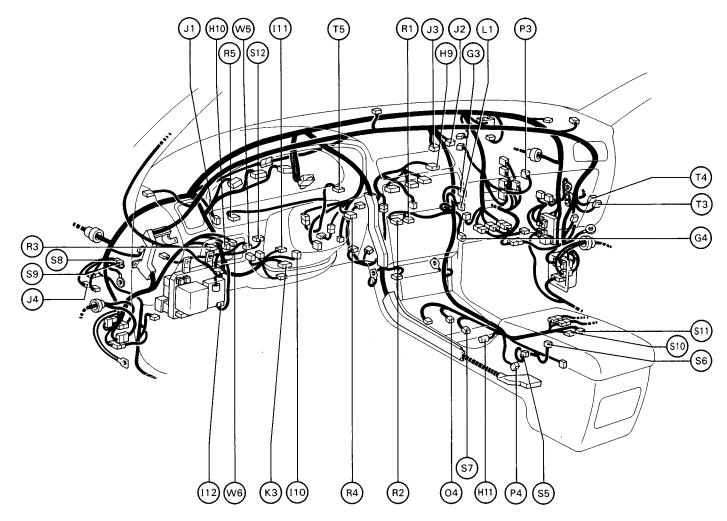
Position of Parts in Instrument Panel



- A 10 A/C Control Assembly
- A 11 A/C Control Assembly
- 12 A/C Control Assembly
- A 13 A/C Room Temp. Sensor
- A 14 A/C Power Transistor
- A 15 A/C Solar Sensor
- A 16 A/C Evaporator Temp. Sensor
- A 17 A/C Thermistor (Engine Coolant Temp. Sensor)
- A 18 ABS ECU
- A 19 ABS ECU
- A 20 Airbag Squib
- A 21 Air Inlet Control Servo Motor
- A 22 Air Mix Control Servo Motor
- A 23 Air Vent Mode Control Servo Motor
- B 3 Blower Motor
- B 4 Blower Resistor (for Low Speed)
- C 3 Cellular Phone (Hand Set)
- C 4 Center Airbag Sensor Assembly
- C 5 Cigarette Lighter and Ashtray Illumination
- C 6 Clutch Start SW (M/T)
- C 7 Combination Meter
- C 8 Combination Meter
- C 9 Combination Meter
- C 10 Combination SW
- C 11 Combination SW
- C 12 Cooling Fan ECU

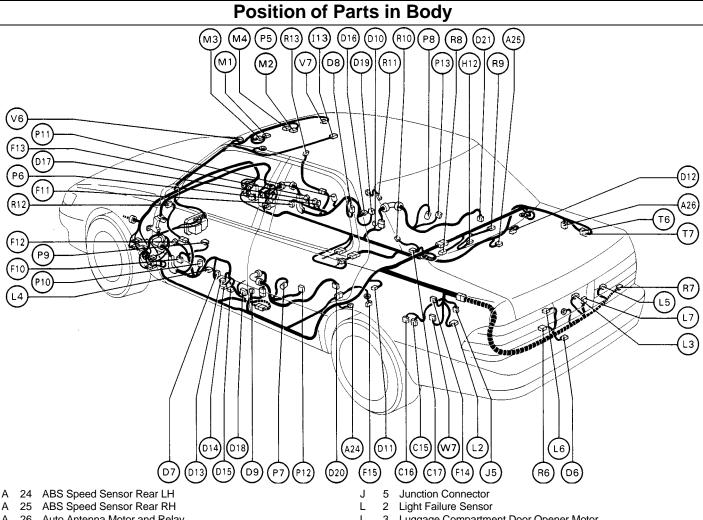
- C 13 Cruise Control Clutch SW (M/T)
- C 14 Cruise Control ECU
- D 3 Data Link Connector 2 [TDCL (Total Diagnostic Communication Link)]
- D 4 Daytime Running Light Relay (Main)
- D 5 Diode (for Cruise Control)
- E 7 Engine Control Module (Engine and Electronic Controlled Transmission ECU (A/T), Engine ECU M/T))
- E 8 Engine Control Module (Engine and Electronic Controlled Transmission ECU (A/T), Engine ECU M/T))
- E 9 Engine Control Module (Engine and Electronic
- Controlled Transmission ECU (A/T), Engine ECU (M/T))
 E 10 Engine Control Module (Engine and Electronic
- Controlled Transmission ECU (A/T), Engine ECU (M/T))
- E 11 Electronic Controlled Transmission Pattern Select SW
- E 12 Extra High Speed Relay
- F 8 Front Squawker (Speaker) LH
- F 9 Front Squawker (Speaker) RH

Position of Parts in Instrument Panel



- 3 Glove Box Light G
- Glove Box Light SW G
- 9 Hazard SW Н
- Headlight Cleaner SW 10 Н
- Н Heated Oxygen Sensor (Oxygen Sensor (Sub))
- Ignition Key Cylinder Light
 Ignition SW and Unlock Warning SW
- 12 Integration Relay
- Junction Connector
- Junction Connector
- 3 Junction Connector
- 4 Junction Connector (for SRS)
- Κ 3 Key Inter Lock Solenoid
- 1 Luggage Compartment Door Opener Main SW ı
- 4 O/D Main SW and A/T Indicator Light (Shift Lever) 0
- 4 Parking Brake SW

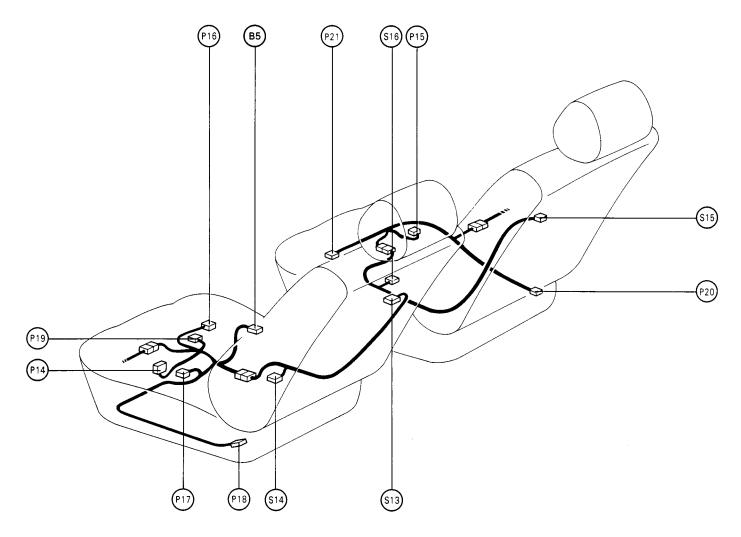
- Radio and Player
- Radio and Player R 2
- Remote Control Mirror SW R 3
- R 4 Rheostat
- Rheostat Volume and Theft Deterrent Indicator Light R
- S Seat Heater SW (Driver's)
- S 6 Seat Heater SW (Passenger's)
- S Shift Lock ECU 7
- S **Short Connector**
- S **Short Connector**
- S Stereo Component Amplifier 10
- Stereo Component Amplifier S 11
- Stop Light SW
- Т Theft Deterrent and Door Lock ECU 3
- Т Theft Deterrent and Door Lock ECU
- Trip SW 5 Т
- Wiper Control Relay W
- 6 Wireless Door Lock Main SW W



- 26 Auto Antenna Motor and Relay Α
- 15 CD Automatic Changer С
- С 16 CD Automatic Changer
- С 17 Choke Coil
- D Diode 6
- D 7 Door Courtesy Light Front LH
- D Door Courtesy Light Front RH
- Door Courtesy SW Front LH D
- Door Courtesy SW Front RH D 10
- Door Courtesy SW Rear LH D 11
- 12 Door Courtesy SW Rear RH D
- 13 Door Handle SW D
- D 14 Door Key Cylinder Light
- 15 Door Key Lock and Unlock SW LH D
- D Door Key Lock and Unlock SW RH
- Door Lock Control SW RH D 17
- Door Lock Motor, Door Unlock and Open Detection D 18 SW Front LH
- D Door Lock Motor, Door Unlock and Open Detection 19 SW Front RH
- Door Lock Motor, Door Unlock and Open Detection D 20
- SW Rear LH Door Lock Motor, Door Unlock and Open Detection D SW Rear RH
- 10 Front Door Speaker LH
- F 11 Front Door Speaker RH
- 12 Front Tweeter (Speaker) LH
- Front Tweeter (Speaker) RH
- Fuel Lid Opener Motor
- 15 Fuel Pump and Sender
- 12 High Mount Stop Light
- Interior Light 13

- Luggage Compartment Door Opener Motor
- Luggage Compartment Door and Fuel Lid Opener SW
- Luggage Compartment Key Unlock SW 5
- Luggage Compartment Light
- Luggage Compartment Light SW 1
- Moon Roof Control Relay M 1
- Moon Roof Control SW and Personal Light (w/ Moon Roof)
- Moon Roof Limit SW М
- Moon Roof Motor Μ
- Personal Light (w/o Moon Roof) Р 5
- Power Window Control SW Front RH
- Power Window Control SW Rear LH
- Р 8 Power Window Control SW Rear RH
- Power Window Master SW and Door Lock Control SW LH 9
- Ρ 10 Power Window Motor Front LH
- Ρ Power Window Motor Front RH 11
- Ρ Power Window Motor Rear LH 12
- Ρ Power Window Motor Rear RH 13
- R Rear Combination Light LH
- R 7 Rear Combination Light RH
- Rear Speaker LH R 8
- Rear Speaker RH
- 10 R Rear Window Defogger (+)
- Rear Window Defogger (-) R 11
- R Remote Control Mirror and Mirror Heater LH
- Remote Control Mirror and Mirror Heater RH R
- Telephone Transceiver and Speaker Relay
- Т 7 Telephone Transceiver and Speaker Relay
- Vanity Light LH
- Vanity Light RH
- W 7 Wireless Door Lock ECU

Position of Parts in Seat



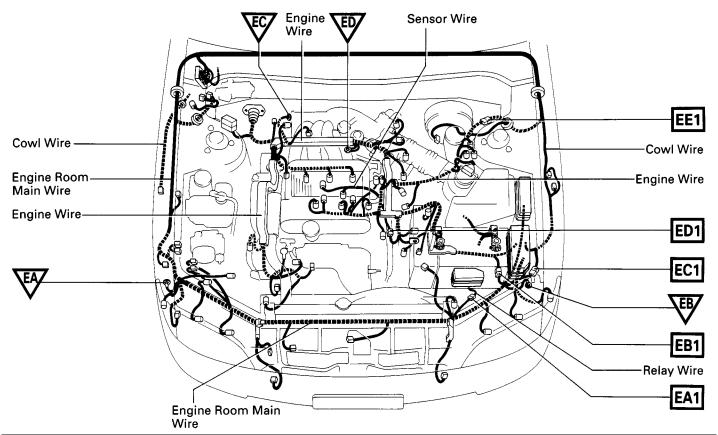
- B 5 Buckle SW
- P 14 Power Seat Control SW (for Driver's Seat)
- P 15 Power Seat Control SW (for Passenger's Seat)
- P 16 Power Seat Motor (for Driver's Seat Front Vertical Control)
- P 17 Power Seat Motor (for Driver's Seat Rear Vertical Control)
- P 18 Power Seat Motor (for Driver's Reclining Motor Control)
- P 19 Power Seat Motor (for Driver's Seat Slide Control)

- P 20 Power Seat Motor (for Passenger's Seat Reclining Control)
- P 21 Power Seat Motor (for Passenger's Seat Slide Control)
- S 13 Seat Heater LH (for Seat Back)
- S 14 Seat Heater LH (for Seat Cushion)
- S 15 Seat Heater RH (for Seat Back)
- S 16 Seat Heater RH (for Seat Cushion)

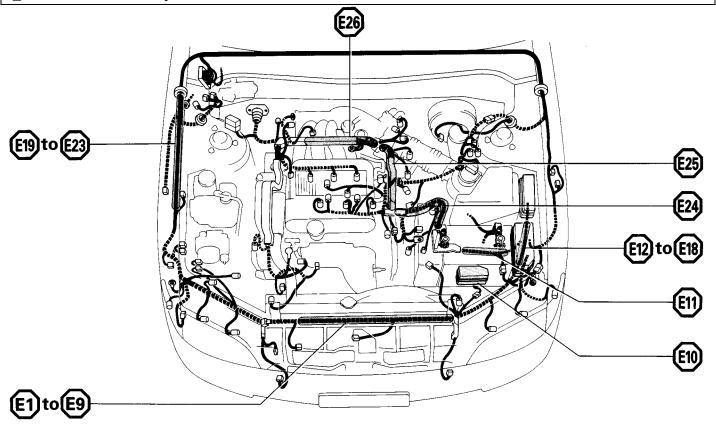
ELECTRICAL WIRING ROUTING

☐ : Location of Connector Joining Wire Harness and Wire Harness

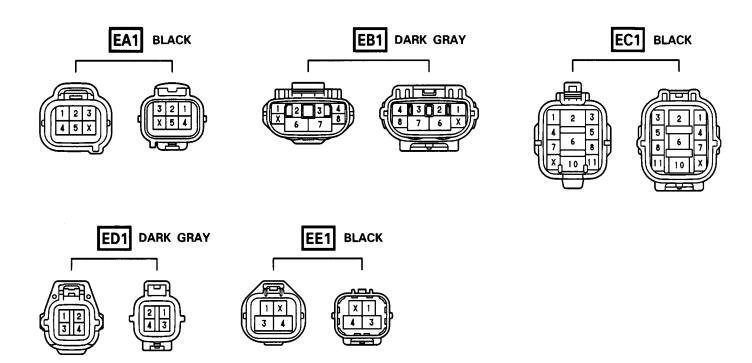
▽: Location of Ground Points



: Location of Splice Points



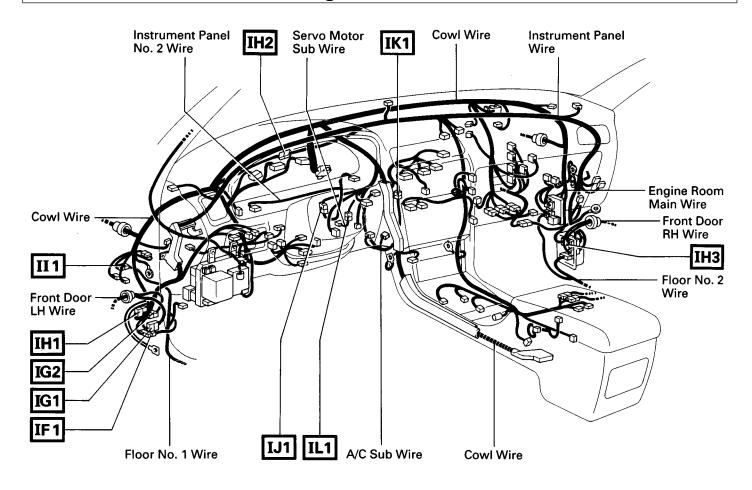
Connector Joining Wire Harness and Wire Harness

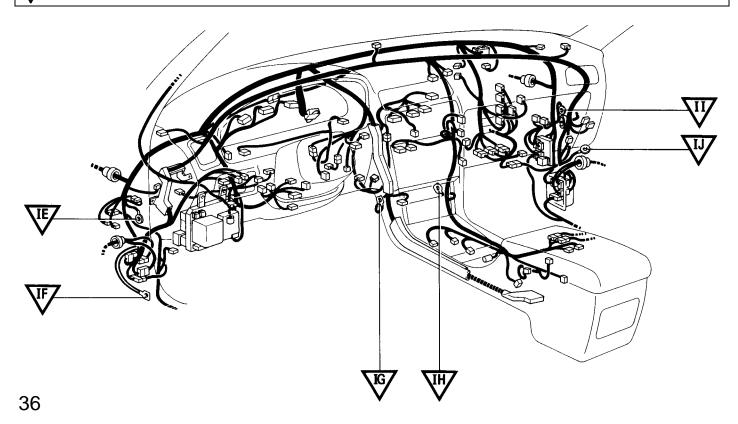


CODE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EA1	ENGINE ROOM MAIN WIRE AND RELAY WIRE (UNDER THE R/B NO. 7)
EB1	ENGINE WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)
EC1	COWL WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)
ED1	ENGINE WIRE AND SENSOR WIRE (SIDE OF FRONT CYLINDER HEAD)
EE1	ENGINE WIRE AND COWL WIRE (NEAR THE BRAKE MASTER CYLINDER)

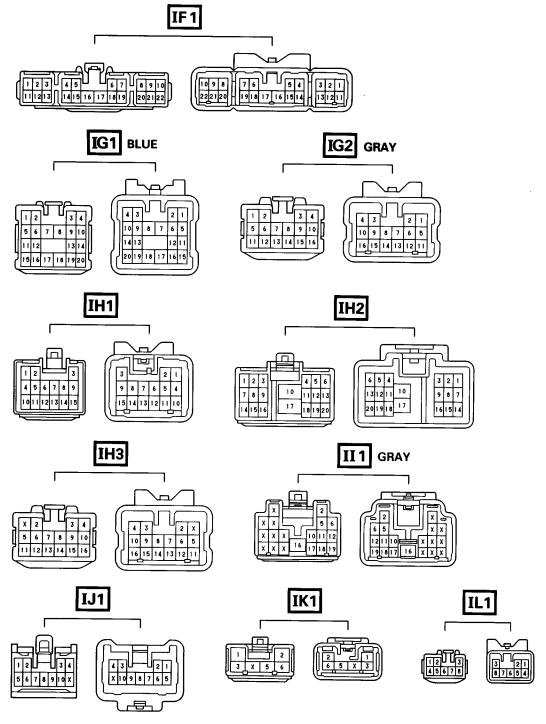
ELECTRICAL WIRING ROUTING

☐ : Location of Connector Joining Wire Harness and Wire Harness





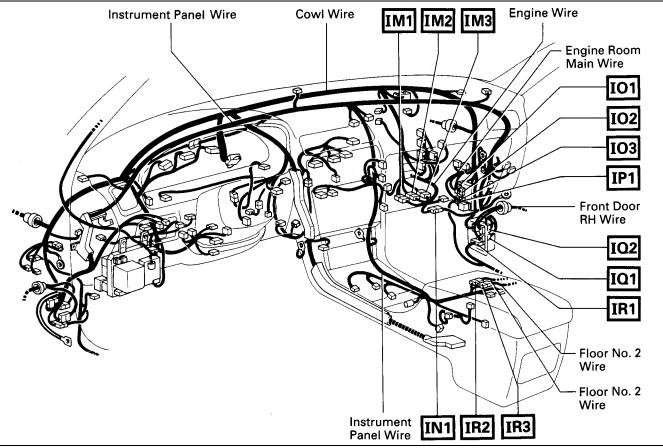
Connector Joining Wire Harness and Wire Harness



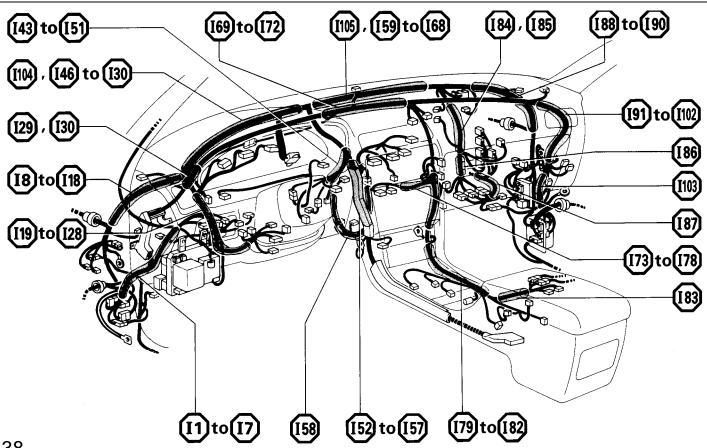
CODE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IF1	FLOOR NO. 1 WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IG1	EDON'T DOOD LILLWIDE AND INCTRIMENT DANIEL WIDE (LEET WOLLDANIEL)
IG2	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH1	COWL WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH2	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IH3	COWL WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
II1	FLOOR NO. 1 WIRE AND COWL WIRE (LEFT KICK PANEL)
IJ1	INSTRUMENT PANEL NO. 2 WIRE AND COWL WIRE (UNDER THE COMBINATION METER)
IK1	COWL WIRE AND A/C SUB WIRE (NEAR THE RADIO AND PLAYER)
IL1	COWL WIRE AND SERVO MOTOR SUB WIRE (BEHIND RADIO AND PLAYER)

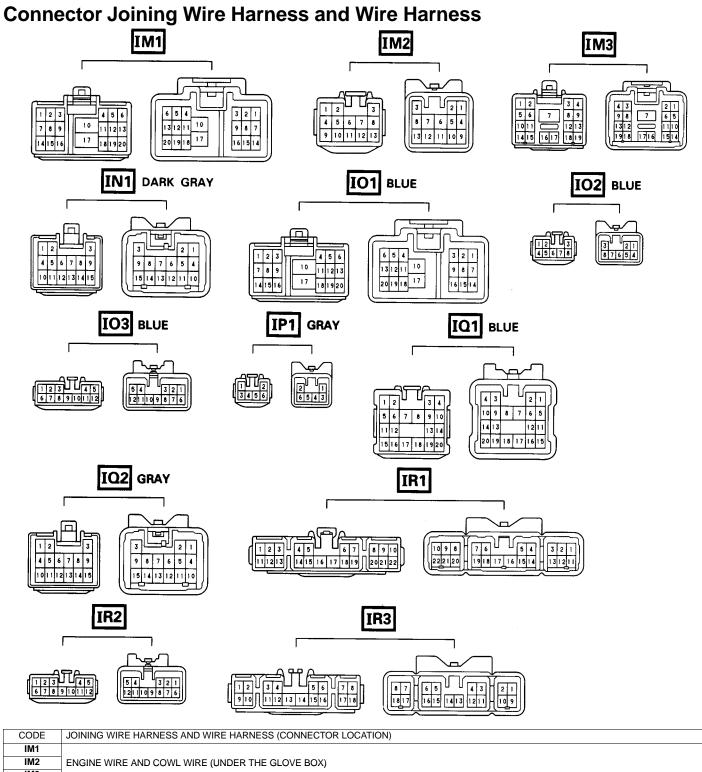
ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness



: Location of Splice Points



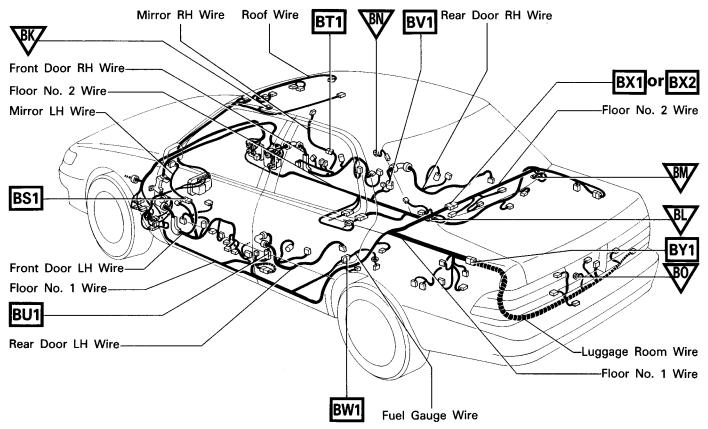


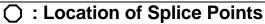
CODE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IM1	
IM2	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)
IM3	
IN1	ENGINE WIRE AND INSTRUMENT PANEL WIRE (UNDER THE GLOVE BOX)
I01	
102	ENGINE ROOM MAIN WIRE AND COWL WIRE (RIGHT KICK PANEL)
103	
IP1	FLOOR NO. 2 WIRE AND COWL WIRE (RIGHT KICK PANEL)
IQ1	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IQ2	PRONT DOOR REWING INSTRUMENT PANEL WIRE (RIGHT RICK PANEL)
IR1	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IR2	- INSTRUMENT PANEL WIRE AND FLOOR NO. 2 WIRE (UNDER THE PASSENGER'S SEAT)
IR3	TING I KUIVIENT PAINEL WIKE AND FLOOK ING. 2 WIKE (UNDER THE PASSENGER S SEAT)

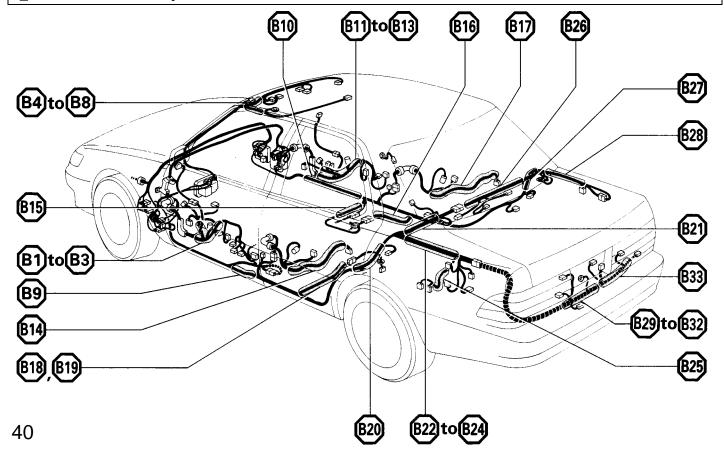
ELECTRICAL WIRING ROUTING

☐ : Location of Connector Joining Wire Harness and Wire Harness

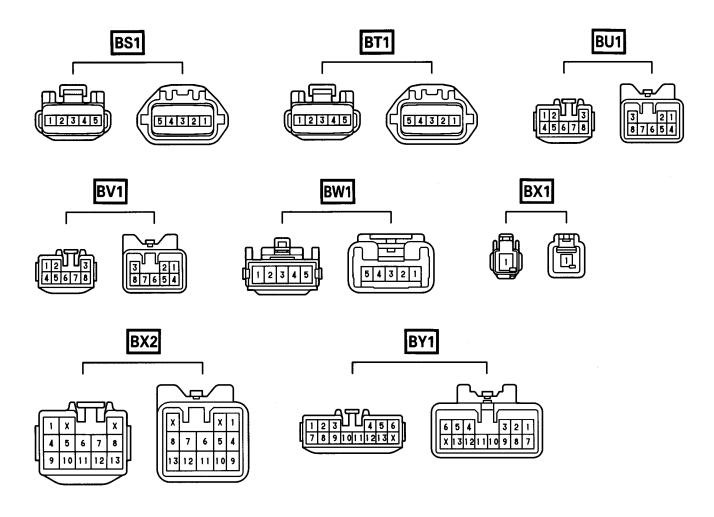
▽: Location of Ground Points





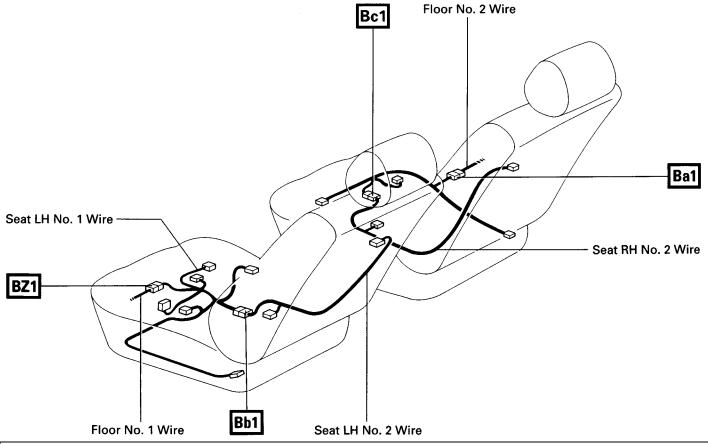


Connector Joining Wire Harness and Wire Harness

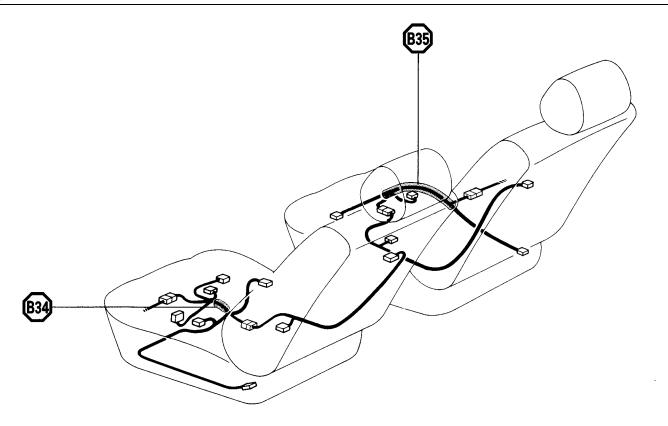


CODE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
BS1	MIRROR LH WIRE AND FRONT DOOR LH WIRE (FRONT LH DOOR INSIDE)
BT1	MIRROR RH WIRE AND FRONT DOOR RH WIRE (FRONT RH DOOR INSIDE)
BU1	REAR DOOR LH WIRE AND FLOOR NO. 1 WIRE (LEFT CENTER PILLAR)
BV1	REAR DOOR RH WIRE AND FLOOR NO. 2 WIRE (RIGHT CENTER PILLAR)
BW1	FUEL GAUGE WIRE AND FLOOR NO. 1 WIRE (UNDER THE REAR SEAT CUSHION)
BX1	ELOOP NO 4 MURE AND ELOOP NO CAMIRE (RELINID PACKAGE TRAY TRIA)
BX2	FLOOR NO. 1 WIRE AND FLOOR NO. 2 WIRE (BEHIND PACKAGE TRAY TRIM)
BY1	LUGGAGE ROOM WIRE AND FLOOR NO. 1 WIRE (LUGGAGE ROOM LEFT)

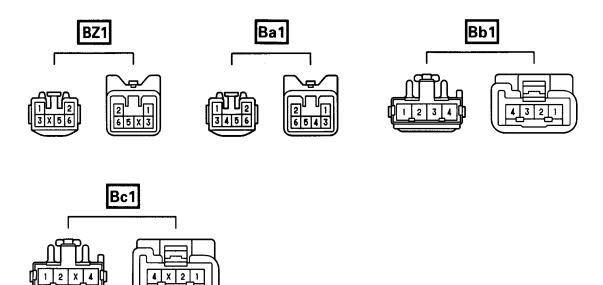
☐ : Location of Connector Joining Wire Harness and Wire Harness



: Location of Ground Points



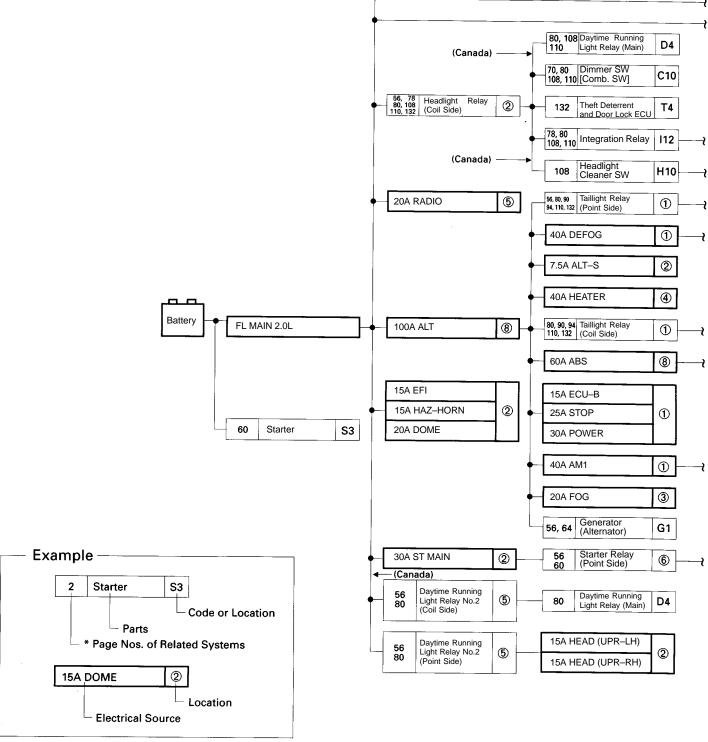
Connector Joining Wire Harness and Wire Harness



CODE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
BZ1	FLOOR NO. 1 WIRE AND SEAT LH NO. 1 WIRE (UNDER THE DRIVER'S SEAT)
Ba1	FLOOR NO. 2 WIRE AND SEAT RH NO. 1 WIRE (UNDER THE PASSENGER'S SEAT)
Bb1	SEAT LH NO. 2 WIRE AND SEAT LH NO. 1 WIRE (UNDER THE DRIVER'S SEAT)
Bc1	SEAT RH NO. 2 WIRE AND SEAT RH NO. 1 WIRE (UNDER THE PASSENGER'S SEAT)

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.

The next page and following pages show the parts to which each electrical source outputs current.

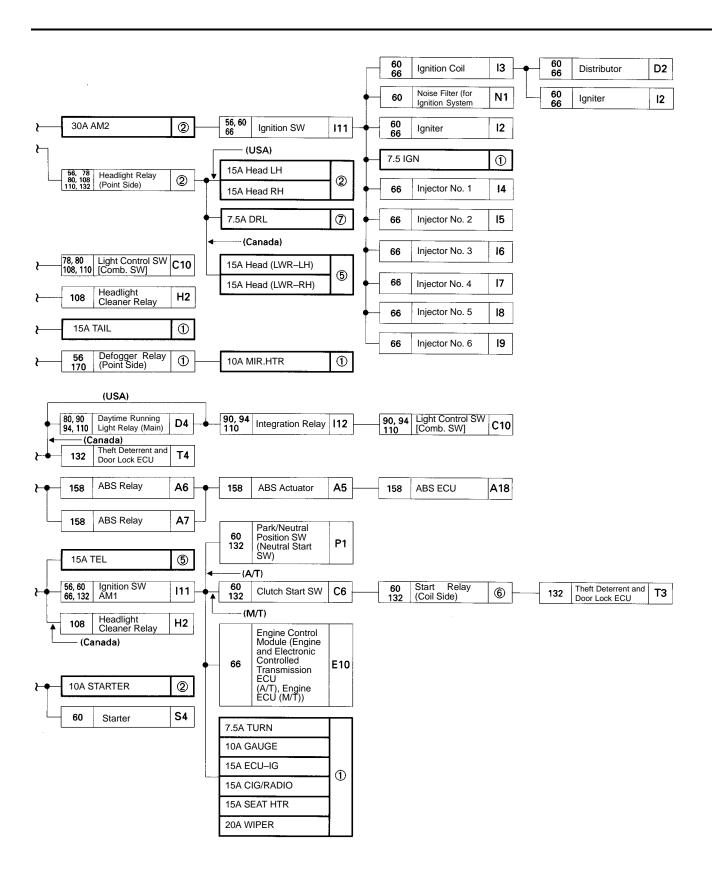


^{*} These are the page numbers of the first page on which the related system is shown.

[LOCATION] (1) : J/B No. 1 (See page 20) (2) : J/B No. 2 (See page 22) (3) : R/B No. 1 (See page 25)

(7): R/B No. 7 (See page 27) (8): Fuse Box (F7 See on page 28)

The part indicated is located somewhere in the system, not necessarily on the page indicated here.



(4) : R/B No. 4 (See page 25) (5) : R/B No. 5 (See page 26) (6) : R/B No. 6 (See page 26)

		*Page Nos. of Related Systems	198	1	58	170 198	94 169 198	198	15	58	198	182	106	192	198	60	163	94 169	158	150	64	192	86	163
Location		Parts Code or Location	A/C Magnetic Clutch and Lock Sensor	ABS Actuator	ABS Relay	A/C Control Assembly		A/C Power Transistor		700	Air Vent Mode Control Servo Motor	Auto Antenna Motor and Relay	Back-Up Light SW (M/T)	Brake Fluid Level SW	Blower Motor	Cold Start Injector	Center Airbag Sensor Assembly	Cigarette Lighter and Ashtray Illumination	ABS Warning Light [Comb. Meter]	A/T Indicator Light [Comb. Meter]	Charge Warning Light [Comb. Meter]	Combination Meter	Open Door Warning Light [Comb. Meter]	SRS Warning Light [Comb. Meter]
P		CB or Fuse	АЗ	A5	A7	A10	A12	A14	A18	A19	A23	A26	В1	B2	ВЗ	C1	C4	C5			C	7		
	10A	MIR-HTR	-																				I	
	15A	TAIL					•											•		1			1	
	15A	ECU-B					•		•								•					•		•
	15A	FOG																						
	20A	WIPER																						
	7.5A	TURN																						
	7.5A	IGN															•				•			
10	15A	CIG/RADIO					•		_			•		ļ			•	•		-			-	
	15A	ECU-IG	<u> </u>		_				•	_		•	_	<u> </u>				_		-	-	ļ		-
	10A	GAUGE STOP		•	•		•		•	•	•		•	•					•	•			+	
	25A 15A	SEAT HTR								•							1				-		1	\vdash
	30A	POWER																			-		1	-
	40A	DEFOG															<u> </u>					-	+-	-
	40A	AM1										-							I				1	+
	10A	STARTER														•								+
	15A	HEAD(RH)(USA)																			 		1	
	15A	HEAD(LH)(USA)																						
	15A	HEAD (UPR-RH)(Canada)																		1				
2	15A	HEAD (UPR-LH)(Canada)																						
	7.5A	ALT-S																						
	20A	DOME					•					•											•	
	15A	EFI																						
	15A	HAZ-HORN																						
3	20A	FOG																						
4	40A	HEATER				•		•							•									
	15A	HEAD (LWR-LH)(Canada)																						
⑤	15A	HEAD (LWR-RH)(Canada)	<u> </u>	ļ																			<u> </u>	$oxed{oxed}$
"	15A	TEL	<u> </u>																				<u> </u>	igsqcut
	20A	RADIO											<u> </u>								ļ		_	
7	7.5A	DRL	ars of																			L		

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

The part indicated is located somewhere in the system, not necessarily on the page indicated here.

[LOCATION] (1) : J/B No. 1 (See page 20) (2) : J/B No. 2 (See page 22) (3) : R/B No. 1 (See page 25)

(7) : R/B No. 7 (See page 27) (8) : Fuse Box (F7 See on page 28)

64 100	94 142 144 192	144	66	86	150	90 103	125	150	192	78 80	100	78	80 98	177	80 94	100	112	76	144	170	66 158 163	66 144 150 163	80 94 192		8	6	
Turn Signal Indicator Light LH [Comb. Meter]	Combination Meter	Cruise Control Indicator Light [Comb. Meter]	Malfunction Indicator Lamp (Check Engine Warning Light) [Comb. Meter]	Open Door Indicator Light [Comb. Meter]	O/D Off Indicator Light [Comb. Meter]	Rear Light Warning Light [Comb. Meter]	Seat Belt Warning Light [Comb. Meter]	A/T Indicator Light [Comb. Meter]	Combination Meter	High Beam Indicator Light [Comb. Meter]	Turn Signal Indicator Light RH [Comb. Meter]	Dimmer SW [Comb. SW]	Fog Light SW [Comb. SW]	Horn SW [Comb. SW]	Light Control SW [Comb. SW]	Turn Signal SW [Comb. SW]	Wiper and Washer SW [Comb. SW]	Cooling Fan ECU	Cruise Control ECU	Choke Coil	Data Link Connector 1 (Check Connector)	Data Link Connector 2 (TDCL)	Daytime Running Light Relay (Main)	Diode	Door Courtesy Light Front LH	Door Courtesy Light Front RH	Door Courtesy SW Light Front LH
C7			C8						C9					C10				C12	C14	C17	D1	D3	D4	D6	D7	D8	D9
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(4) : R/B No. 4 (See page 25) (5) : R/B No. 5 (See page 26) (6) : R/B No. 6 (See page 26)

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		*Page Nos. of Related Systems			8	0			192	150	66	150	150	198	98	8	1	00	132	192	192	9	4	108
Location		Parts Code or Location	Door Courtesy SW Front RH	Door Courtesy SW Rear LH	Door Courtesy SW Rear RH	Door Key Cylinder Light	Door Lock Motor, Door Unlock and Open Detection SW Front LH	Door Lock Motor, Door Unlock and Open Door Detection SW Front RH	Engine Oil Level Warning SW	Engine Control Module	(Engine and Electronic Controlled Transmission	(A/1), Engine ECU (M/1))	Electronic Controlled Transmission Pattern Select SW	Extra High Speed Relay	Front Fog Light LH	Front Fog Light RH	Front Turn Signal and Clearance Light LH	Front Turn Signal and Clearance Light RH	Fuel Lid Opener Motor	Fuel Pump and Sender	Generator (Alternator)	Glove Box Light	Glove Box Light SW	Headlight Cleaner Motor
Coc		CB or Fuse	D10	D11	D12	D14	D18	D19	E6	E7	E9	E10	E11	E12	F3	F4	F5	F6	F14	F15	G2	G3	G4	H1
\vdash	10A	MIR-HTR																\vdash						\dashv
	15A	TAIL											•			<u>.</u>	•	•	-			•	•	
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	25A	STOP										•												
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	40A	DEFOG																						
	40A	AM1																						•
	10A	STARTER										•						l						
	15A	HEAD(RH)(USA)																						
	15A	HEAD(LH)(USA)																						
	15A	HEAD (UPR-RH)(Canada)								,														
2	15A	HEAD (UPR-LH)(Canada)																						
	7.5A	ALT-S																			•			
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	15A	EFI								•	•	•								•				
	15A	HAZ-HORN															•	•						
3	20A	FOG													•	•								
4	40A	HEATER											<u> </u>	•			ļ							
	15A	HEAD (LWR-LH)(Canada)										<u> </u>	<u> </u>				<u> </u>	<u> </u>						
⑤	15A	HEAD (LWR-RH)(Canada)												ļ		L		_	ļ					
"	15A	TEL																						
	20A	RADIO																						
7	7.5A	DRL																						

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

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[LOCATION] (1) : J/B No. 1 (See page 20) (2) : J/B No. 2 (See page 22) (3) : R/B No. 1 (See page 25)

 $_{(7)}$: R/B No. 7 (See page 27) $_{(8)}$: Fuse Box (F7 See on page 28)

108		78	8		1	77	94 100	94	66	103	66	192	86	80 94	86	90 103	132	8	36	172	86	172	192	94 150	106 150	142	192	86
Headlight Cleaner Relay	Headlight Hi LH	Headlight Hi RH	Headlight Lo LH	Headlight Lo RH	Horn LH	Horn RH	Hazard SW	Headlight Cleaner SW	Heated Oxygen Sensor (Oxygen Sensor) (Sub)	High Mount Stop Light	Idle Air Control Valve (ISC Valve)	lgniter	Ignition Key Cylinder Light	Integration Relay	Interior Light	Light Failure Sensor	Luggage Compartment Door and Fuel Lid Opener SW	Luggage Compartment Light	Luggage Compartment Light SW	Moon Roof Control Relay	Moon Roof Control SW and Personal Light (w/ Moon Roof)	Moon Roof Motor	Oil Pressure SW	O/D Main SW and A/T Indicator Light (Shift Lever)	Park/Neutral Position SW (Neutral Start SW) (A/T)	PPS ECU	Parking Brake SW	Personal Light (w/o Moon Roof)
H2	НЗ	H4	H5	H6	H7	Н8	Н9	H10	H11	H12	l1	12	l10	l12	l13	L2	L4	L6	L7	M1	M2	M4	01	04	P1	P3	P4	P5
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^{(4) :} R/B No. 4 (See page 25) (5) : R/B No. 5 (See page 26) (6) : R/B No. 6 (See page 26)

		*Page Nos. of Related Systems				1	16							12	22				94 182 184 188	140	g	14	106	90
Location		Parts Code or Location	Power Window Control SW Front RH	Power Window Control SW Rear LH	Power Window Control SW Rear RH	Power Window Master SW and Door Lock Control SW	Power Window Control Front LH	Power Window Motor Front RH	Power Window Motor Rear LH	Power Window Motor Rear RH	Power Seat Control SW (for Driver's Seat)	Power Seat Control SW (for Passenger's Seat)	Power Seat Motor (for Driver's Seat Front Vertical Control)	Power Seat Motor (for Driver's Seat Rear Vertical Control)	Power Seat Motor (for Driver's Seat Reclining Motor Control)	Power Seat Motor (for Driver's Seat Slide Control)	Power Seat Motor (for Passenger's Seat Reclining Control)	Power Seat Motor (for Passenger's Seat Sliding Control)	Radio and Player	Remote Control Mirror SW	Rheostat	Rheostat Volume and Theft Deterrent Indicator Light	Back-Up Light LH [Rear Comb. Light LH]	License Plate Light LH [Rear Comb. Light LH]
Loc		CB or Fuse	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	R1	R3	R4	R5	F	₹6
-	10A	MIR-HTR				_							\vdash										┢	
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	10A	STARTER																						
	15A	HEAD(RH)(USA)																						
	15A	HEAD(LH)(USA)																						
	15A	HEAD (UPR-RH)(Canada)																						
2	15A	HEAD (UPR-LH)(Canada)																						
	7.5A	ALT-S																						
	20A	DOME																						
	15A_	EFI																						
	15A	HAZ-HORN																						
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	15A	HEAD (LWR-RH)(Canada)																						
(5)	15A	TEL																						
	20A	RADIO																	•					
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[LOCATION] (1) : J/B No. 1 (See page 20) (2) : J/B No. 2 (See page 22) (3) : R/B No. 1 (See page 25)

100	103	90	106	90	100	103	90	170	14 17	10 70	60	12	94 20	156	192	184 188	182 184 188	103,144 150,156 158		12	20		132	86,116 128,132 172	132	192
Rear Turn Signal Light LH [Rear Comb. Light LH]	Stop Light LH [Rear Comb. Light LH]	Taillight LH [Rear Comb. Light LH]	Back-Up Light RH [Rear Comb. Light RH]	License Plate Light RH [Rear Comb. Light RH]	Rear Turn Signal Light RH [Rear Comb. Light RH]	Stop Light RH [Rear Comb. Light RH]	Taillight RH [Rear Comb. Light RH]	Rear Window Defogger (+)	Remote Control Mirror and Mirror Heater LH	Remote Control Mirror and Mirror Heater RH	Start Injector Time SW	Seat Heater SW (Driver's)	Seat Heater SW (Passenger's)	Shift Lock ECU	Short Connector	Stereo Component	Amplifier	Stop Light SW	Seat Heater LH (for Seat Back)	Seat Heater LH (for Seat Cushion)	Seat Heater RH (for Seat Back)	Seat Heater RH (for Seat Cushion)	Theft Deterrent Horn	Theft Deterrent and Door Lock ECU		Trip SW
	R6				R7			R10	R12	R13	S2	S5	S6	S7	S8	S10	S11	S12	S13	S14	S15	S16	T1	T3	T4	T5
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(4) : R/B No. 4 (See page 25) (5) : R/B No. 5 (See page 26) (6) : R/B No. 6 (See page 26)

		*Page Nos. of Related Systems	178	(66	66 142 150 192	66	86	6	112	192		112		12	28	56 170	86	86 110 125	170	56 116 172	66 150	132 177	80 98
Location		Parts Code or Location	Telephone Transceiver and Speaker Relay	VSV (for Fuel Pressure Up)	VSV (for Intake Air Control)	Vehicle Speed Sensor (Speed Sensor)	Volume Air Flow (Air Flow Meter)	Vanity Light LH	Vanity Light RH	Washer Motor	Water Temp. Sender	Wiper Angle Control Motor	Wiper Motor	Wiper Control Relay	Wireless Door Lock Main SW	Wireless Door Lock ECU	Defogger Relay	Diode	Integration Relay	Noise Filter	Power Main Relay	EFI Main Relay	Horn Relay	Fog Light Relay
۱ĕ		CB or Fuse	T7	V1	V2	V3	V5	V6	V7	W1	W2	W3	W4	W5	W6	W7			1			(2)	3
	10A	MIR-HTR																					П	\Box
1	15A	TAIL																					\vdash	\Box
1	15A	ECU-B																		_				
	15A	FOG																		-				
	20A	WIPER								•		•	•	•										
	7.5A	TURN																				-		
	7.5A	IGN					•													-		•		
1	15A	CIG/RADIO																						
1	15A	ECU-IG	•																					
	10A	GAUGE				•					•						•		•					
	25A	STOP																						
	15A	SEAT HTR																						
	30A	POWER									_										•			
	40A	DEFOG															•			•				
	40A	AM1																						
	10A	STARTER																						
	15A	HEAD(RH)(USA)																						
	15A	HEAD(LH)(USA)																						
	15A	HEAD (UPR-RH)(Canada)																						
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	15A	HAZ-HORN																					•	
3	20A	FOG						-															Ш	•
4	40A	HEATER																					\sqcup	
	15A	HEAD (LWR-LH)(Canada)																					 	•
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	20A	RADIO																					Ш	
7	7.5A	DRL																						

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

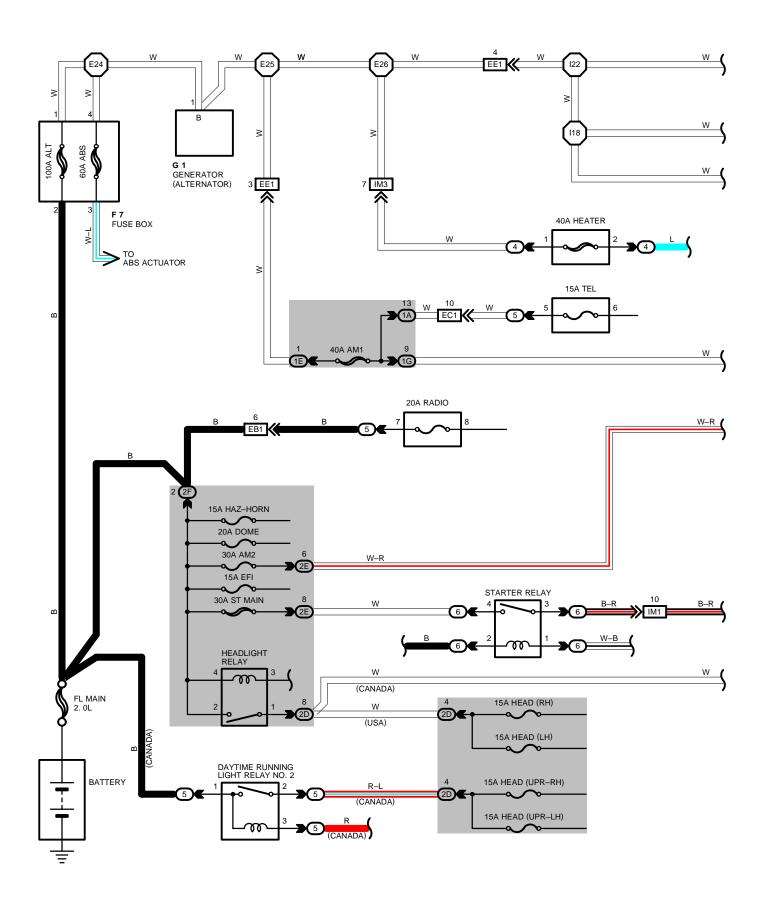
The part indicated is located somewhere in the system, not necessarily on the page indicated here.

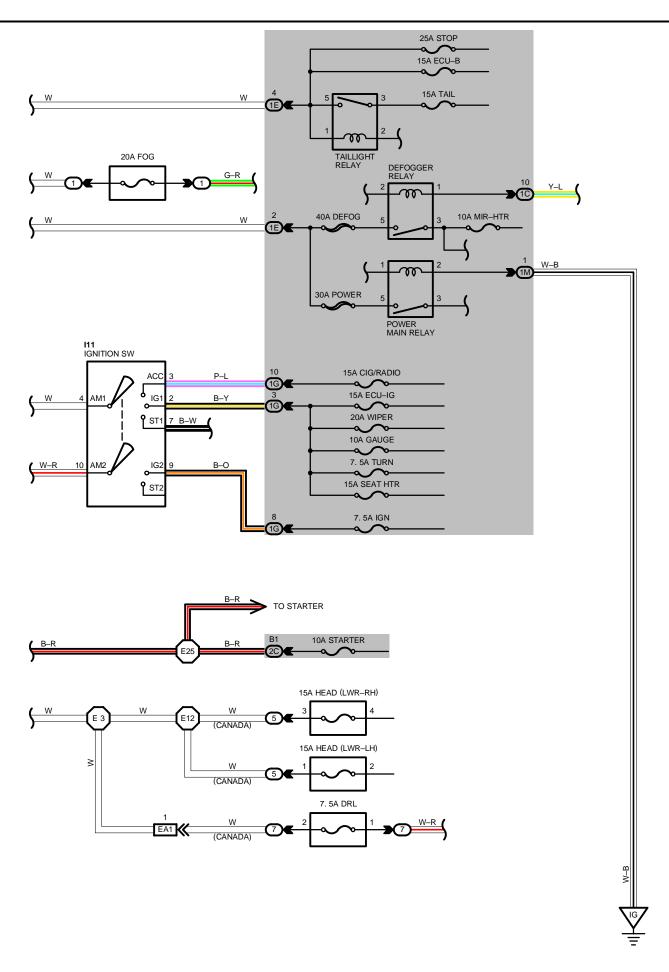
[LOCATION] (1) : J/B No. 1 (See page 20) (2) : J/B No. 2 (See page 22) (3) : R/B No. 1 (See page 25)

 $_{(7)}$: R/B No. 7 (See page 27) $_{(8)}$: Fuse Box (F7 See on page 28)

			_		
1	98	66	100	8	30
(A) Heater Main Relay	(g) A/C Magnetic Clutch Relay	Circuit Opening Relay	Turn Signal Flasher	Daytime Running Light Relay No.3	Daytime Running Light Relay No.4
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(4) : R/B No. 4 (See page 25) (5) : R/B No. 5 (See page 26) (6) : R/B No. 6 (See page 26)





POWER SOURCE

SERVICE HINTS -

TAILLIGHT RELAY

5-3 : CLOSED WITH LIGHT CONTROL SW AT TAIL OR HEAD POSITION

CLOSED WITH ENGINE RUNNING AND PARKING BRAKE LEVER RELEASED (CANADA)

HEADLIGHT RELAY

2-1: CLOSED WITH LIGHT CONTROL SW AT **HEAD** POSITION OR DIMMER SW AT **FLASH** POSITION

: CLOSED WITH ENGINE RUNNING AND PARKING BRAKE LEVER RELEASED (CANADA)

111 IGNITION SW

4–3 : CLOSED WITH IGNITION KEY AT **ACC** OR **ON** POSITION 10–9, 4–2 : CLOSED WITH IGNITION KEY AT **ON** OR **ST** POSITION

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
F 7	28	G 1	28	I11	31

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
1	25	R/B NO. 1 (LEFT KICK PANEL)
4	25	R/B NO. 4 (RIGHT KICK PANEL)
5	26	R/B NO. 5 (ENGINE COMPARTMENT LEFT)
6	26	R/B NO. 6 (BEHIND GLOVE BOX)
7	27	R/B NO. 7 (NEAR THE BATTERY)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1A		
1C		
1E	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1G		
1M		
2C	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2D	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2F	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)		
EA1	34	ENGINE ROOM MAIN WIRE AND RELAY WIRE (UNDER THE R/B NO. 7)		
EB1	34	ENGINE WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)		
EC1	34	COWL WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)		
EE1	34	ENGINE WIRE AND COWL WIRE (NEAR THE BRAKE MASTER CYLINDER)		
IM1	20	ENCINE WIDE AND COW! WIDE /! INDED THE CLOVE POV		
IM3	38	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)		

: GROUND POINTS

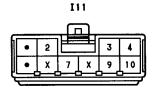
CODE	SEE PAGE	GROUND POINTS LOCATION
IG	36	INSTRUMENT PANEL BRACE LH

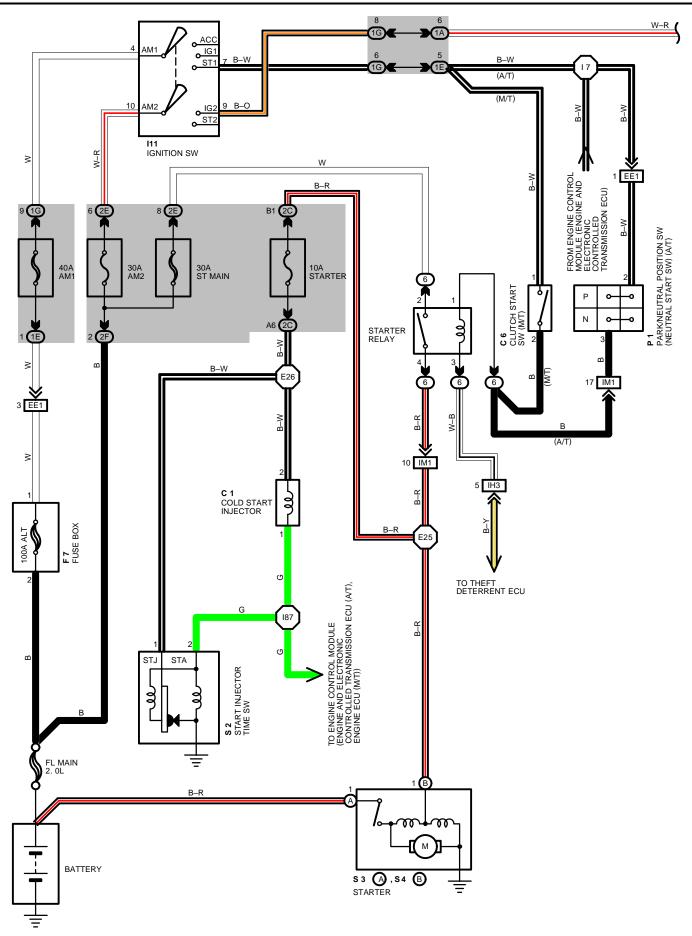
: SPLICE POINTS

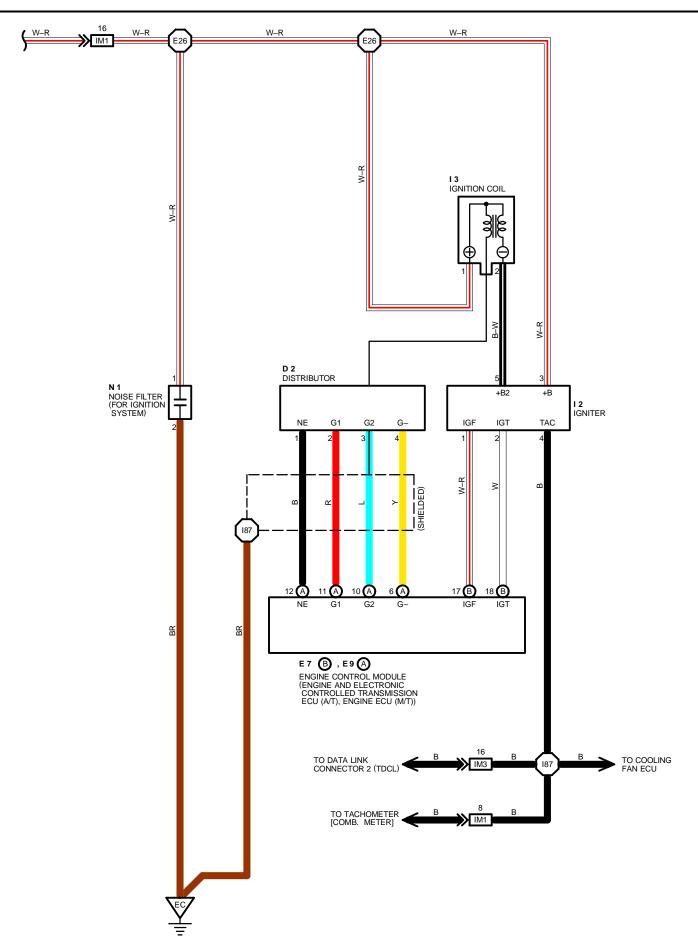
_					
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 3	24	ENGINE ROOM MAIN WIRE	E 26	34	ENGINE WIRE
E 12	34		I 18	20	COMUNATE
E 24	- 34	ENGINE WIRE	122	38	COWL WIRE
E 25	- O-				











STARTING AND IGNITION

SERVICE HINTS

111 IGNITION SW

4-7 : CLOSED WITH IGNITION SW AT **ST** POSITION

10-9 CLOSED WITH IGNITION SW AT ON OR ST POSITION

C 6 CLUTCH START SW (M/T)

1-2 : CLOSED WITH CLUTCH PEDAL FULLY DEPRESSED

STARTER RELAY

(6) 4- (6) 2: CLOSED WITH CLUTCH START SW ON AND IGNITION SW AT ST POSITION (M/T)

CLOSED WITH IGNITION SW AT ST POSITION (A/T)

S 3(A), S 4(B) STARTER

POINTS CLOSED WITH CLUTCH START SW ON AND IGNITION SW AT **ST** POSITION

P 1 PARK/NEUTRAL POSITION SW (NEUTRAL START SW) (A/T)

2-3 : CLOSED WITH A/T SHIFT LEVER IN P OR N POSITION

C1 COLD START INJECTOR

2-1: APPROX. 12 VOLTS WHILE START INJECTOR TIME SW IS CLOSED AND STARTER CRANKING

S 2 START INJECTOR TIME SW

POINTS OPEN ABOVE 35°C (95°F)

2-1 : APPROX. **20-40** BELOW **30**°C (**86**°F) 2-1 : APPROX. **40-60** ABOVE **40**°C (**104**°F)

2-GROUND: APPROX. 20-80

: PARTS LOCATION

CO	DE	SEE PAGE	CODE	SEE PAGE	CODE		SEE PAGE
С	1	28	F 7	28	P 1		29
С	6	30	12	29	S 2		29
D	2	28	13	29	S 3	Α	29
E 7	В	30	I11	31	S 4	В	29
E 9	Α	30	N 1	29			

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
6	26	R/B NO. 6 (BEHIND GLOVE BOX)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1A		
1E	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1G		
2C	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2F	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)

] : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

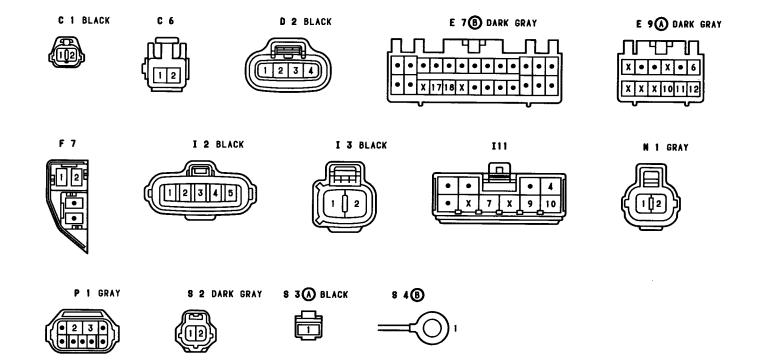
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)	
EE1	34	ENGINE WIRE AND COWL WIRE (NEAR THE BRAKE MASTER CYLINDER)	
IH3	36	COWL WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)	
IM1	20	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)	
IM3	30	ENGINE WIKE AND COWL WIKE (UNDER THE GLOVE BOX)	

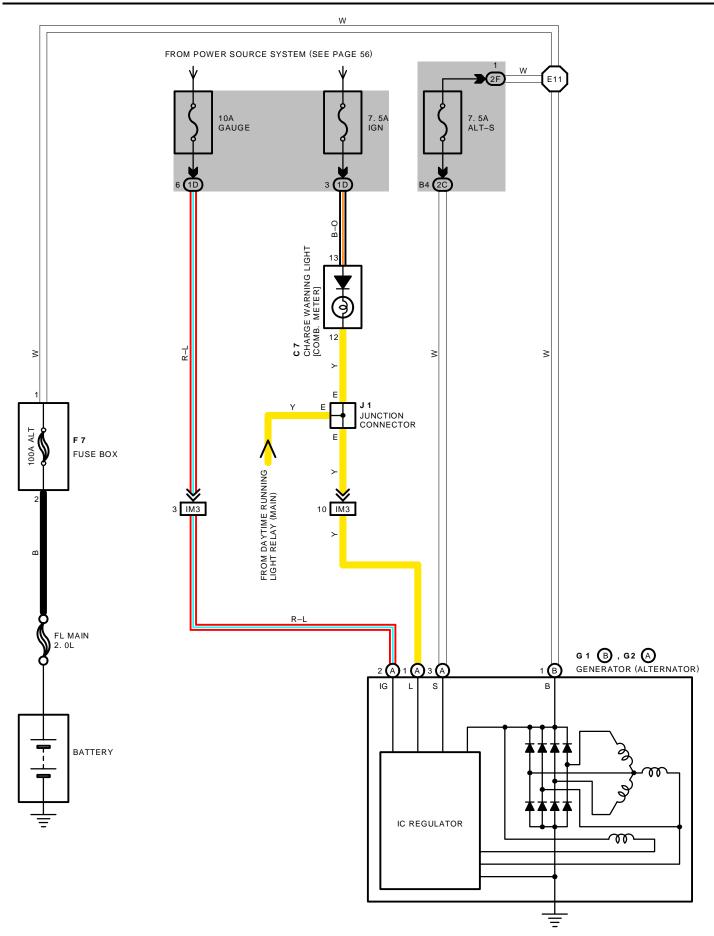
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EC	34	INTAKE MANIFOLD RH

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	NTS CODE SEE PAGE		WIRE HARNESS WITH SPLICE POINTS
E 25	24	ENGINE WIRE	I 7	38	INSTRUMENT PANEL WIRE
E 26	J-		187	38	ENGINE WIRE





— SERVICE HINTS —

G 2(A) GENERATOR (ALTERNATOR)

(A) 1-GROUND: 13.9-15.1 VOLTS WITH ENGINE RUNNING AT 2000 RPM AND 25°C (77°F)

13.5-14.3 VOLTS WITH ENGINE RUNNING AT 2000 RPM AND 115°C (239°F)

(A) 2-GROUND: 0-4 VOLTS WITH IGNITION SW AT ON POSITION AND ENGINE NOT RUNNING

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 7	30	G1 B	28	J1	31
F 7	28	G 2 A	28		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)		
1D	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)		
2C	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		
2F	22	ENGINE WIRE AND JIB NO. 2 (ENGINE COMPARTMENT LET 1)		

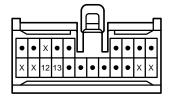
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

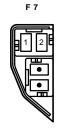
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)	
IM3	38	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)	

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 11	34	ENGINE WIRE			

C 7 GRAY

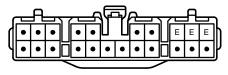




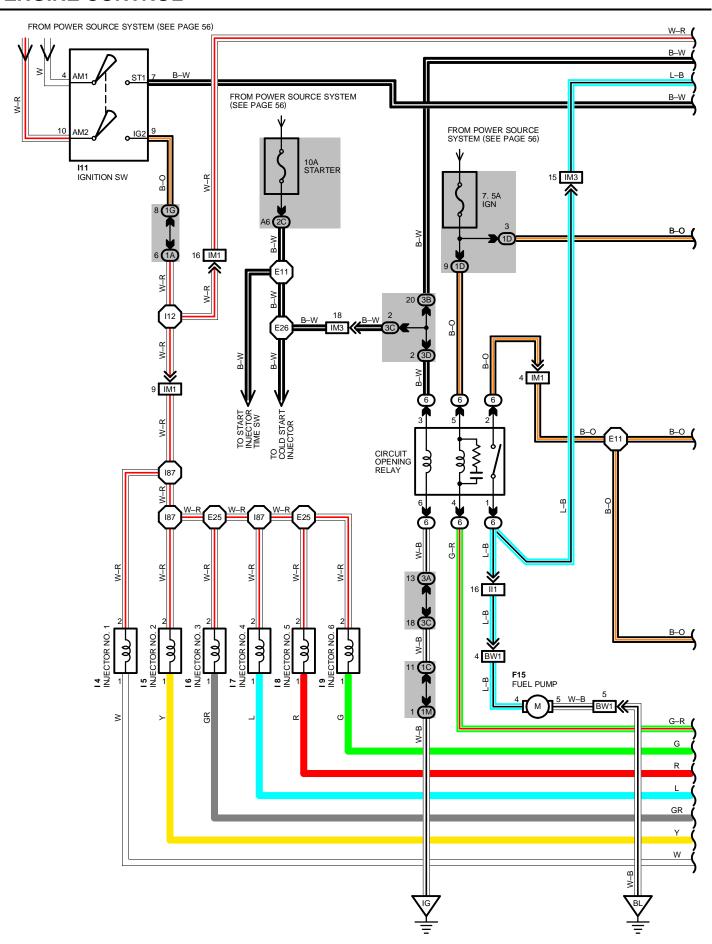


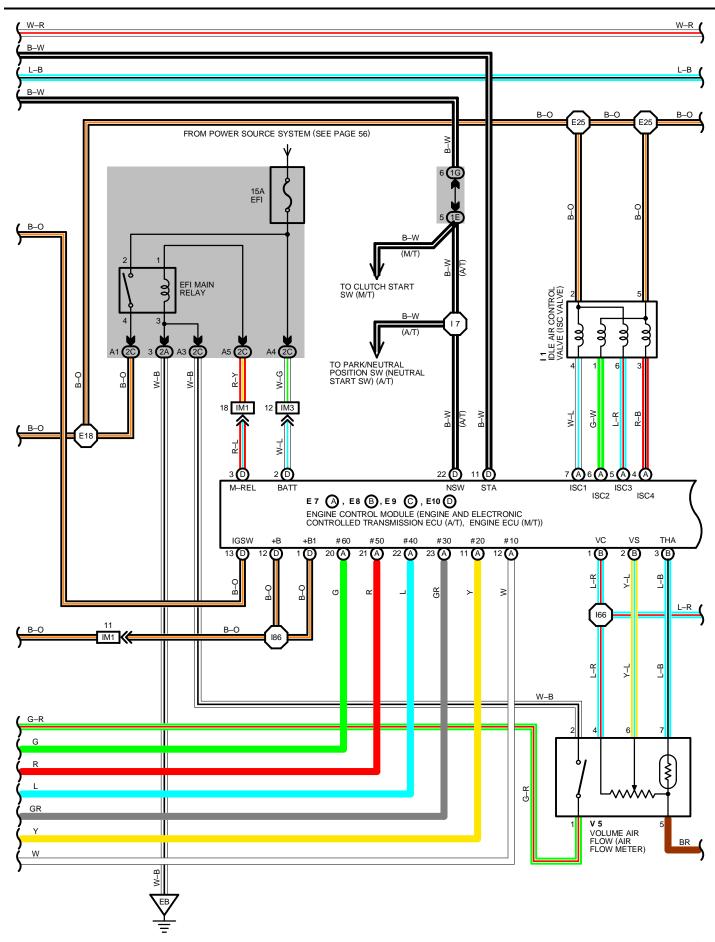


J1 DARK GRAY

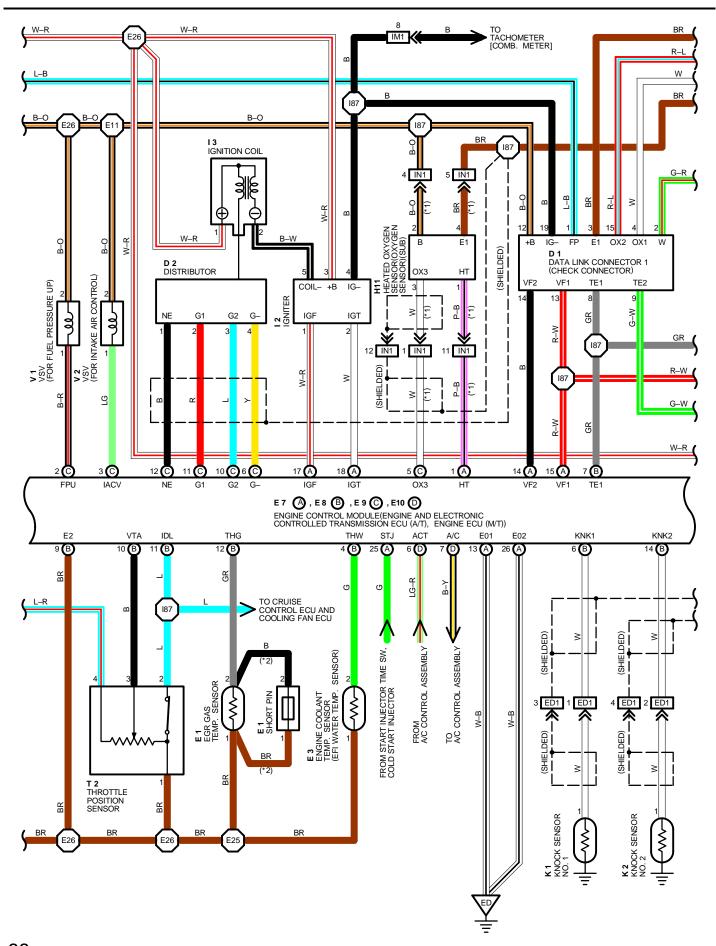


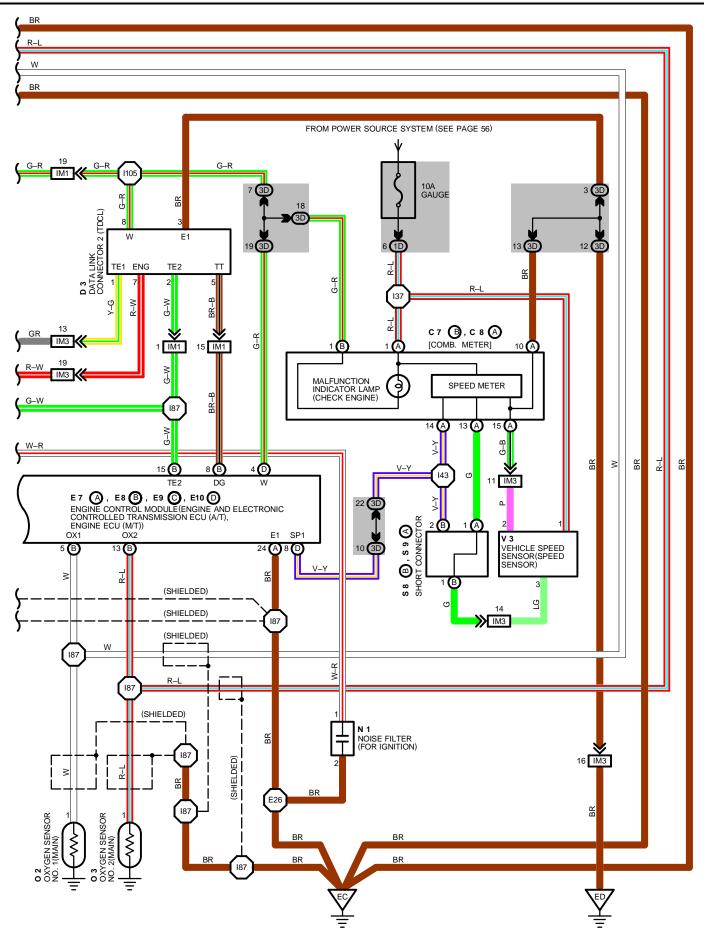
(HINT : SEE PAGE 7)





ENGINE CONTROL





ENGINE CONTROL

SYSTEM OUTLINE

THIS SYSTEM UTILIZES AN ENGINE CONTROL MODULE (ENGINE AND ELECTRONIC CONTROLLED TRANSMISSION ECU (A/T), ENGINE ECU (M/T)) AND MAINTAINS OVERALL CONTROL OF THE ENGINE, TRANSMISSION AND SO ON. AN OUTLINE OF THE ENGINE CONTROL IS EXPLAINED HERE.

1. INPUT SIGNALS

- (1) ENGINE COOLANT TEMP. (WATER TEMP.) SIGNAL CIRCUIT
 - THE ENGINE COOLANT TEMP. SENSOR (WATER TEMP. SENSOR) DETECTS THE ENGINE COOLANT TEMP. AND HAS A BUILT-IN THERMISTOR WITH A RESISTANCE WHICH VARIES ACCORDING TO THE WATER TEMP. IS INPUT INTO **TERMINAL THW** OF ENGINE CONTROL MODULE (ECU) AS A CONTROL SIGNAL.
- (2) INTAKE AIR TEMP. SIGNAL CIRCUIT
 - THE INTAKE AIR TEMP. SENSOR IS INSTALLED IN THE VOLUME AIR FLOW (AIR FLOW METER) AND DETECTS THE INTAKE AIR TEMP., WHICH IS INPUT AS A CONTROL SIGNAL TO **TERMINAL THA** OF ENGINE CONTROL MODULE (ECU).
- (3) OXYGEN SENSOR SIGNAL SYSTEM
 - THE OXYGEN DENSITY IN THE EXHAUST GASES IS DETECTED AND INPUT AS A CONTROL SIGNAL TO **TERMINAL OX1, OX2** AND **OX3** (FOR CALIFORNIA) OF THE ENGINE CONTROL MODULE (ECU). TO MAINTAIN STABLE DETECTION PERFORMANCE BY THE OXYGEN SENSOR, A HEATER IS USED FOR WARMING THE SENSOR. THE HEATER IS ALSO CONTROLLED BY THE ENGINE CONTROL MODULE (ECU) (HT).
- (4) RPM SIGNAL SYSTEM
 - CRANKSHAFT POSITION AND ENGINE RPM ARE DETECTED BY THE PICK-UP COIL INSTALLED INSIDE THE DISTRIBUTOR. CRANKSHAFT POSITION IS INPUT AS A CONTROL SIGNAL TO **TERMINALS G1** AND **G2** 0F THE ENGINE CONTROL MODULE (ECU), AND ENGINE RPM IS INPUT TO **TERMINAL NE**.
- (5) THROTTLE 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 (ECU). WHEN THE VALVE IS COMPLETELY CLOSED, THE CONTROL SIGNAL IS INPUT INTO **TERMINAL IDL**.
- (6) VEHICLE SPEED SIGNAL SYSTEM
 - THE VEHICLE SPEED SENSOR (SPEED SENSOR), INSTALLED INSIDE THE COMBINATION METER, DETECTS THE VEHICLE SPEED AND INPUTS A CONTROL SIGNAL TO **TERMINAL SPD** OF THE ENGINE CONTROL MODULE (ECU).
- (7) PARK/NEUTRAL POSITION SW (NEUTRAL START SW) SIGNAL SYSTEM (A/T)
 - THE PARK/NEUTRAL POSITION SW (NEUTRAL START SW) DETECTS WHETHER THE SHIFT POSITION ARE IN NEUTRAL AND PARKING OR NOT, AND INPUTS A CONTROL SIGNAL TO **TERMINAL NSW** OF THE ENGINE CONTROL MODULE (ECU).
- (8) A/C SW SIGNAL SYSTEM
 - THE A/C AMPLIFIER INPUTS THE A/C OPERATIONS TO **TERMINAL A/C** OF THE ENGINE CONTROL MODULE (ECU) AS A CONTROL SIGNAL.
- (9) BATTERY SIGNAL CIRCUIT
 - VOLTAGE IS CONSTANTLY APPLIED TO **TERMINAL BATT** OF THE ENGINE CONTROL MODULE (ECU). WHEN THE IGNITION SW TURNED ON, VOLTAGE FOR ENGINE CONTROL MODULE (ECU) START-UP POWER SUPPLY IS APPLIED TO **TERMINALS +B** AND **+B1** OF ENGINE CONTROL MODULE (ECU) VIA EFI MAIN RELAY.
- (10) INTAKE AIR VOLUME SIGNAL CIRCUIT
 - INTAKE AIR VOLUME IS DETECTED BY THE VOLUME AIR FLOW (AIR FLOW METER) AND THE SIGNAL IS INPUT TO **TERMINAL VS** OF THE ENGINE CONTROL MODULE (ECU). AS A CONTROL SIGNAL.
- (11) STA SIGNAL CIRCUIT
 - TO CONFIRM WHETHER THE ENGINE IS CRANKING, THE VOLTAGE APPLIED TO THE STARTER MOTOR DURING CRANKING IS DETECTED AND THE SIGNAL IS INPUT INTO **TERMINAL STA** OF THE ENGINE CONTROL MODULE (ECU) AS A CONTROL SIGNAL.
- (12) ENGINE KNOCK SIGNAL CIRCUIT
 - ENGINE KNOCKING IS DETECTED BY THE KNOCK SENSOR NO. 1 AND NO. 2 AND THE SIGNAL IS INPUT INTO **TERMINALS** KNK1 AND KNK2 AS A CONTROL SIGNAL.

2. CONTROL SYSTEM

* SFI (SEQUENTIAL MULTIPORT FUEL INJECTION) (EFI (ELECTRONIC FUEL INJECTION) SYSTEM

THE EFI SYSTEM MONITORS THE ENGINE CONDITION THROUGH THE SIGNALS INPUT FROM EACH SENSOR (INPUT SIGNALS FROM (1) TO (12) ETC.). THE BEST FUEL INJECTION VOLUME IS DECIDED BASED ON THIS DATA AND THE PROGRAM MEMORIZED BY THE ENGINE CONTROL MODULE (ECU), AND THE CONTROL SIGNAL IS OUTPUT TO **TERMINALS #10**, #20, #30, #40, #50 AND #60 OF THE ENGINE CONTROL MODULE (ECU) TO OPERATE THE INJECTOR (INJECT THE FUEL). THE EFI SYSTEM PRODUCES CONTROL OF FUEL INJECTION OPERATION BY THE ENGINE CONTROL MODULE (ECU) IN RESPONSE TO THE DRIVING CONDITIONS

* ESA (ELECTRONIC SPARK ADVANCE) SYSTEM

THE ESA SYSTEM MONITORS THE ENGINE CONDITION THROUGH THE SIGNALS INPUT TO THE ENGINE CONTROL MODULE (ECU) FROM EACH SENSOR (INPUT SIGNALS FROM (1), (3), (4) TO (12) ETC.). THE BEST IGNITION TIMING IS DECIDED ACCORDING TO THIS DATA AND THE MEMORIZED DATA IN THE ENGINE CONTROL MODULE (ECU) AND THE CONTROL SIGNAL IS OUTPUT TO TERMINAL IGT. THIS SIGNAL CONTROLS THE IGNITER TO PROVIDE THE BEST IGNITION TIMING FOR THE DRIVING CONDITIONS.

* HEATED OXYGEN SENSOR (OXYGEN SENSOR) HEATER CONTROL SYSTEM

THE OXYGEN SENSOR HEATER CONTROL SYSTEM TURNS THE HEATER ON WHEN THE INTAKE AIR VOLUME IS LOW (TEMP. OF EXHAUST EMISSIONS IS LOW), AND WARMS UP THE OXYGEN SENSOR (NO. 1 AND NO. 2) TO IMPROVE DETECTION PERFORMANCE OF THE SENSOR. THE ENGINE CONTROL MODULE (ECU) EVALUATES THE SIGNALS FROM EACH SENSOR (INPUT SIGNALS FROM (1), (4), (9) TO (10) ETC.), AND OUTPUT CURRENT TO **TERMINALS HT** AND CONTROL THE HEATER.

* IAC (IDLE AIR CONTROL (ISC)) SYSTEM

THE IAC (ISC) SYSTEM (STEP MOTOR TYPE) INCREASES THE RPM AND PROVIDES IDLING STABILITY FOR FAST IDLE—UP WHEN THE ENGINE IS COLD, AND WHEN THE IDLE SPEED HAS DROPPED DUE TO ELECTRICAL LOAD AND SO ON, THE ENGINE CONTROL MODULE (ECU) EVALUATES THE SIGNALS FROM EACH SENSOR (INPUT SIGNALS FROM (1), (4), (5), (8), (9) ETC.), OUTPUTS CURRENT TO **TERMINALS ISC1**, **ISC2**, **ISC3** AND **ISC4** TO CONTROL IDLE AIR CONTROL VALVE.

* EGR CONTROL SYSTEM

THE EGR CONTROL SYSTEM DETECTS THE SIGNAL FROM EACH SENSOR (INPUT SIGNALS FROM (1), (4), (9), (10), ETC)., AND OUTPUTS CURRENT TO **TERMINAL THG** TO CONTROL THE EGR VALVE.

* ACIS (ACOUSTIC CONTROL INDUCTION SYSTEM)

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.

THE ENGINE CONTROL MODULE (ECU) JUDGES THE ENGINE SPEED BY THE SIGNALS ((4), (5)) FROM EACH SENSOR AND OUTPUTS SIGNALS TO THE **TERMINAL IACV** TO CONTROL THE VSV (FOR OPENING AND CLOSING THE INTAKE CONTROL VALVE).

3. DIAGNOSIS SYSTEM

WITH THE DIAGNOSIS SYSTEM, WHEN THERE IS A MALFUNCTION IN THE ENGINE CONTROL MODULE (ECU) SIGNAL SYSTEM, THE MALFUNCTIONING SYSTEM IS RECORDED IN THE MEMORY. THE MALFUNCTIONING SYSTEM CAN BE FOUND BY READING THE CODE DISPLAYED BY THE MALFUNCTION INDICATOR LAMP (CHECK ENGINE WARNING LIGHT).

4. FAIL-SAFE SYSTEM

WHEN A MALFUNCTION HAS OCCURRED IN ANY SYSTEM, IF THERE IS A POSSIBILITY OF ENGINE TROUBLE BEING CAUSED BY CONTINUED CONTROL BASED ON THE SIGNALS FROM THAT SYSTEM, THE FAIL—SAFE SYSTEM EITHER CONTROLS THE SYSTEM BY USING DATA (STANDARD VALUES) RECORDED IN THE ENGINE CONTROL MODULE (ECU) MEMORY OR ELSE STOPS THE ENGINE.

SERVICE HINTS CIRCUIT OPENING RELAY 1-2: CLOSED WITH STARTER RUNNING OR MEASURING PLATE (VOLUME AIR FLOW (AIR FLOW METER)) OPEN **EFI MAIN RELAY** 2--4 : CLOSED WITH IGNITION SW AT ON OR ST POSITION V 5 VOLUME AIR FLOW (AIR FLOW METER) 1-2: CLOSED WITH STARTER RUNNING OR MEASURING PLATE OPEN 0.2 - 0.6K (MEASURING PLATE FULLY CLOSED) (MEASURING PLATE FULLY OPEN) 0.02 - 1.2K 0.2 - 0.4K 5-7: 10.0 - 20.0K (**-20**°C, **-4**°F) 4.0 - 7.0K (0°C, 32°F) 2.0 - 3.0K (20°C, 68°F) **0.9** - **1.3**K (40°C, 104°F) 0.4 - 0.7K (60°C, 140°F) E 1 ENGINE COOLANT TEMP. SENSOR (EFI WATER TEMP. SENSOR) 10.0 - 20.0K (**-20**°C, **-4**°F) 4.0 - 7.0K (0°C, 32°F) (20°C, 68°F) 2.0 - 3.0 K**0.9 - 1.3**K (40°C, 104°F) 04- 0.7K (60°C, 140°F) (80°C, 176°F) 0.2 - 0.4K E 7(A), E 8(B), E 9(C), E10 (D) ENGINE CONTROL MODULE (ENGINE AND ELECTRONIC CONTROLLED TRANSMISSION ECU (A/T), ENGINE ECU (M/T)) VOLTAGE AT ENGINE CONTROL MODULE (ENGINE AND ELECTRONIC CONTROLLED TRANSMISSION ECU (A/T), ENGINE ECU (M/T)) WARNING CONNECTOR BATT - E1 : ALWAYS 9.0 - 14.0 VOLTS IGSW - E1 : 9.0-14.0 VOLTS (IGNITION SW AT ON POSITION) M-REL-E1 : 9.0- 14.0 VOLTS (IGNITION SW AT ON POSITION) +B - E1 : 9.0 - 14.0 VOLTS (IGNITION SW AT ON POSITION) +B1 - E1 : 9.0 - 14.0 VOLTS (IGNITION SW AT ON POSITION) IDL - E2 : 9.0 - 14.0 VOLTS (IGNITION SW ON AND THROTTLE VALVE FULLY OPEN) 0 - 3.0 VOLTS (IGNITION SW ON AND THROTTLE VALVE FULLY CLOSED) VC - E2 : ALWAYS 5.5 VOLTS (IGNITION SW AT ON POSITION) VTA - E2 : 0.3 - 0.8 VOLTS (IGNITION SW ON AND THROTTLE VALVE FULLY CLOSED) 3.2 - 4.9 VOLTS (IGNITION SW ON AND THROTTLE VALVE FULLY OPEN) VS - E2 : 4.0 - 5.5 VOLTS (IGNITION SW AT ON POSITION) 2.0 - 4.0 VOLTS (ENGINE IDLING) : 0.5 - 3.4 VOLTS (IGNITION SW ON AND INTAKE AIR TEMP. 20°C, 68°F) THA - E2 THW - E2 : 0.2 - 1.0 VOLTS (ENGINE IDLING AND COOLANT TEMP. 80°C, 176°F) #10, #20, #30, #40, #50, #60 - E01: 9.0 - 14.0 VOLTS (IGNITION SW AT ON POSITION) PULSE GENERATION (ENGINE IDLING) IGT - E1: PULSE GENERATION (ENGINE IDLING) IGF - E1: 4.5-5.5 VOLTS (IGNITION SW AT ON POSITION) PULSE GENERATION (ENGINE IDLING) G1, G2 - G-: PULSE GENERATION (ENGINE IDLING) NE - G-: PULSE GENERATION (ENGINE IDLING) ISC1, ISC2, ISC3, ISC4 - E1: PULSE GENERATION (ENGINE IDLING AND A/C OPERATION) VF1, VF2 - E1: 1.8 - 3.2 VOLTS (MAINTAIN ENGINE SPEED AT 2500RPM FOR TWO MINUTES AFTER WARMING UP THEN RETURN TO IDLING) OX1, OX2 - E1: PULSE GENERATION (MAINTAIN ENGINE SPEED AT 2500RPM FOR TWO MINUTES AFTER WARMING UP) HT - E01: 9.0-14.0 VOLTS (ENGINE SPEED 4000 RPM, COOLANT TEMP. 20°C, 68°C OR HIGHER) BELOW 2.0 VOLTS (ENGINE IDLING) KNK1, KNK2 - E1: PULSE GENERATION (ENGINE IDLING) NSW - E1: 10.0- 14.0 VOLTS (IGNITION SW ON AND OTHER SHIFT POSITION IN P OR N POSITION) BELOW 3.0 VOLTS (IGNITION SW ON AND SHIFT POSITION IN P OR N POSITION) SP1 - E1: PULSE GENERATION (IGNITION SW ON AND ROTATE DRIVING WHEEL SLOWLY) TE1 - E1: 9.0- 14.0 VOLTS (IGNITION SW AT ON POSITION) TE2 - E1: 9.0-14.0 VOLTS (IGNITION SW AT ON POSITION) W - E1: BELOW 3.0 VOLTS (MULFUNCTION INDICATOR LAMP ON) 9.0-14.0 VOLTS (MULFUNCTION INDICATOR LAMP OFF AND ENGINE RUNNING) OD1 - E1: 4.5-5.5 VOLTS (IGNITION SW AT ON POSITION) A/C - E1: BELOW 3.0 VOLTS (A/C SW ON) 9.0- 14.0 VOLTS (A/C SW OFF) ACT - E1: 9.0- 14.0 VOLTS (A/C SW ON) 0- 1.5 VOLTS (A/C SW OFF) IACV - E01: 9.0-14.0 VOLTS (IGNITION SW AT ON POSITION) STA - E1: 6.0 VOLTS OR MORE (ENGINE CRANKING) STJ - E01: 9.0-14.0 VOLTS (ENGINE STARTING) 14,15,16,17,18,19 INJECTOR 1-2: APPROX. 13.4-14.2 T 2 THROTTLE POSITION SENSOR 3-1: 0.28-6.4K WITH CLEARANCE BETWEEN LEVER AND STOP SCREW 0MM (0 IN.) 2-1: LESS THAN 0.5K WITH CLEARANCE BETWEEN LEVER AND STOP SCREW 0.35 MM (0.014 IN.) WITH CLEARANCE BETWEEN LEVER AND STOP SCREW 0.7MM (0.028 IN.) 3-1: 2.0-11.6K WITH THROTTLE VALVE FULLY OPEN

O : PARTS LOCATION

CC	DE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 7	В	30	H11	31	K 2	29
C 8	Α	30	I1	29	N 1	29
D	1	28	12	29	02	29
D	2	28	13	29	03	29
D	3	31	14	29	\$8 B	31
E	1	28	15	29	S 9 A	31
E	3	28	16	29	T 2	29
E 7	Α	30	17	29	V 1	29
E 8	В	30	18	29	V 2	29
E 9	С	30	19	29	V 3	29
E10	D	30	l11	31	V 5	28
F.	15	32	K 1	29		

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
6	26	R/B NO. 6 (BEHIND GLOVE BOX)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)			
1A					
1C		COMI WIDE AND 1/D NO. 4 (INSTRUMENT DANIEL LEET)			
1D	20				
1E	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1G					
1M					
2A	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)			
2C	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)			
3A		COMI MIDE AND 1/D NO. 2 /DELIIND COMDINATION METED)			
3B	24				
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)			
3D					

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

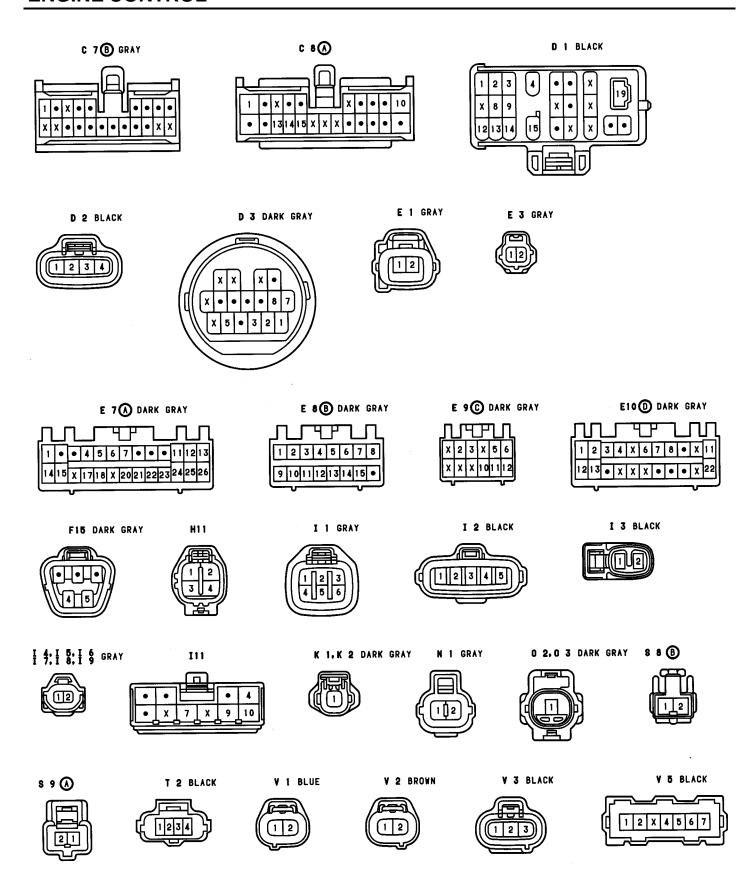
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)			
ED1	34	ENGINE WIRE AND SENSOR WIRE (SIDE OF FRONT CYLINDER HEAD)			
II1	36	FLOOR NO. 1 WIRE AND COWL WIRE (LEFT KICK PANEL			
IM1	38	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)			
IM3	30	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)			
IN1	38	ENGINE WIRE AND INSTRUMENT PANEL WIRE (UNDER THE GLOVE BOX)			
BW1	40	FUEL GAUGE WIRE AND FLOOR NO. 1 WIRE (UNDER THE REAR SEAT CUSHION)			

: GROUND POINTS

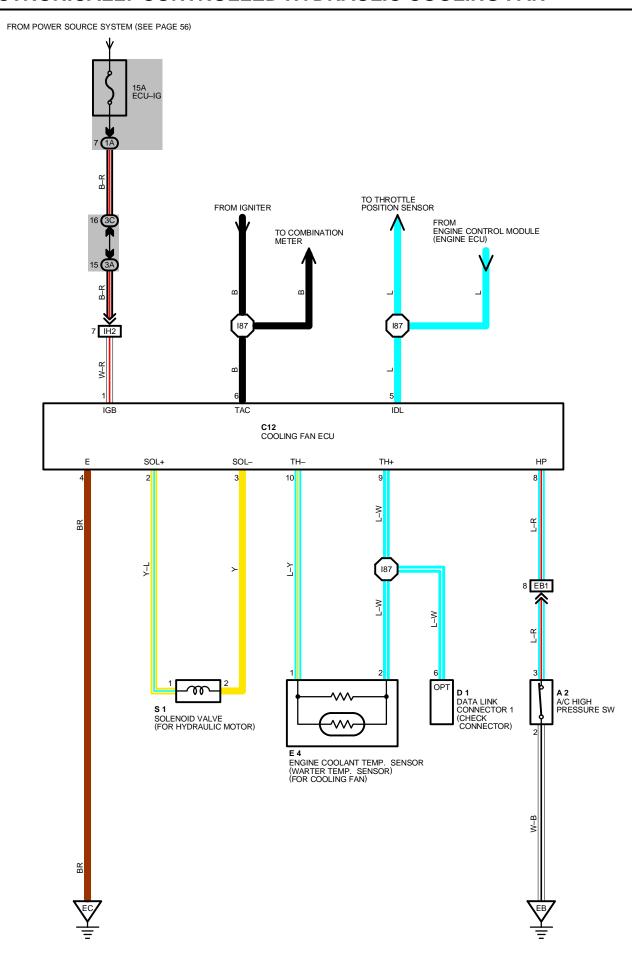
•		
CODE	SEE PAGE	GROUND POINTS LOCATION
EB	34	FRONT LEFT FENDER
EC	34	INTAKE MANIFOLD RH
ED	34	INTAKE MANIFOLD LH
IG	36	INSTRUMENT PANEL BRACE LH
BL	40	UNDER THE LEFT QUARTER PILLAR

: SPLICE POINTS

\smile					
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 11	34	ENGINE WIRE	137		
E 18	34	ENGINE ROOM MAIN WIRE	I 43	38	COWL WIRE
E 25	E 25 E 26	ENGINE WIRE	I 66		
E 26		ENGINE WIRE	I 86		
17	38	INSTRUMENT PANEL WIRE	I 87	00	ENOINE WIDE
l 12	38	COWL WIRE	I105	38	ENGINE WIRE



ELECTRONICALLY CONTROLLED HYDRAULIC COOLING FAN



THE COOLING FAN ECU RECEIVES VARIOUS SIGNALS, I.E., THE ENGINE RPM SIGNAL FROM THE IGNITOR, ENGINE IDLE SPEED SIGNAL FROM THE THROTTLE POSITION SENSOR, COOLANT TEMPERATURE SIGNAL FROM THE ENGINE COOLANT TEMP. SENSOR (WATER TEMP. SENSOR), A/C REFRIGERANT PRESSURE SIGNAL FROM A/C PRESSURE SW.

THE COOLING FAN ECU JUDGES THE ENGINE TEMPERATURE BASED ON THE ABOVE-MENTIONED SIGNALS FROM ABOVE MENTION, DRIVES THE SOLENOID VALVE AND CONTROLS THE SPEED OF THE COOLING FAN STEPLESSLY.

FAIL-SAFE FUNCTION

WHEN A MALFUNCTION IS DETECTED BY THE ENGINE COOLANT TEMP. SENSOR (WATER TEMP. SENSOR) OR SOLENOID VALVE. THE FAIL-SAFE FUNCTION OF THE COOLING FAN ECU EITHER RELIES ON THE DATA STORED IN ITS MEMORY TO ALLOW THE COOLING SYSTEM TO CONTINUE OPERATING.

SERVICE HINTS

A 2 A/C HIGH PRESSURE SW

2-3 : OPEN ABOVE APPROX. 15.58KG/CM² (221.2PSI, 1527KPA) CLOSED BELOW APPROX. 12.56 KG/CM² (178.4PSI, 1231KPA)

C12 COOLING FAN ECU

1-GROUND: APPROX. 10-14 VOLTS WITH THE IGNITION SW ON

9-10: 2.5 VOLTS AT 20°C (68°F) AND IGNITION SW ON 1.2 VOLTS AT 80°C (176°F) AND IGNITION SW ON 8-4: **10-14** VOLTS AT A/C PRESSURE SW ON (OPEN)

0-3 VOLTS AT A/C PRESSURE SW OFF (CLOSED)

4-GROUND: ALWAYS CONTINUITY

E 4 ENGINE COOLANT TEMP. SENSOR (WATER TEMP. SENSOR)

1-2: **1.5**K AT **80**°C (**176**°F) 0.7K AT 110°C (230°F)

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
A 2	28	D 1	28	S 1	29
C12	30	E 4	29		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1A	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
3A	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)
3C	24	GOWE WINE AND 3/D NO. 3 (BETTING GOMBINATION METER)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EB1	34	ENGINE WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)

: GROUND POINTS

Ī	CODE	SEE PAGE	GROUND POINTS LOCATION
	EB	34	FRONT LEFT FENDER
Ī	EC	34	INTAKE MANIFOLD RH

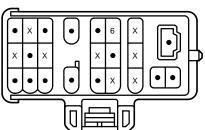
: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 87	38	ENGINE WIRE			





C12 GRAY

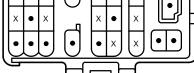


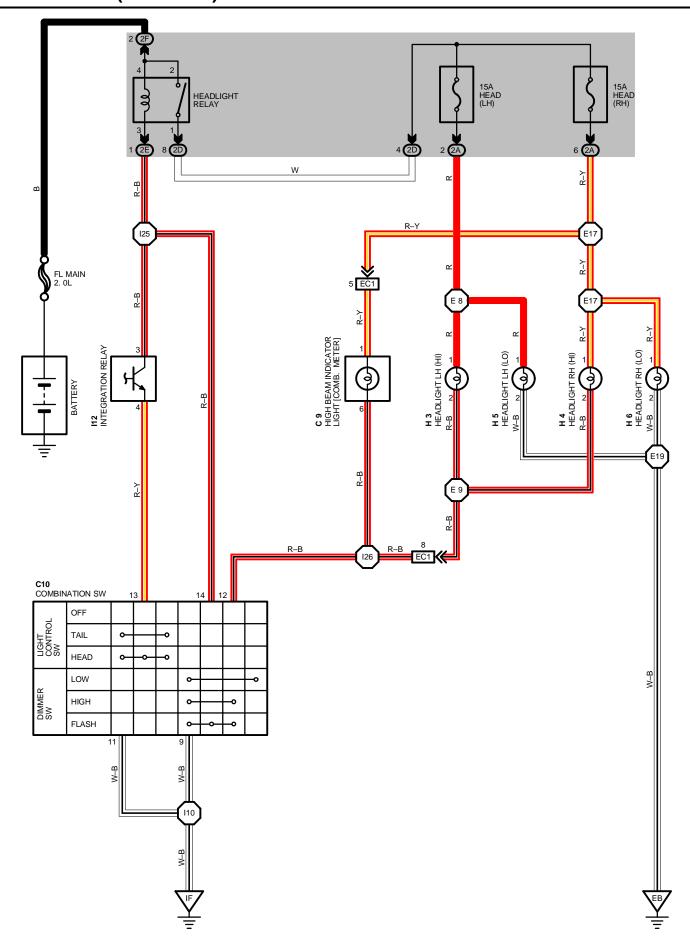
D 1 BLACK



E 4







SERVICE HINTS

HEADLIGHT RELAY

2-1: CLOSED WITH LIGHT CONTROL SW AT **HEAD** POSITION OR DIMMER SW AT **FLASH** POSITION

LIGHT AUTO TURN OFF OPERATION

PLEASE REFER TO THE LIGHT AUTO TURN OFF SYSTEM (SEE PAGE 100)

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 9	30	H 4	28	l12	31
C10	30	H 5	28		
H 3	28	H 6	28		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)		
2A	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		
2D	22	ENGINE ROOM WAIN WIRE AND JID NO. 2 (ENGINE COMPARTMENT LEFT)		
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		
2F	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EC1	34	COWL WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)

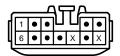
: GROUND POINTS

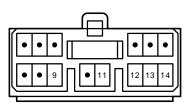
CODE	SEE PAGE	GROUND POINTS LOCATION
EB	34	FRONT LEFT FENDER
IF	36	LEFT KICK PANEL

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 8		ENGINE ROOM MAIN WIRE	l 10		COWL WIRE
E 9	24		I 25	38	
E 17	34		I 26		
E 19					

C 9 BLUE C10 BLACK H 3, H 4 BLACK H 5, H 6 BLACK I12

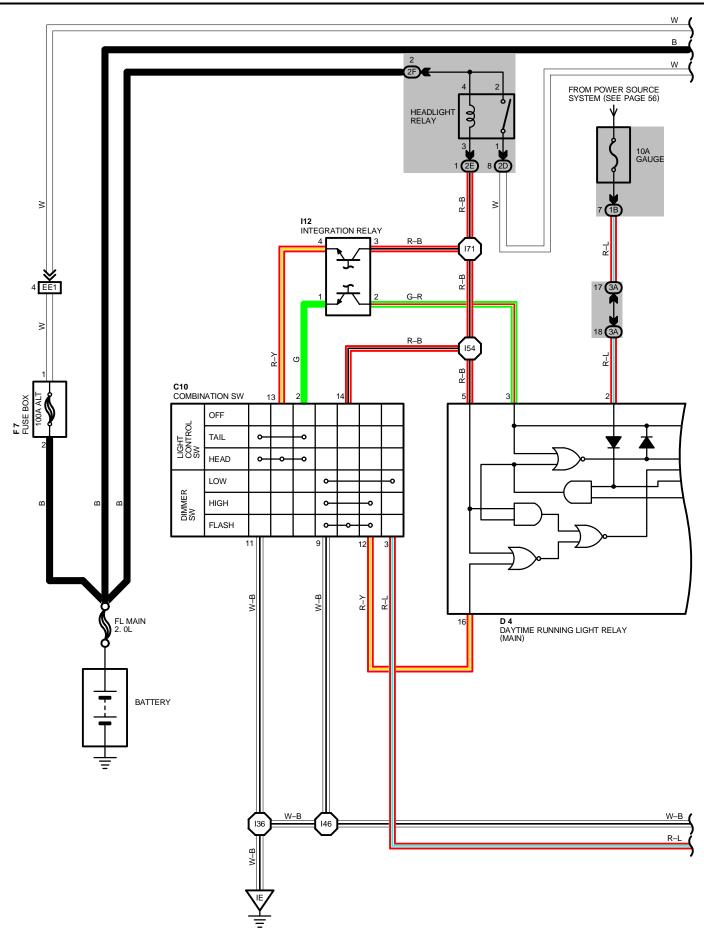


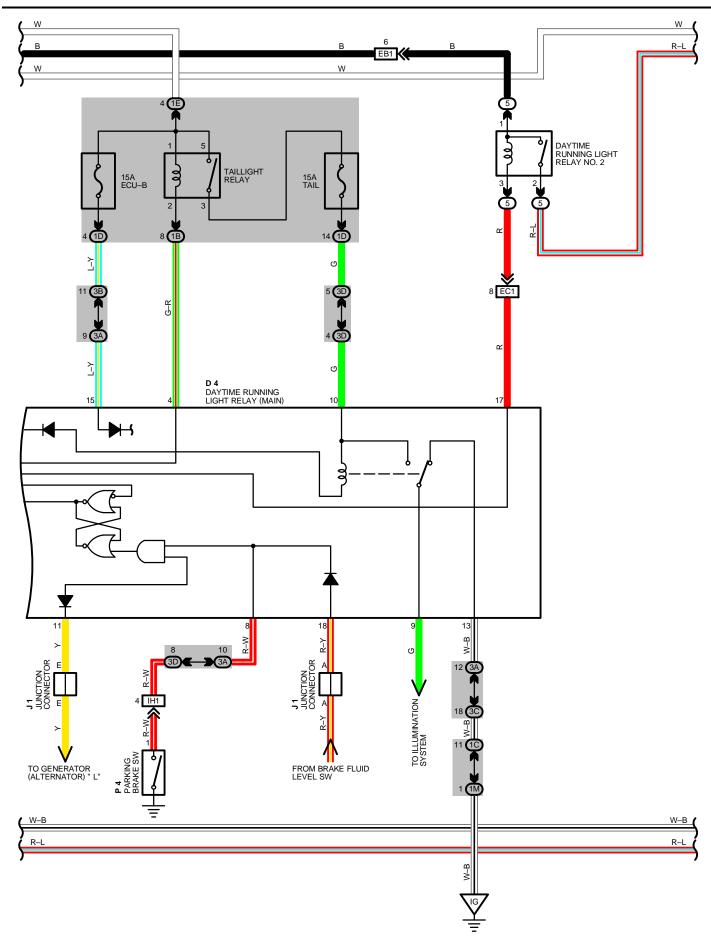




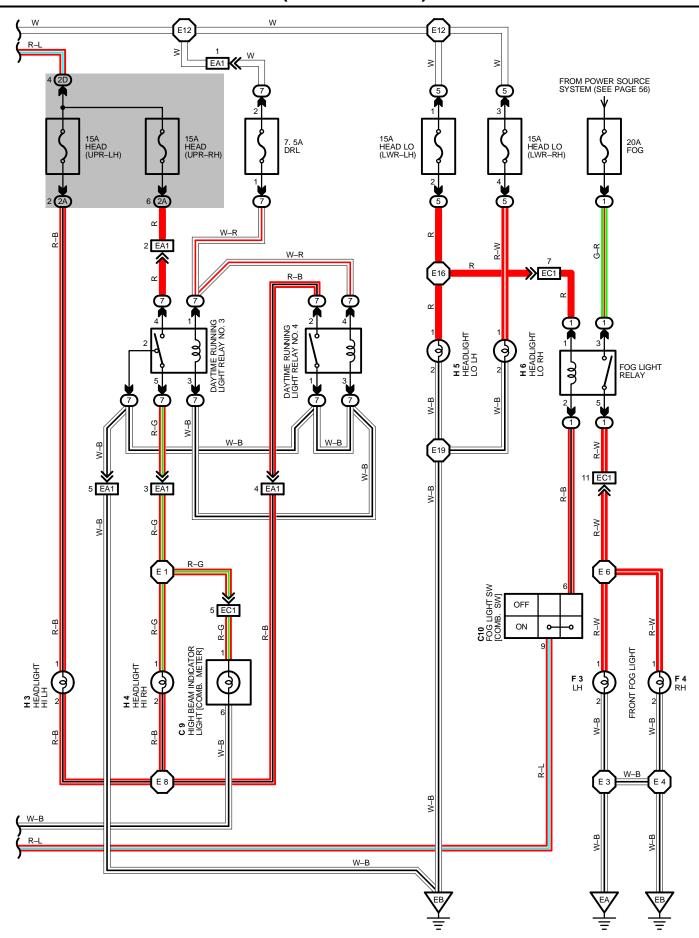








HEADLIGHT AND FOG LIGHT (FOR CANADA)



CURRENT FROM THE BATTERY IS ALWAYS FLOWING FROM THE FL MAIN \rightarrow HEADLIGHT RELAY (COIL SIDE) \rightarrow **TERMINAL 5** OF THE DAYTIME RUNNING LIGHT RELAY AND **TERMINAL 14** OF THE DIMMER SW, HEADLIGHT RELAY (COIL SIDE) \rightarrow **TERMINAL 3** OF THE INTEGRATION RELAY \rightarrow **TERMINAL 4** \rightarrow **TERMINAL 13** OF THE LIGHT CONTROL SW, FL MAIN \rightarrow DAYTIME RUNNING LIGHT RELAY NO. 2 (COIL SIDE) \rightarrow **TERMINAL 17** OF THE DAYTIME RUNNING LIGHT RELAY, FL MAIN \rightarrow **ALT** FUSE \rightarrow TAILLIGHT RELAY (COIL SIDE) \rightarrow **TERMINAL 4** OF THE DAYTIME RUNNING LIGHT RELAY.

1. DAYTIME RUNNING LIGHT OPERATION

WHEN THE ENGINE IS STARTED, VOLTAGE GENERATED AT **TERMINAL** 'L' OF THE GENERATOR (ALTERNATOR) IS APPLIED TO **TERMINAL 11** OF THE DAYTIME RUNNING LIGHT RELAY.

IF THE PARKING BRAKE LEVER IS PULLED UP (PARKING BRAKE SW ON) AT THIS TIME, THE RELAY IS NOT ENERGIZED, SO THE DAYTIME RUNNING LIGHT SYSTEM DOES NOT OPERATE. IF THE PARKING BRAKE LEVER IS RELEASED (PARKING BRAKE LEVER SW OFF), THE SIGNAL IS INPUT TO **TERMINAL 8** OF THE RELAY. THIS ACTIVATES THE RELAY AND CURRENT FROM FL MAIN FLOWS TO **ALT** FUSE \rightarrow TAILLIGHT RELAY (POINT SIDE) \rightarrow **TAIL** FUSE \rightarrow TAIL, LICENCE AND FRONT CLEARANCE LIGHT \rightarrow **GROUND.** ALSO, CURRENT FROM FL MAIN FLOWS TO DAYTIME RUNNING LIGHT RELAY NO. 2 (POINT SIDE) \rightarrow **HEAD (UPR-LH)** FUSE \rightarrow **TERMINAL 1** OF THE HEAD HI—LH \rightarrow **TERMINAL 2** \rightarrow **TERMINAL 2** OF THE HEAD HI—RH \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 5** OF THE DAYTIME RUNNING LIGHT RELAY NO. 3 \rightarrow **TERMINAL 2** \rightarrow TO **GROUND.** SO BOTH TAIL AND HEADLIGHT UP.

THIS IS HOW THE DAYTIME RUNNING LIGHT SYSTEM OPERATES ONCE THE DAYTIME RUNNING LIGHT SYSTEM OPERATES AND TAIL, HEAD HAVE LIGHT UP, TAIL, HEAD REMAIN ON EVEN IF THE PARKING BRAKE LEVER IS PULLED UP (PARKING BRAKE SW ON).

EVEN IF THE ENGINE STALLS WITH THE IGNITION SW ON AND THERE IS NO VOLTAGE FROM **TERMINAL** 'L' OF THE GENERATOR (ALTERNATOR), TAIL, HEAD REMAIN ON, IF THE IGNITION SW IS THEN TURNED OFF, TAIL AND HEAD ARE TURNED OFF.

IF THE ENGINE IS STARTED WHILE THE PARKING BRAKE LEVER IS RELEASED (PARKING BRAKE SW OFF), THE DAYTIME RUNNING LIGHT SYSTEM OPERATES AND TAIL, HEAD LIGHT UP AS THE ENGINE STARTS.

2. HEADLIGHT OPERATION

*WHEN THE LIGHT CONTROL SW AT THE HEAD POSITION

WHEN THE LIGHT CONTROL SW IS SET TO **HEAD** POSITION, THE CURRENT FLOWING TO THE HEADLIGHT RELAY (COIL SIDE) FLOWS TO **TERMINAL 3** OF THE INTEGRATION RELAY \rightarrow **TERMINAL 4** \rightarrow **TERMINAL 13** OF THE LIGHT CONTROL SW \rightarrow **TERMINAL 11** \rightarrow **GROUND**, TURNING THE HEADLIGHT RELAY ON.

THIS CAUSES THE CURRENT FLOWING TO THE HEADLIGHT RELAY (POINT SIDE) \rightarrow DRL FUSE \rightarrow DAYTIME RUNNING LIGHT RELAY NO. 3 (COIL SIDE) AND DAYTIME RUNNING LIGHT RELAY NO.4 (COIL SIDE) \rightarrow GROUND, TURNING THE DAYTIME RUNNING LIGHT RELAY NO. 3 AND NO. 4 ON. ALSO, CURRENT FROM THE HEADLIGHT RELAY (POINT SIDE) TO HEAD (LWR) FUSES \rightarrow TERMINAL 1 OF THE HEADLIGHTS (LO) \rightarrow TERMINAL 2 \rightarrow GROUND, SO THE HEADLIGHTS (LO SIDE) LIGHT UP.

*DIMMER SW AT FLASH POSITION

WHEN THE DIMMER SW IS SET TO **FLASH** POSITION, CURRENT FLOWS FROM HEADLIGHT RELAY (COIL SIDE) \rightarrow **TERMINAL 14** OF THE DIMMER SW \rightarrow **TERMINAL 9** \rightarrow **GROUND**, TURNING THE HEADLIGHT RELAY ON. AT THE SAME TIME, SIGNALS ARE OUTPUT FROM **TERMINAL 12** AND **TERMINAL 14** OF THE DIMMER SW TO **TERMINAL 16** AND **TERMINAL 5** OF THE DAYTIME RUNNING LIGHT RELAY, ACTIVATING THE DAYTIME RUNNING LIGHT RELAY AND ALSO THE DAYTIME RUNNING LIGHT RELAY NO. 2 WHEN THE HEADLIGHT RELAY AND DAYTIME RUNNING LIGHT RELAY ARE ACTIVATED, THE HEADLIGHTS (LO AND HI) THEN LIGHT UP.

*DIMMER SW AT HIGH POSITION

WHEN THE LIGHT CONTROL SW IS SET TO **HEAD** POSITION, A SIGNAL IS OUTPUT FROM **TERMINAL 13** OF THE LIGHT CONTROL SW \rightarrow **TERMINAL 4** OF THE INTEGRATION RELAY \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 5** OF THE DAYTIME RUNNING LIGHT RELAY. WHEN THE DIMMER SW IS SET TO **HIGH** POSITION, A SIGNAL IS OUTPUT FROM **TERMINAL 12** OF THE DIMMER SW TO **TERMINAL 16** OF THE DAYTIME RUNNING LIGHT RELAY. THESE SIGNALS ACTIVATE DAYTIME RUNNING LIGHT RELAY NO. 2, SO CURRENT FLOWS FROM DAYTIME RUNNING LIGHT RELAY NO. 2 (POINT SIDE) \rightarrow **HEAD (UPR-LH)** FUSE \rightarrow **TERMINAL 1** OF THE HEADLIGHT HI-LH \rightarrow **TERMINAL 2** \rightarrow DAYTIME RUNNING LIGHT RELAY NO.4 (POINT SIDE) \rightarrow **GROUND**, AND CURRENT ALSO SIMULTANEOUSLY FLOWS FROM **HEAD (RH-UPR)** FUSE \rightarrow DAYTIME RUNNING LIGHT RELAY NO. 3 (POINT SIDE) \rightarrow **TERMINAL 1** OF THE HEADLIGHT RH-HI \rightarrow **TERMINAL 2** \rightarrow DAYTIME RUNNING LIGHT RELAY NO. 4 (POINT SIDE), CAUSING THE HEADLIGHTS (HI SIDE) TO LIGHT UP.

SERVICE HINTS

D 4 DAYTIME RUNNING LIGHT RELAY (MAIN)

2-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

15-GROUND: ALWAYS APPROX. 12 VOLTS

8-GROUND: CONTINUITY WITH THE PARKING BRAKE LEVER PULLED UP (PARKING BRAKE SW ON)

13-GROUND: ALWAYS CONTINUITY

HEADLIGHT AND FOG LIGHT (FOR CANADA)

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 9	30	F 7	28	l12	31
C10	30	H 3	28	J 1	31
D 4	30	H 4	28	P 4	31
F 3	28	H 5	28		
F 4	28	H 6	28		

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
1	25	R/B NO. 1 (LEFT KICK PANEL)
5	26	R/B NO. 5 (ENGINE COMPARTMENT LEFT)
7	27	R/B NO. 7 (NEAR THE BATTERY)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)		
CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)		
1B				
1C				
1D	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)		
1E				
1 M				
2A	00	ENGINE DOOM MAIN WIDE AND UP NO OVERVOINE COMPARTMENT LEET		
2D	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		
2F	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		
3A				
3B	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)		
3C		COVE WITH AND JO NO. 3 (BETTIND COMBINATION WELLEN)		
3D				

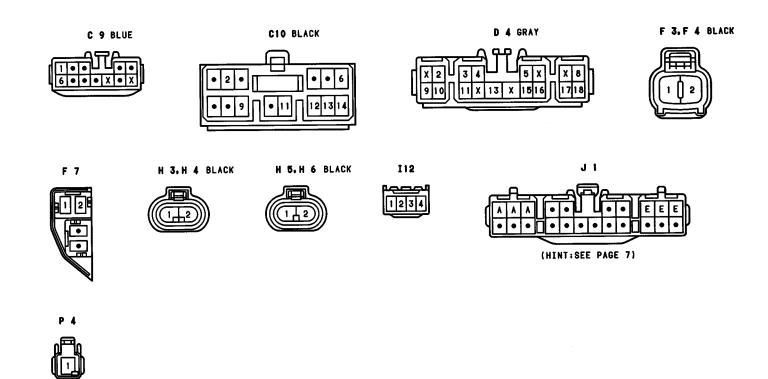
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

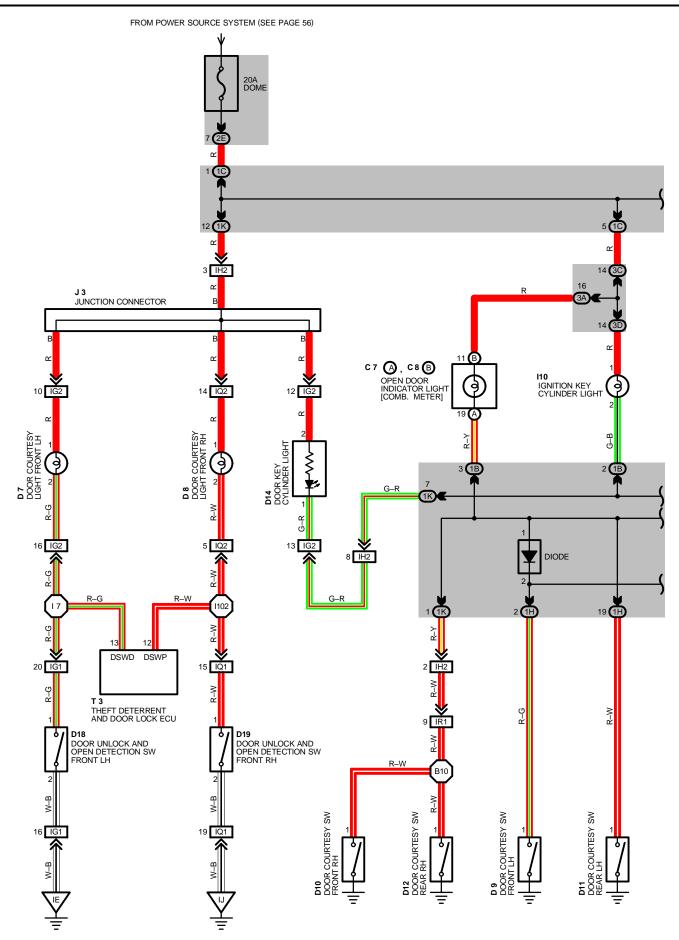
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EA1	34	ENGINE ROOM MAIN WIRE AND RELAY WIRE (UNDER THE R/B NO. 7)
EB1	34	ENGINE WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)
EC1	34	COWL WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)
EE1	34	ENGINE WIRE AND COWL WIRE (NEAR THE BRAKE MASTER CYLINDER)
IH1	36	COWL WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)

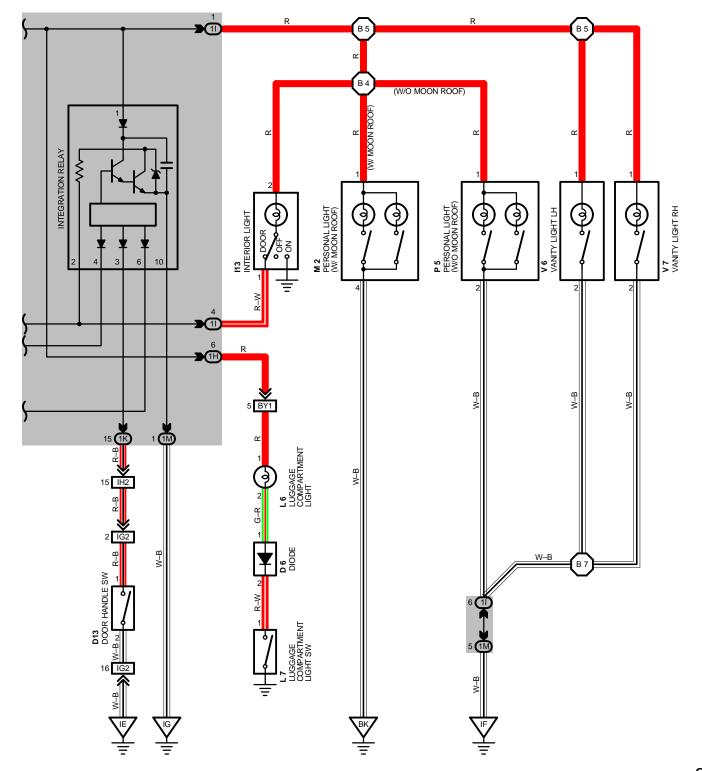
: GROUND POINTS

•		
CODE	SEE PAGE	GROUND POINTS LOCATION
EA	34	FRONT RIGHT FENDER
EB	34	FRONT LEFT FENDER
IE	26	LEET VICK DANIEL
IF	36	LEFT KICK PANEL
IG	36	INSTRUMENT PANEL BRACE LH

_					
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 1		ENGINE ROOM MAIN WIRE	E 16	34	ENGINE DOOM MAIN WIDE
E 3	- - - 34		E 19		ENGINE ROOM MAIN WIRE
E 4			I 36	38	COWL WIRE
E 6	- 34		I 46		
E 8			I 54		
E 12			I 71	38	INSTRUMENT PANEL WIRE







INTERIOR LIGHT

SERVICE HINTS -

INTEGRATION RELAY

1-GROUND : ALWAYS APPROX. 12 VOLTS

4-GROUND: CONTINUITY WITH EACH DOOR (FRONT LH AND RH, REAR LH AND RH) OPEN

2-GROUND: CONTINUITY WITH FRONT LH DOOR OPEN

D 9, D10, D11, D12 DOOR COURTESY SW 1-GROUND : CLOSED WITH DOOR OPEN

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 7 A	30	D12	32	L 6	32
C8 B	30	D13	32	L 7	32
D 6	32	D14	32	M 2	32
D 7	32	D18	32	P 5	32
D 8	32	D19	32	Т3	31
D 9	32	l10	31	V 6	32
D10	32	l13	32	V 7	32
D11	32	J 3	31		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1B	20	COMUNIDE AND UD NO 4 (INCEDIMENT DANEL LEET)
1C	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1H	20	FLOOR NO. 1 WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
11	20	ROOF WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1K	00	COMUNIDE AND JONG A JINOTOLIMENT DANIEL LEET
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
3A		
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)
3D		

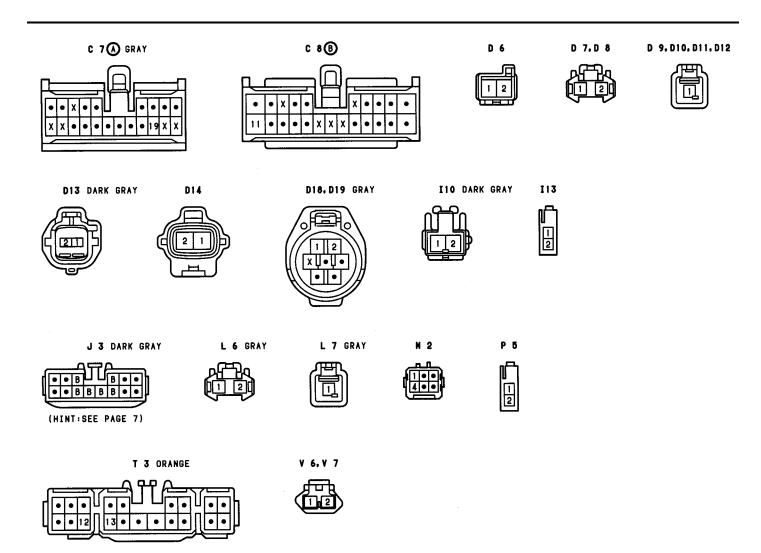
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

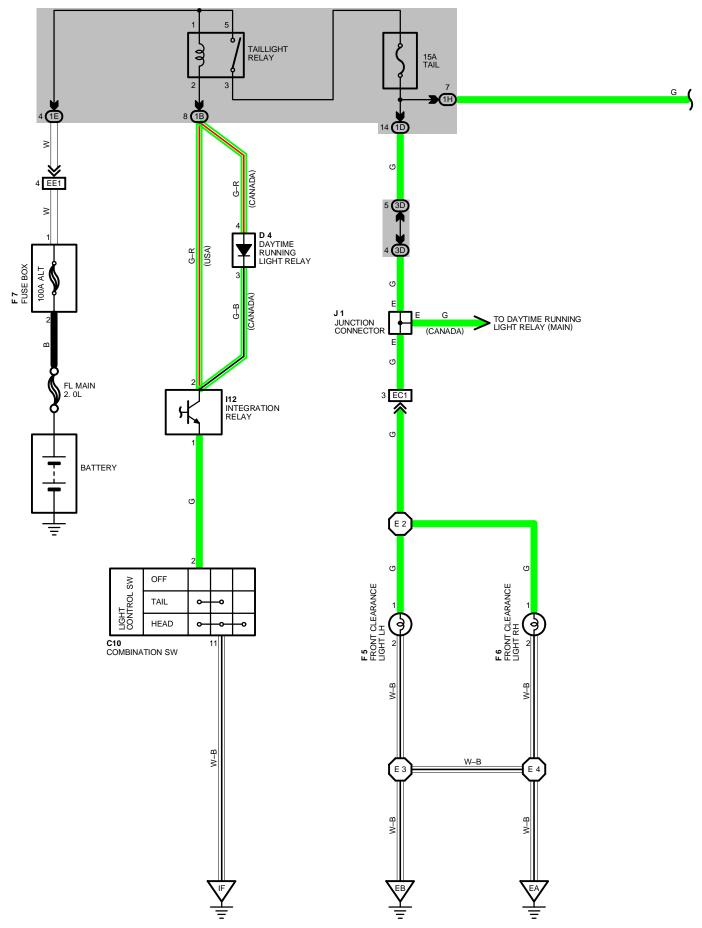
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IG1	20	EDON'T DOOD LILIMIDE AND INICTOLIMENT DANIEL WIDE (LEET VOOK DANIEL)
IG2	36	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IQ1	20	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IQ2	38	FRONT DOOR RH WIRE AND INSTROMENT PANEL WIRE (RIGHT RICK PANEL)
IR1	38	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
BY1	40	LUGGAGE ROOM WIRE AND FLOOR NO. 1 WIRE (LUGGAGE ROOM LEFT)

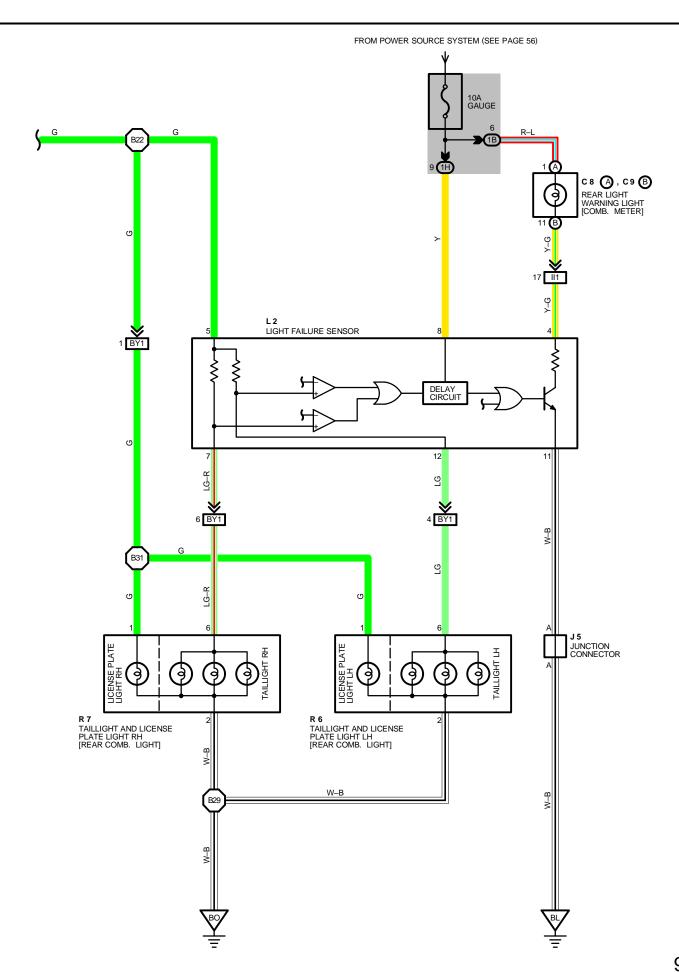
7 : GROUND POINTS

•		
CODE	SEE PAGE	GROUND POINTS LOCATION
IE	26	LEFT KICK PANEL
IF	36	
IG	36	INSTRUMENT PANEL BRACE LH
IJ	36	RIGHT KICK PANEL
ВК	40	ROOF LEFT

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
17	20	INICTELINATINE DANIEL VALIDE	B 5	40	ROOF WIRE
I102	38	INSTRUMENT PANEL WIRE	B 7	40	
B 4	40	ROOF WIRE	B 10	40	FLOOR NO. 2 WIRE







TAILLIGHT

SYSTEM OUTLINE

WHEN THE LIGHT CONTROL SW IS TURNED TO TAIL OR HEAD POSITION, THE CURRENT FLOWS TO TERMINAL 5 OF THE LIGHT FAILURE SENSOR THROUGH THE TAIL FUSE.

WHEN THE IGNITION SW IS TURNED ON, THE CURRENT FLOWS FROM THE **GAUGE** FUSE TO **TERMINAL 8** OF THE LIGHT FAILURE SENSOR, AND ALSO FLOWS THROUGH THE REAR LIGHTS WARNING LIGHT TO **TERMINAL 4** OF THE LIGHT FAILURE SENSOR.

TAILLIGHT DISCONNECTION WARNING

WITH THE IGNITION SW ON AND THE LIGHT CONTROL SW TURNED TO **TAIL** OR **HEAD** POSITION, IF THE TAILLIIGHT CIRCUIT IS OPEN, THE LIGHT FAILURE SENSOR DETECTS THE FAILURE BY THE CHANGE IN CURRENT FLOWING FROM **TERMINAL 5** OF THE LIGHT FAILURE SENSOR TO **TERMINAL 7**, **12** AND THE WARNING CIRCUIT OF THE LIGHT FAILURE SENSOR IS ACTIVATED.

AS A RESULT, THE CURRENT FLOWS FROM **TERMINAL 4** OF THE LIGHT FAILURE SENSOR \rightarrow **TERMINAL 11** \rightarrow **GROUND** AND TURNS THE REAR LIGHT WARNING LIGHT ON, WHICH REMAINS ON UNTIL THE LIGHT CONTROL SW IS TURNED OFF.

SERVICE HINTS

TAILLIGHT RELAY

3-5: CLOSED WITH LIGHT CONTROL SW AT TAIL OR HEAD POSITION

L 2 LIGHT FAILURE SENSOR

4, 8-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

5-GROUND: APPROX. 12 VOLTS WITH LIGHT CONTROL SW AT TAIL OR HEAD POSITION

11-GROUND: ALWAYS CONTINUITY

: PARTS LOCATION

CO	DE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 8	Α	30	F6	28	L 2	32
C 9	В	30	F 7	28	R 6	32
C	10	30	l12	31	R 7	32
D	4	30	J 1	32		
F	5	28	J 5	32		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1B		
1D	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1E		
1H	20	FLOOR NO. 1 WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
3D	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)

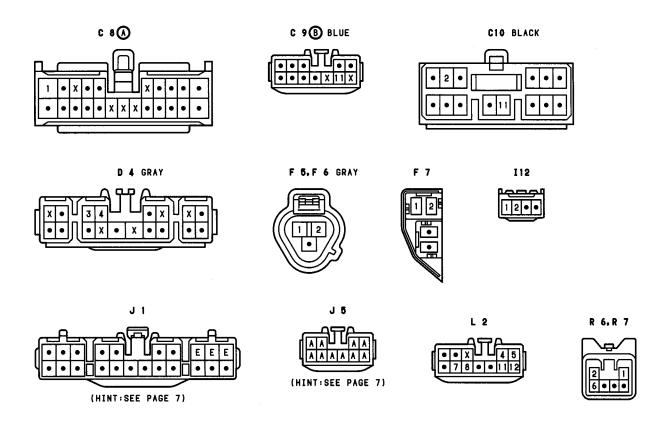
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

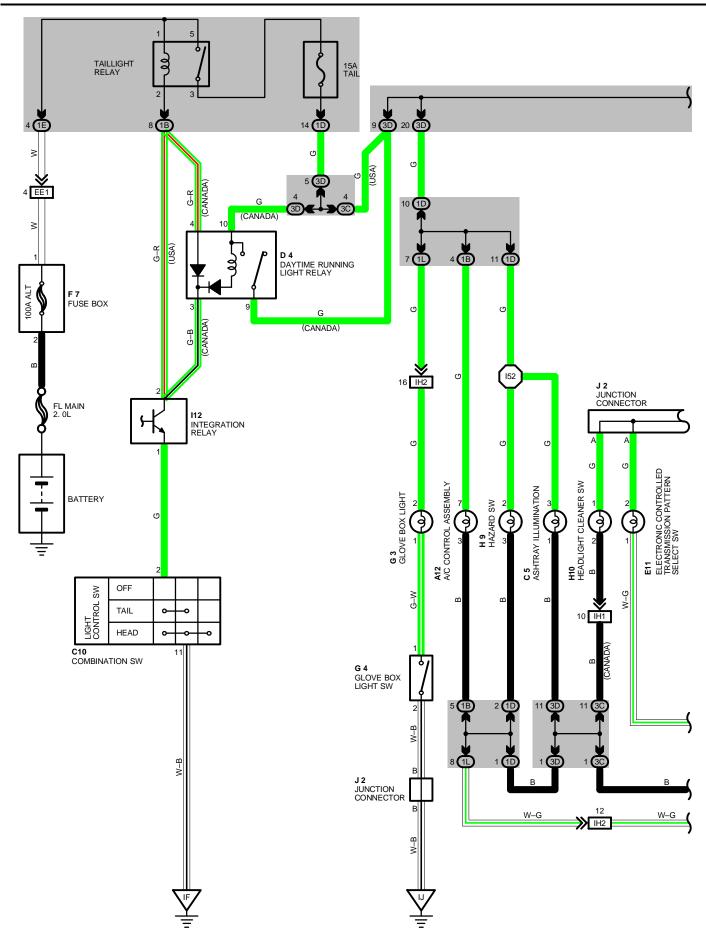
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EC1	34	COWL WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)
EE1	34	ENGINE WIRE AND COWL WIRE (NEAR THE BRAKE MASTER CYLINDER)
II1	36	FLOOR NO. 1 WIRE AND COWL WIRE (LEFT KICK PANEL)
BY1	40	LUGGAGE ROOM WIRE AND FLOOR NO. 1 WIRE (LUGGAGE ROOM LEFT)

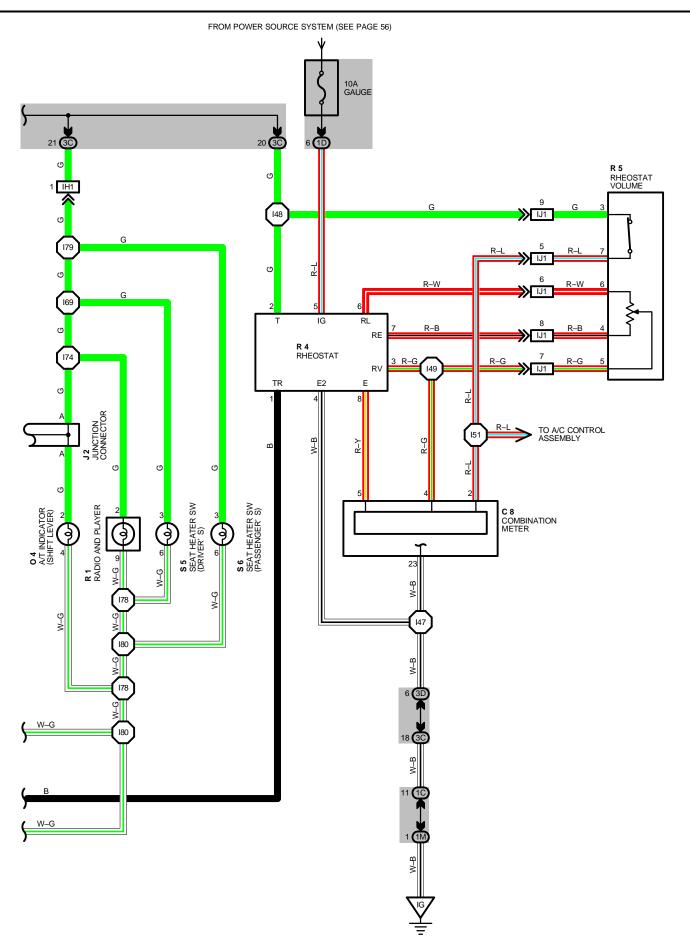
: GROUND POINTS

•		
CODE	SEE PAGE	GROUND POINTS LOCATION
EA	34	FRONT RIGHT FENDER
EB	34	FRONT LEFT FENDER
IF	36	LEFT KICK PANEL
BL	40	UNDER THE LEFT QUARTER PILLAR
ВО	40	BACK PANEL CENTER

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 2			B 22	40	FLOOR NO. 1 WIRE
E 3	34	ENGINE ROOM MAIN WIRE	B 29	40	LUGGAGE ROOM WIRE
E 4			B 31	40	EUGGAGE ROOM WIRE







ILLUMINATION

SERVICE HINTS -

TAILLIGHT RELAY

3-5 : CLOSED WITH LIGHT CONTROL SW AT **TAIL** OR **HEAD** POSITION (WHEN LIGHT AUTO TURN OFF SYSTEM IS OFF) CLOSED WITH ENGINE RUNNING AND PARKING BRAKE LEVER RELEASED (CANADA)

R 4 RHEOSTAT

2-4, 8: APPROX. 12 VOLTS WITH RHEOSTAT FULLY TURNED COUNTERCLOCKWISE AND 0 VOLT WITH FULLY TURNED CLOCKWISE

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
A12	30	G 3	31	R 1	31
C 5	30	G 4	31	R 4	31
C 8	30	H 9	31	R 5	31
C10	30	H10	31	S 5	31
D 4	30	l12	31	S 6	31
E11	30	J 2	31		
F 7	28	0 4	31		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1B		
1C	COMI MUDE AND UD NO. 4 (NOTDUMENT DANIEL LEET)	
1D		COMI MIDE AND UD NO. 4 (INCEDIMENT DANEL LEET)
1E	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1L		
1M		
3C	24 COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)	
3D	27	OOME WINE AIRD OUR TRO. 3 (DETINAD COMBINATION WILLET)

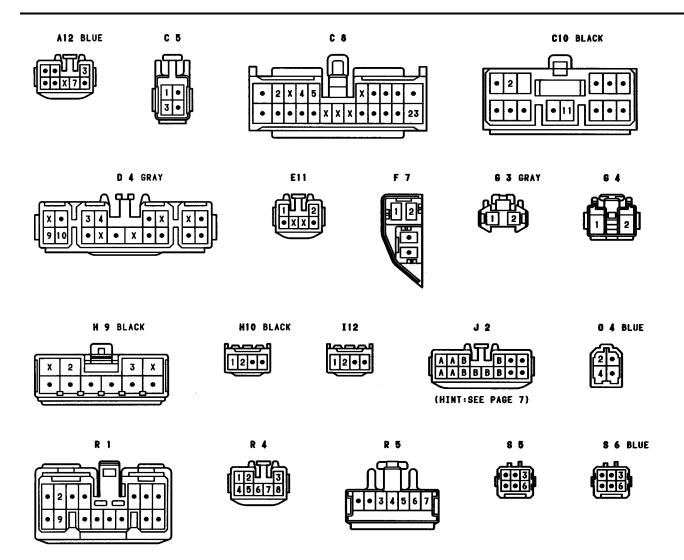
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

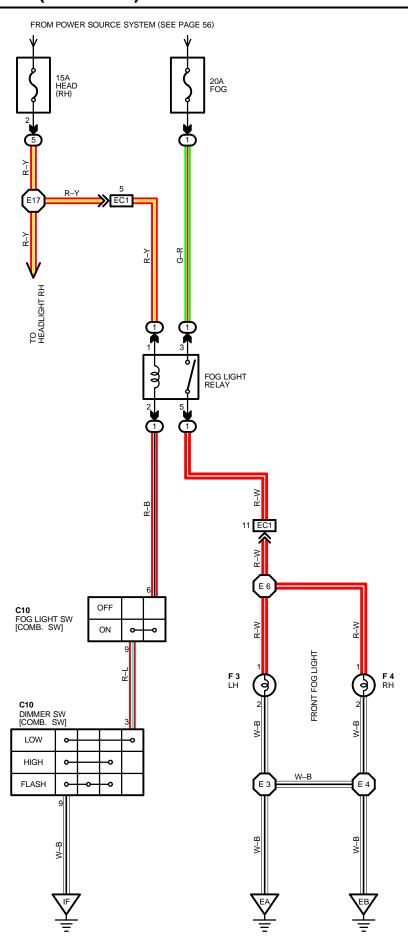
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EE1	34	ENGINE WIRE AND COWL WIRE (NEAR THE BRAKE MASTER CYLINDER)
IH1	36	COWL WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IJ1	36	INSTRUMENT PANEL NO. 2 WIRE AND COWL WIRE (UNDER THE COMBINATION METER)

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IF	36	LEFT KICK PANEL
IG	36	INSTRUMENT PANEL BRACE LH
IJ	36	RIGHT KICK PANEL

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 47			I 69		
I 48			174		
I 49	38	COWL WIRE	I 78	38	INSTRUMENT PANEL WIRE
I 51			l 79		
152			I 80	=	





— SERVICE HINTS -

(1) FOG LIGHT RELAY

3-5 : CLOSED WITH LIGHT CONTROL SW AT **HEAD** POSITION, DIMMER SW AT **LOW** POSITION AND FOG LIGHT SW ON

O : PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C10	30	F 3	28	F 4	28

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
1	25	R/B NO. 1 (LEFT KICK PANEL)
5	26	R/B NO. 5 (ENGINE COMPARTMENT LEFT)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

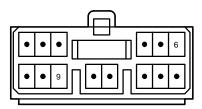
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EC1	34	COWL WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)

7 : GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EA	34	FRONT RIGHT FENDER
EB	34	FRONT LEFT FENDER
IF	36	LEFT KICK PANEL

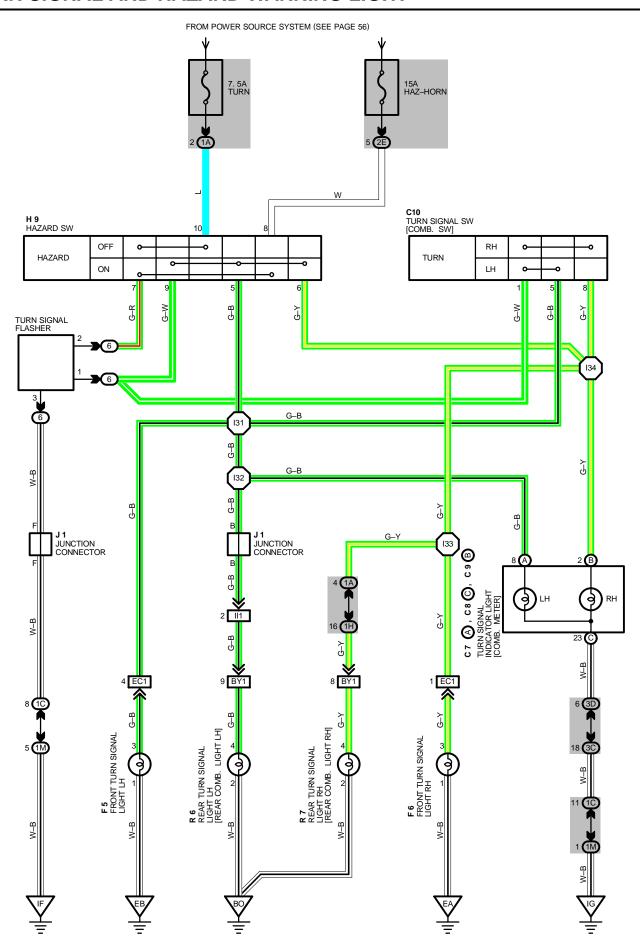
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	
E 3	24	ENGINE ROOM MAIN WIRE	E 6	24	ENGINE ROOM MAIN WIRE	
E 4	34	ENGINE ROOM WAIN WIRE	E 17	34	ENGINE ROOM MAIN WIRE	





F 3, F 4 BLACK





— SERVICE HINTS

TURN SIGNAL FLASHER

(6) 2-GROUND: APPROX. 12 VOLTS WITH IGNITION SW ON OR HAZARD SW ON

(6) 1-GROUND: CHANGES FROM APPROX. 12 TO 0 VOLTS WITH IGNITION SW ON AND TURN SIGNAL SW LEFT OR RIGHT, OR

HAZARD SW ON

(6) 3-GROUND: ALWAYS CONTINUITY

: PARTS LOCATION

CODE		SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 7	Α	30	F 5	28	R 6	32
C 8	С	30	F6	28	R 7	32
C 9	В	30	H 9	31		
C10		30	J 1	31		

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
6	26	R/B NO. 6 (BEHIND GLOVE BOX)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)		
1A	20	COMUNIDE AND UD NO 4 (INSTRUMENT DANIEL LEET)		
1C	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)		
1H	20	FLOOR NO. 1 WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)		
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)		
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		
3C	24	COWI MIDE AND 1/R NO. 3 (RELIND COMBINATION METER)		
3D	Z 4	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

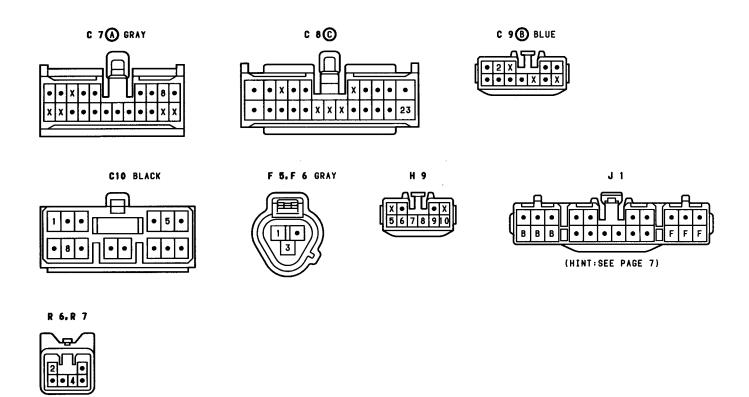
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EC1	34	COWL WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)
II1	36	FLOOR NO. 1 WIRE AND COWL WIRE (LEFT KICK PANEL)
BY1	40	LUGGAGE ROOM WIRE AND FLOOR NO. 1 WIRE (LUGGAGE ROOM LEFT)

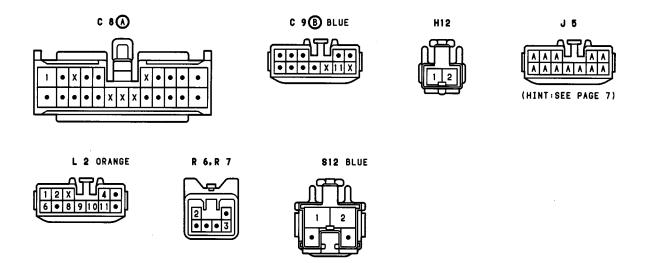
7 : GROUND POINTS

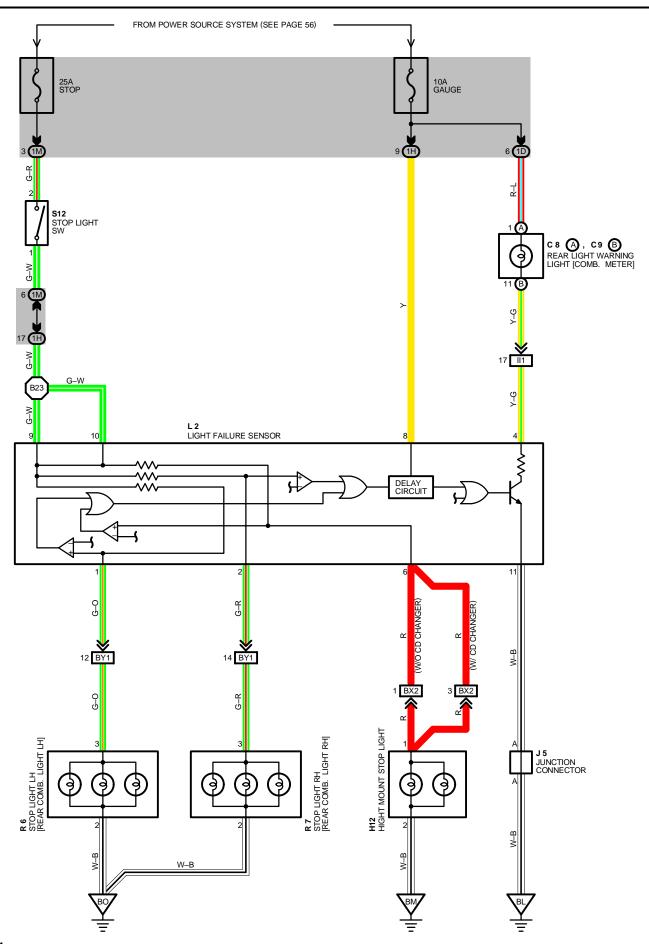
CODE	SEE PAGE	GROUND POINTS LOCATION
EA	34	FRONT RIGHT FENDER
EB	34	FRONT LEFT FENDER
IF	36	LEFT KICK PANEL
IG	36	INSTRUMENT PANEL BRACE LH
ВО	40	BACK PANEL CENTER

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 31	20	COWL WIRE	I 33	20	COWL WIRE
I 32	- 30	COWE WIRE	I 34	30	COWE WIRE

TURN SIGNAL AND HAZARD WARNING LIGHT







CURRENT IS APPLIED AT ALL TIMES THROUGH A **STOP** FUSE TO **TERMINAL 2** OF THE STOP LIGHT SW. WHEN THE IGNITION SW IS TURNED ON, CURRENT FLOWS FROM THE **GAUGE** FUSE TO **TERMINAL 8** OF THE LIGHT FAILURE SENSOR, AND ALSO FLOWS THROUGH THE REAR LIGHT WARNING LIGHT TO **TERMINAL 4** OF THE LIGHT FAILURE SENSOR.

STOP LIGHT DISCONNECTION WARNING

WHEN THE IGNITION SW IS TURNED ON AND THE BRAKE PEDAL IS PRESSED (STOP LIGHT SW ON), IF THE STOP LIGHT CIRCUIT IS OPEN, THE CURRENT FLOWING FROM **TERMINALS 9, 10** OF THE LIGHT FAILURE SENSOR TO **TERMINALS 1, 2, 6** CHANGES, SO THE LIGHT FAILURE SENSOR DETECTS THE DISCONNECTION AND THE WARNING CIRCUIT OF THE LIGHT FAILURE SENSOR IS ACTIVATED. AS A RESULT, THE CURRENT FLOWS FROM **TERMINAL 4** OF THE LIGHT FAILURE SENSOR \rightarrow **TERMINAL 11** \rightarrow **GROUND** AND TURNS THE REAR LIGHT WARNING LIGHT ON. BY PRESSING THE BRAKE PEDAL, THE CURRENT FLOWING TO **TERMINAL 8** OF THE LIGHT FAILURE SENSOR KEEPS THE WARNING CIRCUIT ON HOLD AND THE WARNING LIGHT ON UNTIL THE IGNITION SW IS TURNED OFF.

SERVICE HINTS

S12 STOP LIGHT SW

2-1: CLOSED WITH BRAKE PEDAL DEPRESSED

L 2 LIGHT FAILURE SENSOR

1, 2, 6, 9, 10-GROUND: APPROX. 12 VOLTS WITH STOP LIGHT SW ON

4, 8-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

11-GROUND: ALWAYS CONTINUITY

: PARTS LOCATION

C	ODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 8	Α	30	J 5	32	R 7	32
C 9	В	30	L 2	32	S12	31
H	112	32	R 6	32		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1D	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1H	20	FLOOR NO. 1 WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)

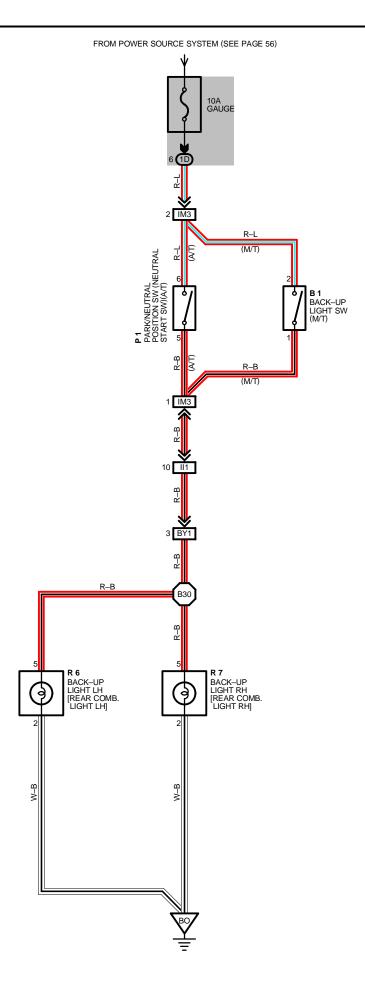
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

	CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
Ī	II1	36	FLOOR NO. 1 WIRE AND COWL WIRE (LEFT KICK PANEL)
Ī	BX2	40	FLOOR NO. 1 WIRE AND FLOOR NO. 2 WIRE (BEHIND PACKAGE TRAY TRIM)
Ī	BY1	40	LUGGAGE ROOM WIRE AND FLOOR NO. 1 WIRE (LUGGAGE ROOM LEFT)

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
BL	40	UNDER THE LEFT QUARTER PILLAR
ВМ	40	UNDER THE RIGHT QUARTER PILLAR
ВО	40	BACK PANEL CENTER

_					
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
B 23	40	FLOOR NO. 1 WIRE			



SERVICE HINTS

B1 BACK-UP LIGHT SW

2-1: CLOSED WITH SHIFT LEVER IN R POSITION

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

6-5: CLOSED WITH SHIFT LEVER IN R POSITION

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
B 1	28	R 6	32		
P 1	29	R 7	32		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1D	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
II1	36	FLOOR NO. 1 WIRE AND COWL WIRE
IM3	38	ENGINE WIRE AND COWL WIRE
BY1	40	LUGGAGE ROOM WIRE AND FLOOR NO. 1 WIRE

: GROUND POINTS

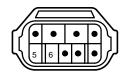
	•		
	CODE	SEE PAGE	GROUND POINTS LOCATION
Ī	ВО	40	BACK PANEL CENTER

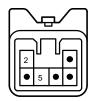
: SPLICE POINTS

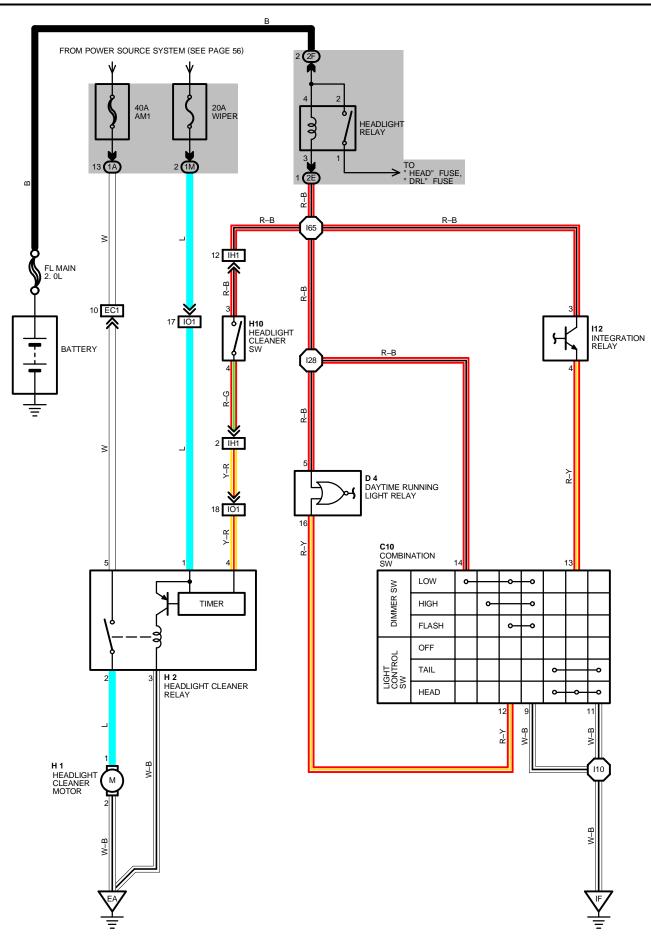
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
B30	40	LUGGAGE ROOM MAIN WIRE			

B 1 GRAY P 1 GRAY R 6, R 7









SERVICE HINTS

H2 HEADLIGHT CLEANER RELAY

5–2: CLOSED WITH LIGHT CONTROL SW AT **HEAD** POSITION AND HEADLIGHT CLEANER SW ON CLOSED WITH DIMMER SW AT **FLASH** POSITION AND HEADLIGHT CLEANER SW ON

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C10	30	H 1	28	H10	31
D 4	30	H 2	28	l12	31

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1A	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1M	20	COWE WIRE AND 3/B NO. 1 (INSTRUMENT PANEL LETT)
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2F	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EC1	34	COWL WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)
IH1	36	COWL WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
I01	38	ENGINE ROOM MAIN WIRE AND COWL WIRE (RIGHT KICK PANEL)

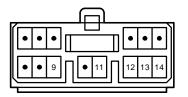
7 : GROUND POINTS

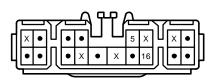
•		
CODE	SEE PAGE	GROUND POINTS LOCATION
EA	34	FRONT RIGHT FENDER
IF	36	LEFT KICK PANEL

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
l 10	20	COWL WIRE	I 65	38	COWL WIRE
I 28	30	OOWE WINE			

C10 BLACK





D 4 GRAY



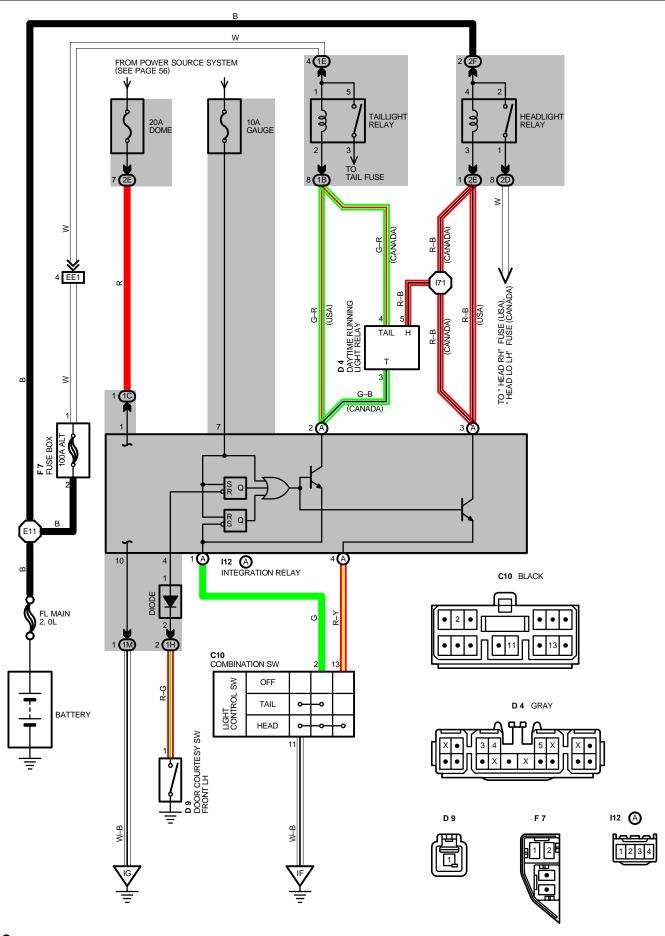


H10 BLACK

l12







WITH THE IGNITION SW TURNED ON, THE CURRENT FLOWS TO **TERMINAL 7** OF THE INTEGRATION RELAY THROUGH **GAUGE** FUSE.

VOLTAGE IS APPLIED AT ALL TIMES TO **TERMINAL (A)2** OF THE INTEGRATION RELAY THROUGH THE TAILLIGHT RELAY (COIL SIDE), AND TO **TERMINAL (A)3** THROUGH THE HEADLIGHT RELAY (COIL SIDE).

1. NORMAL LIGHTING OPERATION

(TURN TAILLIGHT ON)

WITH LIGHT CONTROL SW TURNED TO **TAIL** POSITION, A SIGNAL IS INPUT INTO **TERMINAL (A)1** OF THE INTEGRATION RELAY. ACCORDING TO THIS SIGNAL, THE CURRENT FLOWING TO **TERMINAL (A)2** OF THE RELAY FLOWS FROM **TERMINAL (A)1** \rightarrow **TERMINAL 2** OF THE LIGHT CONTROL SW \rightarrow **TERMINAL 11** \rightarrow TO **GROUND** AND TAILLIGHT RELAY CAUSES TAILLIGHT TO TURN ON. (TURN HEAD! IGHT ON)

WITH LIGHT CONTROL SW TURNED TO **HEAD** POSITION, A SIGNAL IS INPUT INTO **TERMINALS (A)1** AND **(A)4** OF THE INTEGRATION RELAY. ACCORDING TO THIS SIGNAL, THE CURRENT FLOWING TO **TERMINAL (A)3** OF THE RELAY FLOWS TO **TERMINAL (A)4** \rightarrow **TERMINAL 13** OF THE LIGHT CONTROL SW \rightarrow **TERMINAL 11** \rightarrow TO **GROUND** IN THE HEADLIGHT CIRCUIT, AND CAUSES TAILLIGHT AND HEADLIGHT RELAY TO TURN THE LIGHT ON. THE TAILLIGHT CIRCUIT IS SAME AS ABOVE.

2. LIGHT AUTO TURN OFF OPERATION

WITH LIGHTS ON AND IGNITION SW TURNED OFF (INPUT SIGNAL GOES TO TERMINAL 7 OF THE RELAY), WHEN DOOR ON DRIVER'S SIDE IS OPENED (INPUT SIGNAL GOES TO TERMINAL 4 OF THE RELAY), THE RELAY OPERATES AND THE CURRENT IS CUT OFF WHICH FLOWS FROM TERMINAL (A)2 OF THE RELAY TO TERMINAL (A)1 IN TAILLIGHT CIRCUIT AND FROM TERMINAL (A)3 TO TERMINAL (A)4 IN HEADLIGHT CIRCUIT. AS A RESULT, ALL LIGHTS ARE TURNED OFF AUTOMATICALLY.

SERVICE HINTS

112 INTEGRATION RELAY

7-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

1-GROUND: ALWAYS APPROX. 12 VOLTS

(A) 3-GROUND: APPROX. 12 VOLTS WITH LIGHT CONTROL SW AT OFF OR TAIL POSITION

(A) 2-GROUND: APPROX. 12 VOLTS WITH LIGHT CONTROL SW AT OFF POSITION

4-GROUND: CONTINUITY WITH FRONT LH DOOR OPEN

(A) 4-GROUND: CONTINUITY WITH LIGHT CONTROL SW AT HEAD POSITION

(A) 1-GROUND: CONTINUITY WITH LIGHT CONTROL SW AT TAIL OR HEAD POSITION

10-GROUND: ALWAYS CONTINUITY

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CC	DE	SEE PAGE
C10	30	D 9	32	l12	Α	31
D 4	30	F 7	28			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1B		
1C	20	COWL WIRE AND J/B NO.1 (INSTRUMENT PANEL LEFT)
1E		
1H	20 FLOOR NO. 1 WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)	
1M	1 20 COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)	
2D	22 ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)	
2E	22 COWL WIRE AND J/B NO.2 (ENGINE COMPARTMENT LEFT)	
2F	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)

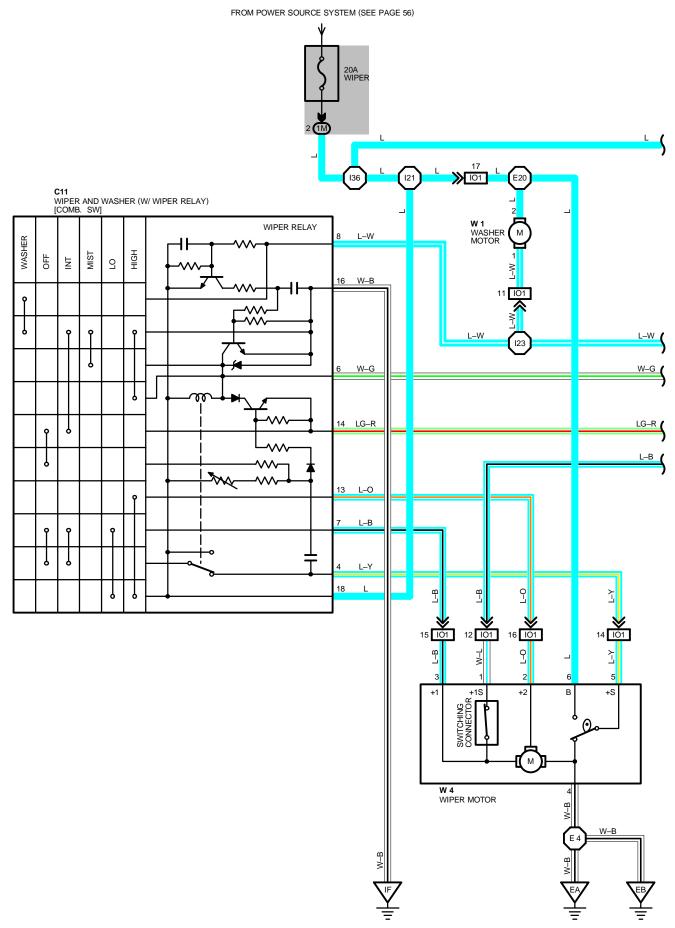
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

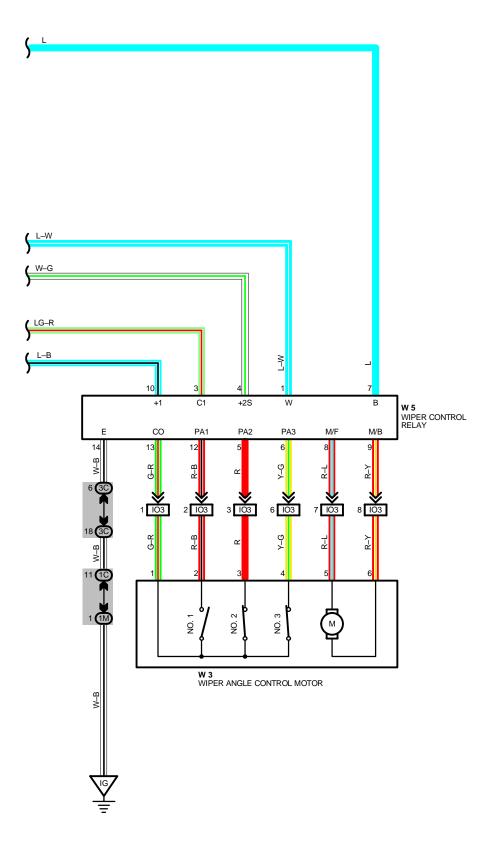
_			
CODE	SEE PAGE		
EE1 34 ENGINE WIRE AND COWL WIRE (NEAR THE BRAKE MASTER CYLINDER)			

: GROUND POINTS

CO	DE	SEE PAGE	GROUND POINTS LOCATION
II	F	36	LEFT KICK PANEL
10		36	INSTRUMENT PANEL BRACE LH

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 11	34	ENGINE WIRE	l 71	38	INSTRUMENT PANEL WIRE





WIPER AND WASHER

SYSTEM OUTLINE

1. LOW SPEED OPERATION

WHEN THE WIPER SW IS TURNED TO **LO** POSITION, CURRENT FLOWS FROM THE **WIPER** FUSE TO **TERMINAL 18** OF THE WIPER AND WASHER SW \rightarrow **TERMINAL 7** \rightarrow **TERMINAL 3** OF THE WIPER MOTOR \rightarrow **TERMINAL 4** \rightarrow **GROUND**, CAUSING THE WIPER MOTOR TO OPERATE AT LOW SPEED. INPUT OF A SIGNAL TO **TERMINAL 10** OF THE WIPER CONTROL RELAY FROM **TERMINAL 1** OF THE WIPER MOTOR AT THIS TIME CAUSES THE WIPER CONTROL RELAY TO OPERATE AS EXPLAINED FOR **INT** POSITION OPERATION.

2. HIGH SPEED OPERATION

WHEN THE WIPER SW IS TURNED TO HI POSITION, A SIGNAL IS INPUT TO TERMINAL 4 OF THE WIPER CONTROL RELAY FROM TERMINAL 6 OF THE WIPER AND WASHER SW. THE WIPER CONTROL RELAY SENDS CURRENT FROM THE WIPER FUSE TO TERMINAL 7 OF THE WIPER CONTROL RELAY \rightarrow TERMINAL 8 \rightarrow TERMINAL 5 OF WIPER ANGLE CONTROL MOTOR \rightarrow TERMINAL 6 \rightarrow TERMINAL 9 OF WIPER CONTROL RELAY \rightarrow TERMINAL 14 \rightarrow GROUND, CAUSING THE WIPER ANGLE CONTROL MOTOR TO ROTATE UNTIL THE NO. 2 SW INSIDE THE WIPER ANGLE CONTROL MOTOR IS ON AND THE NO. 3 SW IS OFF. SIMULTANEOUSLY, CURRENT FLOWS FROM THE WIPER FUSE TO TERMINAL 18 OF THE WIPER AND WASHER SW \rightarrow TERMINAL 13 \rightarrow TERMINAL 2 OF WIPER MOTOR \rightarrow TERMINAL 4 \rightarrow GROUND, CAUSING THE WIPER MOTOR TO OPERATE AT HIGH SPEED.

3. INT POSITION

WHEN THE WIPER SW IS TURNED TO INT POSITION, CURRENT FLOWS FROM TERMINAL 14 OF THE WIPER AND WASHER SW TO TERMINAL 3 OF THE WIPER CONTROL RELAY. THE WIPER CONTROL RELAY DOSE NOT OPERATE WHEN NO. 1 SW INSIDE THE WIPER ANGLE CONTROL MOTOR IS ON. AT OTHER TIMES, WHEN NO. 3 SW INSIDE THE WIPER ANGLE CONTROL MOTOR IS ON, CURRENT FLOWS FROM THE WIPER FUSE TO TERMINAL 7 OF WIPER CONTROL RELAY \rightarrow TERMINAL 8 \rightarrow TERMINAL 5 OF WIPER ANGLE CONTROL MOTOR \rightarrow TERMINAL 6 \rightarrow TERMINAL 9 OF WIPER CONTROL RELAY \rightarrow TERMINAL 14 \rightarrow GROUND, CAUSING THE WIPER ANGLE CONTROL MOTOR TO ROTATE UNTIL NO. 1 SW INSIDE THE WIPER ANGLE CONTROL MOTOR IS TURNED ON.

WHEN NO. 3 SW INSIDE WIPER ANGLE CONTROL MOTOR IS OFF, CURRENT FLOWS FROM THE WIPER FUSE TO **TERMINAL 7** OF THE WIPER CONTROL RELAY \rightarrow **TERMINAL 9** \rightarrow **TERMINAL 6** OF WIPER ANGLE CONTROL MOTOR \rightarrow **TERMINAL 5** \rightarrow **TERMINAL 8** OF WIPER CONTROL RELAY \rightarrow **TERMINAL 14** \rightarrow **GROUND**, ROTATING THE WIPER ANGLE CONTROL MOTOR UNTIL NO. 1 SW INSIDE THE WIPER ANGLE CONTROL MOTOR IS TURNED ON. SIMULTANEOUSLY, CURRENT FROM THE WIPER FUSE FLOWS TO **TERMINAL 18** OF THE WIPER AND WASHER SW \rightarrow **TERMINAL 16** \rightarrow **GROUND**, ACTIVATING THE INTERMITTENT CIRCUIT OF THE WIPER RELAY. THIS CAUSES CURRENT TO FLOW FROM THE WIPER FUSE TO **TERMINAL 18** OF THE WIPER AND WASHER SW \rightarrow **TERMINAL 7** \rightarrow **TERMINAL 3** OF WIPER MOTOR \rightarrow **TERMINAL 4** \rightarrow **GROUND**, ACTIVATING THE WIPER MOTOR. THE INTERMITTENT OPERATION IS CONTROLLED BY THE CHARGED/DISCHARGED STATE OF THE CONDENSER INSIDE THE WIPER RELAY.

BY ADJUSTING THE "INT TIME" CONTROL VOLUME SW, THE CONDENSER RECHARGE INTERVAL IS ADJUSTED, THEREBY CHARGING THE INTERWITTENT INTERVAL.

4. MIST POSITION

WHEN THE WIPER SW IS TURNED TO **MIST** POSITION, CURRENT FLOWS FROM THE **WIPER** FUSE TO **TERMINAL 18** OF THE WIPER AND WASHER SW \rightarrow **TERMINAL 16** \rightarrow **GROUND**, ACTIVATING THE MIST CIRCUIT OF THE WIPER RELAY. ACCORDINGLY, WHEN THE WIPER SW IS AT **OFF** OR **INT** POSITION ONLY, CURRENT FLOWS FROM THE **WIPER** FUSE TO **TERMINAL 18** OF THE WIPER AND WASHER SW \rightarrow **TERMINAL 3** OF WIPER MOTOR \rightarrow **TERMINAL 4** \rightarrow **GROUND**, ACTIVATING THE WIPER MOTOR. AT THIS TIME, INPUT OF A SIGNAL TO **TERMINAL 10** OF THE WIPER CONTROL RELAY FROM **TERMINAL 1** OF THE WIPER MOTOR CAUSES THE WIPER CONTROL RELAY TO OPERATE AS DESCRIBED FOR **INT** POSITION OPERATION.

5. OFF POSITION

WHEN THE WIPER SW IS TURNED TO **OFF** POSITION FROM ANOTHER POSITION AND A SIGNAL IS OUTPUT FROM THE WIPER AND WASHER SW, AND A WIPER MOTOR STOP SIGNAL IS INPUT TO **TERMINAL 10** OF THE WIPER CONTROL RELAY FROM **TERMINAL 1** OF THE WIPER MOTOR THE WIPER CONTROL RELAY THEN SENDS CURRENT FROM THE **WIPER** FUSE TO **TERMINAL 7** OF THE WIPER CONTROL RELAY \rightarrow **TERMINAL 9** \rightarrow **TERMINAL 6** OF WIPER ANGLE CONTROL MOTOR \rightarrow **TERMINAL 5** \rightarrow **TERMINAL 8** OF WIPER CONTROL RELAY \rightarrow **TERMINAL 14** \rightarrow **GROUND**, CAUSING THE WIPER ANGLE CONTROL MOTOR TO ROTATE UNTIL THE NO. 2 SW AND NO. 3 SW INSIDE THE WIPER ANGLE CONTROL MOTOR BOTH TURN ON.

WHEN THE SWITCHING CONNECTOR ON THE WIPER MOTOR IS TURNED OFF, THE OPERATION EXPLAINED ABOVE IS CANCELLED.

SYSTEM OUTLINE

6. WASHER LINKED OPERATION

WHEN THE WASHER SW IS TURNED ON, CURRENT FLOWS FROM THE WIPER FUSE TO TERMINAL 2 OF THE WASHER MOTOR \rightarrow TERMINAL 1 \rightarrow TERMINAL 8 OF WIPER AND WASHER SW \rightarrow TERMINAL 16 \rightarrow GROUND, CAUSING THE WASHER TO OPERATE AND THE WINDSHIELD WASHER TO SPRAY.

THIS CURRENT FLOW ALSO ACTIVATES THE WASHER LINKED CIRCUIT OF THE WIPER RELAY, SO CURRENT FLOWS FROM THE WIPER FUSE TO TERMINAL 18 OF THE WIPER AND WASHER SW \rightarrow TERMINAL 7 \rightarrow TERMINAL 3 OF WIPER MOTOR \rightarrow TERMINAL 4 \rightarrow GROUND, ACTIVATING THE WIPER MOTOR. AT THIS TIME, INPUT OF A SIGNAL TO TERMINAL 10 OF THE WIPER CONTROL RELAY FROM TERMINAL 1 OF THE WIPER MOTOR CAUSES THE WIPER CONTROL RELAY TO OPERATE AS DESCRIBED FOR INT POSITION OPERATION.

DUE TO THE OPERATION OF THE CONDENSER INSIDE THE WIPER RELAY, THE WIPER MOTOR DOES NOT IMMEDIATELY STOP WHEN THE WASHER SW IS TURNED OFF.

SERVICE HINTS

C11 WIPER AND WASHER SW (W/ WIPER RELAY)

16-GROUND: ALWAYS CONTINUITY

18-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT **ON** POSITION

7-GROUND: APPROX. 12 VOLTS WITH WIPER AND WASHER SW AT LOW OR MIST POSITION

APPROX. 12 VOLTS 2 TO 11 SECONDS INTERMITTENTLY WITH WIPER SW AT INT POSITION 4-GROUND: APPROX. 12 VOLTS WITH IGNITION SW ON UNLESS WIPER MOTOR AT STOP POSITION

13-GROUND: APPROX. 12 VOLTS WITH WIPER AND WASHER SW AT HIGH POSITION

W 3 WIPER MOTOR

5-6: CLOSED UNLESS WIPER MOTOR AT STOP POSITION

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C11	30	W 3	29	W 5	31
W 1	29	W 4	29		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	IUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)	
1C	20	COMUNIDE AND UD NO 4 (INCEDIMENT DANIEL LEET)	
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)	
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)	

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

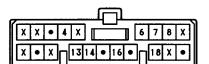
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IO1	20	ENGINE ROOM MAIN WIRE AND COWL WIRE (RIGHT KICK PANEL)
103	30	ENGINE ROOM WARE AND COME WIRE (RIGHT RICK PANEL)

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EA	34	FRONT RIGHT FENDER
EB	34	FRONT LEFT FENDER
IF	36	LEFT KICK PANEL
IG	36	INSTRUMENT PANEL BRACE LH

: SPLICE POINTS

	·					
CODE	SEE PAGE	PAGE WIRE HARNESS WITH SPLICE POINTS		SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	
E 4	24	ENGINE ROOM MAIN WIRE	I 23	20	COWL WIRE	
E 20	- 34	ENGINE ROOM MAIN WIRE	I 36	30	COWL WIRE	
I 21	38	COWL WIRE				

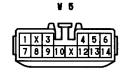


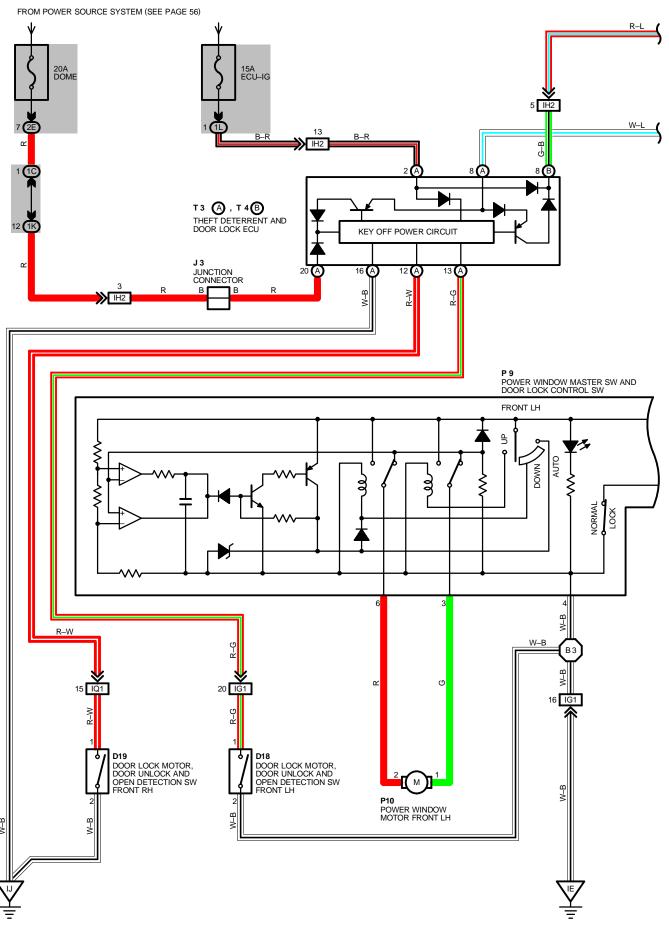
C11 BLACK



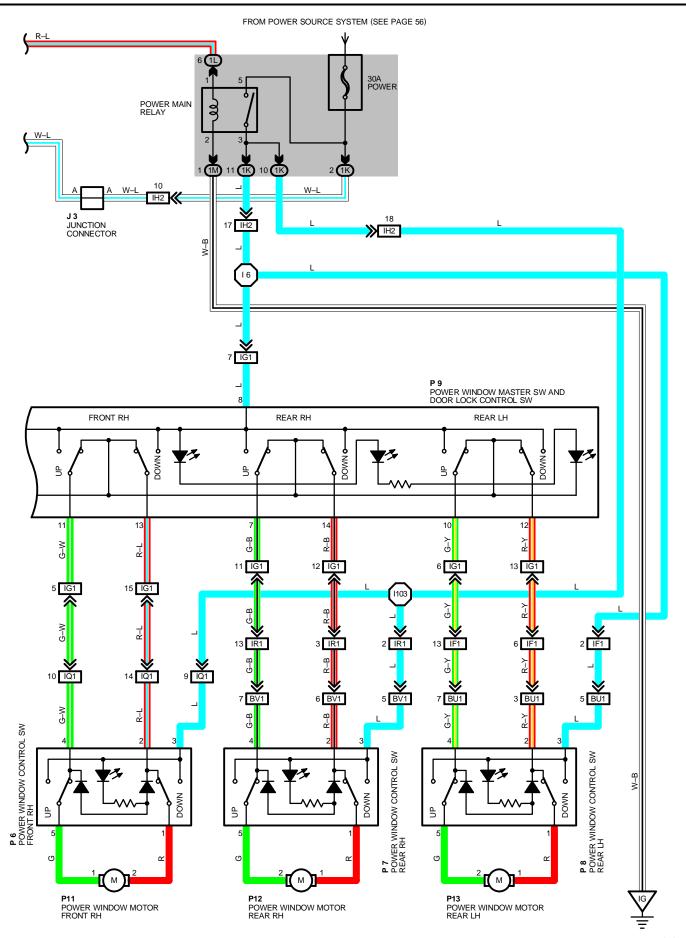








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POWER WINDOW

SYSTEM OUTLINE

WHEN THE IGNITION SW TURNED ON, CURRENT FLOWS THROUGH THE **ECU-IG** FUSE \rightarrow **TERMINAL (A)2** OF THEFT DETERRENT AND DOOR LOCK ECU \rightarrow **TERMINAL (B)8** \rightarrow **TERMINAL 1** OF THE POWER MAIN RELAY \rightarrow **TERMINAL 2** \rightarrow **TO GROUND.** THIS ACTIVATES THE RELAY AND THE CURRENT FLOWING TO **TERMINAL 5** OF THE RELAY FROM **POWER** FUSE FLOWS TO **TERMINAL 3** OF THE RELAY \rightarrow **TERMINAL 8** OF THE POWER WINDOW MASTER SW, **TERMINAL 3** (FRONT RH) AND **TERMINAL 3** (REAR LH, RH) OF THE POWER WINDOW SW.

1. MANUAL OPERATION (DRIVER'S WINDOW)

WITH THE IGNITION SW TURNED ON AND WITH THE POWER WINDOW MASTER SW (DRIVER'S) IN **UP** POSITION, THE CURRENT FLOWING TO **TERMINAL 8** OF THE POWER WINDOW MASTER SW FLOWS TO **TERMINAL 3** OF THE MASTER SW \rightarrow **TERMINAL 1** OF THE POWER WINDOW MOTOR \rightarrow **TERMINAL 2** \rightarrow **TERMINAL 6** OF THE MASTER SW \rightarrow **TERMINAL 4** \rightarrow TO **GROUND** AND CAUSES THE POWER WINDOW MOTOR TO ROTATE IN THE UP DIRECTION. THE WINDOW ASCENDS ONLY WHILE THE SW IS BEING PUSHED. IN DOWN OPERATION, THE FLOW OF CURRENT FROM \rightarrow **TERMINAL 8** OF THE POWER WINDOW MASTER SW TO **TERMINAL 6** OF THE MASTER SW CAUSES THE FLOW OF CURRENT FROM **TERMINAL 2** OF THE MOTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 3** OF THE MASTER SW \rightarrow **TERMINAL 4** \rightarrow TO **GROUND**, FLOWING IN THE OPPOSITE DIRECTION TO MANUAL UP OPERATION AND CAUSING THE MOTOR TO ROTATE IN REVERSE. LOWERING THE WINDOW.

2. AUTO DOWN OPERATION

WHEN THE DRIVER'S WINDOW SW IN THE POWER WINDOW MASTER SW IS PUSHED STRONGLY ON THE DOWN SIDE, CURRENT FLOWS FROM **TERMINAL 8** OF THE MASTER SW \rightarrow **TERMINAL 6** \rightarrow **TERMINAL 2** OF THE POWER WINDOW MOTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 3** OF THE MASTER SW \rightarrow **TERMINAL 4** \rightarrow **GROUND.** BECAUSE THE HOLD CIRCUIT INSIDE THE MASTER SW KEEPS THE RELAY ON THE DOWN SIDE ACTIVATED, THE POWER WINDOW MOTOR CONTINUES OPERATING EVEN IF THE POWER WINDOW MASTER SW IS RELEASED. WHEN THE DRIVER'S WINDOW IS FULLY LOWERED, THE HOLD CIRCUIT TURNS OFF AND THE RELAY ON THE DOWN SIDE TURNS OFF. SO AUTO DOWN OPERATION STOPS.

3. STOPPING OF AUTO DOWN AT DRIVER'S WINDOW

WHEN THE MANUAL SW (DRIVER'S) IS PULLED TO THE UP SIDE DURING AUTO DOWN OPERATION, A GROUND CIRCUIT OPENS IN THE MASTER SW AND CURRENT DOES NOT FLOW FROM **TERMINAL 3** OF THE MASTER SW \rightarrow TO **TERMINAL 4**, SO THE MOTOR STOPS, CAUSING AUTO DOWN OPERATION TO STOP. IF THE MASTER SW IS PULLED CONTINUOUS, THE MOTOR ROTATES IN THE UP DIRECTION IN MANUAL UP OPERATION.

4. MANUAL OPERATION BY POWER WINDOW SW (PASSENGER'S WINDOW)

WITH POWER WINDOW SW (PASSENGER'S) PULLED TO THE UP SIDE, CURRENT FLOWING FROM **TERMINAL 3** OF THE POWER WINDOW SW FLOWS TO **TERMINAL 5** OF THE POWER WINDOW SW \rightarrow **TERMINAL 1** OF THE POWER WINDOW MOTOR \rightarrow **TERMINAL 2** \rightarrow **TERMINAL 1** OF THE POWER WINDOW SW \rightarrow **TERMINAL 2** \rightarrow **TERMINAL 1** OF THE MASTER SW \rightarrow **TERMINAL 4** \rightarrow TO **GROUND** AND CAUSES THE POWER WINDOW MOTOR (PASSENGER'S) TO ROTATE IN THE UP DIRECTION. UP OPERATION CONTINUES ONLY WHILE THE POWER WINDOW SW IS PULLED TO THE UP SIDE. WHEN THE WINDOW DESCENDS, THE CURRENT FLOWING TO THE MOTOR FLOWS IN THE OPPOSITE DIRECTION, FROM **TERMINAL 1** TO **TERMINAL 2**, AND THE MOTOR ROTATES IN REVERSE. WHEN THE WINDOW LOCK SW IS PUSHED TO THE LOCK SIDE, THE GROUND CIRCUIT TO THE PASSENGER'S WINDOW BECOMES OPEN. AS A RESULT, EVEN IF OPEN/CLOSE OPERATION OF THE PASSENGER'S WINDOW IS TRIED, THE CURRENT FROM **TERMINAL 4** OF THE POWER WINDOW MASTER SW IS NOT GROUNDED AND THE MOTOR DOES NOT ROTATE, SO THE PASSENGER'S WINDOW CAN NOT BE OPERATED AND WINDOW LOCK OCCURS. FURTHERMORE REAR LH, RH WINDOW OPERATE THE SAME AS THE ABOVE CIRCUIT.

5. KEY OFF POWER WINDOW OPERATION

WITH IGNITION SW TURNED FROM ON TO OFF, THE THEFT DETERRENT AND DOOR LOCK ECU OPERATES AND CURRENT FLOWS FROM POWER FUSE TO TERMINAL (A)8 OF THE ECU OR DOME FUSE TO TERMINAL (A)20 OF THE ECU \rightarrow TERMINAL (B)8 \rightarrow TERMINAL 1 OF POWER MAIN RELAY \rightarrow TERMINAL 2 \rightarrow TO GROUND FOR ABOUT 60 SECONDS. THE SAME AS NORMAL OPERATION, THE CURRENT FLOWS FROM POWER FUSE \rightarrow TERMINAL 5 OF THE POWER MAIN RELAY \rightarrow TO TERMINAL 3 \rightarrow TERMINAL 8 OF THE POWER WINDOW MASTER SW AND TERMINAL 3 OF THE POWER MAIN RELAY \rightarrow TO TERMINAL 3 OF THE POWER WINDOW SW. AS A RESULT, FOR ABOUT 60 SECONDS AFTER THE IGNITION SW IS TURNED OFF, THE FUNCTIONING OF THIS RELAY MAKES IT POSSIBLE TO RAISE AND LOWER THE POWER WINDOW. ALSO, BY OPENING THE FRONT DOOR (DOOR OPEN DETECTION SW ON) WITHIN ABOUT 60 SECONDS AFTER TURNING THE IGNITION SW TO OFF, A SIGNAL IS INPUT TO TERMINALS (A)12 OR (A)13 OF THEFT DETERRENT AND DOOR LOOK ECU. AS A RESULT, THE ECU TURNS OFF AND UP AND DOWN MOVEMENT OF THE POWER WINDOW STOPS.

SERVICE HINTS

P 9 POWER WINDOW MASTER SW AND DOOR LOCK CONTROL SW

8-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

4-GROUND: ALWAYS CONTINUITY

3-GROUND: APPROX. 12 VOLTS WITH IGNITION SW ON AND MASTER SW (DRIVER'S WINDOW) UP

6-GROUND: APPROX. 12 VOLTS WITH IGNITION SW ON AND MASTER SW (DRIVER'S WINDOW) AT DOWN OR AUTO DOWN

POSITION

WINDOW LOCK SW

OPEN WITH WINDOW LOCK SW AT LOCK POSITION

O : PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CO	DE	SEE PAGE
D18	32	P 8	32	P	13	32
D19	32	P 9	32	T 3	Α	31
J 3	31	P10	32	T 4	В	31
P 6	32	P11	32			
P 7	32	P12	32			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1C		
1K	00	COMUNIDE AND UD NO 4 (INOTRI MENT DANIEL LEET)
1L	20	COWL WIRE AND J/B NO.1 (INSTRUMENT PANEL LEFT)
1M		
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IF1	34	FLOOR NO. 1 WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IG1	36	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IQ1	38	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IR1	38	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
BW1	40	FUEL GAUGE WIRE AND FLOOR NO. 1 WIRE (UNDER THE REAR SEAT CUSHION)
BX1	40	FLOOR NO. 1 WIRE AND FLOOR NO. 2 WIRE (BEHIND PACKAGE TRAY TRIM)

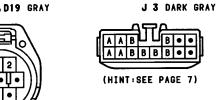
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IE	36	LEFT KICK PANEL
IG	36	INSTRUMENT PANEL BRACE LH
IJ	36	RIGHT KICK PANEL

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
16	20	INSTRUMENT PANEL WIRE	B 3	40	FRONT DOOR LH WIRE
I103	30	INSTRUMENT PANEL WIRE			

D18. D19 GRAY



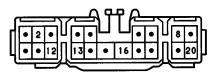


P 6.P 7.P 8

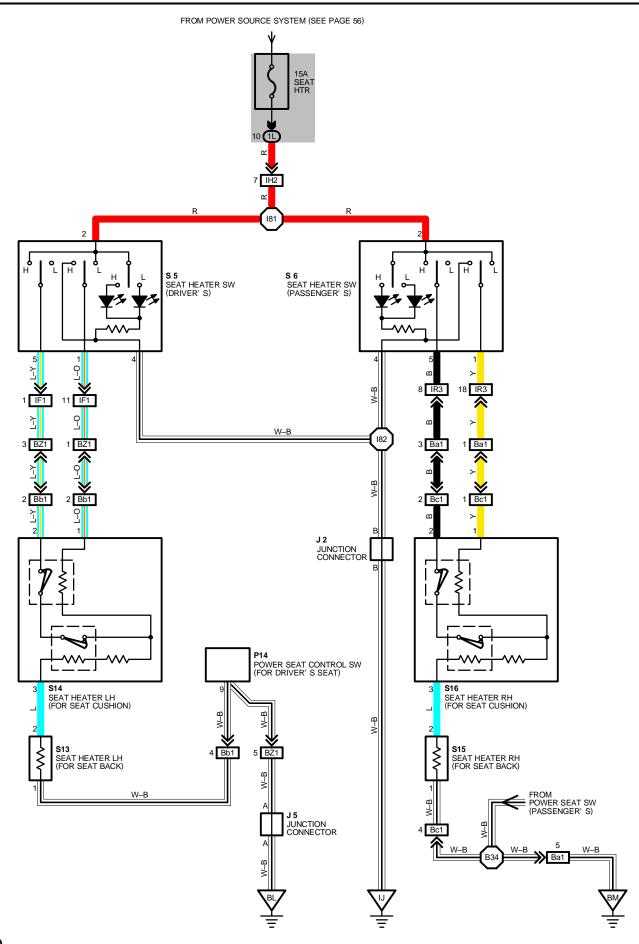




T 3(A) ORANGE







SERVICE HINTS

S 5, S 6 SEAT HEATER SW

2-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

4-GROUND : ALWAYS CONTINUITY

2–5 : CONTINUITY WITH SEAT HEATER SW AT $\bf HIGH$ POSITION 2–1 : CONTINUITY WITH SEAT HEATER SW AT $\bf LOW$ POSITION

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
J 2	31	S 5	31	S14	33
J 5	32	S 6	31	S15	33
P14	33	S13	33	S16	33

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1L	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

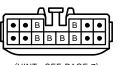
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IF1	34	FLOOR NO.1 WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IR3	38	INSTRUMENT PANEL WIRE AND FLOOR NO. 2 WIRE (UNDER THE PASSENGER'S SEAT)
BZ1	42	FLOOR NO. 1 WIRE AND SEAT LH NO. 1 WIRE (UNDER THE DRIVER'S SEAT)
Ba1	42	FLOOR NO.2 WIRE AND SEAT RH NO.1 WIRE (UNDER THE PASSENGER'S SEAT)
Bb1	42	SEAT LH NO. 2 WIRE AND SEAT LH NO.1 WIRE (UNDER THE DRIVER'S SEAT)
Bc1	42	SEAT RH NO. 2 WIRE AND SEAT RH NO.1 WIRE (UNDER THE PASSENGER'S SEAT)

7 : GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IJ	36	RIGHT KICK PANEL
BL	40	UNDER THE LEFT QUARTER PILLAR
ВМ	40	UNDER THE RIGHT QUARTER PILLAR

: SPLICE POINTS

	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
Ī	I 81	20	INSTRUMENT DANIEL WIDE	B 34	42	SEAT LH NO. 1 WIRE
Ī	I 82	30	INSTRUMENT PANEL WIRE			

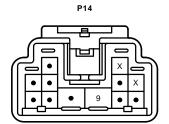


J 2

(HINT: SEE PAGE 7)



(HINT : SEE PAGE 7)



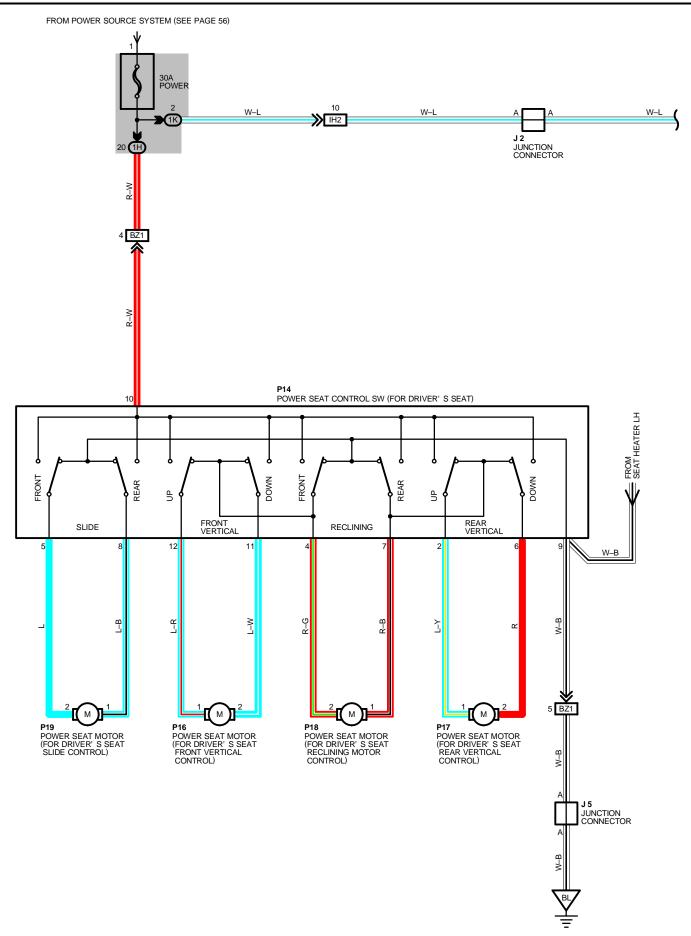
S 5, S 6

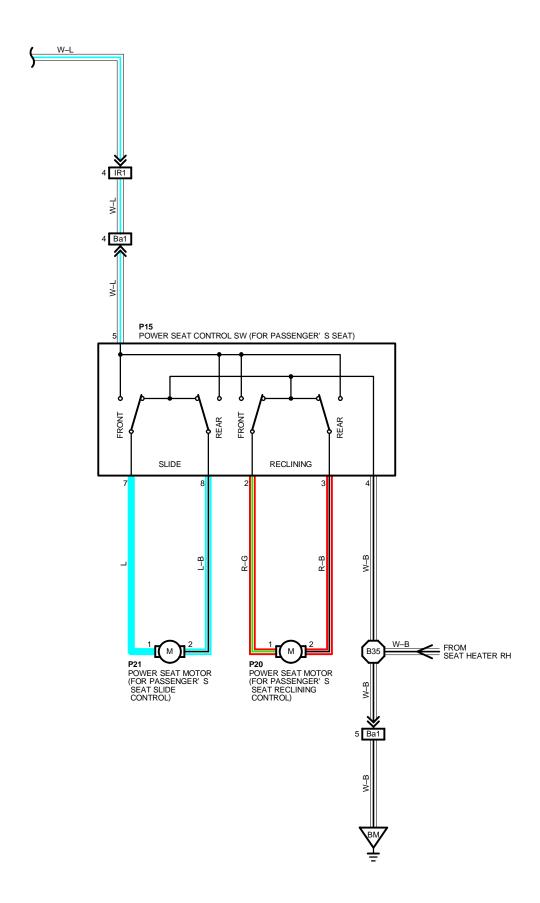


S13, S15

S14, S16







POWER SEAT

SERVICE HINTS

P14 POWER SEAT CONTROL SW (FOR DRIVER'S SEAT)

10-GROUND: ALWAYS APPROX. 12 VOLTS
9-GROUND: ALWAYS CONTINUITY

P15 POWER SEAT CONTROL SW (FOR PASSENGER'S SEAT)

5-GROUND: ALWAYS APPROX. **12** VOLTS 4-GROUND: ALWAYS CONTINUITY

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
J 2	31	P16	33	P20	33
J 5	32	P17	33	P21	33
P14	33	P18	33		
P15	33	P19	33		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1H	20	FLOOR NO. 1 WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1K	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

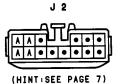
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IR1	38	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
BZ1	42	FLOOR NO. 1 WIRE AND SEAT LH NO. 1 WIRE (UNDER THE DRIVER'S SEAT)
Ba1	42	FLOOR NO. 2 WIRE AND SEAT RH NO. 1 WIRE (UNDER THE PASSENGER'S SEAT)

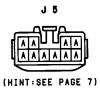
7 : GROUND POINTS

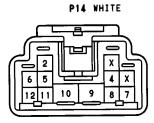
CODE	SEE PAGE	GROUND POINTS LOCATION
BL 40 UNDER THE LEFT QUARTER PILLAR		UNDER THE LEFT QUARTER PILLAR
BM 40 UNDER THE RIGHT QUARTER PILLAR		UNDER THE RIGHT QUARTER PILLAR

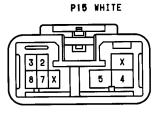
: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
B 35 42 SEAT RH NO. 1 WIRE					









P16, P17 ORANGE

P18.P20 WHITE

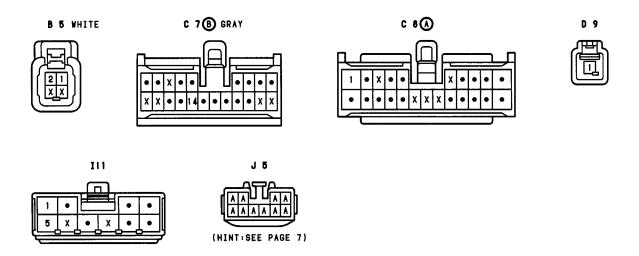
P19, P21 GRAY

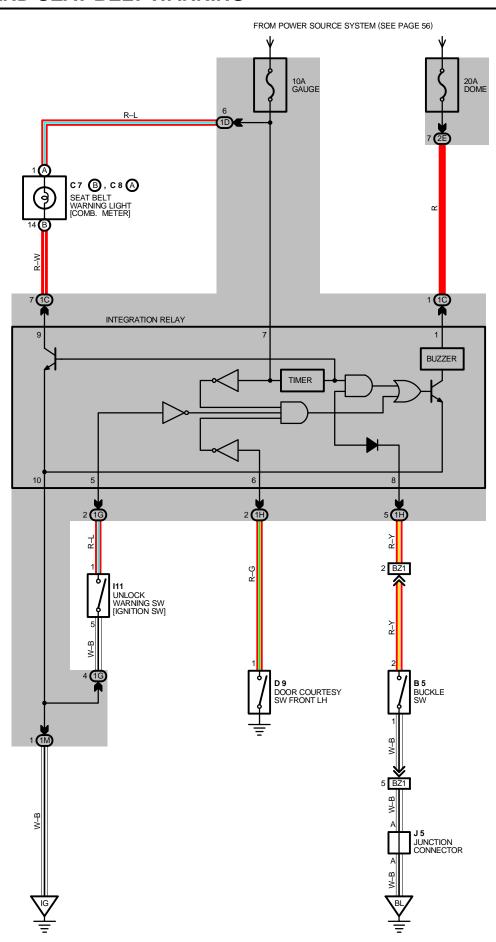






UNLOCK AND SEAT BELT WARNING





SYSTEM OUTLINE

CURRENT ALWAYS FLOWS TO TERMINAL 1 OF THE INTEGRATION RELAY THROUGH THE DOME FUSE.

1. SEAT BELT WARNING SYSTEM

WHEN THE IGNITION SW IS TURNED ON, CURRENT FLOWS FROM THE **GAUGE** FUSE TO THE **TERMINAL 7** OF THE INTEGRATION RELAY AT THE SAME TIME, CURRENT FLOWS TO **TERMINAL 9** OF THE RELAY FROM THE **GAUGE** FUSE THROUGH THE SEAT BELT WARNING LIGHT. THIS CURRENT ACTIVATES THE SEAT BELT WARNING RELAY AND, FOR APPROX. **4–8** SECONDS, CURRENT FLOWING THROUGH THE WARNING LIGHT FLOWS FROM **TERMINAL 9** OF THE RELAY \rightarrow **TERMINAL 10** \rightarrow **GROUND**, CAUSING THE WARNING LIGHT TO LIGHT UP. AT THE SAME AS THE WARNING LIGHT LIGHTS UP, A BUCKLE SW OFF SIGNAL IS INPUT TO **TERMINAL 8** OF THE RELAY, THE CURRENT FLOWING TO **TERMINAL 1** OF THE RELAY FLOWS FROM **TERMINAL 10** \rightarrow **GROUND** AND THE SEAT BELT WARNING BUZZER SOUNDS FOR APPROX. **4–8** SECONDS. HOWEVER, IF SEAT BELT IS PUT ON DURING THIS PERIOD (WHILE THE BUZZER IS SOUNDING), SIGNAL INPUT TO **TERMINAL 4** OF THE RELAY STOPS AND THE CURRENT FLOW FROM **TERMINAL 1** OF THE RELAY \rightarrow **TERMINAL 10** \rightarrow **GROUND** IS CUT, CAUSING THE BUZZER TO STOP.

2. UNLOCK WARNING SYSTEM

WITH THE IGNITION KEY INSERTED IN THE KEY CYLINDER (UNLOCK WARNING SW ON), THE IGNITION SW STILL OFF AND DOOR OPEN (DOOR COURTESY SW ON), WHEN A SIGNAL IS INPUT **TERMINALS 5** AND **6** OF THE RELAY, THE INTEGRATION RELAY OPERATES, CURRENT FLOWS FROM **TERMINAL 1** OF THE RELAY \rightarrow **TERMINAL 10** \rightarrow **GROUND** AND THE UNLOCK WARNING BUZZER SOUNDS.

SERVICE HINTS

B 5 BUCKLE SW

1-2: CLOSED WITH DRIVER'S LAP BELT USE

D9 DOOR COURTESY SW FRONT LH

1-GROUND: CLOSED WITH FRONT LH DOOR OPEN

INTEGRATION RELAY

10-GROUND: ALWAYS CONTINUITY

6-GROUND: CONTINUITY WITH FRONT LH DOOR OPEN
5-GROUND: CONTINUITY WITH IGNITION KEY IN CYLINDER
8-GROUND: CONTINUITY UNLESS DRIVER'S LAP BELT IN USE

9-GROUND : 0 VOLTS FOR 4-8 SECONDS WITH IGNITION SW ON AND 12 VOLTS 4-8 SECONDS AFTER IGNITION SW ON

1-GROUND : ALWAYS APPROX. 12 VOLTS

7-GROUND : APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

I11 UNLOCK WARNING SW [IGNITION SW]

1-5: CLOSED WITH IGNITION KEY CYLINDER

: PARTS LOCATION

	CODE		SEE PAGE		DE	SEE PAGE	CODE	SEE PAGE
	B 5		33	C 8	Α	30	I11	31
C 7	'	В	30	D	9	32	J 5	32

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

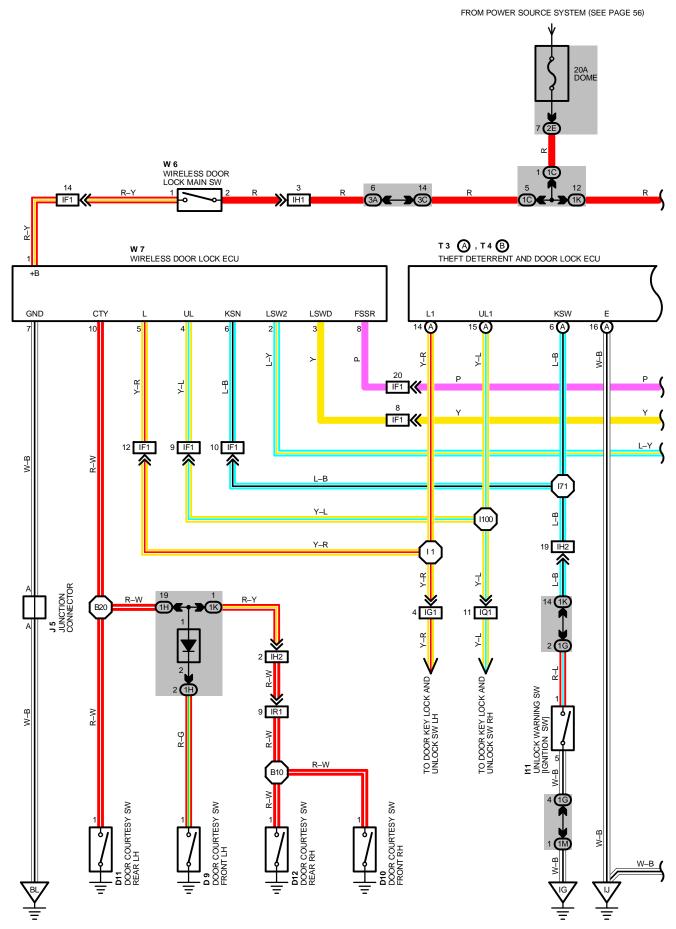
CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)			
1C					
1D	20	COWL WIRE AND J/B NO.1 (INSTRUMENT PANEL LEFT)			
1G					
1H	20	FLOOR NO. 1 WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)			

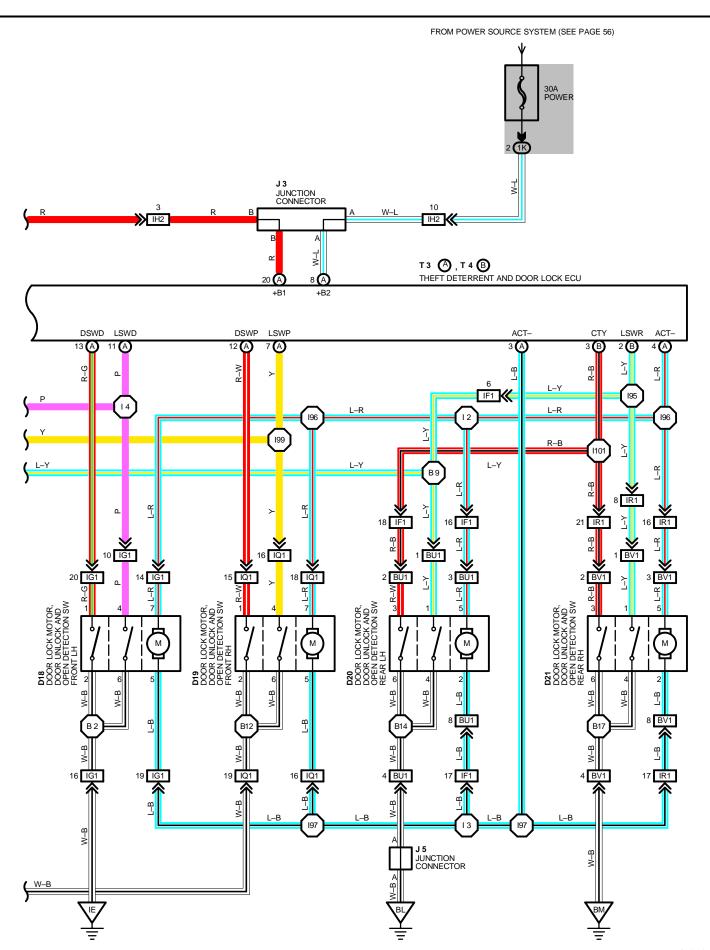
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
BZ1	42	FLOOR NO. 1 WIRE AND SEAT LH NO. 1 WIRE (UNDER THE DRIVER'S SEAT)

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IG	36	INSTRUMENT PANEL BRACE LH
BL	40	UNDER THE LEFT QUARTER PILLAR





WIRELESS DOOR LOCK CONTROL

SYSTEM OUTLINE

DOOR LOCK CONTROL (LOCK AND UNLOCK) IS PERFORMED BY REMOTE CONTROL, WITHOUT THE IGNITION KEY INSERTED IN THE DOOR KEY CYLINDER, USING LOW-POWER RADIO WAVES EMITTED BY A TRANSMITTER BUILT INTO IGNITION KEY.

1. WIRELESS DOOR LOCK OR UNLOCK NORMAL OPERATION

WITH THE WIRELESS DOOR LOCK MAIN SW ON, THE IGNITION KEY NOT INSERTED INTO THE IGNITION KEY CYLINDER (UNLOCK WARNING SW OFF) AND ALL THE DOORS COMPLETELY CLOSED, WHEN THE SW (TRANSMITTER) ON THE IGNITION KEY IS PUSHED, THE WIRELESS DOOR LOCK ECU RECEIVES THE ELECTRICAL WAVES FROM THE IGNITION KEY (TRANSMITTER), CAUSING IT TO OPERATE.

AS A RESULT, THE ECU JUDGES WHETHER THE DOOR IS LOCKED OR UNLOCKED BASED ON THE SIGNAL FROM THE DOOR LOCK MOTOR, AND SENDS A SIGNAL TO THE DOOR LOCK ECU TO SW THE CONDITION FROM LOCK TO UNLOCK OR VICE VERSA, CAUSING THE DOOR LOCK MOTOR TO OPERATE (FOR THE CURRENT FLOW DURING LOCK AND UNLOCK REFER TO THE DOOR LOCK CONTROL SYSTEM.)

2. AUTO LOCK OPERATION

AFTER PUSHING THE IGNITION KEY SW (TRANSMITTER) TO UNLOCK ALL THE DOORS, IF A DOOR IS NOT OPENED WITHIN 30 SECONDS, ALL OF THE DOORS ARE AUTOMATICALLY LOCKED AGAIN.

3. WIRELESS DOOR LOCK STOP FUNCTION

IF A DOOR IS OPEN (DOOR COURTESY SW ON), A SIGNAL IS INPUT FROM THE DOOR COURTESY SW TO THE WIRELESS DOOR LOCK ECU, STOPPING WIRELESS DOOR LOCK OR UNLOCK.

IF THE IGNITION KEY IS IN THE IGNITION KEY CYLINDER (UNLOCK WARNING SW ON), THE UNLOCK WARNING SW INPUT A SIGNAL TO THE WIRELESS DOOR LOCK ECU, STOPPING WIRELESS DOOR LOCK OR UNLOCK.

4. DOOR LOCK MOTOR PROTECTIVE FUNCTION

IF THE DOOR LOCK OR UNLOCK CONDITION DOES NOT CHANGE AFTER WIRELESS DOOR LOCK OR UNLOCK OPERATION, THE DOOR LOCK ECU SENDS CURRENT TEN TIMES TO THE DOOR LOCK MOTOR. IF THE DOOR LOCK CONDITION STILL HAS NOT CHANGED AS A RESULT THE WIRELESS DOOR LOCK ECU STOPS RECEPTION AND STOPS DOOR LOCK AND UNLOCK FUNCTION.

BY MANUALLY OPERATION THE DOOR LOCK OR UNLOCK, THE STOP CONDITION OF THE WIRELESS DOOR LOCK FUNCTION IS RELEASED.

SERVICE HINTS

D 9, D10, D11, D12 DOOR COURTESY SW

1-GROUND: CLOSED WITH DOOR OPENED

111 UNLOCK WARNING SW [IGNITION SW]

1-5 : CLOSED WITH IGNITION KEY IN CYLINDER

W7 WIRELESS DOOR LOCK ECU

1-GROUND: APPROX. 12 VOLTS WITH WIRELESS DOOR LOCK MAIN SW ON

7-GROUND: ALWAYS CONTINUITY

10-GROUND: CONTINUITY WITH EACH DOOR OPENED 6-GROUND: CONTINUITY WITH IGNITION KEY IN CYLINDER

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE		SEE PAGE
D 9	32	D19	32	J 5		32
D10	32	D20	32	T 3	Α	31
D11	32	D21	32	T 4	В	31
D12	32	l11	31	W 6		31
D18	32	J 3	31	W 7		32

) : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)			
1C	20	COMUNIDE AND UD NO 4 (INCEDIMENT DANEL LEET)			
1G	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1H	20	FLOOR NO. 1 WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1K	20	COMUNIDE AND UD NO 4 (INCEDIMENT DANIEL LEET)			
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)			
3A	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)			
3C	24	COVVE WIRE AND 3/D NO. 3 (DEFINAL COMIDINALION WELLER)			

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

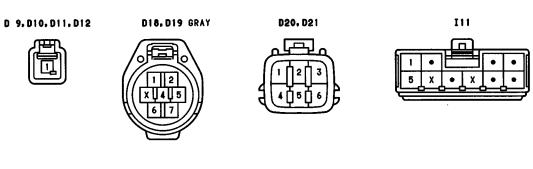
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IF1	34	FLOOR NO.1 WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IG1	36	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH1	36	COWL WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IQ1	38	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IR1	38	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
BU1	40	REAR DOOR LH WIRE AND FLOOR NO. I WIRE (LEFT CENTER PILLAR)
BV1	40	REAR DOOR RH WIRE AND FLOOR NO. 2 WIRE (RIGHT CENTER PILLAR)

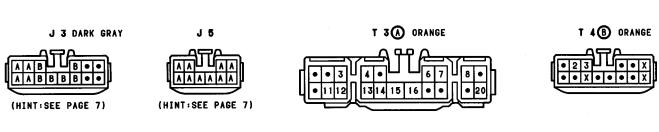
: GROUND POINTS

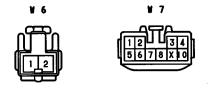
CODE	SEE PAGE	GROUND POINTS LOCATION
IE	36	LEFT KICK PANEL
IG	36	INSTRUMENT PANEL BRACE LH
IJ	36	RIGHT KICK PANEL
BL	40	UNDER THE LEFT QUARTER PILLAR
ВМ	40	UNDER THE RIGHT QUARTER PILLAR

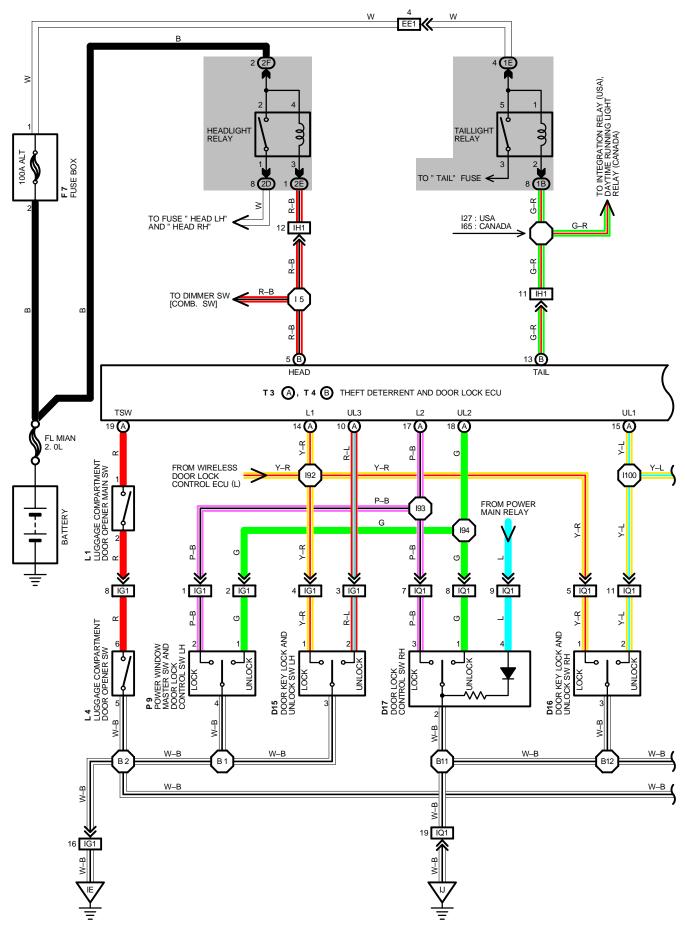
: SPLICE POINTS

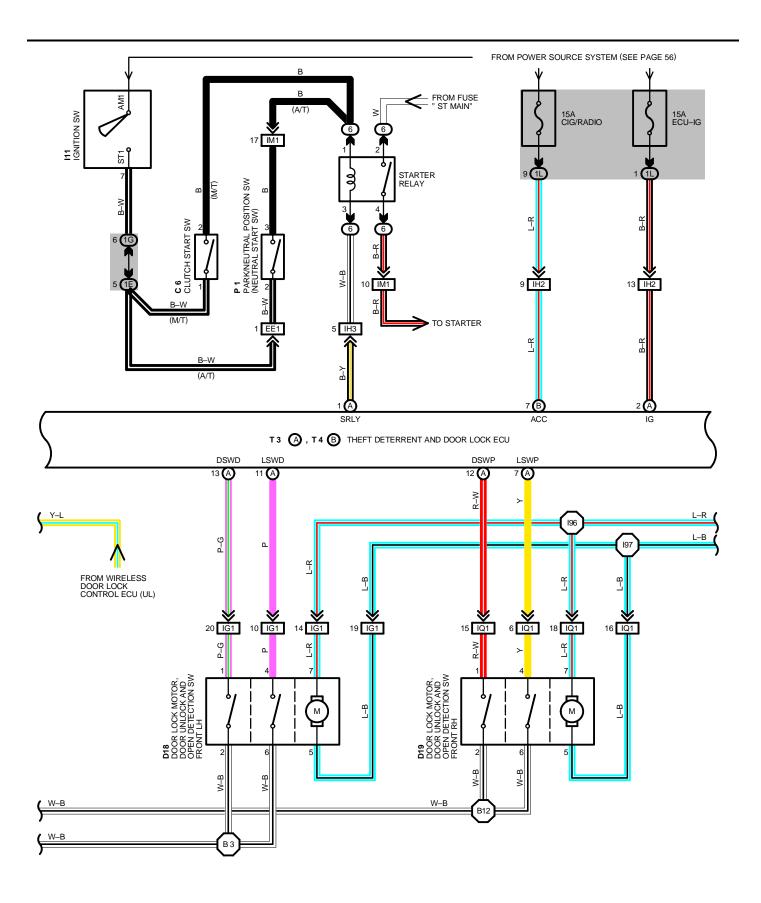
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I1			I100	- 38	INSTRUMENT PANEL WIRE
12		IN COURT IN COURT DANIES AND E	I101	30	INSTRUMENT PANEL WIRE
13	38	INSTRUMENT PANEL WIRE	B 2	40	FRONT DOOR LH WIRE
14			B 9	40	FLOOR NO. 1 WIRE
I 71	38	INSTRUMENT PANEL WIRE	B 10	40	FLOOR NO. 2 WIRE
I 95	- 38	INSTRUMENT PANEL WIRE	B 12	40	FRONT DOOR RH WIRE
I 96			B 14	40	REAR DOOR LH WIRE
I 97			B 17	40	REAR DOOR RH WIRE
I 99			B 20	40	FLOOR NO. 1 WIRE

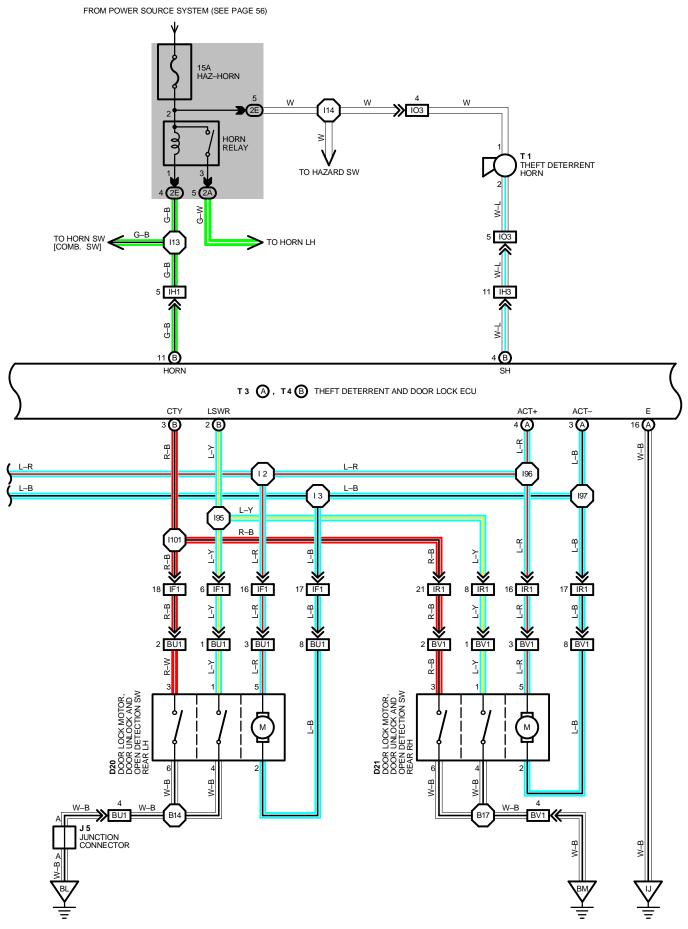


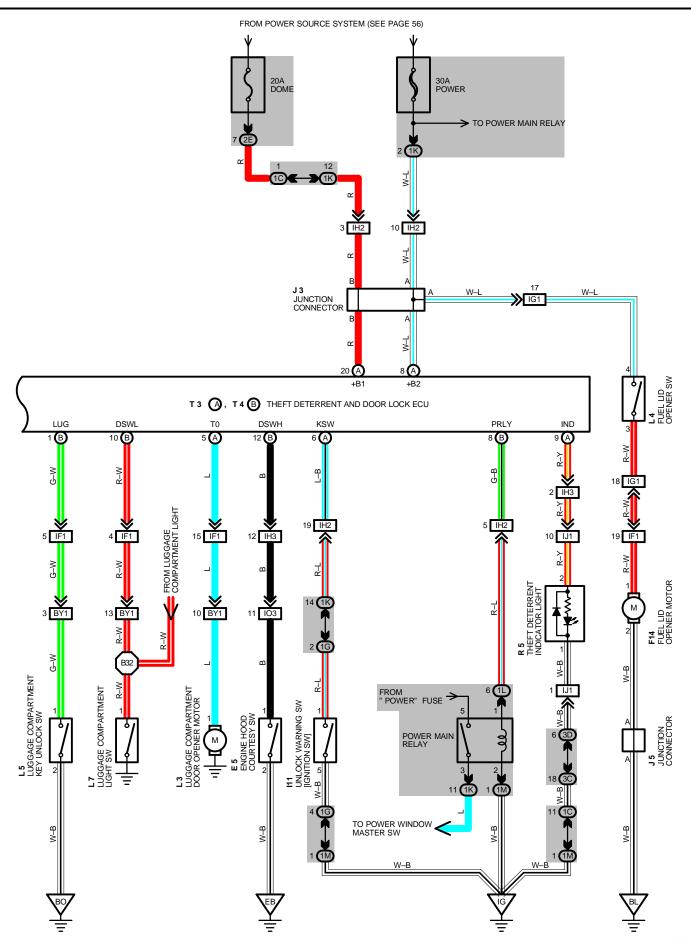












SYSTEM OUTLINE

CURRENT ALWAYS FLOWS TO **TERMINAL (A)8** OF THE DOOR LOCK ECU THROUGH THE **POWER** FUSE, AND TO **TERMINAL (A)20** THROUGH THE **DOME** FUSE.

WHEN THE IGNITION SW TURNED ON, THE CURRENT FLOWING THROUGH THE **ECU-IG** FUSE \rightarrow **TERMINAL (A)2** OF THE ECU \rightarrow **TERMINAL (B)8** FLOWS THROUGH THE COIL SIDE OF THE POWER MAIN RELAY TO **GROUND**, CAUSING THE RELAY TO OPERATE. THE CURRENT FLOWING THROUGH THE **POWER** FUSE FLOWS TO THE DOOR LOCK CONTROL SWITCHES, CAUSING THE INDICATOR LIGHT TO LIGHT UP.

1. MANUAL LOCK OPERATION

WHEN THE DOOR CONTROL SW OR KEY SW ARE PUSHED TO LOCK POSITION, A LOCK SIGNAL IS INPUT TO TERMINAL (A)17, (A)14 (FOR KEY SW) OF THE DOOR LOCK ECU AND CAUSES THE ECU TO FUNCTION. CURRENT FLOWS FROM TERMINAL (A)8 OF THE ECU \rightarrow TERMINAL (A)4 \rightarrow TERMINAL 7 (FRONT), TERMINAL 5 (REAR) OF THE DOOR LOCK MOTORS \rightarrow TERMINAL 5 (FRONT), 2 (REAR) \rightarrow TERMINAL (A)3 OF THE ECU \rightarrow TERMINAL (A) 16 \rightarrow TO GROUND AND THE DOOR LOCK MOTOR CAUSES THE DOOR TO LOCK.

2. MANUAL UNLOCK OPERATION

WHEN THE DOOR LOCK CONTROL SW OR KEY SW ARE PUSHED TO **UNLOCK** POSITION, AN UNLOCK SIGNAL IS INPUT TO **TERMINAL (A)18, (A)10** (FOR KEY SW LH) OR **(A)15** (FOR KEY SW RH) OF THE DOOR LOCK ECU AND CAUSES TO FUNCTION. CURRENT FLOWS FROM **TERMINAL (A)8** OF THE ECU \rightarrow **TERMINAL (A)3** \rightarrow **TERMINAL 5** (FRONT), **2** (REAR) OF THE DOOR LOCK MOTORS \rightarrow **TERMINAL 7** (FRONT), **TERMINAL 5** (REAR) \rightarrow **TERMINAL (A)4** OF THE ECU \rightarrow **TERMINAL (A)16** \rightarrow TO **GROUND** AND THE DOOR LOCK MOTOR CAUSES THE DOOR TO UNLOCK.

WHEN UNLOCK OPERATION OCCURS USING THE LH DOOR KEY SW, PERFORMING THE UNLOCK OPERATION ONCE UNLOCKS ONLY THE DRIVER'S DOOR. TO UNLOCK ALL THE OTHER DOORS TOGETHER, UNLOCK OPERATION MUST BE PERFORMED AGAIN WITHIN 3 SECONDS OF THE FIRST OPERATION.

3. IGNITION KEY REMINDER OPERATION

* OPERATION OF DOOR LOCK BUTTON (OPERATION OF DOOR LOCK MOTORS)

WHEN THE IGNITION KEY IS IN THE CYLINDER (UNLOCK WARNING SW ON) AND THE DOOR IS OPENED AND LOCKED USING DOOR LOCK BUTTON (DOOR LOCK MOTOR), THE DOOR IS LOCKED ONCE BUT EACH DOOR IS UNLOCKED SOON BY THE OPERATION OF THE ECU. AS A RESULT OF ECU ACTIVATION, THE CURRENT FLOWS FROM TERMINAL (A)8 OF THE ECU \rightarrow TERMINAL (A)3 \rightarrow TERMINAL 5 (FRONT), 2 (REAR) OF THE DOOR LOCK MOTORS \rightarrow TERMINAL 7 (FRONT), TERMINAL 5 (REAR) \rightarrow TERMINAL (A)4 OF THE ECU \rightarrow TERMINAL (A)16 \rightarrow TO GROUND AND CAUSES ALL THE DOOR LOCK CONTROL SW AND DOOR LOCK KEY SW.

* KEY LESS LOCK OPERATION

WHEN THE IGNITION KEY IS STILL INSERTED IN THE CYLINDER (UNLOCK WARNING SW ON), THE DOOR IS OPEN AND UNLOCK OPERATION IS PREVENTED BY KEEPING THE DOOR LOCK BUTTON PRESSED TO THE LOCK SIDE, THE DOOR IS KEPT IN THE LOCK CONDITION. IF THE DOOR IS THEN CLOSED, A SIGNAL IS INPUT TO THE ECU FROM THE DOOR COURTESY SW. THIS ACTIVATES THE ECU AND EACH DOOR IS UNLOCKED.

SERVICE HINTS -

D15, D16 DOOR KEY LOCK AND UNLOCK SW LH, RH

2-3: CLOSED WITH DOOR LOCK CYLINDER UNLOCKED WITH KEY

1-3: CLOSED WITH DOOR LOCK CYLINDER LOCKED WITH KEY

D18, D19 DOOR LOCK MOTOR FRONT LH, RH

4-6: CLOSED WITH UNLOCK POSITION

D20, D21 DOOR LOCK MOTOR REAR LH, RH

1-4 : CLOSED WITH UNLOCK POSITION

E 5 ENGINE HOOD COURTESY SW

1–2 : CLOSED WITH ENGINE HOOD OPEN

111 UNLOCK WARNING SW [IGNITION SW]

1-5: CLOSED WITH IGNITION KEY IN CYLINDER

L 5 LUGGAGE COMPARTMENT KEY UNLOCK SW

1-2: CLOSED WITH LUGGAGE COMPARTMENT DOOR LOCK CYLINDER UNLOCK WITH KEY

L 7 LUGGAGE COMPARTMENT LIGHT SW

1-GROUND: CLOSED WITH DOOR OPEN

T 3(A) THEFT DETERRENT AND DOOR LOCK ECU

- 1-GROUND: APPROX. 12 VOLTS WITH SHIFT LEVER IN N OR P POSITION AND IGNITION SW AT ST POSITION
- 2-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION
- 6-GROUND: CONTINUITY WITH IGNITION KEY IN CYLINDER
- 7-GROUND: CONTINUITY WITH FRONT RH DOOR TO UNLOCK POSITION
- 8-GROUND: ALWAYS APPROX. 12 VOLTS
- 10-GROUND: CONTINUITY WITH DOOR LOCK KEY SW LH TO UNLOCK POSITION
- 11-GROUND: CONTINUITY WITH FRONT LH DOOR TO UNLOCK POSITION
- 12-GROUND: CONTINUITY WITH FRONT RH DOOR OPENED
- 13-GROUND: CONTINUITY WITH FRONT LH DOOR OPENED
- 14-GROUND: CONTINUITY WITH DOOR LOCK KEY SW RH TO LOCK POSITION
- 16-GROUND: ALWAYS CONTINUITY
- 15-GROUND: CONTINUITY WITH DOOR LOCK KEY SW RH TO UNLOCK POSITION
- 20-GROUND: ALWAYS APPROX. 12 VOLTS

T 4(B) THEFT DETERRENT AND DOOR LOCK ECU

- 1-GROUND: CONTINUITY WITH LUGGAGE COMPARTMENT DOOR TO UNLOCK POSITION
- 3-GROUND: CONTINUITY WITH DOOR OPEN
- 12-GROUND: CONTINUITY WITH ENGINE HOOD OPEN
- 10-GROUND: CONTINUITY WITH LUGGAGE COMPARTMENT DOOR OPEN
- 7-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ACC OR ON POSITION
- 2-GROUND: CONTINUITY WITH REAR DOOR TO UNLOCK POSITION

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CO	DE	SEE PAGE
C 6	30	F 7	28	L	7	32
D15	32	F14	32	P1		29
D16	32	I11	31	P 9		32
D17	32	J 3	31	R 5		31
D18	32	J 5	32	T 1		29
D19	32	L1	31	Т3	Α	31
D20	32	L 3	32	T 4	В	31
D21	32	L 4	32			
E 5	28	L 5	32			

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
6	26	R/B NO. 6 (BEHIND GLOVE BOX)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)		
1B				
1C				
1E				
1G	20	COWL WIRE AND J/B NO.1 (INSTRUMENT PANEL LEFT)		
1K				
1L				
1M				
2A	- 22	ENCINE DOOM MAIN WIDE AND 1/D NO. 2 (ENCINE COMPARTMENT LEFT)		
2D	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		
2F	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)		
3D	27	COVVE VVIRE AIND J/D IVO. 3 (DEFINAD COMBINATION METER)		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

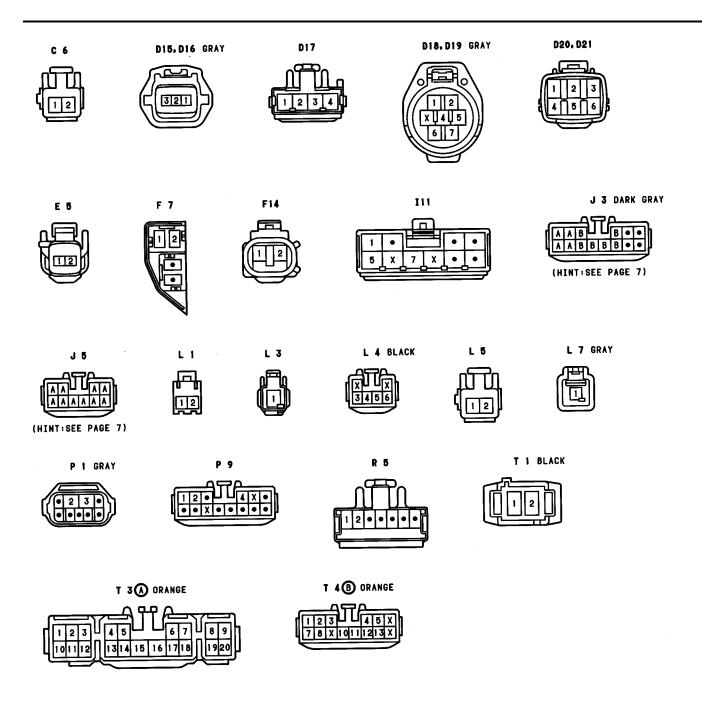
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EE1	34	ENGINE WIRE AND COWL WIRE (NEAR THE BRAKE MASTER CYLINDER)
IF1	34	FLOOR NO.1 WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IG1	36	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH1	36	COWL WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IH3	36	COWL WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IJ1	36	INSTRUMENT PANEL NO. 2 WIRE AND COWL WIRE (UNDER THE COMBINATION METER)
IM1	38	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)
103	38	ENGINE ROOM MAIN WIRE AND COWL WIRE (RIGHT KICK PANEL)
IQ1	38	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IR1	38	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
BU1	40	REAR DOOR LH WIRE AND FLOOR NO. 1 WIRE (LEFT CENTER PILLAR)
BV1	40	REAR DOOR RH WIRE AND FLOOR NO. 2 WIRE (RIGHT CENTER PILLAR)
BY1	40	LUGGAGE ROOM WIRE AND FLOOR NO. 1 WIRE (LUGGAGE ROOM LEFT)

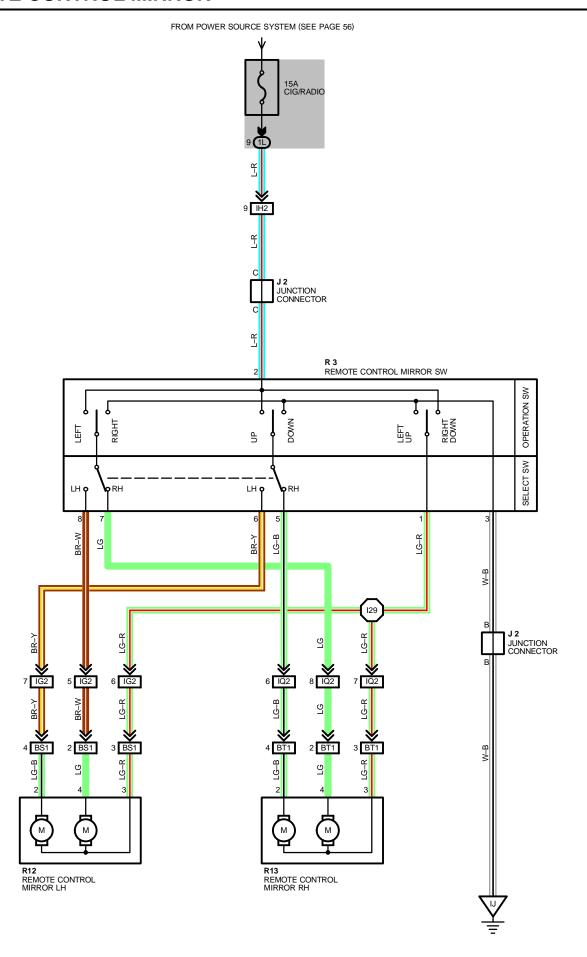
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EB	34	FRONT LEFT FENDER
IE	36	LEFT KICK PANEL
IG	36	INSTRUMENT PANEL BRACE LH
IJ	36	RIGHT KICK PANEL
BL	40	UNDER THE LEFT QUARTER PILLAR
ВМ	40	UNDER THE RIGHT QUARTER PILLAR
во	40	BACK PANEL CENTER

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
12			I 97		
13	38	INSTRUMENT PANEL WIRE	I100	38	INSTRUMENT PANEL WIRE
15			I101		
I 13			B 1		
I 14	38	COWL WIRE	B 2	40	FRONT DOOR LH WIRE
I 27			В3		
I 65			B 11	40	FRONT DOOR RH WIRE
I 92			B 12	- 40	FRONT DOOR RH WIRE
I 93	38	INSTRUMENT PANEL WIRE	B 14	40	REAR DOOR LH WIRE
I 94			B 17	40	REAR DOOR RH WIRE
I 95			B 32	40	LUGGAGE ROOM WIRE
I 96	1				





SERVICE HINTS -

R3 REMOTE CONTROL MIRROR SW

2–GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT \mathbf{ACC} OR \mathbf{ON} POSITION

1–3 : CONTINUITY WITH OPERATION SW AT **UP** OR **LEFT** POSITION 1–2 : CONTINUITY WITH OPERATION SW AT **DOWN** OR **RIGHT** POSITION

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
J 2	31	R12	32		
R 3	31	R13	32		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1L	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IG2	36	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IQ2	38	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
BS1	40	MIRROR LH WIRE AND FRONT DOOR LH WIRE (FRONT LH DOOR INSIDE)
BT1	40	MIRROR RH WIRE AND FRONT DOOR RH WIRE (FRONT RH DOOR INSIDE)

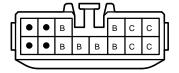
: GROUND POINTS

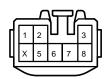
CODE	SEE PAGE	GROUND POINTS LOCATION
IJ	36	RIGHT KICK PANEL

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 29	38	INSTRUMENT PANEL WIRE			

J 2 R 3 R12, R13

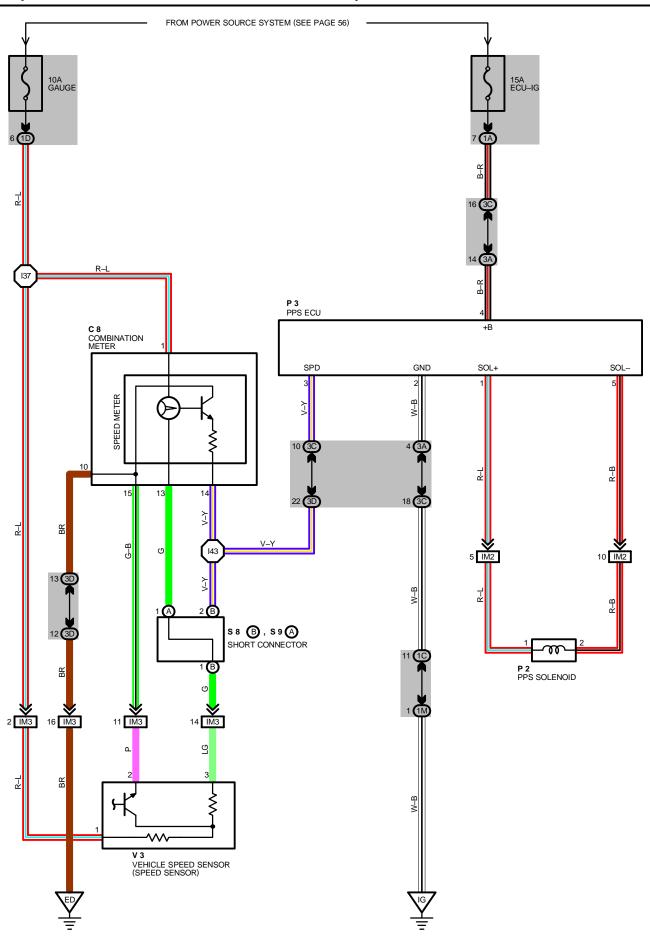






(HINT: SEE PAGE 7)

PPS (PROGRESSIVE POWER STEERING)



SYSTEM OUTLINE

THE PPS (HYDRAULIC REACTION TYPE) CONTROLS THE HYDRAULIC PRESSURE APPLIED TO THE HYDRAULIC REACTION CHAMBER IN THE GEAR BOX CONTROL UNIT USING THE PPS ECU, CHANGE THE STEERING FORCE AND PROVIDE OPTIMUM STEERING FEELING AT ANY VEHICLE SPEED AND UNDER ANY STEERING CONDITIONS.

(PPS OPERATION)

WHEN THE IGNITION SW IS TURNED ON THE STARTING CURRENT FLOWS FROM THE ECU-IG FUSE TO **TERMINAL 4** OF THE PPS ECU. THE SPEED SENSOR MONITORS THE VEHICLE SPEED AND TRANSMITS CONTROL SIGNALS TO **TERMINAL 3** OF THE ECU.

WHEN THE VEHICLE SPEED IS LOW, THE PPS ECU SENDS A HIGHER-CURRENT FROM **TERMINAL 1** OF THE ECU \rightarrow **TERMINAL 1** OF THE SOLENOID VALVE \rightarrow **TERMINAL 2** \rightarrow **TERMINAL 5** OF THE ECU \rightarrow **GROUND,** INCREASING THE SOLENOID VALVE OPENING ANGLE TO PROVIDE COMFORTABLE STEERING OPERATION. WHEN THE VEHICLE SPEED IS HIGH, THE PPS ECU DECREASES THE SOLENOID VALVE OPENING ANGLE BY REDUCING THE CURRENT TO THE VALVE TO PROVIDE RESPONSIVE STEERING FEELING.

SERVICE HINTS

P3 PPS ECU

4-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

2-GROUND: ALWAYS CONTINUITY

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CC	DE	SEE PAGE
C 8	30	P 3	31	S 9	Α	31
P 2	29	S8 B	31	٧	3	29

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)					
1A							
1C	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)					
1D							
1M							
3A							
3C		COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)					
3D							

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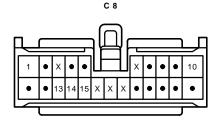
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)				
IM2	20	ENCINE WIRE AND COMM. WIRE (LINDER THE CLOVE DOV)				
IM3	36	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)				

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
ED	34	INTAKE MANIFOLD LH
IG	36	INSTRUMENT PANEL BRACE LH

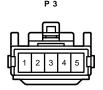
: SPLICE POINTS

_					
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
1 37	38	COWL WIRE	I 43	38	COWL WIRE





P 2 GRAY

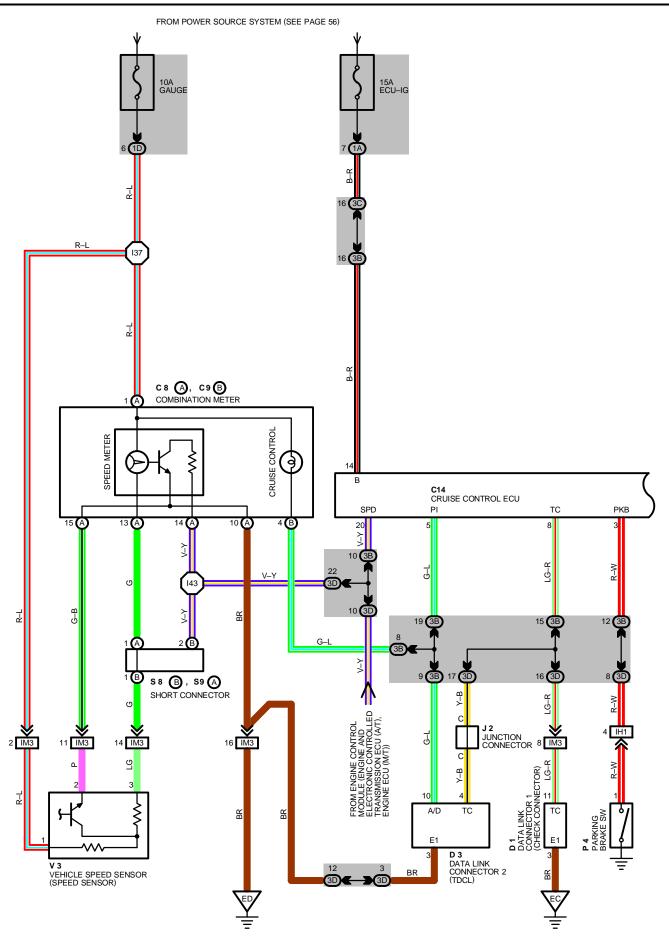


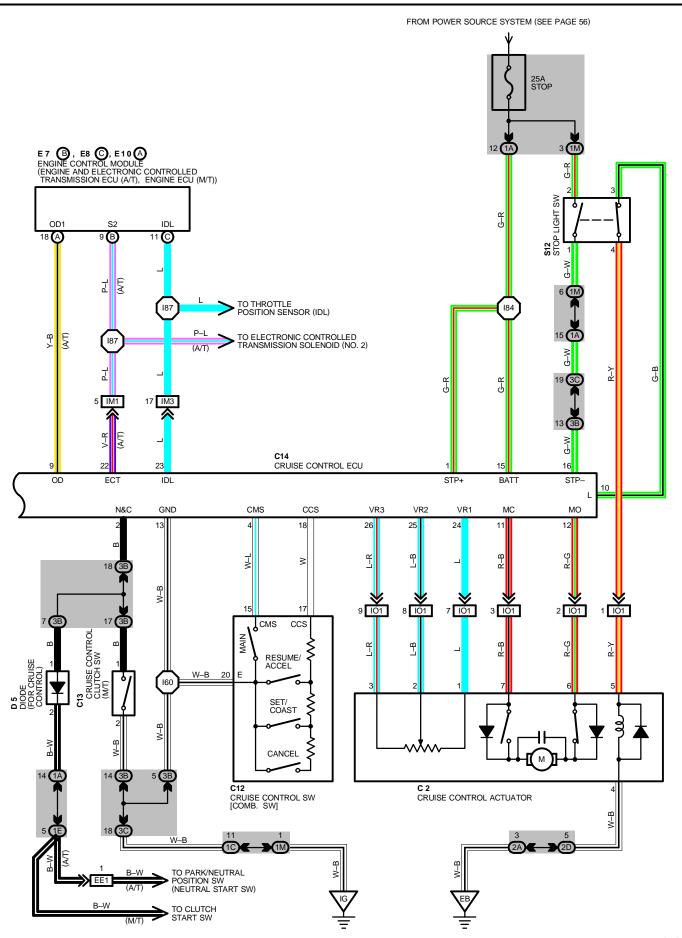




V 3 BLACK







CRUISE CONTROL

SYSTEM OUTLINE

CURRENT IS APPLIED AT ALL TIMES THROUGH **STOP** FUSE TO **TERMINAL 1** OF THE CRUISE CONTROL ECU AND **TERMINAL 2** OF STOP LIGHT SW. AND ALSO THROUGH THE **STOP** FUSE TO **TERMINAL 15** OF CRUISE CONTROL ECU.

WITH THE IGNITION SW TURNED TO ON, THE CURRENT FLOWS THROUGH GAUGE FUSE TO TERMINAL (A)6 OF COMBINATION METER AND THE CURRENT THROUGH ECU-IG FUSE FLOWS TO TERMINAL 14 OF CRUISE CONTROL ECU.

WHEN THE IGNITION SW IS ON AND THE CRUISE CONTROL MAIN SW IS TURNED ON, A SIGNAL IS INPUT FROM **TERMINAL 15** OF CRUISE CONTROL MAIN SW TO **TERMINAL 4** OF CRUISE CONTROL ECU. AS A RESULT, THE CRUISE CONTROL ECU FUNCTIONS AND THE CURRENT TO **TERMINAL 14** OF CRUISE CONTROL ECU TO **TERMINAL 13** OF CRUISE CONTROL ECU \rightarrow **GROUND**, AND THE CRUISE CONTROL SYSTEM IS IN A CONDITION READY FOR OPERATION.

AT THE SAME TIME, THE CURRENT THROUGH THE **GAUGE** FUSE FLOWS FROM **TERMINAL (A)6** OF CRUISE CONTROL INDICATOR LIGHT \rightarrow **TERMINAL (B)9** \rightarrow **TERMINAL 5** OF CRUISE CONTROL ECU \rightarrow **TERMINAL 13** \rightarrow TO **GROUND**, CAUSING THE CRUISE CONTROL INDICATOR LIGHT TO LIGHT UP, INDICATING THAT THE CRUISE CONTROL IS READY FOR OPERATION.

1. SET OPERATION

WHEN THE CRUISE CONTROL MAIN SW IS TURNED ON AND THE SET SW IS TURNED WITH THE VEHICLE SPEED WITHIN THE SET LIMIT (APPROX. 40 KM/H, 25 MPH TO 200 KM/H, 124 MPH), A SIGNAL IS INPUT TO TERMINAL 18 OF THE CRUISE CONTROL ECU AND THE VEHICLE SPEED AT THE TIME THE SET SW IS RELEASED IS MEMORIZED IN THE ECU AS THE SET SPEED.

2. SET SPEED CONTROL

DURING CRUISE CONTROL DRIVING, THE ECU COMPARES THE SET SPEED MEMORIZED IN THE ECU WITH THE ACTUAL VEHICLE SPEED INPUT INTO **TERMINAL 20** OF THE CRUISE CONTROL ECU FROM THE VEHICLE SPEED SENSOR (SPEED SENSOR), AND CONTROLS THE CRUISE CONTROL ACTUATOR TO MAINTAIN THE SET SPEED.

WHEN THE ACTUAL SPEED IS LOWER THAN THE SET SPEED, THE ECU CAUSES THE CURRENT TO THE CRUISE CONTROL ACTUATOR TO FLOW FROM **TERMINAL 12** \rightarrow **TERMINAL 6** OF CRUISE CONTROL ACTUATOR \rightarrow **TERMINAL 7** \rightarrow **TERMINAL 11** OF CRUISE CONTROL ECU. AS A RESULT, THE MOTOR IN THE CRUISE CONTROL ACTUATOR IS ROTATED TO OPEN THE THROTTLE VALVE AND THE THROTTLE CABLE IS PULLED TO INCREASE THE VEHICLE SPEED. WHEN THE ACTUAL DRIVING SPEED IS HIGHER THAN THE SET SPEED, THE CURRENT TO CRUISE CONTROL ACTUATOR FLOWS FROM **TERMINAL 11** OF ECU \rightarrow **TERMINAL 7** OF CRUISE CONTROL ACTUATOR \rightarrow **TERMINAL 6** \rightarrow **TERMINAL 12** OF CRUISE CONTROL ECU.

THIS CAUSES THE MOTOR IN THE CRUISE CONTROL ACTUATOR TO ROTATE TO CLOSE THE THROTTLE VALVE AND RETURN THE THROTTLE CABLE TO DECREASE THE VEHICLE SPEED.

3. COAST CONTROL

DURING THE CRUISE CONTROL DRIVING, WHILE THE COAST SW IS ON, THE CRUISE CONTROL ACTUATOR RETURNS THE THROTTLE CABLE TO CLOSE THE THROTTLE VALVE AND DECREASE THE DRIVING SPEED. THE VEHICLE SPEED WHEN THE COAST SW IS TURNED OFF IS MEMORIZED AND THE VEHICLE CONTINUES AT THE NEW SET SPEED.

4. ACCEL CONTROL

DURING CRUISE CONTROL DRIVING, WHILE THE ACCEL SW IS TURNED ON, THE CRUISE CONTROL ACTUATOR PULLS THE THROTTLE CABLE TO OPEN THE THROTTLE VALVE AND INCREASE THE DRIVING SPEED.

THE VEHICLE SPEED WHEN THE ACCEL SW IS TURNED OFF IS MEMORIZED AND THE VEHICLE CONTINUES AT THE NEW SET SPEED.

5. RESUME CONTROL

UNLESS THE VEHICLE SPEED FALLS BELOW THE MINIMUM SPEED LIMIT (APPROX. 40 KM/H, 25 MPH) AFTER CANCELING THE SET SPEED BY THE CANCEL SW, TURNING ON THE RESUME SW WILL CAUSE THE VEHICLE TO RESUME THE SPEED SET BEFORE CANCELLATION.

6. MANUAL CANCEL MECHANISM

IF ANY OF THE FOLLOWING OPERATIONS OCCURS DURING CRUISE CONTROL OPERATION, CURRENT FLOW TO MAGNETIC CLUTCH OF THE ACTUATOR IS CUT OFF AND THE MOTOR ROTATES TO CLOSE THE THROTTLE VALVE AND THE CRUISE CONTROL IS RELEASED.

- * PLACING THE SHIFT LEVER IN "N" RANGE (NEUTRAL START SW ON). "SIGNAL INPUT TO **TERMINAL 2** OF ECU" (A/T)
- * DEPRESSING THE BRAKE PEDAL (STOP LIGHT SW ON). "SIGNAL INPUT TO **TERMINAL 16** OF ECU"
- * PUSH THE CANCEL SW (CANCEL SW ON). "SIGNAL INPUT TO TERMINAL 18 OF ECU"
- * DEPRESSING THE CLUTCH PEDAL (CLUTCH SW ON). "SIGNAL INPUT TO TERMINAL 2 OF ECU" (M/T)
- * PULLING THE PARKING BRAKE LEVER (PARKING BRAKE SW ON). "SIGNAL INPUT TO TERMINAL 3 OF ECU"

7. AUTO CANCEL FUNCTION

- A) IF ANY OF THE FOLLOWING OPERATING CONDITIONS OCCURS DURING CRUISE CONTROL OPERATION, THE SET SPEED IS ERASED, CURRENT FLOW TO MAGNETIC CLUTCH IS CUT OFF AND THE CRUISE CONTROL IS RELEASED. (MAIN SW TURNS OFF). WHEN THIS OCCURS, THE IGNITION SW MUST BE TURNED OFF ONCE BEFORE THE MAIN SW WILL TURN ON AGAIN.
 - * OVER CURRENT TO TRANSISTER DRIVING MOTOR AND/OR MAGNETIC CLUTCH.
 - * WHEN CURRENT CONTINUED TO FLOW TO THE MOTOR INSIDE THE ACTUATOR IN THE THROTTLE VALVE "OPEN" DIRECTION.
 - * OPEN CIRCUIT IN MOTOR AND/OR MAGNETIC CLUTCH.
 - * MOMENTARY INTERRUPTION OF VEHICLE SPEED SIGNAL.
 - * SHORT CIRCUIT IN CRUISE CONTROL SW.
 - * MOTOR DOES NOT OPERATE DESPITE THE MOTOR DRIVE SIGNAL BEING OUTPUT.
- B) IF ANY OF THE FOLLOWING CONDITIONS OCCURS DURING CRUISE CONTROL OPERATION, THE SET SPEED IS ERASED AND THE CRUISE CONTROL IS RELEASED. (CURRENT FLOW TO MAGNETIC CLUTCH IS CUT OFF UNTIL THE SET SW IS "ON" AGAIN.)
 - * WHEN THE VEHICLE SPEED HAS FALLEN BELOW THE MINIMUM SPEED LIMIT, APPROX. 40 KM/H (2.5 MPH)
 - * WHEN THE VEHICLE SPEED HAS FALLEN MORE THAN 16 KM/H (10 MPH) BELOW THE SET SPEED, E.G. ON AN UPWARD SLOPE.
 - * WHEN POWER TO THE CRUISE CONTROL SYSTEM IS MOMENTARILY CUT OFF.
- C) IF ANY OF THE FOLLOWING CONDITIONS OCCURS DURING CRUISE CONTROL OPERATION, THE CRUISE CONTROL IS RELEASED.
 - * OPEN CIRCUIT FOR TERMINAL 1 OF CRUISE CONTROL ECU.

8. AUTOMATIC TRANSMISSION CONTROL FUNCTION

- * IN OVERDRIVE. IF THE VEHICLE SPEED BECOMES LOWER THAN THE OVERDRIVE CUT SPEED (SET SPEED MINUS APPROX. 4 KM/H, 2.5 MPH) DURING CRUISE CONTROL OPERATION, SUCH AS DRIVING UP A HILL, THE OVERDRIVE IS RELEASED AND THE POWER INCREASED TO PREVENT A REDUCTION IN VEHICLE SPEED.
- * AFTER RELEASING THE OVERDRIVE, IF VEHICLE SPEED BECOMES HIGHER THAN THE OVERDRIVE RETURN SPEED (SET SPEED MINUS APPROX. 2 KM/H, 1.2 MPH) AND THE ECU JUDGES BY THE SIGNALS FROM POTENTIOMETER OF THE ACTUATOR THAT THE UPWARD SLOPE HAS FINISHED, OVERDRIVE IS RESUMED AFTER A WHILE.

SERVICE HINTS

C2 CRUISE CONTROL ACTUATOR

1-3 : APPROX. **2**K 5-4 : APPROX. **38**

C11 CRUISE CONTROL SW MAIN [COMB. SW]

15–20 : CONTINUITY WITH MAIN SW ON 20–17 : APPROX. 418 WITH CANCEL SW ON APPROX. 68 WITH RESUME/ACCEL SW ON APPROX. 198 WITH SET/COAST SW ON

C14 CRUISE CONTROL ECU

14-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

1. 15-GROUND: ALWAYS APPROX. 12 VOLTS

3-GROUND: CONTINUITY WITH PARKING BRAKE SW ON (ONE OF THE CANCEL SW) OR BRAKE LEVEL WARNING SW ON

20-GROUND: 4 PULSE WITH 1 ROTATION OF ROTOR SHAFT (DRIVE SLOWLY)

18-GROUND: APPROX. 418 WITH CANCEL SW ON IN CONTROL SW APPROX. 68 WITH RES/ACC SW ON IN CONTROL SW

APPROX. 198 WITH SET/COAST SW ON IN CONTROL SW

13-GROUND: ALWAYS CONTINUITY

2-GROUND: CONTINUITY WITH SHIFT LEVER AT N POSITION (A/T) OR CLUTCH PEDAL DEPRESSED (M/T)

CRUISE CONTROL

: PARTS LOCATION

CC	DDE	SEE PAGE		ODE	SEE PAGE	CO	DE	SEE PAGE
C	2	28		D 1	28	J 2		31
C 8	Α	30		D 3	30	P	4	31
C 9	В	30		D 5	30	S10	В	31
C	:11	30	E 7	В	30	S11	Α	31
C	:13	30	E 8	С	30	S	12	31
C	14	30	E10	Α	30	V	3	29

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1A		
1C		
1D	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1E		
1 M		
2A	22	ENCINE DOOM MAIN WIDE AND UD NO 2 (ENCINE COMPARTMENT LEET)
2D	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
3B		
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)
3D		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)				
EE1	34	ENGINE WIRE AND COWL WIRE (NEAR THE BRAKE MASTER CYLINDER)				
IH1	36	COWL WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)				
IM1	20	ENCINE WIDE AND COMUNIDE (LINDED THE CLOVE DOV)				
IM3	38	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)				
IO1	38	ENGINE ROOM MAIN WIRE AND COWL WIRE (RIGHT KICK PANEL)				

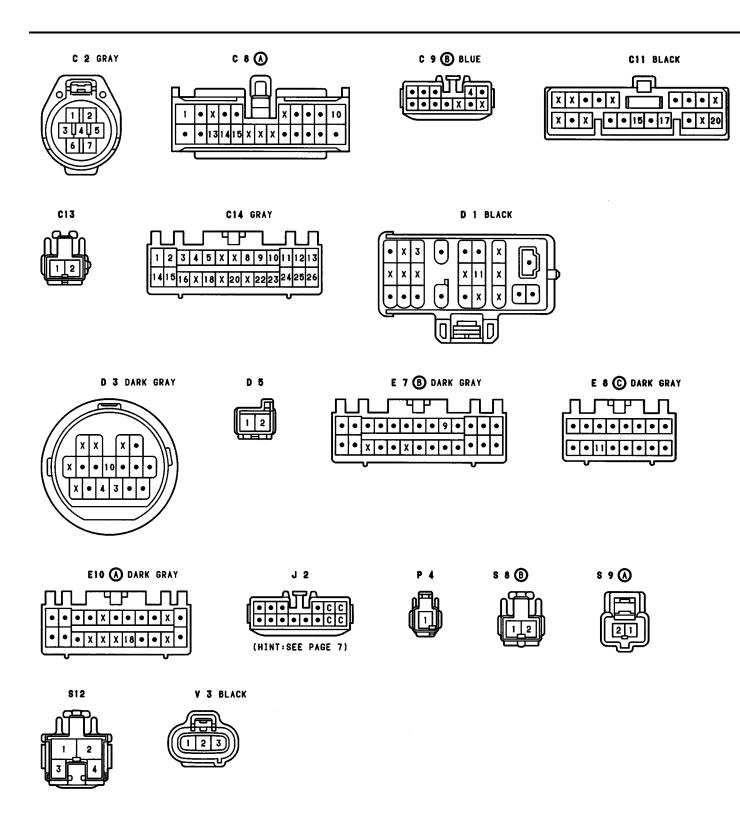
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EB	34	FRONT LEFT FENDER
EC	34	INTAKE MANIFOLD RH
ED	34	INTAKE MANIFOLD LH
IG	36	INSTRUMENT PANEL BRACE LH

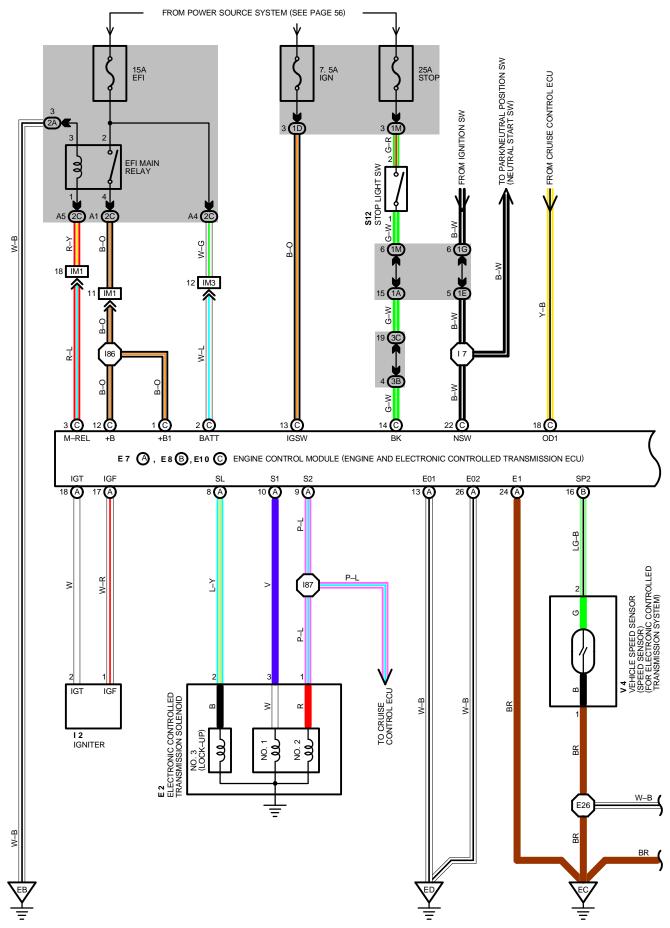


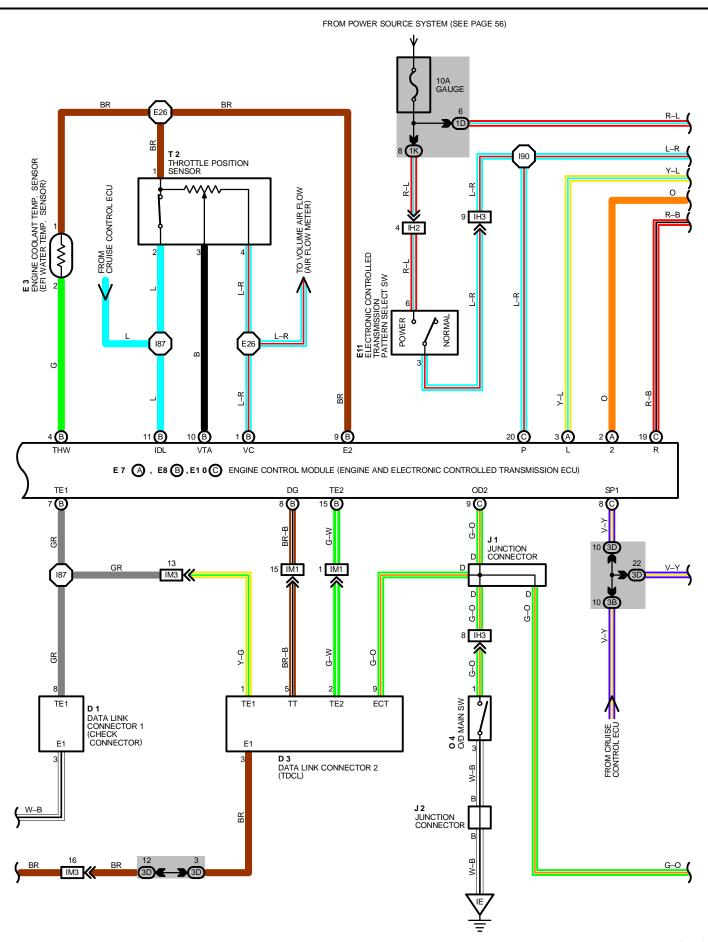
: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 37			I 84	38	COWL WIRE
I 43	38	COWL WIRE	I 87	38	ENGINE WIRE
I 60					

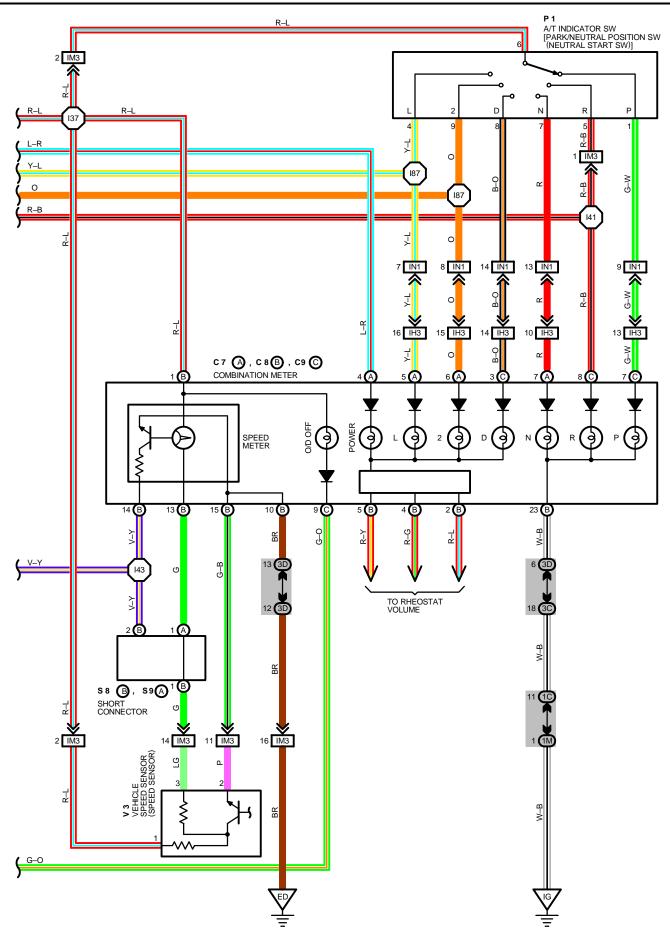


ELECTRONICALLY CONTROLLED TRANSMISSION AND A/T INDICATOR





ELECTRONICALLY CONTROLLED TRANSMISSION AND A/T INDICATOR



SYSTEM OUTLINE

THE ELECTRONIC CONTROLLED TRANSMISSION IS A SYSTEM WHICH PRECISELY CONTROLS GEAR SHIFT TIMING AND LOCK-UP TIMING IN THE RESPONSE TO THE VEHICLE'S DRIVING CONDITIONS AND THE ENGINE OPERATING CONDITIONS DETECTED BY VARIOUS SENSORS, MAKING SMOOTH DRIVING POSSIBLE BY SHIFT SELECTION FOR EACH GEAR WHICH IS THE MOST APPROPRIATE TO THE DRIVING CONDITIONS AT THAT TIME, AND CONTROLS THE ENGINE TORQUE DURING SHIFTING TO ACHIEVE OPTIMUM SHIFT FEELING.

1. GEAR SHIFT OPERATION

DURING DRIVING, THE ENGINE CONTROL MODULE (ECU) SELECTS THE SHIFT FOR EACH GEAR WHICH IS MOST APPROPRIATE TO THE DRIVING CONDITIONS, BASED ON INPUT SIGNALS FROM THE ENGINE COOLANT TEMP. SENSOR (EFI WATER TEMP. SENSOR) TO **TERMINAL THW** OF THE ENGINE CONTROL MODULE (ENGINE AND ELECTRONIC CONTROLLED TRANSMISSION ECU), AND ALSO THE INPUT SIGNALS TO **TERMINAL SP2** OF THE ENGINE CONTROL MODULE (ECU) FROM THE VEHICLE SPEED SENSOR (SPEED SENSOR) DEVOTED TO THE ENGINE CONTROL MODULE (ENGINE AND ELECTRONIC CONTROLLED TRANSMISSION ECU). CURRENT IS THEN OUTPUT TO THE ELECTRONIC CONTROLLED TRANSMISSION SOLENOIDS. WHEN SHIFTING TO 1ST SPEED, CURRENT FLOWS FROM **TERMINAL S1** OF THE ENGINE CONTROL MODULE (ECU) \rightarrow **TERMINAL 3** OF THE ELECTRONIC CONTROLLED TRANSMISSION SOLENOID CAUSES THE SHIFT.

FOR 2ND SPEED, CURRENT FLOWS FROM **TERMINAL S1** OF THE ENGINE CONTROL MODULE (ECU) \rightarrow **TERMINAL 3** OF THE ELECTRONIC CONTROLLED TRANSMISSION SOLENOIDS \rightarrow **GROUND**, AND FROM **TERMINAL S2** OF THE ENGINE CONTROL MODULE (ECU) \rightarrow **TERMINAL 1** OF THE ELECTRONIC CONTROLLED TRANSMISSION SOLENOIDS \rightarrow **GROUND**, AND CONTINUITY TO SOLENOIDS NO.1 AND NO.2 CAUSES THE SHIFT.

FOR 3RD SPEED, THERE IS NO CONTINUITY TO NO. 1 SOLENOID, ONLY TO NO. 2, CAUSING THE SHIFT.

SHIFTING INTO 4TH SPEED (OVERDRIVE) TAKES PLACE WHEN THERE IS NO CONTINUITY TO EITHER NO. 1 OR NO. 2 SOLENOID.

2. LOCK-UP OPERATION

WHEN THE ENGINE CONTROL MODULE (ECU) JUDGES FROM EACH SIGNAL THAT LOCK-UP OPERATION CONDITIONS HAVE BEEN MET, CURRENT FLOWS FROM **TERMINAL SL** OF THE ENGINE CONTROL MODULE (ECU) \rightarrow **TERMINAL 2** OF THE ELECTRONIC CONTROLLED TRANSMISSION SOLENOID \rightarrow **GROUND,** CAUSING CONTINUITY TO THE LOCK-UP SOLENOID AND CAUSING LOCK-UP OPERATION.

3. STOP LIGHT SW CIRCUIT

IF THE BRAKE PEDAL IS DEPRESSED (STOP LIGHT SW ON) WHEN DRIVING IN LOCK-UP CONDITION, A SIGNAL IS INPUT TO **TERMINAL BK** OF THE ENGINE CONTROL MODULE (ECU), THE ENGINE CONTROL MODULE (ECU) OPERATES AND CONTINUITY TO THE LOCK-UP SOLENOID IS CUT.

4. OVERDRIVE CIRCUIT

* O/D MAIN SW ON

WHEN THE O/D MAIN SW IS TURNED ON (O/D OFF INDICATOR LIGHT TURNS OFF), A SIGNAL IS INPUT TO **TERMINAL OD2** OF THE ENGINE CONTROL MODULE (ECU) AND ENGINE CONTROL MODULE (ECU) OPERATION CAUSES GEAR SHIFT WHEN THE CONDITIONS FOR OVERDRIVE ARE MET.

* O/D MAIN SW OFF

WHEN THE O/D MAIN SW IS TURNED TO OFF, THE CURRENT FLOWING THROUGH THE O/D OFF INDICATOR LIGHT FLOWS THROUGH THE O/D MAIN SW TO GROUND. CAUSING THE INDICATOR LIGHT TO LIGHT UP. AT THE SAME TIME, A SIGNAL IS INPUT TO **TERMINAL OD2** OF THE ENGINE CONTROL MODULE (ECU) AND ENGINE CONTROL MODULE (ECU) OPERATION PREVENTS SHIFT INTO OVERDRIVE.

5. ELECTRONIC CONTROLLED TRANSMISSION PATTERN SELECT SW CIRCUIT

IF THE ELECTRONIC CONTROLLED TRANSMISSION PATTERN SELECT SW IS CHANGED FROM NORMAL TO POWER, THE CURRENT FLOWING THROUGH THE POWER INDICATOR FLOWS TO **GROUND**, CURRENT FLOWS TO **TERMINAL P** OF THE ENGINE CONTROL MODULE (ECU), THE ENGINE CONTROL MODULE (ECU) OPERATES, AND SHIFT UP AND SHIFT DOWN OCCUR AT HIGHER VEHICLE SPEEDS THAN WHEN THE SW IS IN **NORMAL** POSITION.

ELECTRONICALLY CONTROLLED TRANSMISSION AND A/T INDICATOR

SERVICE HINTS

E 7(A), E 8(B), E10(C) ENGINE CONTROL MODULE (ENGINE AND ELECTRONIC CONTROLLED TRANSMISSION ECU) (TURN ON THE IGNITION SW)

S1, S2 - E1: 9.0-14.0 VOLTS WITH SOLENOID ON 0-1.5 VOLTS WITH SOLENOID OFF

P - E1: 7.5-14.0 VOLTS WITH IGNITION SW ON AND PATTERN SELECT SW AT POWER POSITION

L - E1: 7.5-14.0 VOLTS WITH SHIFT LEVER AT L POSITION

2 - E1: 7.5-14.0 VOLTS WITH SHIFT LEVER AT 2 POSITION

- E1: 7.5-14.0 VOLTS WITH SHIFT LEVER AT R POSITION

BK - E1: 9.0-14.0 VOLTS WITH BRAKE PEDAL DEPRESSED

THW - E2: 0.2-1.0 VOLTS WITH ENGINE COOLANT TEMP. 60°C (140°F) -120°C (248°F)

IDL - E2: 0-1.5 VOLTS WITH THROTTLE VALVE FULLY CLOSED

9.0-14.0 VOLTS WITH THROTTLE VALVE FULLY OPENED

VTA - E2: 0.3-0.8 VOLTS WITH THROTTLE VALVE FULLY CLOSED 3.2-4.9 VOLTS WITH THROTTLE VALVE FULLY OPENED

VC - E2: 4.5-5.5 VOLTS WITH IGNITION SW AT ON POSITION

0/D1 - E1: 4.5-5.5 VOLTS WITH IGNITION SW AT ON POSITION

0/D2 - E1: 9.0-14.0 VOLTS WITH O/D MAIN SW TURNED OFF 0-3.0 VOLTS WITH O/D MAIN SW TURNED ON

IGSW - E1: 9.0-14.0 VOLTS WITH IGNITION SW AT ON POSITION

+B - E1: 9.0-14.0 VOLTS WITH IGNITION SW AT ON POSITION

+B1 - E1: 9.0-14.0 VOLTS WITH IGNITION SW AT ON POSITION

 $\textbf{M-REL-E1}: \textbf{9.0-14.0} \; \text{VOLTS WITH IGNITION SW AT } \textbf{ON} \; \text{POSITION}$

E 2 ELECTRONIC CONTROLLED TRANSMISSION SOLENOID

1, 2, 3-GROUND: EACH **11-15**

O 4 O/D MAIN SW

1-3: CLOSED WITH O/D MAIN SW OFF, OPEN WITH O/D MAIN SW ON

) : PARTS LOCATION

CO	DE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 7	Α	30	E8 B	28	S8 B	31
C 8	В	30	E10 C	30	S 9 A	31
C 9	С	30	E11	30	S12	31
D	1	28	12	29	T 2	29
D	3	30	J1	31	V 3	29
Е	2	28	J 2	31	V 4	29
E	3	28	0 4	31		
E 7	Α	28	P1	29		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1A		
1C		
1D		
1E	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1G		
1K		
1M		
2A	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2C	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
3B		
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)
3D		

1 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

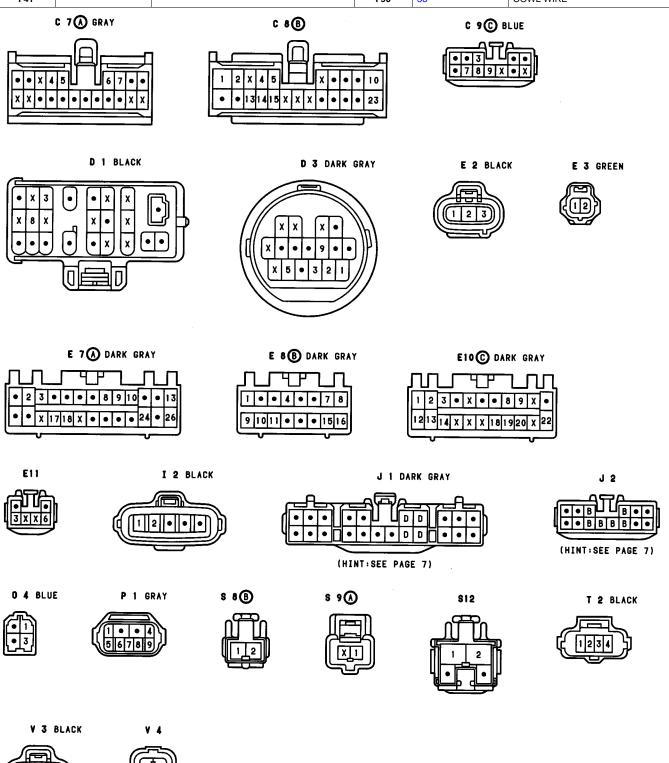
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IH3	36	COWL WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IM1	- 38	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)
IM3	30	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)
IN1	38	ENGINE WIRE AND INSTRUMENT PANEL WIRE (UNDER THE GLOVE BOX)

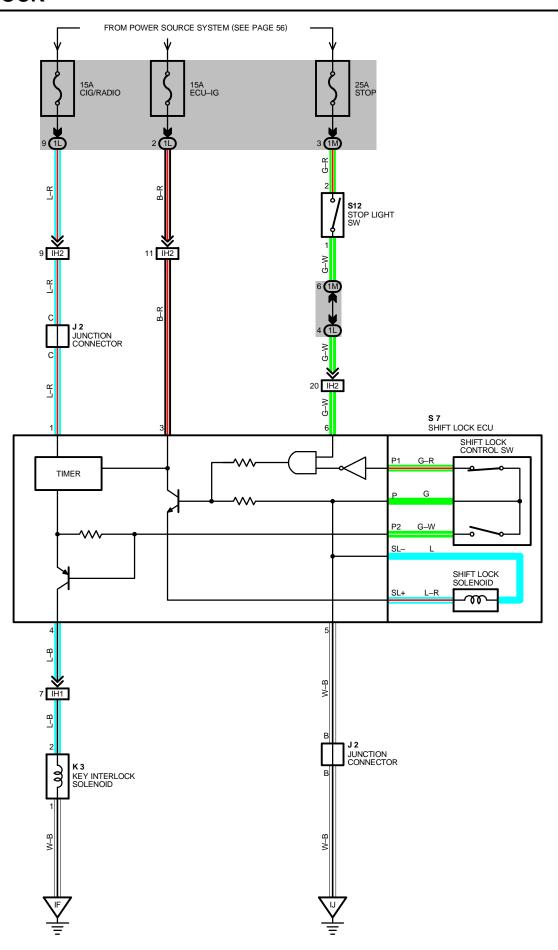
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EB	34	FRONT LEFT FENDER
EC	34	INTAKE MANIFOLD RH
ED	34	INTAKE MANIFOLD LH
IE	36	LEFT KICK PANEL
IG	36	INSTRUMENT PANEL BRACE LH

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 26	34	ENGINE WIRE	I 43	20	COWL WIRE
17	38	INSTRUMENT PANEL WIRE	I 86	38	COWL WIRE
I 37	20	COWL WIRE	I 87	38	ENGINE WIRE
I 41	30	COWE WIRE	190	38	COWL WIRE





SYSTEM OUTLINE

WHEN THE IGNITION SW IS TURNED TO **ACC** POSITION THE CURRENT FROM THE **CIG/RADIO** FUSE FLOWS TO **TERMINAL 1** OF THE SHIFT LOCK ECU. WHEN THE IGNITION SW IS TURNED TO **ON** POSITION THE CURRENT FROM THE **ECU-IG** FUSE FLOWS TO **TERMINAL 3** OF THE ECU.

1. SHIFT LOCK MECHANISM

WITH THE IGNITION SW ON, WHEN A SIGNAL THAT THE BRAKE PEDAL IS DEPRESSED (STOP LIGHT SW ON) AND A SIGNAL THAT THE SHIFT LEVER IS PUT IN "P" POSITION (CONTINUITY BETWEEN P1 AND P OF THE SHIFT LOCK CONTROL SW) ARE INPUT TO THE ECU, THE ECU OPERATES AND CURRENT FLOWS FROM **TERMINAL 3** OF THE ECU \rightarrow **TERMINAL SL+** OF THE SHIFT LOCK SOLENOID \rightarrow SOLENOID \rightarrow TERMINAL SL- \rightarrow TERMINAL 5 OF THE ECU \rightarrow GROUND. THIS CAUSES THE SHIFT LOCK SOLENOID TO TURN ON (PLATE STOPPER DISENGAGES) AND THE SHIFT LEVER CAN SHIFT INTO OTHER RANGE THAN THE "P" POSITION.

2. KEY INTERLOCK MECHANISM

WITH THE IGNITION SW IN **ON** OR **ACC** POSITION, WHEN THE SHIFT LEVER IS PUT IN "P" POSITION (NO CONTINUITY BETWEEN P2 AND P OF SHIFT LOCK CONTROL SW), THE CURRENT FLOWING FROM **TERMINAL 4** OF THE ECU \rightarrow KEY INTERLOCK SOLENOID IS CUT OFF. THIS CAUSES THE KEY INTERLOCK SOLENOID TO TURN OFF (LOCK LEVER DISENGAGES FROM **LOCK** POSITION) AND THE IGNITION KEY CAN BE TURNED FROM **ACC** TO **LOCK** POSITION. IF THE IGNITION IS LEFT IN **ACC** OR **ON** POSITION WITH THE SHIFT LEVER IN OTHER THAN "P" POSITION, THEN AFTER APPROX. ONE HOUR THE ECU OPERATES TO RELEASE THE LOCK.

SERVICE HINTS

S9 SHIFT LOCK ECU

1-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ACC OR ON POSITION

3-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

5-GROUND: ALWAYS CONTINUITY

6-GROUND: APPROX. 12 VOLTS WITH BRAKE PEDAL DEPRESSED

4-GROUND: 0 VOLTS WITH IGNITION SW AT ACC POSITION AND SHIFT LEVER POSITION IN P POSITION

6-12 VOLTS WITH IGNITION SW AT ACC POSITION AND SHIFT LEVER POSITION IN EXCEPT P POSITION

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
J 2	31	S 7	31		
К 3	31	S12	31		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

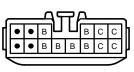
CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1L	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1M	20	COWE WIRE AND 3/B NO. 1 (INGINOMENT PARCELLET 1)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IH1	36	COWL WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)

: GROUND POINTS

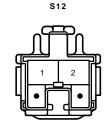
CODE	SEE PAGE	GROUND POINTS LOCATION
IF	36	LEFT KICK PANEL
IJ	36	RIGHT KICK PANEL



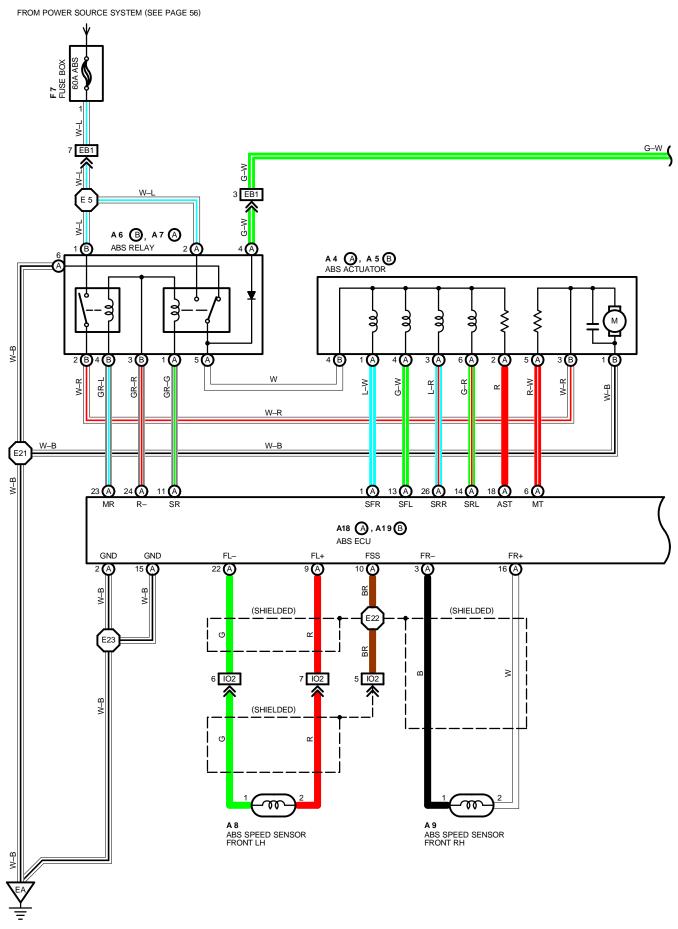
(HINT: SEE PAGE 7)

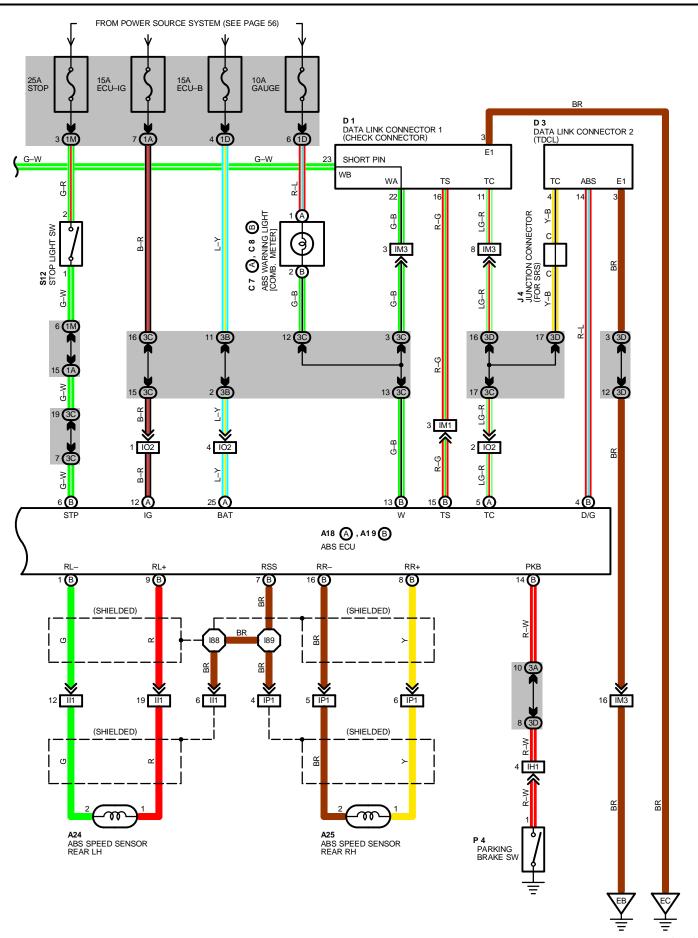






ABS (ANTI-LOCK BRAKE SYSTEM)





ABS (ANTI-LOCK BRAKE SYSTEM)

SYSTEM OUTLINE

THIS SYSTEM CONTROLS THE RESPECTIVE BRAKE FLUID PRESSURES ACTING ON THE DISC BRAKE CYLINDERS OF THE RIGHT FRONT WHEEL, LEFT FRONT WHEEL AND REAR WHEELS WHEN THE BRAKES ARE APPLIED IN A PANIC STOP SO THAT THE WHEELS DO NOT LOCK. THIS RESULTS IN IMPROVED DIRECTIONAL STABILITY AND STEERABILITY DURING PANIC BRAKING.

1. INPUT SIGNALS

- (1) SPEED SENSOR SIGNAL
 - THE SPEED OF THE WHEELS IS DETECTED AND INPUT TO TERMINALS FL+, FR+, RL+ AND RR+ OF THE ABS ECU.
- (2) STOP LIGHT SW SIGNAL
 - A SIGNAL IS INPUT TO TERMINAL STP OF THE ABS ECU WHEN THE BRAKE PEDAL IS OPERATED.
- (3) PARKING BRAKE SW SIGNAL
 - A SIGNAL IS INPUT TO TERMINAL PKB OF THE ABS ECU WHEN THE PARKING BRAKE IS OPERATED.

2. SYSTEM OPERATION

DURING SUDDEN BRAKING THE ABS ECU, WHICH HAS SIGNALS INPUT FROM EACH SENSOR, CONTROLS THE CURRENT FLOWING TO THE SOLENOID INSIDE THE ACTUATOR AND LETS THE HYDRAULIC PRESSURE ACTING ON EACH WHEEL CYLINDER ESCAPE TO THE RESERVOIR. THE PUMP INSIDE THE ACTUATOR IS ALSO OPERATING AT THIS TIME AND IT RETURNS THE BRAKE FLUID FROM THE RESERVOIR TO THE MASTER CYLINDER, THUS PREVENTING LOCKING OF THE VEHICLE WHEELS.

IF THE ECU JUDGES THAT THE HYDRAULIC PRESSURE ACTING ON THE WHEEL CYLINDER IS INSUFFICIENT, THE CURRENT ACTING ON THE SOLENOID IS CONTROLLED AND THE HYDRAULIC PRESSURE IS INCREASED. HOLDING OF THE HYDRAULIC PRESSURE IS ALSO CONTROLLED BY THE ECU, BY THE SAME METHOD AS ABOVE. BY REPEATED PRESSURE REDUCTION, HOLDING AND INCREASE ARE REPEATED TO MAINTAIN VEHICLE STABILITY AND TO IMPROVE STEERABILITY DURING SUDDEN BRAKING.

SERVICE HINTS

A18(A), A19(B) ABS ECU

(CONNECT THE ECU CONNECTOR)

(A) 5-GROUND APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION AND DATA LINK CONNECTOR 1 (CHECK CONNECTOR)

(B)15-GROUND FTS -E1 NOT CONNECTED

(A)11-GROUND, (A) 13-GROUND :

(A)14-GROUND, (A) 1-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION ABS WARNING LIGHT GOES OFF (A)26-GROUND, (A) 18-GROUND: (A) 2-GROUND ALWAYS CONTINUITY

(A)15-GROUND

(A)12-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

(B) 6-GROUND: APPROX. 12 VOLTS WITH BRAKE PEDAL DEPRESSED

(A)25-GROUND: ALWAYS APPROX. 12 VOLTS

(A)14-GROUND: APPROX. 12 VOLTS WITH ENGINE RUNNING AND PARKING BRAKE PEDAL DEPRESSED OR PARKING LEVER

PÚLLED UP

A 6(B), A 7(A) ABS RELAY

(B) 1, (A) 2-GROUND: ALWAYS APPROX. 12 VOLTS

(A) 6-GROUND : ALWAYS CONTINUITY

A 4(A), A 5(B) ABS ACTUATOR

(A) 2-GROUND: APPROX. 5 (IGNITION SW OFF)

(A) 1, (A) 3, (A) 4, (A) 6-GROUND: APPROX. 1.15 (IGNITION SW OFF)

(B) 1-GROUND: ALWAYS CONTINUITY

A 8, A 9 ABS SPEED SENSOR FRONT LH, RH

1-2: APPROX. 1.07K (20°C, 68°F)

A24, A25 ABS SPEED SENSOR REAR LH, RH

1-2: APPROX. **1.25**K (**20**°C, **68**°F)

P 4 PARKING BRAKE SW

1-GROUND: CLOSED WITH PARKING BRAKE LEVER PULLED UP

S10 STOP LIGHT SW

2-1: CLOSED WITH BRAKE PEDAL DEPRESSED

: PARTS LOCATION

CODE		SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
A 4	Α	28	A18 A	30	D1	28
A 5	В	28	A19 B	30	D 3	30
A 6	В	28	A24	32	F 7	28
A 7	Α	28	A25	32	J 4	31
Α	8	28	C7 A	30	P 4	31
Α	9	28	C8 B	30	S12	31

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1A		
1D	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1M		
3A		
3B	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)
3C		
3D		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EB1	34	ENGINE WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)
IH1	36	COWL WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
II1	36	FLOOR NO. 1 WIRE AND COWL WIRE (LEFT KICK PANEL)
IM1	38	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)
IM3	36	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)
IO2	38	ENGINE ROOM MAIN WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IP1	38	FLOOR NO. 2 WIRE AND COWL WIRE (RIGHT KICK PANEL)

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EA	34	FRONT RIGHT FENDER
EB	34	FRONT LEFT FENDER
EC	34	INTAKE MANIFOLD RH

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	
E 5			E 23	34	ENGINE ROOM MAIN WIRE	
E 21	34	ENGINE ROOM MAIN WIRE	I 88	38	COWL WIRE	
E 22			189		COVIL WIRE	





A 5® BLACK



A 6 B GRAY



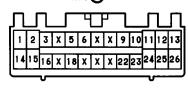
A 7 A GRAY



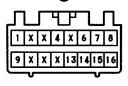
8. A 9 GRAY



A18 A DARK GRAY



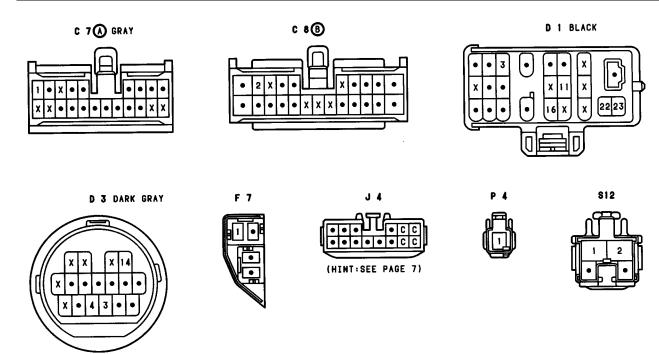
A19® DARK GRAY



A24. A25 GRAY



ABS (ANTI-LOCK BRAKE SYSTEM)



SRS (SUPPLEMENTAL RESTRAINT SYSTEM)

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

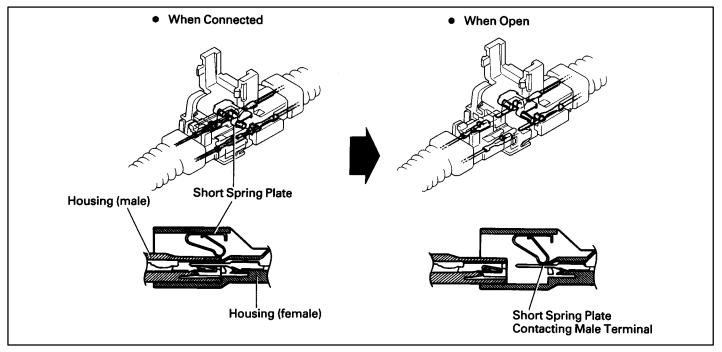
- ▼ Malfunction symptoms of the supplemental restraint system are difficult to confirm, so the diagnostic trouble codes become the most important source of information when troubleshooting.
 - When troubleshooting the supplemental restraint system, always inspect the diagnostic trouble codes before disconnecting the battery.
- ▼ Work must be started after 90 seconds from the time the Ignition SW is set to the "LOCK" position and the negative (–) terminal cable is disconnected from the battery.
 - (The supplemental restraint system is equipped with a back—up power source so that if work is started within 90 seconds of disconnecting the negative (–) terminal cable of the battery, the SRS may be activated.)
 - When the negative (–) terminal cable is disconnected from the battery, memory of the clock and audio systems will be cancelled. So before starting work, make a record of the contents memorized by each memory system. When work is finished, reset the clock and audio system as before and adjust the clock. This vehicle has tilt and telescopic steering, power seat and outside rear view mirror and power shoulder belt anchorage, which are all equipped with memory function, it is not possible to make a record of the memory contents. So when the work is finished, therefore it will be necessary to explain this fact to the customer, and ask the customer to adjust the features and reset the memory.
 - To avoid erasing the memory of each memory system, never use a back-up power supply from outside the vehicle.
- When removing the steering wheel pad or handling a new steering wheel pad, keep the pad upper surface facing upward. Also, lock the lock lever of the twin lock type connector at the rear of the pad and take care not to damage the connector.
 - (Storing the pad with its metallic surface up may lead to a serious accident if the SRS inflates for some reason.)
- ▼ Store the steering wheel pad where the ambient temperature remains below 93°C (200°F), without high humidity and away from electrical noise.
- ▼ Never use SRS parts from another vehicle. When replacing SRS parts, replace them with new parts.
- ▼ Never disassemble and repair the steering wheel pad, center SRS sensor assembly or front airbag sensors.
- ▼ Before repairing the body, remove the airbag sensors if during repair shocks are likely to be applied to the sensors due to vibration of the body or direct tapping with tools or other parts.
- ▼ Do not reuse a steering wheel pad or front airbag sensors.
 - After evaluating whether the center airbag sensor assembly is damaged or not, decide whether or not to reuse it. (See the Repair Manual for the method for evaluating the center airbag sensor assembly.)
- ▼ When troubleshooting the supplemental restraint system, use a high–impedance (Min. 10k /V) tester.
- ▼ The wire harness of the supplemental restraint system is integrated with the cowl wire harness assembly, engine room main wire harness assembly and cowl No. 2 wire harness assembly.
 - The vehicle wiring harness exclusively for the airbag system is distinguished by corrugated yellow tubing, as are the connectors.
- ▼ Do not measure the resistance of the airbag squib.
 - (It is possible this will deploy the airbag and is very dangerous.)
- ▼ If the wire harness used in the supplemental restraint system is damaged, replace the whole wire harness assembly.
 - When the connector to the airbag front sensors can be repaired alone (when there is no damage to the wire harness), use the repair wire specially designed for the purpose.
 - (Refer to the Repair Manual for the applicable Model year for details of the replacement method.)
- ▼ INFORMATION LABELS (NOTICES) are attached to the periphery of the SRS components. Follow the instructions on the notices.

SRS (SUPPLEMENTAL RESTRAINT SYSTEM)

The supplemental restraint system has connectors which possess the functions described below:

1. SRS ACTIVATION PREVENTION MECHANISM

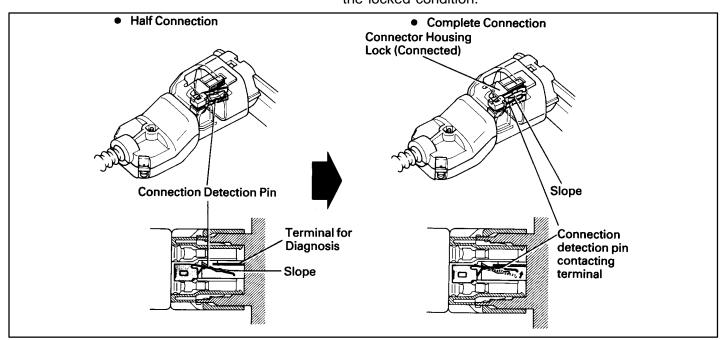
Each connector contains a short spring plate. When the connector is disconnected, the short spring plate automatically connects the power source and grounding terminals of the squib to preclude a potential difference between the terminals.



2. ELECTRICAL CONNECTION CHECK MECHANISM

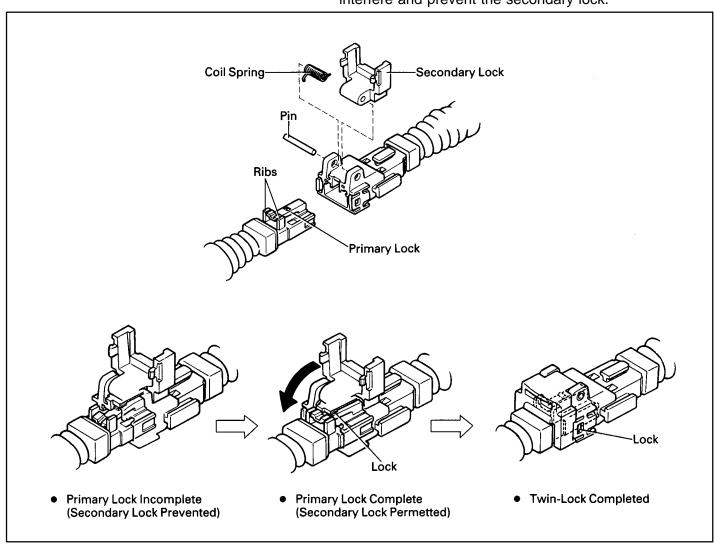
This mechanism is designed to electrically check if connectors are connected correctly and completely.

The electrical connection check mechanism is designed so that the connection detection pin connects with the diagnosis terminals when the connector housing lock is in the locked condition.

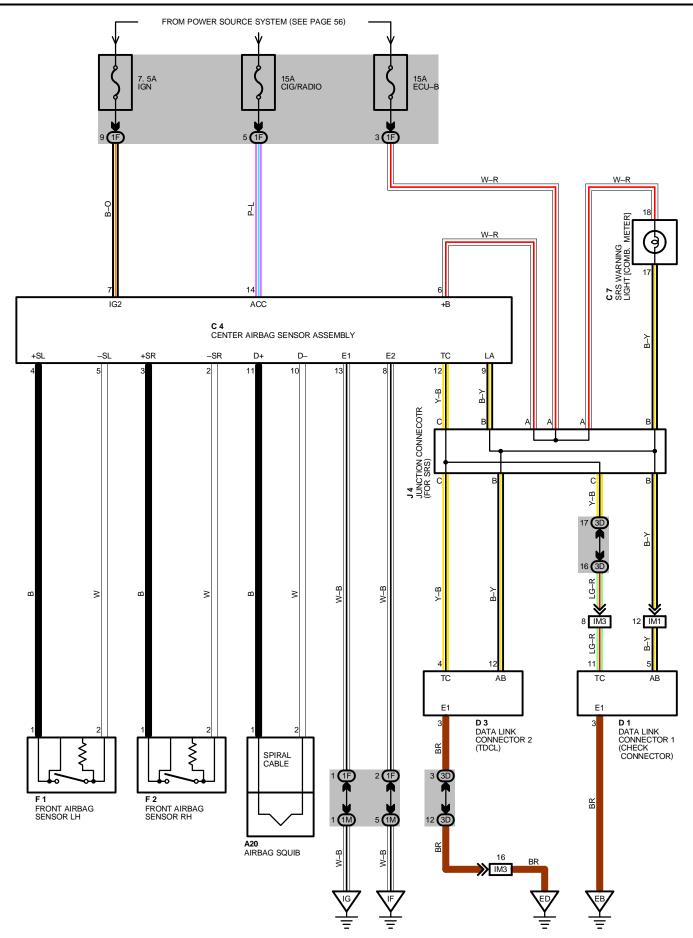


3. CONNECTOR TWIN-LOCK MECHANISM

With this mechanism connectors (male and female connectors) are locked by two locking devices to increase connection reliability. If the primary lock is incomplete, ribs interfere and prevent the secondary lock.



SRS (SUPPLEMENTAL RESTRAINT SYSTEM)



SYSTEM OUTLINE

THE SRS (SUPPLEMENTAL RESTRAINT SYSTEM) IS A DRIVER PROTECTION DEVICE WHICH HAS A SUPPLEMENTAL ROLE TO THE SEAT BELTS.

CURRENT FLOWS CONSTANTLY TO **TERMINAL 6** OF THE CENTER AIRBAG SENSOR ASSEMBLY. WHEN THE IGNITION SW IS TURNED TO ACC OR ON, CURRENT FROM THE **CIG/RADIO** FUSE FLOWS TO **TERMINAL 14** OF THE CENTER AIRBAG SENSOR ASSEMBLY. ONLY WHEN THE IGNITION SW IS ON DOES THE CURRENT FROM THE **IGN** FUSE TO **TERMINAL 7**.

IF AN ACCIDENT OCCURS WHILE DRIVING, DECELERATION CAUSED BY A FRONTAL IMPACT IS DETECTED BY EACH SENSOR AND SWITCH, AND WHEN THE FRONTAL IMPACT EXCEEDS A SET LEVEL (WHEN THE SAFING SENSOR BUILT INTO THE CENTER AIRBAG SENSOR ASSEMBLY IS ON AND THE CENTER AIRBAG SENSOR IS ON, FRONT AIRBAG SENSORS ARE OFF), CURRENT FROM THE CIG OR IGN FUSE FLOWS TO TERMINAL 11 OF THE CENTER AIRBAG SENSOR ASSEMBLY \rightarrow TERMINAL 1 OF THE AIRBAG SQUIB \rightarrow SQUIB \rightarrow TERMINAL 2 \rightarrow TERMINAL 10 OF CENTER AIRBAG SENSOR ASSEMBLY \rightarrow TERMINAL 13 OR BODY GROUND \rightarrow GROUND.

WHEN THE SAFING SENSOR BUILT INTO THE CENTER AIRBAG SENSOR ASSEMBLY IS ON AND THE FRONT AIRBAG SENSOR LH OR RH IS ON, CENTER AIRBAG SENSOR IS OFF CURRENT FROM THE CIG/RADIO OR IGN FUSE FLOWS TO TERMINAL 11 OF THE CENTER AIRBAG SENSOR ASSEMBLY \rightarrow TERMINAL 1 OF THE AIRBAG SQUIB \rightarrow SQUIB \rightarrow TERMINAL 2 \rightarrow TERMINAL 10 OF CENTER AIRBAG SENSOR ASSEMBLY \rightarrow TERMINAL 4 OR 3 \rightarrow TERMINAL 1 OF FRONT AIRBAG SENSOR \rightarrow TERMINAL 2 \rightarrow TERMINAL 5 OR 2 OF CENTER AIRBAG SENSOR ASSEMBLY \rightarrow TERMINAL 8, TERMINAL 13 OR BODY GROUND \rightarrow GROUND.

WHEN THE SAFING SENSOR BUILT INTO THE CENTER AIRBAG SENSOR ASSEMBLY IS ON, AND THE FRONT AIRBAG SENSOR LH OR RH IS ON AND CENTER AIRBAG SENSOR IS ON ONE OF THE ABOVE—MENTIONED CIRCUITS IS ACTIVATED SO THAT CURRENT FLOWS TO THE AIRBAG SQUIB AND CAUSES IT TO OPERATE. THE BAG STORED INSIDE THE STEERING WHEEL PAD IS INSTANTANEOUSLY EXPANDED TO SOFTEN THE SHOCK TO THE DRIVER.

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
A20	30	D 1	28	F 2	28
C 4	28	D 3	30	J 4	31
C 7	30	F 1	28		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)			
1F	20	COMMUNICE AND URANG A (INICIDIALISMENT DANIEL LEET)			
1M	20 COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)				
3D	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)			

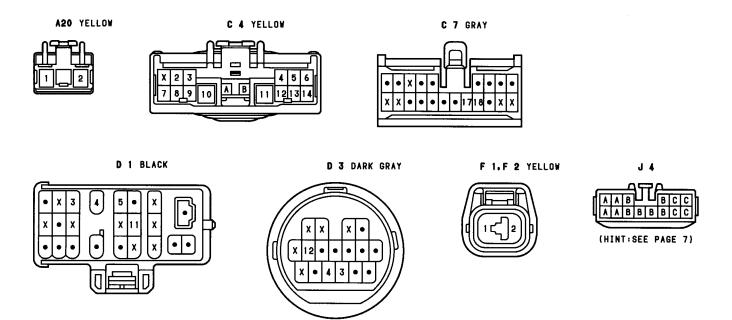
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

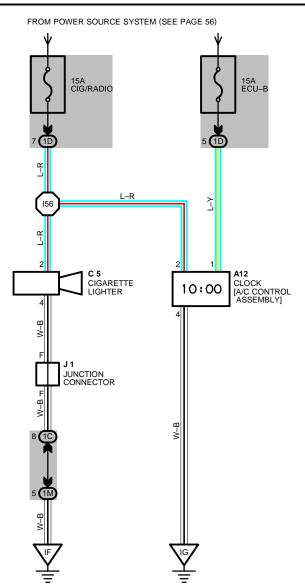
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IM1	20	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)
IM3	30	ENGINE WIRE AND COWE WIRE (UNDER THE GEOVE BOX)

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EB	34	FRONT LEFT FENDER
ED	34	INTAKE MANIFOLD LH
IF	36	LEFT KICK PANEL
IG	36	INSTRUMENT PANEL BRACE LH

SRS (SUPPLEMENTAL RESTRAINT SYSTEM)





SERVICE HINTS

C5 CIGARETTE LIGHTER

2-GROUND : APPROX. 12 VOLTS WITH IGNITION SW

AT ACC OR ON POSITION
JND : ALWAYS CONTINUITY

4-GROUND : ALWAYS CONTINUITY

A12 CLOCK

1-GROUND : ALWAYS12 VOLTS (POWER FOR CLOCK)

 $\hbox{2--GROUND}: \hbox{APPROX}. \textbf{12} \hbox{ VOLTS WITH IGNITION SW}$

AT ACC OR ON POSITION (POWER FOR INDICATION)

4-GROUND : ALWAYS CONTINUITY

A12 BLUE

C 5 DARK GRAY









: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
A12	30	C 5	30	J1	31

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1C		
1D	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1M		
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)

∇

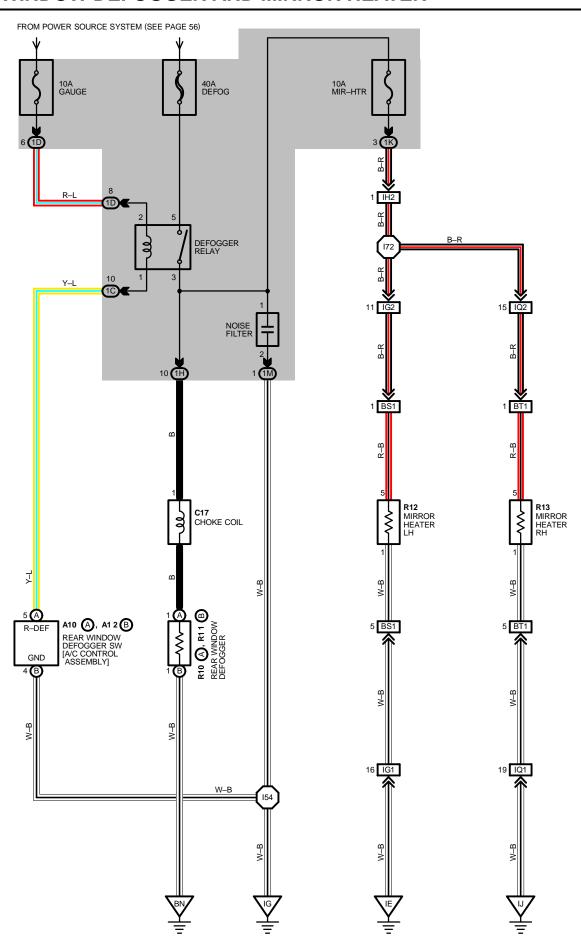
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IF	36	LEFT KICK PANEL
IG	36	INSTRUMENT PANEL BRACE LH

: SPLICE POINTS

\smile					
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
156	38	COWL WIRE			

REAR WINDOW DEFOGGER AND MIRROR HEATER



SERVICE HINTS

DEFOGGER RELAY

5-3 : CLOSED WITH IGNITION SW AT **ON** POSITION AND DEFOGGER SW (A/C CONTROL ASSEMBLY) ON

: PARTS LOCATION

CODE		SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
A10	Α	30	R10 A	32	R13	32
A12	В	30	R11 B	32		
C.	17	32	R12	32		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1C	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1D	20	COWL WIRE AND 3/B NO. 1 (INSTRUMENT PANEL LEFT)
1H	20	FLOOR NO. 1 WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1K	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1M	20	COWE WIRE AND JID NO. 1 (INCINCIMENT I ANEE EEFT)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

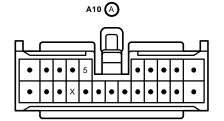
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)			
IG1	00	EDON'T DOOD LILLWIDE AND INOTHINAENT DANIEL WIDE (LEFT I/IO/C DANIEL)			
IG2	36	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)			
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)			
IQ1	20	EDON'T DOOD DILLWIDE AND INCTDUMENT DANIEL WIDE (DIQUETY/OK DANIEL)			
IQ2	38	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)			
BS1	40	MIRROR LH WIRE AND FRONT DOOR LH WIRE (FRONT LH DOOR INSIDE)			
BT1	40 MIRROR RH WIRE AND FRONT DOOR RH WIRE (FRONT RH DOOR INSIDE)				

: GROUND POINTS

•						
CODE	SEE PAGE	DUND POINTS LOCATION				
IE	36	T KICK PANEL				
IG	36	INSTRUMENT PANEL BRACE LH				
IJ	36	RIGHT KICK PANEL				
BN	36	LEFT QUARTER PILLAR				

: SPLICE POINTS

_					
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 54	38	COWL WIRE	l 72	38	INSTRUMENT PANEL WIRE





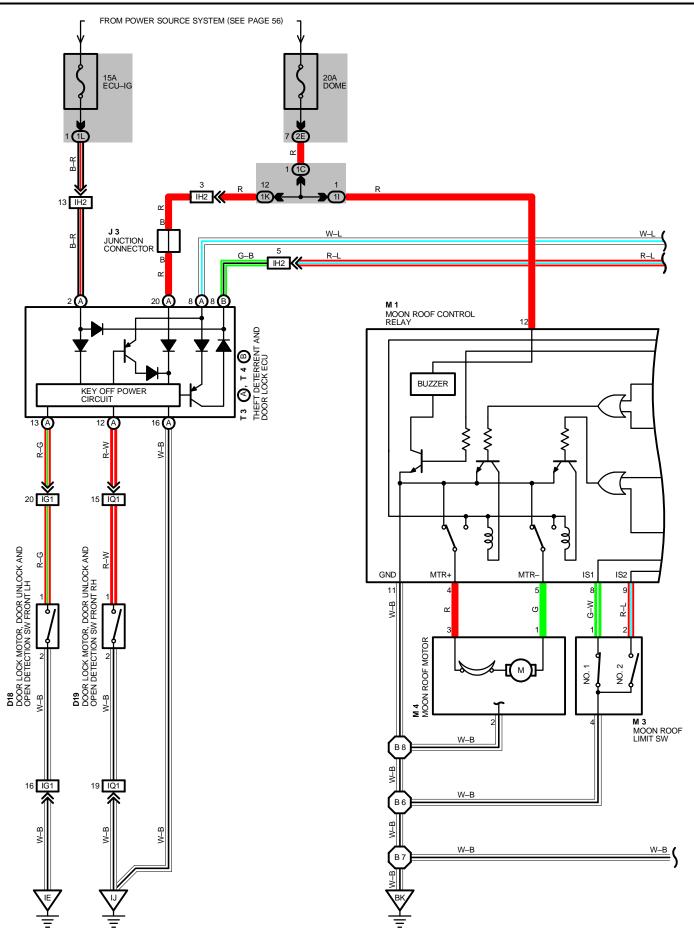


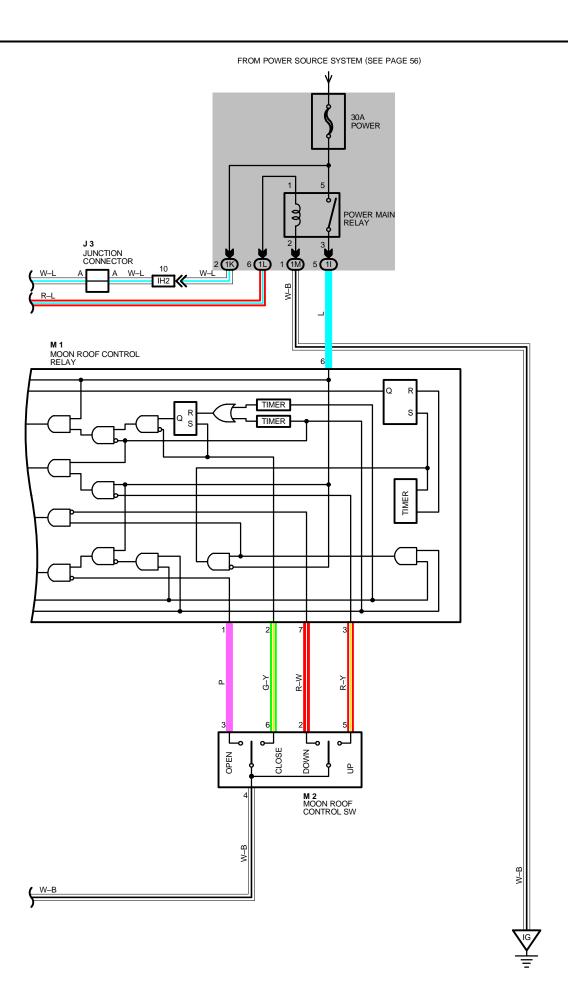






R12, R13





MOON ROOF

SYSTEM OUTLINE

CURRENT IS APPLIED AT ALL TIMES THROUGH **POWER** FUSE TO **TERMINAL 5** OF POWER MAIN RELAY AND ALSO THROUGH **DOME** FUSE TO **TERMINAL 12** OF MOON ROOF CONTROL RELAY.

WHEN THE IGNITION SW TURNED ON, THE CURRENT FLOWS FROM **TERMINAL 1** OF POWER MAIN RELAY \rightarrow **TERMINAL 2** \rightarrow TO **GROUND** THROUGH **ECU-IG** FUSE. AS A RESULT, POWER MAIN RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 5** OF POWER MAIN RELAY FLOWS FROM **TERMINAL 3** OF RELAY TO **TERMINAL 6** OF MOON ROOF CONTROL RELAY.

1. SLIDE OPEN OPERATION

WHEN THE IGNITION SW IS TURNED ON AND THE MOON ROOF CONTROL SW IS PUSHED TO THE **OPEN** POSITION, A SIGNAL IS INPUT FROM **TERMINAL 3** OF MOON ROOF CONTROL SW TO **TERMINAL 1** OF MOON ROOF CONTROL RELAY. WHEN THIS OCCURS, THE RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 6** OF MOON ROOF CONTROL RELAY FLOWS FROM **TERMINAL 5** \rightarrow **TERMINAL 1** OF MOON ROOF MOTOR \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 4** OF MOON ROOF CONTROL RELAY \rightarrow **TERMINAL 11** \rightarrow TO **GROUND** AND ROTATES THE MOTOR TO OPEN THE MOON ROOF WHILE THE SW IS BEING PUSHED TO **OPEN** POSITION.

2. SLIDE CLOSE OPERATION

WITH THE IGNITION SW TURNED ON, THE MOON ROOF COMPLETELY OPEN AND MOON ROOF LIMIT SW NO.1 AND NO. 2 BOTH ON, WHEN THE MOON ROOF CONTROL SW IS PUSHED TO THE **CLOSE** POSITION A SIGNAL IS INPUT FROM **TERMINAL 6** OF MOON ROOF CONTROL SW TO **TERMINAL 2** OF MOON ROOF CONTROL RELAY.

WHEN THIS OCCURS, THE RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 6** OF MOON ROOF CONTROL RELAY FLOWS FROM **TERMINAL 4** \rightarrow **TERMINAL 3** OF MOON ROOF MOTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 5** OF MOON ROOF CONTROL RELAY \rightarrow **TERMINAL 11** \rightarrow TO **GROUND** AND ROTATES THE MOTOR TO CLOSE THE MOON ROOF WHILE THE SW IS BEING PUSHED TO **CLOSE** POSITION.

MOON ROOF LIMIT SW NO. 1 TURNS OFF (LIMIT SW NO. 2 IS ON) AND A 100MM BEFORE FULLY CLOSE POSITION, SIGNAL IS INPUT FROM TERMINAL 1 OF LIMIT SW NO. 1 TO TERMINAL 8 OF MOON ROOF CONTROL RELAY. THIS SIGNAL ACTIVATES THE RELAY AND STOPS CONTINUITY FROM TERMINAL 6 OF MOON ROOF CONTROL RELAY TO TERMINAL 11. AS A RESULT, THE MOON ROOF STOPS AT THIS POSITION.

TO CLOSE THE MOON ROOF COMPLETELY, PUSHING THE MOON ROOF CONTROL SW AGAIN TO THE CLOSE SIDE CAUSES A SIGNAL TO BE INPUT AGAIN TO **TERMINAL 2** OF MOON ROOF CONTROL RELAY. THIS ACTIVATES THE RELAY AND THE MOON ROOF WILL CLOSE AS LONG AS THE MOON ROOF CONTROL SW IS BEING PUSHED, ALLOWING THE MOON ROOF TO FULLY CLOSE.

3. TILT UP OPERATION

WHEN THE MOON ROOF CONTROL SW IS PUSHED TO **TILT UP** POSITION, WITH THE IGNITION SW TURNED ON AND THE MOON ROOF COMPLETELY CLOSED (MOON ROOF LIMIT SW NO. 2 IS OFF), A SIGNAL IS INPUT FROM **TERMINAL 5** OF MOON ROOF CONTROL SW TO **TERMINAL 3** OF MOON ROOF CONTROL RELAY. AS A RESULT, THE RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 6** OF RELAY FLOWS FROM **TERMINAL 4** OF RELAY \rightarrow **TERMINAL 3** OF MOON ROOF MOTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 5** OF RELAY \rightarrow **TERMINAL 11** TO **GROUND** AND ROTATES THE MOTOR SO THAT TILT UP OPERATION OCCURS AS LONG AS THE MOON ROOF CONTROL SW IS PUSHED ON THE TILT UP SIDE.

4. TILT DOWN OPERATION

WHEN THE MOON ROOF CONTROL SW IS PUSHED TO **TILT DOWN** POSITION, WITH THE IGNITION SW TURNED ON AND THE MOON ROOF TILTED UP (NO. 1 AND NO. 2 MOON ROOF LIMIT SWITCHES ARE BOTH OFF), A SIGNAL IS INPUT FROM **TERMINAL 2** OF MOON ROOF CONTROL SW TO **TERMINAL 7** OF MOON ROOF CONTROL RELAY.

AS THE RESULT, THE RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 6** OF RELAY FLOWS FROM **TERMINAL 5** OF RELAY \rightarrow **TERMINAL 1** OF MOON ROOF MOTOR \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 4** OF RELAY \rightarrow **TERMINAL 11** \rightarrow TO **GROUND** AND ROTATES THE MOTOR SO THAT TILT DOWN OPERATION OCCURS AS LONG AS THE MOON ROOF CONTROL SW IS PUSHED ON THE TILT DOWN SIDE. (DURING TILT DOWN, LIMIT SW NO. 1 IS CHANGED OFF TO ON.)

5. KEY OFF MOON ROOF OPERATION

WITH THE IGNITION SW TURNED FROM ON TO OFF, THE THEFT DETERRENT AND DOOR LOCK ECU OPERATES AND CURRENT FLOWS FROM POWER FUSE TO **TERMINAL (A)8** OF THE ECU OR **DOME** FUSE TO **TERMINAL (A)20** OF THE ECU \rightarrow **TERMINAL (B)8** \rightarrow **TERMINAL 1** OF POWER MAIN RELAY \rightarrow **TERMINAL 2** \rightarrow TO **GROUND** FOR ABOUT **60** SECONDS. THE SAME AS NORMAL OPERATION, THE CURRENT FLOWS FROM POWER FUSE \rightarrow **TERMINAL 5** OF THE POWER MAIN RELAY \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 6** OF THE MOON ROOF CONTROL RELAY. AS A RESULT, FOR ABOUT **60** SECONDS AFTER THE IGNITION SW IS TURNED OFF, THE FUNCTIONING OF THIS RELAY MAKES IT POSSIBLE TO OPEN AND CLOSE THE MOON ROOF. ALSO, BY OPENING THE FRONT DOOR (DOOR DETECT SW ON) WITHIN ABOUT **60** SECONDS AFTER TURNING THE IGNITION SW TO OFF, A SIGNAL IS INPUT TO **TERMINAL (A)12** OR **(A)13** OF THEFT DETERRENT AND DOOR LOCK ECU. AS A RESULT, THE ECU TURNS OFF AND OPEN AND CLOSE MOVEMENT OF THE MOON ROOF STOPS.

_ SYSTEM OUTLINE

6. TILT UP REMINDER SYSTEM

WITH THE IGNITION SW IS SWITCHED FROM **ON** TO **ACC** OR **OFF**, AND **60** SECONDS THEN ELAPSES OR THE FRONT DOOR IS OPENED, A SIGNAL IS INPUT TO **TERMINAL 6** OF THE MOON ROOF CONTROL RELAY. AT THIS TIME, MOON ROOF LIMIT SW NO. 1 AND NO. 2 ARE OFF, SO SIGNALS ARE INPUT TO **TERMINALS 8** AND **9** OF MOON ROOF CONTROL RELAY THAT THE MOON ROOF IS IN THE TILT OPERATION POSITION. WHEN THESE SIGNALS ARE INPUT TO THE MOON ROOF CONTROL RELAY, THE TIMER BUILT INTO THE RELAY OPERATES.

THUS THE CURRENT TO **TERMINAL 12** OF MOON ROOF CONTROL RELAY FLOWS THROUGH BUZZER OF MOON ROOF CONTROL RELAY AND **TERMINAL 11** OF MOON ROOF CONTROL RELAY TO **GROUND** AND THE BUZZER SOUNDS ABOUT **8** TIMES TO NOTIFY THAT THE MOON ROOF IS STILL IN THE TILT UP CONDITION.

SERVICE HINTS

POWER MAIN RELAY

5-3: CLOSED WITH IGNITION SW AT ON POSITION

M 1 MOON ROOF CONTROL RELAY

11-GROUND: ALWAYS CONTINUITY

6-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

4-GROUND: APPROX. 12 VOLTS WITH IGNITION SW ON, AND MOON ROOF CONTROL SW AT CLOSE OR UP POSITION

(EXCEPT APPROX. 100 MM (3.941 IN.) BEFORE FULLY CLOSED POSITION

5-GROUND: APPROX. 12 VOLTS WITH IGNITION SW ON, AND MOON ROOF CONTROL SW AT OPEN OR DOWN POSITION

12-GROUND: ALWAYS APPROX. 12 VOLTS

M 2 MOON ROOF CONTROL SW

5-4: CLOSED WITH MOON ROOF CONTROL SW AT **UP** POSITION
6-4: CLOSED WITH MOON ROOF CONTROL SW AT **CLOSE** POSITION
2-4: CLOSED WITH MOON ROOF CONTROL SW AT **DOWN** POSITION
3-4: CLOSED WITH MOON ROOF CONTROL SW AT **OPEN** POSITION

4-GROUND: ALWAYS CONTINUITY

) : PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CO	DE	SEE PAGE
D18	32	M 1	32	М		32
D19	32	M 2	32	T 3	Α	31
J 3	31	M 3	32	T 4	В	31

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1C	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
11	20	ROOF WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1K		
1L	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1M		
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)

☐ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IG1	36	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IQ1	38	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)

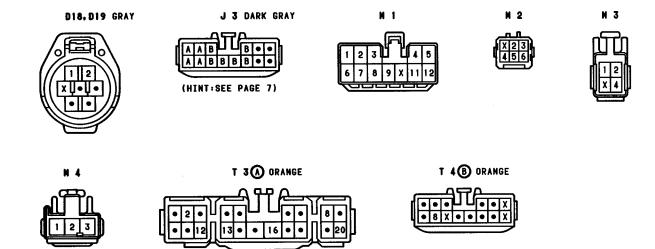
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION			
IE	36	T KICK PANEL			
IG	36	INSTRUMENT PANEL BRACE LH			
IJ	36	RIGHT KICK PANEL			
BK	40	ROOF LEFT			

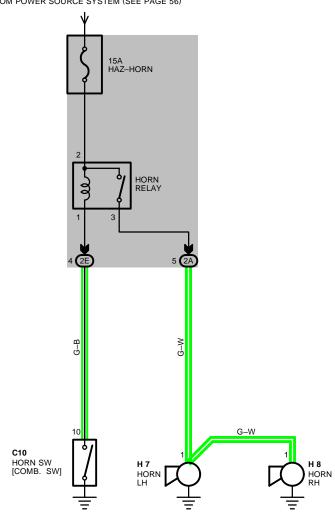
: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
B 6	40	ROOF WIRE	B 8	40	ROOF WIRE
В7	70	NOOF WIRE			

MOON ROOF



FROM POWER SOURCE SYSTEM (SEE PAGE 56)



SERVICE HINTS

HORN RELAY

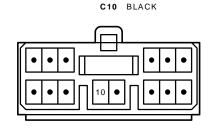
2-3: CLOSED WITH HORN SW ON

: PARTS LOCATION

Ī	CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
	C10	30	H 7	28	H 8	28

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

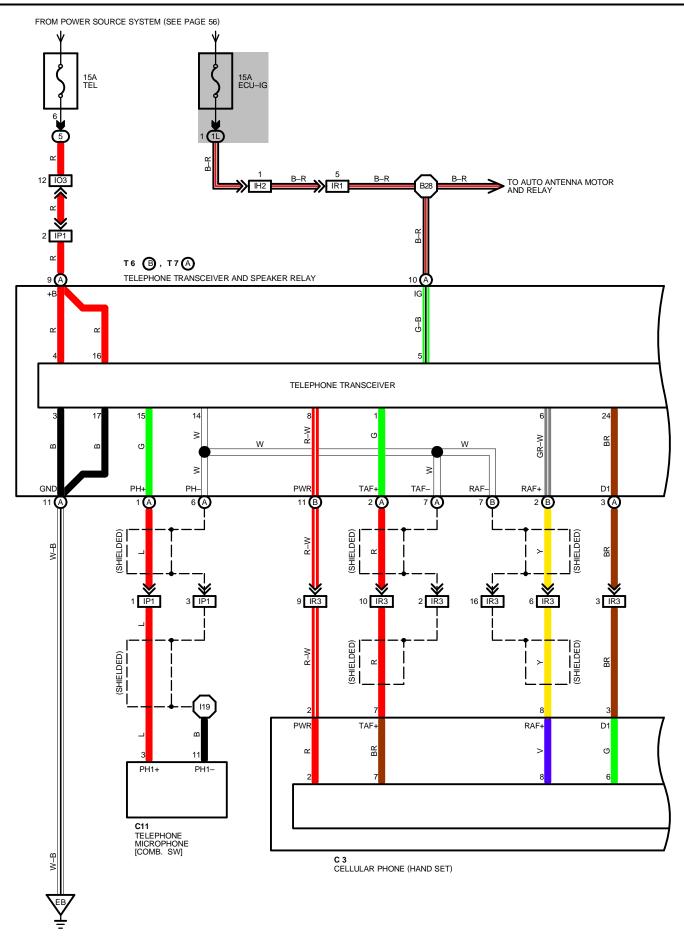
CODE	SEE PAGE JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)					
2A	2A 22 ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)					
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)				

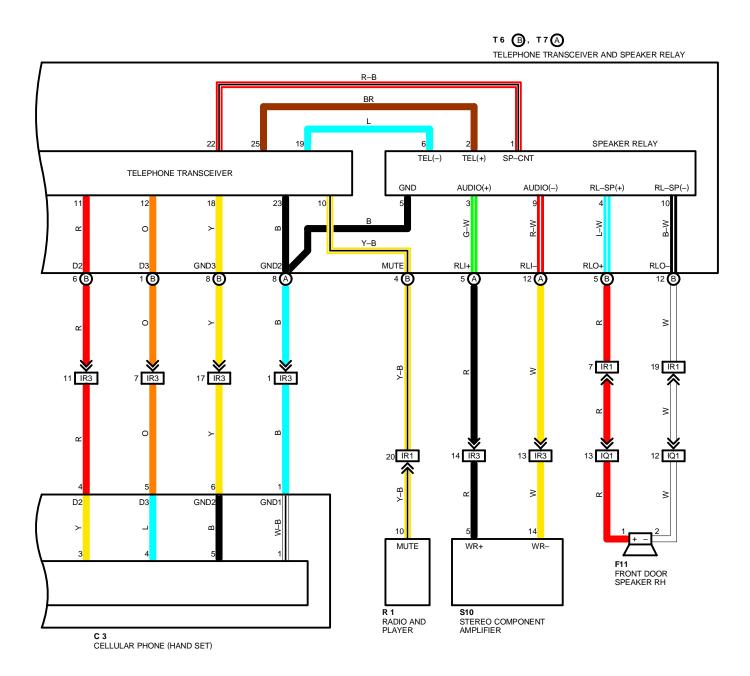




H 7, H 8

CELLULAR MOBILE TELEPHONE





CELLULAR MOBILE TELEPHONE

SERVICE HINTS

T 7(A) TELEPHONE TRANSCEIVER AND SPEAKER RELAY

(A) 9-GROUND : ALWAYS APPROX. 12 VOLTS

(A) 10-GROUND : APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

(A) 11-GROUND : ALWAYS CONTINUITY

: PARTS LOCATION

CODE	SEE PAGE	CO	DE	SEE PAGE	CODE		SEE PAGE
C 3	30	R	1	31	T 7	Α	32
C11	30	S	10	31			
F11	32	T 6	В	32			

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
5	26	R/B NO. 5 (ENGINE COMPARTMENT LEFT)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE SEE PAGE JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)			JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1L 20 COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)		COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)	

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

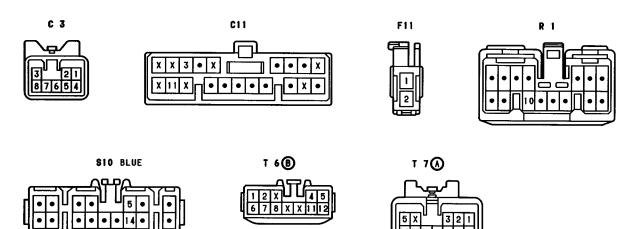
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
103	38	ENGINE ROOM MAIN WIRE AND COWL WIRE (RIGHT KICK PANEL)
IP1	38	FLOOR NO. 2 WIRE AND COWL WIRE (RIGHT KICK PANEL)
IQ1	38	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IR1 38 FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)		FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IR3	38	INSTRUMENT PANEL WIRE AND FLOOR NO. 2 WIRE (UNDER THE PASSENGER'S SEAT)

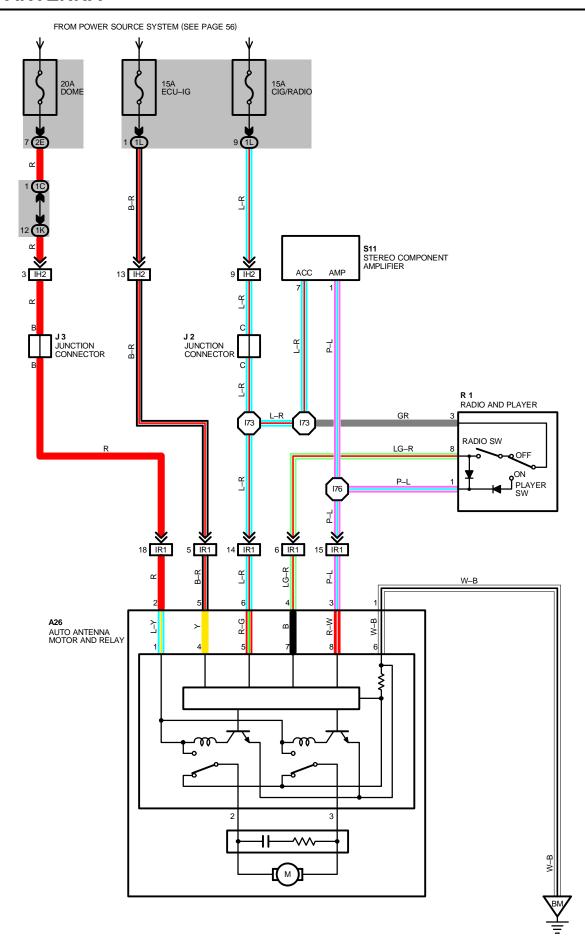
: GROUND POINTS

CODE SEE PAGE GROUND POINTS LOCATION		GROUND POINTS LOCATION
EB	34	FRONT LEFT FENDER

: SPLICE POINTS

_					
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 19	38	COWL WIRE	B 28	40	FLOOR NO. 2 WIRE





SERVICE HINTS

A26 AUTO ANTENNA MOTOR AND RELAY

5-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

6-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ACC OR ON POSITION

2-GROUND: ALWAYS APPROX. 12 VOLTS

4-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ACC OR ON POSITION AND RADIO SW ON

1-GROUND: ALWAYS CONTINUITY

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
A26	32	J 3	31	S 11	31
J 2	31	R 1	31		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	E PAGE JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)	
1C			
1K	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)	
1L			
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)	

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE SEE PAGE JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)		JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IH2 36 INSTRUM		INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IR1 38 FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)		FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)

: GROUND POINTS

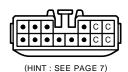
COD	SEEPAGE	GROUND POINTS LOCATION
BM	40	UNDER THE RIGHT QUARTER PILLAR

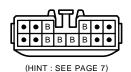
: SPLICE POINTS

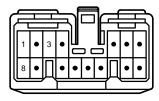
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 73	38	INSTRUMENT PANEL WIRE	I 76	38	INSTRUMENT PANEL WIRE

A26 J2 J3 DARK GRAY R 1

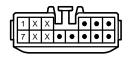


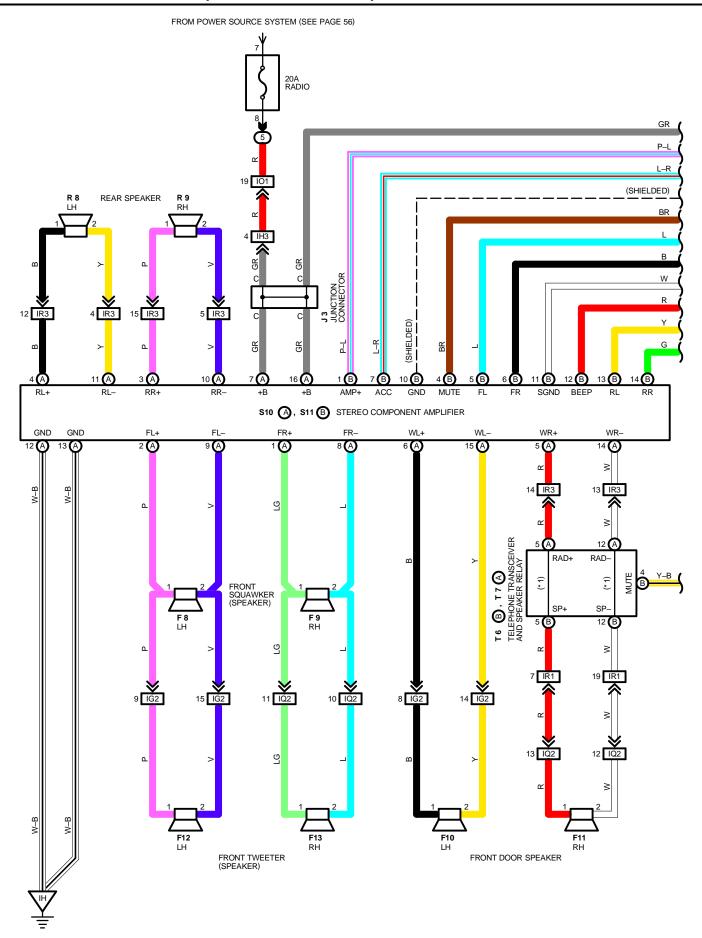


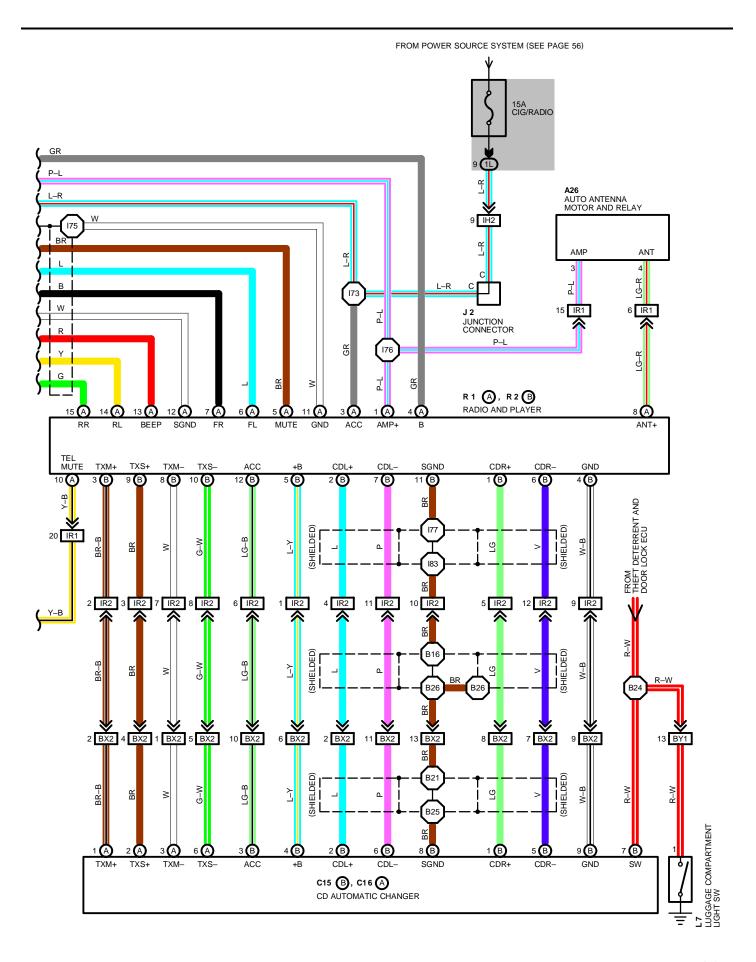




S11 GRAY







RADIO AND PLAYER (w/ CD CHANGER)

SERVICE HINTS

R 1(A) RADIO AND PLAYER

(A) 3–GROUND : APPROX. 12 VOLTS WITH IGNITION SW AT \mathbf{ON} OR \mathbf{ACC} POSITION

(A) 4-GROUND : ALWAYS APPROX. 12 VOLTS S12(A), S13(B) STEREO COMPONENT AMPLIFIER (A)12, (A) 13-GROUND : ALWAYS CONTINUITY

(B) 7-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON OR ACC POSITION

(A)16, (A) 17-GROUND: ALWAYS APPROX. 12 VOLTS

: PARTS LOCATION

CO	DE	SEE PAGE	CODE	SEE	PAGE CO	ODE	SEE PAGE	
A:	26	32	F12	32	I	₹ 8	32	
C15	В	32	F13	32	ı	र 9	32	
C16	Α	32	J 2	31	S10	Α	31	
F	8	30	J 3	31	S11	В	31	
F	9	30	L7	32	T 6	В	32	
F1	10	32	R1 A	31	T 7	Α	32	
F'	11	32	R 2 B	31				

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
5	26	R/B NO. 5 (ENGINE COMPARTMENT LEFT)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

	CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
Γ	IL	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)

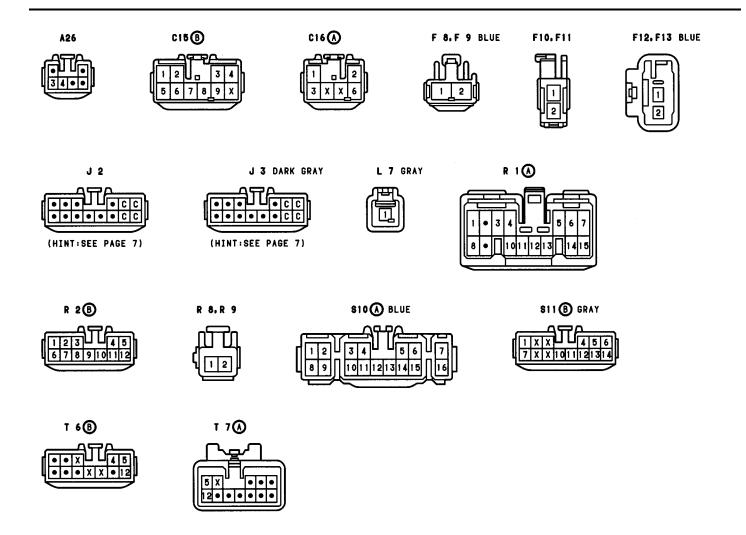
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IG2	36	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IH3	36	COWL WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IO1	38	ENGINE ROOM MAIN WIRE AND COWL WIRE (RIGHT KICK PANEL)
IQ2	38	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IR1	38	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IR2	- 38	INSTRUMENT PANEL WIRE AND FLOOR NO. 2 WIRE (UNDER THE PASSENGER'S SEAT)
IR3	36	INSTRUMENT PANEL WIRE AND FLOOR NO. 2 WIRE (UNDER THE PASSENGER'S SEAT)
BX2	40	FLOOR NO. 1 WIRE AND FLOOR NO. 2 WIRE (BEHIND PACKAGE TRAY TRIM)
BY1	40	LUGGAGE ROOM WIRE AND FLOOR NO. 1 WIRE (LUGGAGE ROOM LEFT)

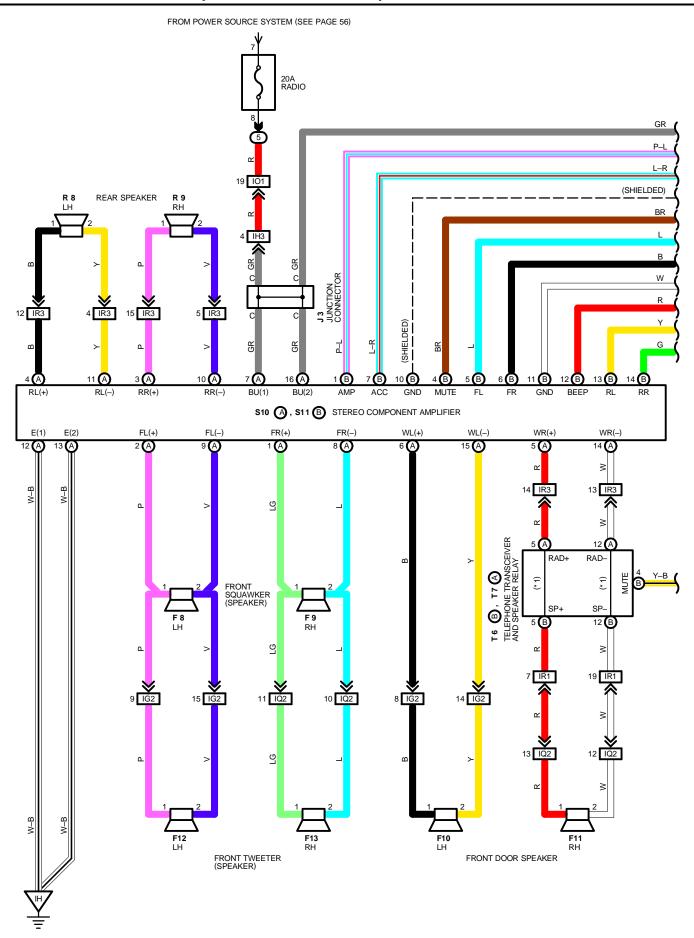
: GROUND POINTS

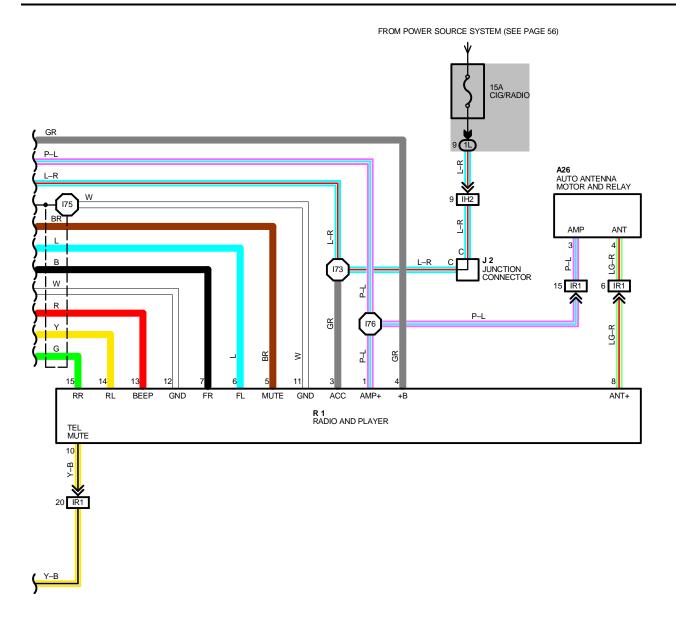
CODE	SEE PAGE	GROUND POINTS LOCATION
IH	36	INSTRUMENT PANEL BRACE RH

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
173			B 16	40	FLOOR NO. 2 WIRE
I 75			B 21		
I 76	38	INSTRUMENT PANEL WIRE	B 24	40	FLOOR NO. 1 WIRE
I 77			B 25		
I 83			B 26	40	FLOOR NO. 2 WIRE



RADIO AND PLAYER (w/o CD CHANGER)





RADIO AND PLAYER (w/o CD CHANGER)

SERVICE HINTS

S10(A), S11(B) STEREO COMPONENT AMPLIFIER

(A) 7, (A)16-GROUND: ALWAYS APPROX. 12 VOLTS

(B) 7-GROUND : APPROX. 12 VOLTS WITH IGNITION SW AT ON OR ACC POSITION

(A)12, (A)13-GROUND: ALWAYS CONTINUITY

R 1 RADIO AND PLAYER

3-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON OR ACC POSITION

4-GROUND: ALWAYS APPROX. 12 VOLTS

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	COI	DE	SEE PAGE
A26	32	F13	32	S10	Α	31
F 8	30	J 2	31	S11	В	31
F 9	30	J 3	31	T 6	В	32
F10	32	R 1	31	T 7	Α	32
F11	32	R 8	32	·		
F12	32	R 9	32			

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
5	26	R/B NO. 5 (ENGINE COMPARTMENT LEFT)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
IL	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)

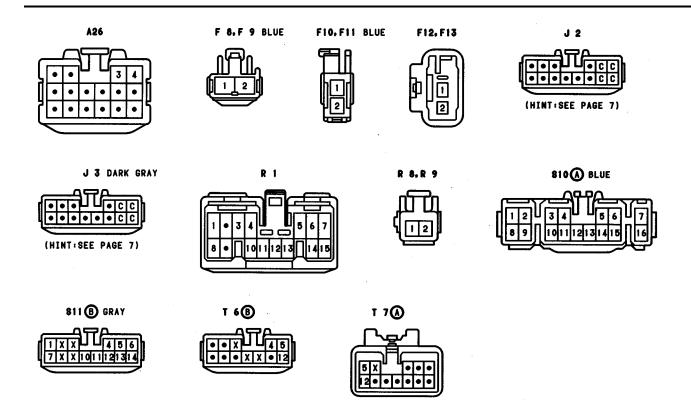
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

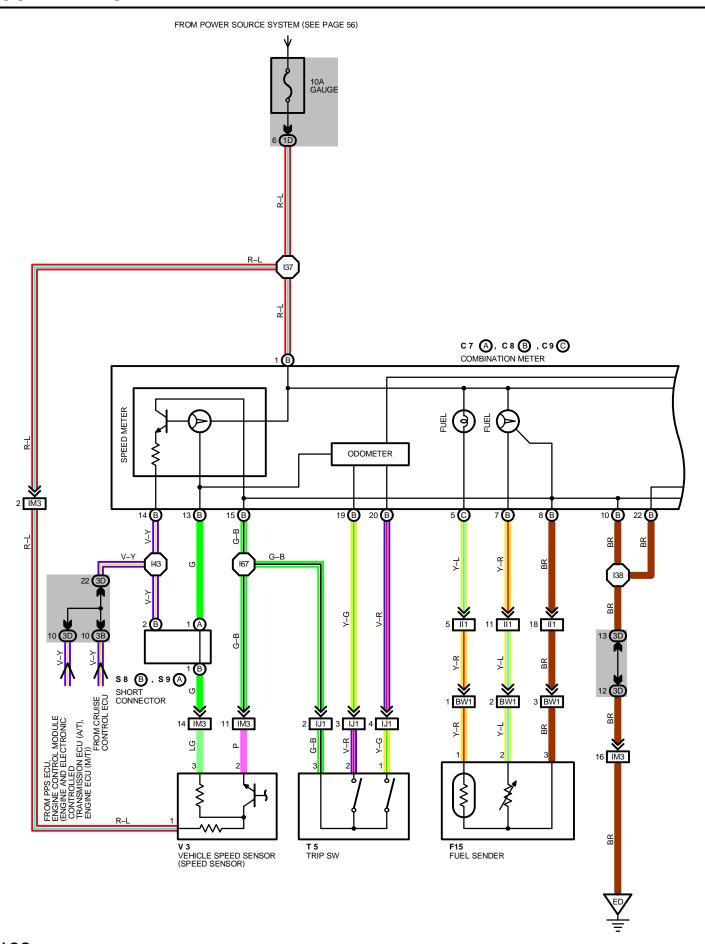
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IG2	36	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (INSTRUMENT PANEL LEFT)
IH3	36	COWL WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IO1	38	ENGINE ROOM MAIN WIRE AND COWL WIRE (RIGHT KICK PANEL)
IQ2	38	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IR1	38	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
IR3	38	INSTRUMENT PANEL WIRE AND FLOOR NO. 2 WIRE (UNDER THE PASSENGER'S SEAT)

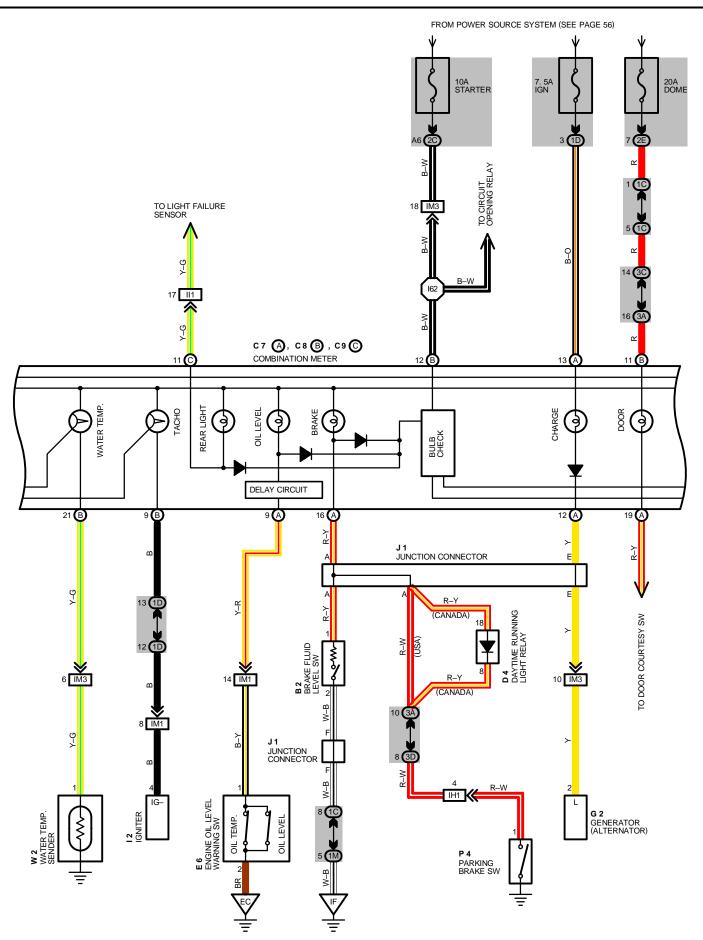
: GROUND POINTS

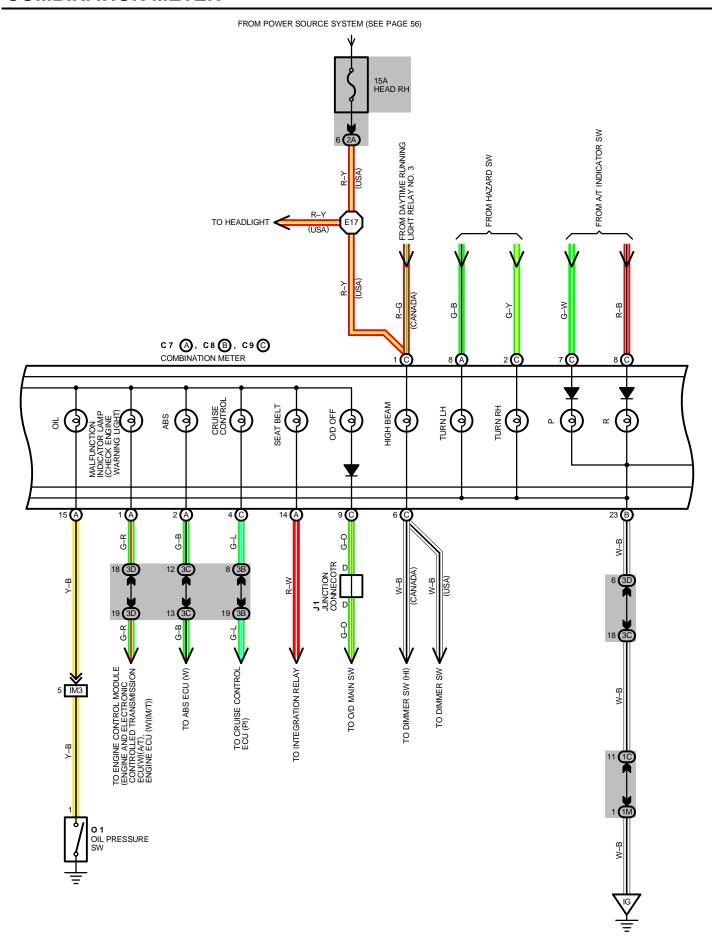
CODE	SEE PAGE	GROUND POINTS LOCATION
IH	36	INSTRUMENT PANEL BRACE RH

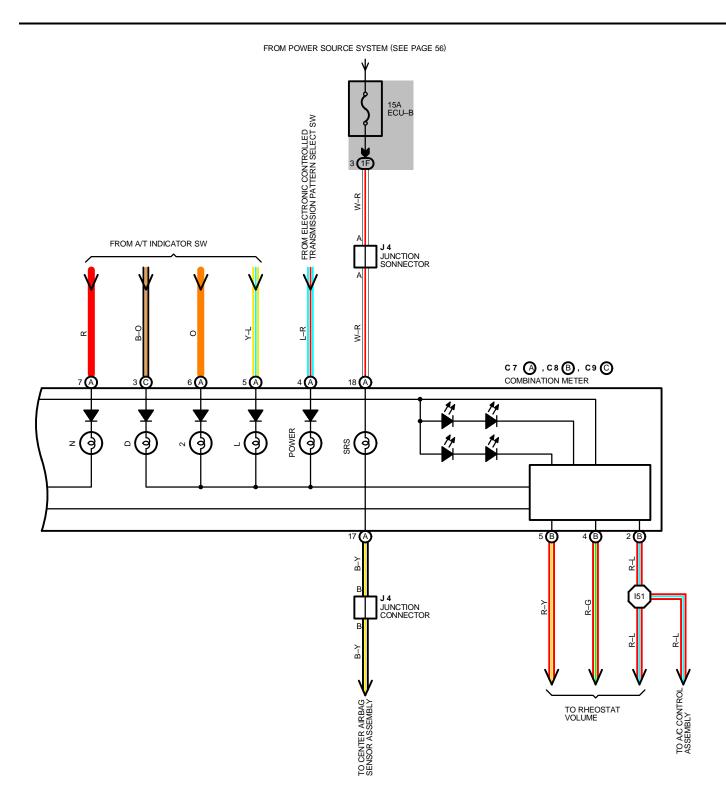
Ī	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
	173	38	INSTRUMENT PANEL WIRE	176	38	INSTRUMENT PANEL WIRE
Ī	l 75	30	INOTIONEINT I AINEE WIILE			











COMBINATION METER

SERVICE HINTS

B2 BRAKE FLUID LEVEL SW

1-2: CLOSED WITH FLOAT DOWN

P 4 PARKING BRAKE SW

1-GROUND: CLOSED WITH PARKING BRAKE LEVER PULLED UP

01 OIL PRESSURE SW

1-GROUND: CLOSED WITH OIL PRESSURE BELOW APPROX. 0.2 KG/CM2 (2.8 PSI, 20 KPA)

W 2 WATER TEMP. SENDER

1-GROUND: APPROX. **226** (**50°**C, **122°**F) APPROX. **25** (**115°**C, **239°**F)

E 6 ENGINE OIL LEVEL WARNING SW

1–2 : CLOSED WITH FLOAT UP AND ENGINE OIL TEMP. AT BELOW APPROX. 55°C (131°F)
OPEN WITH FLOAT DOWN AND ENGINE OIL TEMP. AT BELOW APPROX. 60°C (140°F)

F15 FUEL SENDER

2–3: APPROX. 3 AT FUEL FULL APPROX. 110 AT FUEL EMPTY

C 8(B), C 9(C) COMBINATION METER

(B) 1-GROUND : APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

(B)10-GROUND: ALWAYS CONTINUITY
(B)22-GROUND: ALWAYS CONTINUITY
(B)11-GROUND: ALWAYS APPROX. 12 VOLTS

: PARTS LOCATION

CO	DE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
В	2	28	F15	32	P 4	31
C 7	Α	30	G 2	28	S8 B	31
C 8	В	30	12	29	S 9 A	31
C 9	С	30	J1	31	T 5	31
D	4	30	J 4	31	V 3	29
E 6		28	01	29	W 2	29

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1C		
1D	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1F		
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
2A	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2C	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2E	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
3A		
3B	24	COMUNIDE AND UD NO 2 (DELIIND COMPINIATION METER)
3C	- 24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)
3D		

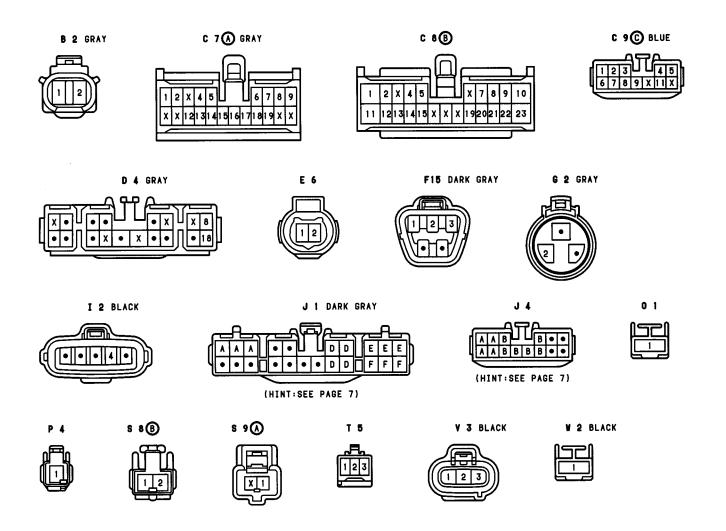
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IH1	36	COWL WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
II1	36	FLOOR NO.1 WIRE AND COWL WIRE (LEFT KICK PANEL)
IJ1	IJ1 36 INSTRUMENT PANEL NO. 2 WIRE AND COWL WIRE (UNDER THE COMBINATION METER)	
IM1	20	ENCINE WIRE AND COMUNICE (UNDER THE CLOVE DOV)
IM3	M3 SNGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)	
BW1	40	FUEL GAUGE WIRE AND FLOOR NO. 1 WIRE (UNDER THE REAR SEAT CUSHION)

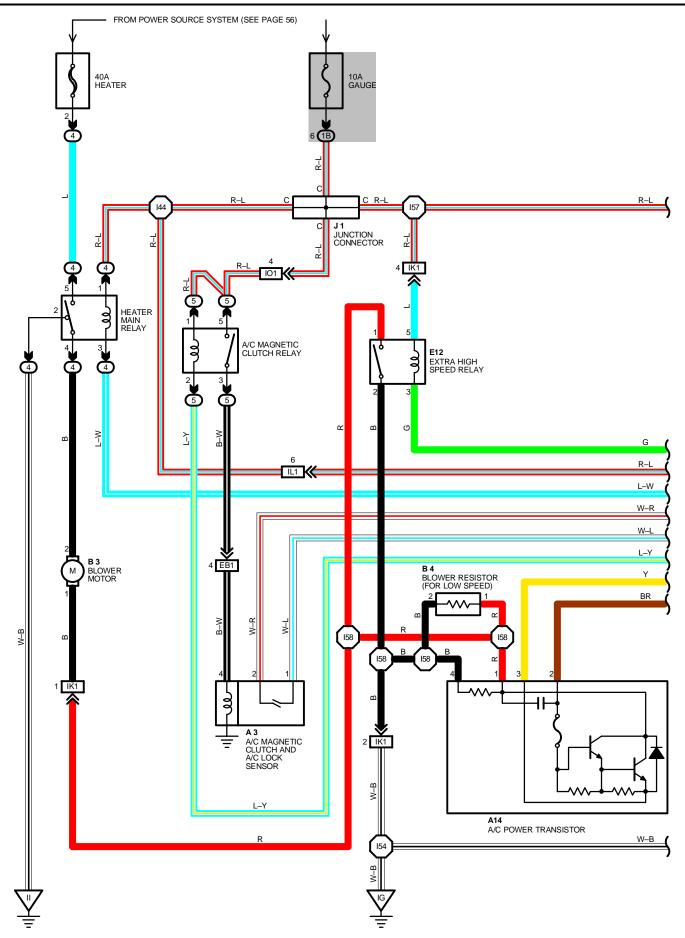
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EC	34	INTAKE MANIFOLD RH
ED	34	INTAKE MANIFOLD LH
IF	36	LEFT KICK PANEL
IG	36	INSTRUMENT PANEL BRACE LH

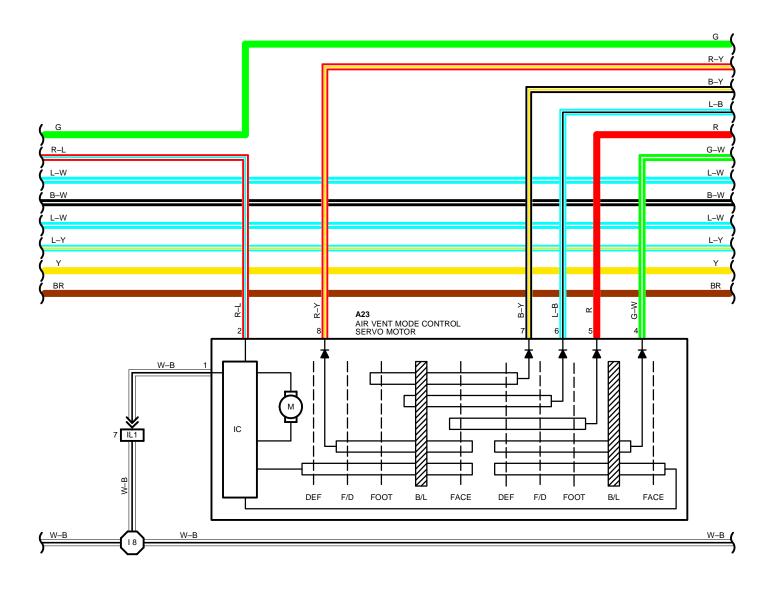
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 17	34	ENGINE ROOM MAIN WIRE	I 51		
I 37			I 62	38	COWL WIRE
I 38	38	COWL WIRE	I 67		
I 43					

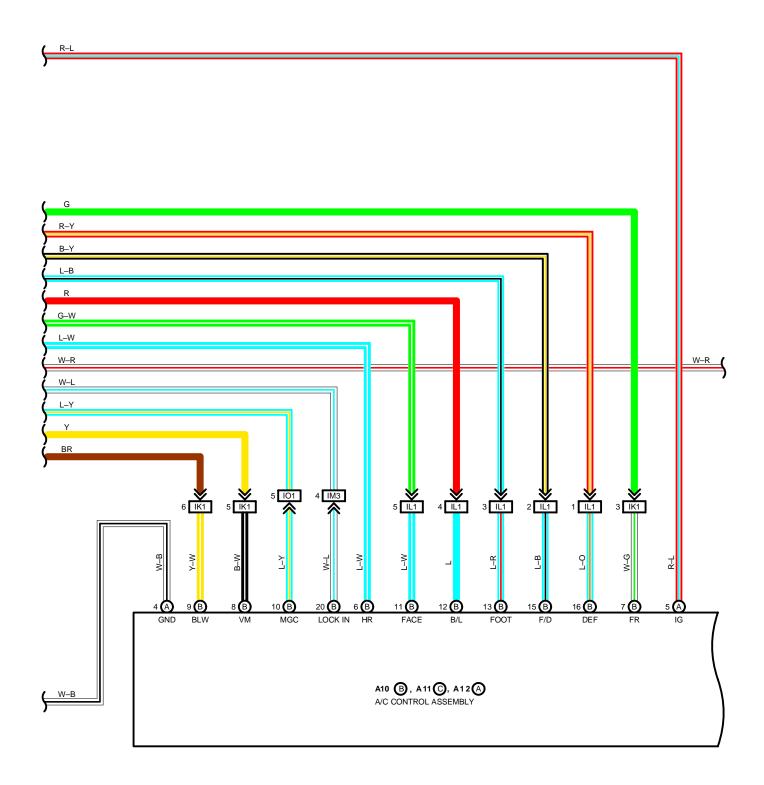


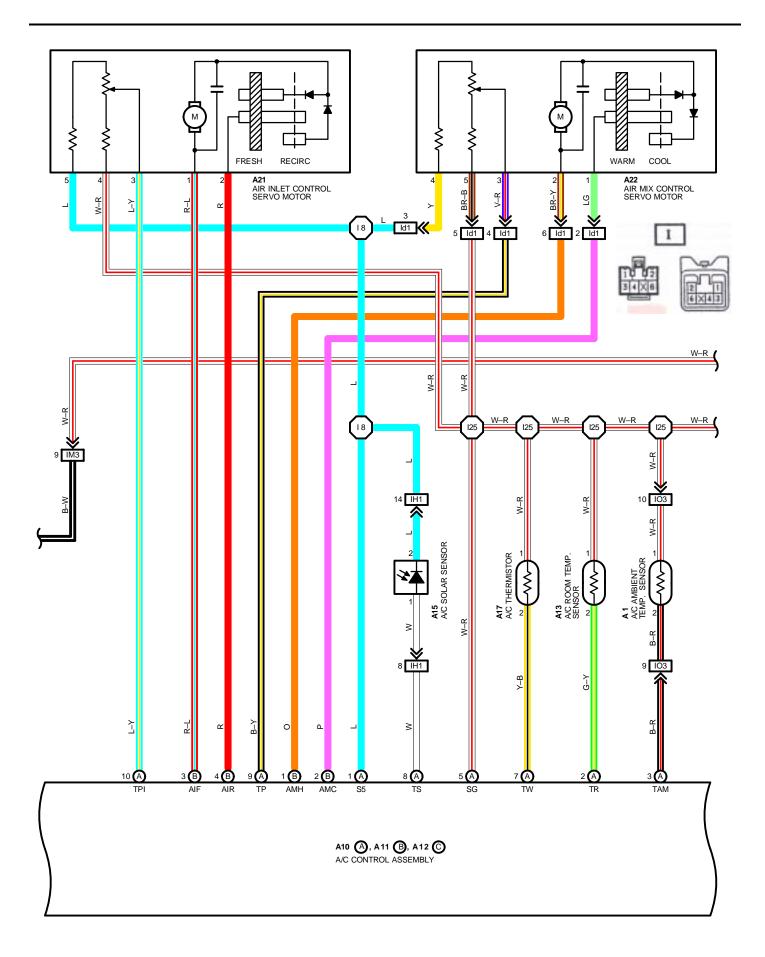
AUTOMATIC AIR CONDITIONING

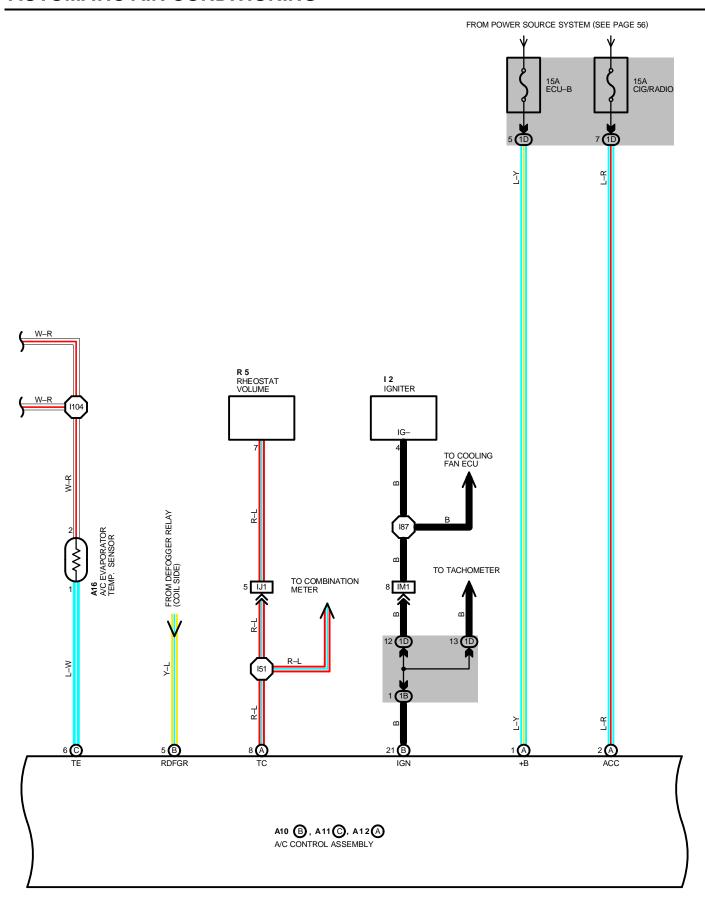


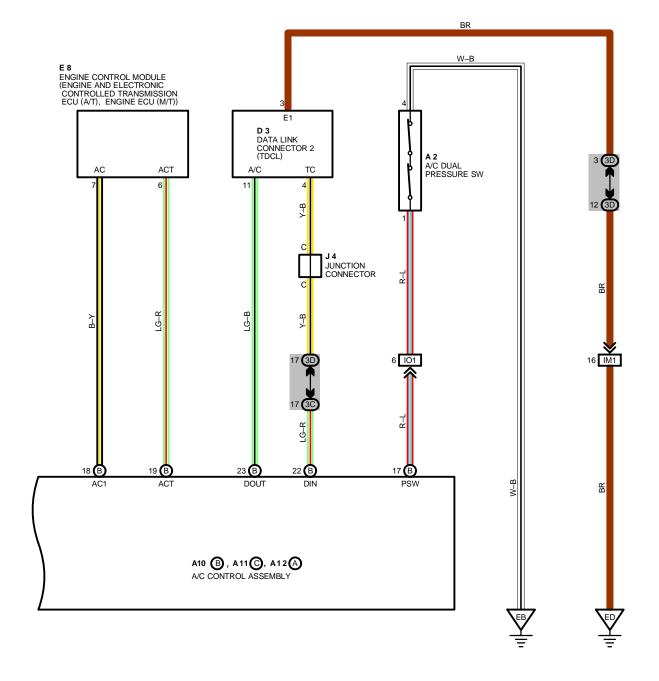












AUTOMATIC AIR CONDITIONING

SYSTEM OUTLINE

1. HEATER BLOWER MOTOR OPERATION

CURRENT IS APPLIED AT ALL TIMES THROUGH HEATER FUSE TO TERMINAL 5 OF HEATER RELAY. WHEN THE IGNITION SW IS TURNED ON, CURRENT FLOWS THROUGH GAUGE FUSE TO TERMINAL 1 OF HEATER RELAY \rightarrow TERMINAL 3 \rightarrow TERMINAL HR OF A/C CONTROL ASSEMBLY. AT THE SAME TIME, CURRENT ALSO FLOWS FROM GAUGE FUSE TO TERMINAL IG OF A/C CONTROL ASSEMBLY AND TERMINAL 1 OF EXTRA HIGH SPEED RELAY \rightarrow TERMINAL 3 \rightarrow TERMINAL FR OF A/C CONTROL ASSEMBLY.

* LOW SPEED OPERATION

WHEN THE BLOWER SW (A/C CONTROL ASSEMBLY) IS MOVED TO LOW SPEED POSITION, THE CURRENT TO TERMINAL HR OF A/C CONTROL ASSEMBLY FLOWS TO TERMINAL GND OF A/C CONTROL ASSEMBLY \rightarrow GROUND AND TURNS THE HEATER RELAY ON. AS A RESULT, THE CURRENT TO TERMINAL 5 OF HEATER RELAY FLOWS TO TERMINAL 4 OF RELAY \rightarrow TERMINAL 2 OF BLOWER MOTOR \rightarrow TERMINAL 1 \rightarrow TERMINAL 1 OF POWER TRANSISTOR \rightarrow TERMINAL 4 \rightarrow GROUND AND CAUSES THE BLOWER MOTOR TO ROTATE AT LOW SPEED.

* HIGH SPEED OPERATION

WHEN THE BLOWER SW (A/C CONTROL ASSEMBLY) IS MOVED TO **HIGH SPEED** POSITION, THE CURRENT TO **TERMINAL HR** OF A/C CONTROL ASSEMBLY FLOWS TO **TERMINAL GND** OF A/C CONTROL ASSEMBLY \rightarrow **GROUND** AND TURNS THE HEATER RELAY ON. AT THE SAME TIME, THE CURRENT TO **TERMINAL 1** OF EXTRA HIGH SPEED RELAY ALSO TO **TERMINAL 3** OF RELAY **TERMINAL FR** OF A/C CONTROL ASSEMBLY \rightarrow **TERMINAL GND** \rightarrow **GROUND** AND TURNS THE EXTRA HIGH SPEED RELAY ON. AS A RESULT, THE CURRENT TO **TERMINAL 5** OF HEATER RELAY FLOWS TO **TERMINAL 4** \rightarrow **TERMINAL 2** OF BLOWER MOTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 2** OF EXTRA HIGH SPEED RELAY \rightarrow **TERMINAL 4** \rightarrow **GROUND** WITHOUT PASSING THROUGH THE BLOWER RESISTOR, CAUSING THE BLOWER MOTOR TO ROTATE AT HIGH SPEED.

* MEDIUM SPEED OPERATION

WHEN THE BLOWER SW (A/C CONTROL ASSEMBLY) IS MOVED TO **MED** POSITION, THE CURRENT TO **TERMINAL HR** OF A/C CONTROL ASSEMBLY FLOWS TO **TERMINAL GND** \rightarrow **GROUND** AND TURNS THE HEATER RELAY ON. THEN, THE CURRENT TO **TERMINAL IG** OF A/C CONTROL ASSEMBLY FLOWS TO **TERMINAL BLW** \rightarrow **TERMINAL 2** OF POWER TRANSISTOR \rightarrow **TERMINAL 1** \rightarrow **GROUND**.

AS A RESULT, THE CURRENT TO **TERMINAL 5** OF HEATER RELAY FLOWS TO **TERMINAL 4** \rightarrow **TERMINAL 2** OF BLOWER MOTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 1** OF POWER TRANSISTOR \rightarrow **TERMINAL 4** \rightarrow **GROUND** AND BLOWER MOTOR IS ROTATED AT MEDIUM SPEED BY THE A/C CONTROL ASSEMBLY CONTROLLING THE CURRENT FLOW FROM **TERMINAL 2** OF POWER TRANSISTOR TO **TERMINAL 4**.

* AUTO FUNCTION

WHEN THE AUTO SW IN HEATER CONTROL SW (A/C CONTROL ASSEMBLY) IS SELECTED, THE CURRENT FLOW IS THE SAME FOR MED POSITION, BUT THE A/C CONTROL ASSEMBLY DECIDES THE APPROPRIATE AIR FLOW VOLUME ACCORDING TO THE SET TEMPERATURE AND THE INPUT SIGNALS FROM EACH SENSOR. BY CONTROLLING THE CURRENT FLOW FROM **TERMINAL BLW** OF THE A/C CONTROL ASSEMBLY TO **TERMINAL 2** OF POWER TRANSISTOR \rightarrow **TERMINAL 4** \rightarrow **GROUND**, THE A/C CONTROL ASSEMBLY CONTROL S THE BLOWER MOTOR STEPLESSLY.

2. OPERATION AIR INLET CONTROL SERVO MOTOR

(SWITCHING FROM FRESH TO RECIRC)

WITH IGNITION SW TURNED ON, THE CURRENT FLOWS FROM **GAUGE** FUSE TO **TERMINAL IG** OF A/C CONTROL ASSEMBLY \rightarrow **TERMINAL AIR** \rightarrow **TERMINAL 2** OF AIR INLET CONTROL SERVO MOTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL AIF** OF A/C CONTROL ASSEMBLY \rightarrow **TERMINAL GND** \rightarrow **GROUND,** THE MOTOR ROTATES AND THE DAMPER MOVES TO THE **RECIRC** SIDE. WHEN THE DAMPER OPERATES WITH THE A/C SW AT **RECIRC** POSITION, THE DAMPER POSITION SIGNAL IS INPUT FROM **TERMINAL 3** OF THE SERVO MOTOR TO **TERMINAL TPI** OF THE ECU (BUILT INTO THE A/C CONTROL ASSEMBLY). AS A RESULT, CURRENT TO THE SERVO MOTOR CIRCUIT IS CUT OFF BY THE ECU, SO THE DAMPER STOPS AT THAT POSITION.

(SWITCHING FROM RECIRC TO FRESH)

WITH IGNITION SW TURNED ON, WHEN THE RECIRC/FRESH SW IS SWITCHED TO THE FRESH SIDE, THE CURRENT FLOWS FROM TERMINAL IG OF A/C CONTROL ASSEMBLY \rightarrow TERMINAL AIF \rightarrow TERMINAL 1 OF AIR INLET CONTROL SERVO MOTOR \rightarrow TERMINAL 2 \rightarrow TERMINAL AIR OF A/C CONTROL ASSEMBLY \rightarrow TERMINAL GND \rightarrow GROUND, THE MOTOR ROTATES AND THE DAMPER STOPS AT THAT POSITION.

3. OPERATION OF AIR VENT MODE CONTROL SERVO MOTOR

WITH IGNITION SW TURNED ON, THE CURRENT FLOWS FROM GAUGE FUSE TO TERMINAL IG OF A/C CONTROL ASSEMBLY.

(SWITCHING FROM DEF TO FACE)

THE CURRENT FLOWS FROM **TERMINAL FACE** OF A/C CONTROL ASSEMBLY \rightarrow **TERMINAL 5** OF AIR VENT MODE CONTROL SERVO MOTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL DEF** OF A/C CONTROL ASSEMBLY \rightarrow **TERMINAL GND** \rightarrow **GROUND.** THE MOTOR ROTATES AND THE DAMPER MOVES TO THE FACE SIDE. WHEN THE DAMPER OPERATES WITH THE A/C SW AT **FACE** POSITION, THE DAMPER POSITION SIGNAL IS INPUT FROM **TERMINAL 1** OF THE SERVO MOTOR TO THE **TERMINAL TPM** OF THE ECU (BUILT INTO THE A/C CONTROL ASEMBLY). AS A RESULT, CURRENT TO THE SERVO MOTOR CIRCUIT IS CUT OFF BY THE ECU, SO THE DAMPER STOPS AT THAT POSITION.

(SWITCHING FROM FACE TO DEF)

THE CURRENT FLOWS FROM TERMINAL DEF OF A/C CONTROL ASSEMBLY \rightarrow TERMINAL 1 OF AIR VENT CONTROL SERVO MOTOR \rightarrow TERMINAL 5 \rightarrow TERMINAL FACE OF A/C CONTROL ASSEMBLY \rightarrow TERMINAL GND \rightarrow GROUND, THE MOTOR ROTATES AND THE DAMPER STOPS AT THAT POSITION.

4. OPERATION OF AIR MIX CONTROL SERVO MOTOR

WHEN THE TEMPERATURE SW IS TURNED TO "COOL" SIDE THE CURRENT FLOWS FROM **TERMINAL AMC** OF A/C CONTROL ASSEMBLY \rightarrow **TERMINAL 2** OF AIR MIX CONTROL SERVO MOTOR \rightarrow MOTOR \rightarrow **TERMINAL 6** \rightarrow **TERMINAL AMH** OF A/C CONTROL ASSEMBLY \rightarrow **GROUND** AND THE MOTOR ROTATES. THE DAMPER OPENING ANGLE AT THIS TIME IS INPUT FROM **TERMINAL 4** OF SERVO MOTOR TO **TERMINAL TP** OF A/C CONTROL ASSEMBLY, THIS IS USED TO DETERMINE THE **DAMPER STOP** POSITION AND MAINTAIN THE SET TEMPERATURE.

WHEN THE TEMPERATURE CONTROL SW IS TURNED TO THE "HOT" SIDE, THE CURRENT FLOWS FROM SERVO MOTOR \rightarrow **TERMINAL AMH** OF A/C CONTROL ASSEMBLY \rightarrow **TERMINAL 6** OF A/R MIX CONTROL SERVO MOTOR \rightarrow MOTOR \rightarrow **TERMINAL 2** \rightarrow **TERMINAL AMC** OF A/C CONTROL ASSEMBLY, ROTATING THE MOTOR IN REVERSE AND SWITCHING THE DAMPER FROM "COOL" TO "HOT" SIDE.

5. AIR CONDITIONING OPERATION

THE A/C CONTROL ASSEMBLY RECEIVES VARIOUS SIGNALS, I.E., THE ENGINE RPM FROM THE IGNITER, OUTLET TEMPERATURE SIGNAL FROM THE A/C AMBIENT TEMP. SENSOR, COOLANT TEMPERATURE FROM THE A/C THERMISTOR AND THE LOCK SIGNAL FROM THE A/C COMPRESSOR, ETC.

WHEN THE ENGINE IS STARTED AND THE A/C SW (A/C CONTROL ASSEMBLY) IS ON, A SIGNAL IS INPUT TO THE ECU. (BUILT IN THE A/C CONTROL ASSEMBLY).

AS A RESULT, THE GROUND CIRCUIT IN A/C CONTROL ASSEMBLY IS CLOSED AND CURRENT FLOWS FROM **GAUGE** FUSE TO **TERMINAL 1** OF A/C MAGNETIC CLUTCH RELAY \rightarrow **TERMINAL 2** \rightarrow **TERMINAL MGC** OF A/C CONTROL ASSEMBLY \rightarrow **TERMINAL GND** \rightarrow **GROUND**, TURNING THE A/C MAGNETIC RELAY ON, SO THAT THE MAGNETIC CLUTCH IS ON AND THE A/C COMPRESSOR OPERATES.

AT THE SAME TIME, THE ENGINE CONTROL MODULE (ENGINE AND ELECTRONIC CONTROLLED TRANSMISSION). DETECTS THE MAGNETIC CLUTCH IS ON AND THE A/C COMPRESSOR OPERATES.

OPEN DIRECTION TO AVOID LOWERING THE ENGINE RPM DURING A/C OPERATING.

IF THE A/C CONTROL ASSEMBLY DETECTS THE FOLLOWING CONDITIONS, IT STOPS THE AIR CONDITIONING:

- * THE TEMPERATURE AT THE AIR VENTS IS LOW.
- * THERE IS A MARKED DIFFERENCE BETWEEN THE COMPRESSOR SPEED AND THE ENGINE SPEED.
- * THE REFRIGERANT PRESSURE IS ABNORMALLY HIGH OR ABNORMALLY LOW.
- * THE ENGINE SPEED DECREASES.
- * RAPID ACCELERATION OCCURS.

AUTOMATIC AIR CONDITIONING

SERVICE HINTS

A 2 A/C DUAL PRESSURE SW

4-1: OPEN ABOVE APPROX. 15.5KG/CM2 (30 PSI, 206 KPA) OR 27KG/CM2 (384PSI, 2648KPA)

A 3 A/C MAGNETIC CLUTCH

4-GROUND: APPROX. 3.7

A10(B), A11(C), A12(A) A/C CONTROL ASSEMBLY

+B - GROUND: ALWAYS APPROX. 10-14 VOLTS

IG - GROUND: APPROX. 10-14 VOLTS WITH IGNITION SW AT ON POSITION

HR - GROUND: APPROX. 10-14 VOLTS WITH IGNITION SW AT ON POSITION AND DO NOT TURN THE BLOWER MOTOR

BELOW 1 VOLTS WITH IGNITION SW AT ON POSITION AND TURN THE BLOWER MOTOR

PSW - BELOW 1 VOLTS WITH IGNITION SW AT ON

ACC – GROUND: APPROX. 10–14 VOLTS WITH IGNITION SW AT ACC OR ON POSITION AC1 – GROUND: BELOW 1 VOLTS AT START THE ENGINE, OPERATE THE COMPRESSOR

+OR MORE VOLTS AT START THE ENGINE, DO NOT OPERATE THE COMPRESSOR

BLW – GROUND: BELOW 1.5 VOLTS WITH THE IGNITION SW ON AND TURN THE BLOWER MOTOR

S5 – SG : 4–6 VOLTS WITH THE IGNITION SW ON

SG - GROUND: ALWAYS CONTINUITY

AMH – AMC : 13–19 VOLTS WITH THE IGNITION SW OFF AIF – GROUND: APPROX. 12 VOLTS WITH FRESH SW ON AIR – GROUND: APPROX. 12 VOLTS WITH RECIRC SW ON FACE – GROUND: APPROX. 12 VOLTS WITH FACE SW ON DEF – GROUND: APPROX. 12 VOLTS WITH DEF SW ON

GND - GROUND: ALWAYS CONTINUITY

A14 A/C POWER TRANSISTOR 1–2: APPROX. 2.0–2.4K

: PARTS LOCATION

CO	DE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
A 1		28	A15	30	D 3	30
A 2		28	A16	30	E 8	30
Α	3	28	A17	30	E12	30
A10	В	30	A21	30	12	29
A11	С	30	A22	30	J 1	31
A12	Α	30	A23	30	J 4	31
A ²	13	30	В3	30	R 5	31
A′	14	30	B 4	30		

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
4	25	R/B NO. 4 (RIGHT KICK PANEL)
5	26	R/B NO. 5 (ENGINE COMPARTMENT LEFT)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)		
1B	00	COMUNIDE AND UD NO 4 (INICEDIMENT DANIEL LEET)		
1D	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)		
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)		
3D	24			

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)		
EB1	34	ENGINE WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)		
IH1	36	COWL WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)		
IJ1	36	INSTRUMENT PANEL NO. 2 WIRE AND COWL WIRE (UNDER THE COMBINATION METER)		
IK1	IK1 36 COWL WIRE AND A/C SUB WIRE (NEAR THE RADIO AND PLAYER)			
IL1	36	COWL WIRE AND SERVO MOTOR SUB WIRE (BEHIND RADIO AND PLAYER)		
IM1		ENONE MIDE AND COME MIDE (INDED THE CLOVE DOV)		
IM3	38	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)		
IO1	38	ENCINE DOOM MAIN WIDE AND COMI. WIDE (DICHT VICK DANIEL)		
103	- 30	ENGINE ROOM MAIN WIRE AND COWL WIRE (RIGHT KICK PANEL)		

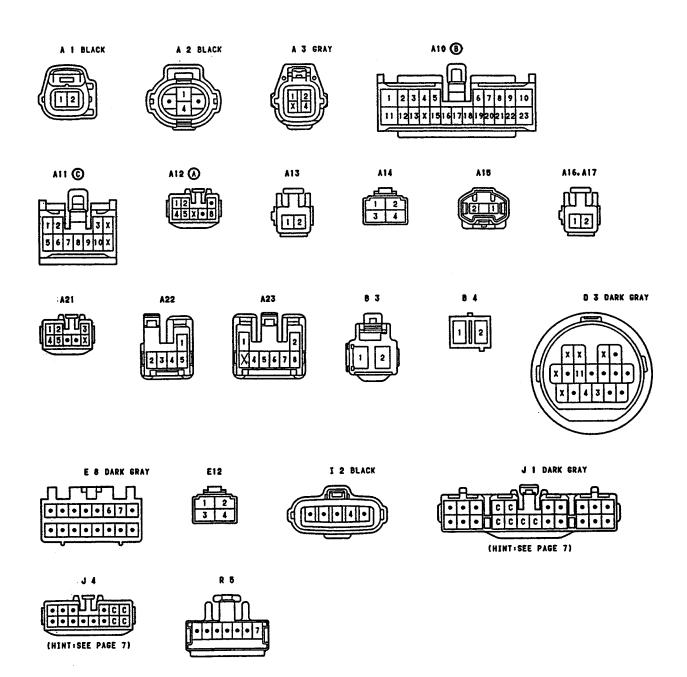
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: GROUND POINTS

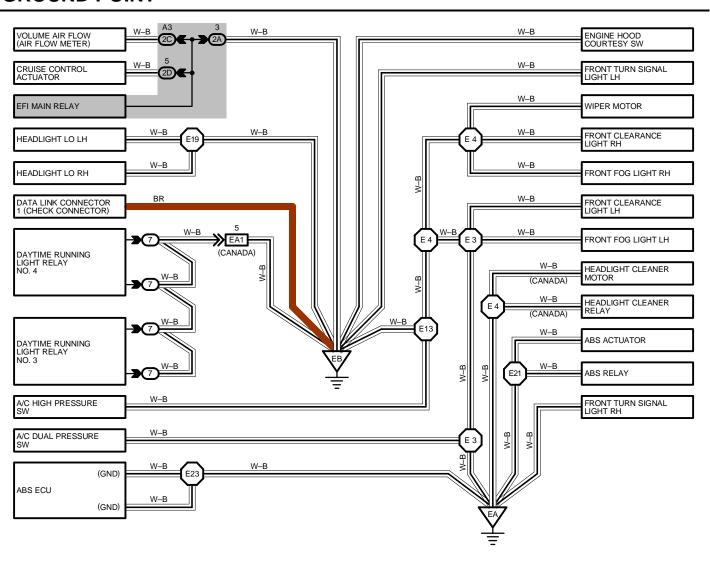
CODE	SEE PAGE	GROUND POINTS LOCATION
EB	34	FRONT LEFT FENDER
ED	34	INTAKE MANIFOLD LH
IG	36	INSTRUMENT PANEL BRACE LH
II	36	RIGHT KICK PANEL

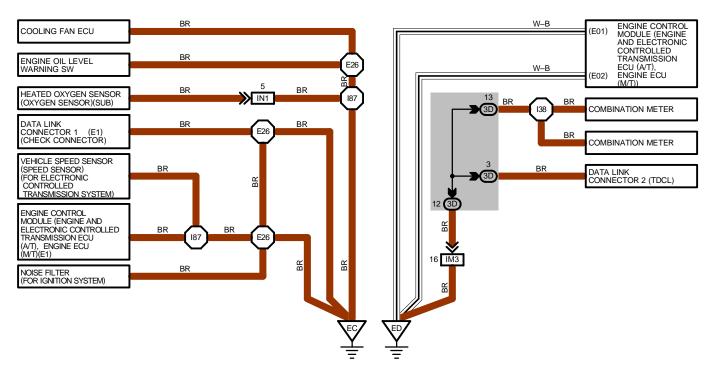


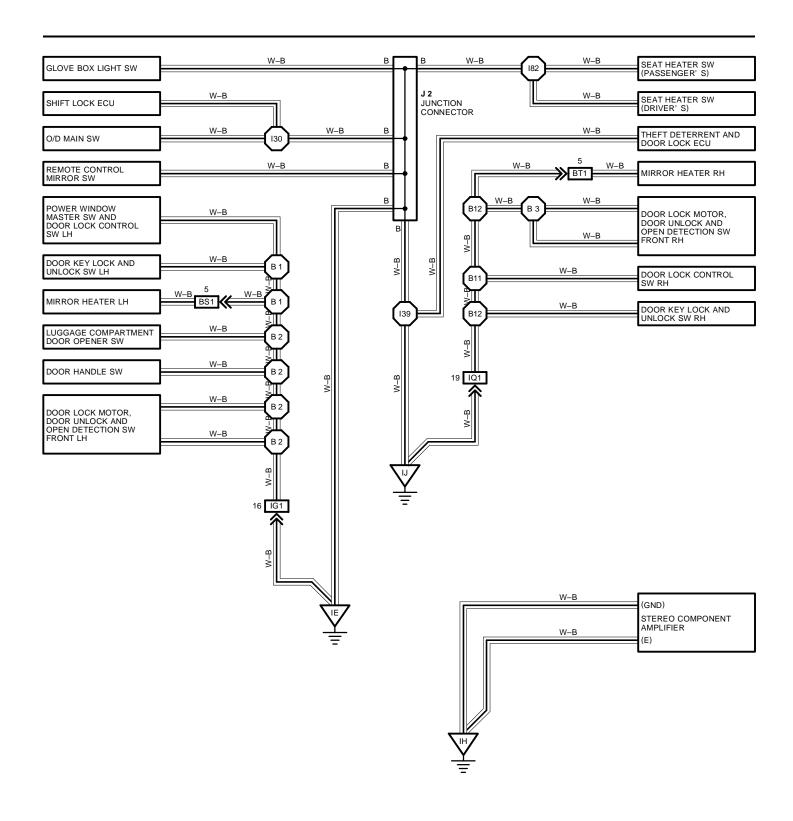
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
CODE	SELTAGE	WIRL HARRIEGO WITH OF LIGHT OINTO	CODL	SELTAGE	WINE HARNESS WITH SI EIGE I OINTS
I 44			I 57	38	COWL WIRE
I 51			I 58	38	A/C SUB WIRE
I 53	38	COWL WIRE	I 87	38	ENGINE WIRE
I 54			I104	38	COWL WIRE
I 55					



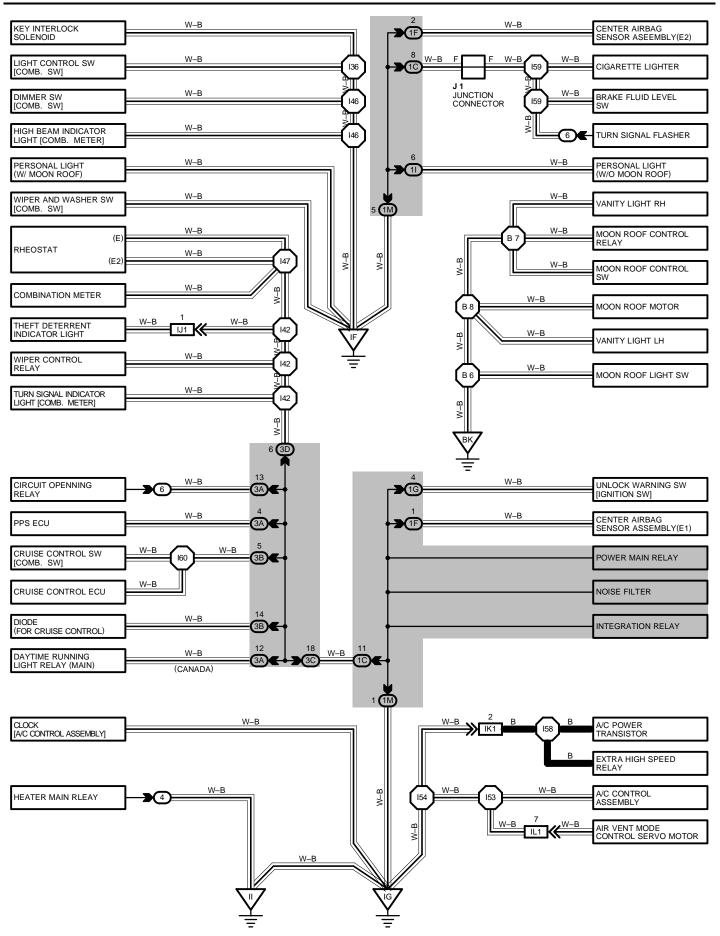
GROUND POINT

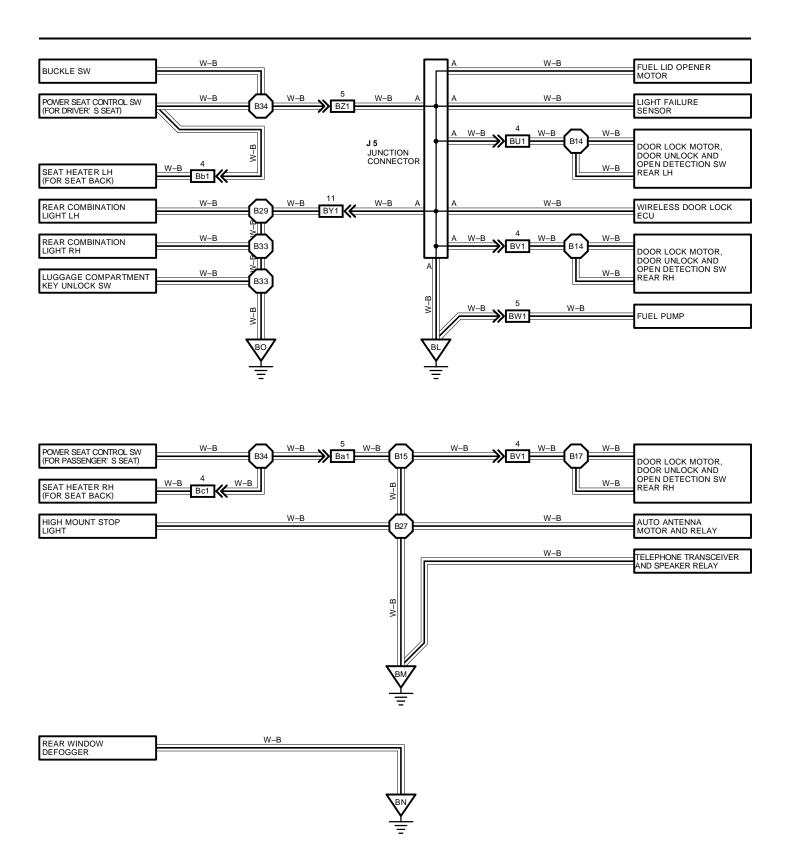






GROUND POINT





GROUND POINT

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
J 1	31	J 2	31	J 5	32

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
4	25	R/B NO. 4 (RIGHT KICK PANEL)
6	26	R/B NO. 6 (BEHIND GLOVE BOX)
7	27	R/B NO. 7 (NEAR THE BATTERY)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)				
1C						
1F	20 COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)					
1G						
11	20	ROOF WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)				
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)				
2A	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)				
2C	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)				
2D	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (BEHIND COMBINATION METER)				
3A						
3B	24	COMI WIDE AND JO NO. 2 (PELIND COMPINATION METER)				
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)				
3D						

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

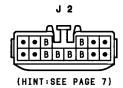
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EA1	34	ENGINE ROOM MAIN WIRE AND RELAY WIRE (UNDER THE R/B NO.7)
IG1	36	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IJ1	36	INSTRUMENT PANEL NO. 2 WIRE AND COWL WIRE (UNDER THE COMBINATION METER)
IK1	36	COWL WIRE AND A/C SUB WIRE (NEAR THE RADIO AND PLAYER)
IL1	36	COWL WIRE AND SERVO MOTOR SUB WIRE (BEHIND RADIO AND PLAYER)
IM3	38	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)
IN1	38	ENGINE WIRE AND INSTRUMENT PANEL WIRE (UNDER THE GLOVE BOX)
IQ1	38	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
BS1	40	MIRROR LH WIRE AND FRONT DOOR LH WIRE (FRONT LH DOOR INSIDE)
BT1	40	MIRROR RH WIRE AND FRONT DOOR RH WIRE (FRONT RH DOOR INSIDE)
BU1	40	REAR DOOR LH WIRE AND FLOOR NO.1 WIRE (LEFT CENTER PILLAR)
BV1	40	REAR DOOR RH WIRE AND FLOOR NO.2 WIRE (RIGHT CENTER PILLAR)
BW1	40	FUEL GAUGE WIRE FLOOR NO. 1 WIRE (UNDER THE REAR SEAT CUSHION)
BY1	40	LUGGAGE ROOM WIRE AND FLOOR NO. 1 WIRE (LUGGAGE ROOM LEFT)
BZ1	42	FLOOR NO. 1 WIRE AND SEAT LH NO.1 WIRE (UNDER THE DRIVER'S SEAT)
Ba1	42	FLOOR NO. 2 WIRE AND SEAT RH NO.1 WIRE (UNDER THE PASSENGER'S SEAT)
Bb1	42	SEAT LH NO. 2 WIRE AND SEAT LH NO. 1 WIRE (UNDER THE DRIVER'S SEAT)
Bc1	42	SEAT RH NO.2 WIRE AND SEAT RH NO.1 WIRE (UNDER THE PASSENGER'S SEAT)

7 : GROUND POINTS

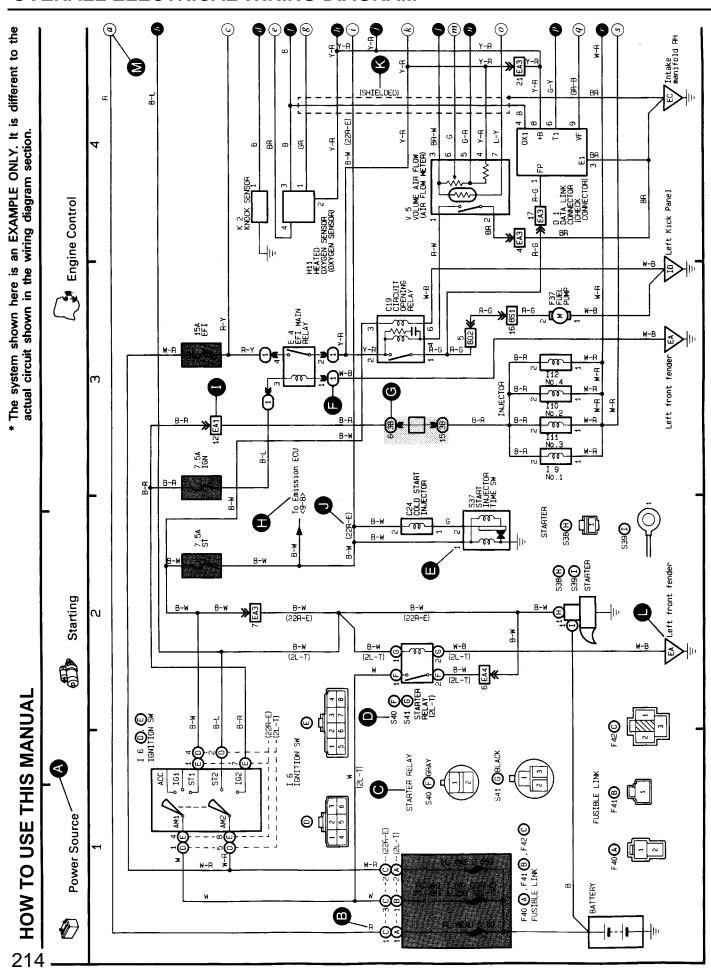
CODE	SEE PAGE	GROUND POINTS LOCATION					
EA	34	FRONT RIGHT FENDER					
EB	34	FRONT LEFT FENDER					
EC	34	INTAKE MANIFOLD RH					
ED	34	INTAKE MANIFOLD LH					
IE	00	LEFT WOW PANEL					
IF	36	LEFT KICK PANEL					
IG	36	INSTRUMENT PANEL BRACE LH					
IH	36	INSTRUMENT PANEL BRACE RH					
II	36	RIGHT KICK PANEL					
IJ	30	RIGHT NICK PAINEL					
BK	40	ROOF LEFT					
BL	40	UNDER THE LEFT QUARTER PILLAR					
ВМ	40	UNDER THE RIGHT QUARTER PILLAR					
BN	40	LEFT QUARTER PILLAR					
ВО	40	BACK PANEL CENTER					

CODE	SEE PAGE WIRE HARNESS WITH SPLICE POINTS CODE SEE PAG		SEE PAGE	WIRE HARNESS WITH SPLICE POINTS		
E 3	0.4	ENGINE ROOM MAIN WIRE	I 60	38	COWL WIRE	
E 4	34		I 82	38	INSTRUMENT PANEL WIRE	
E 10	34	RELAY WIRE	I 87	38	ENGINE WIRE	
E 13		ENGINE ROOM MAIN WIRE	B 1			
E 19	34		B 2	40	FRONT DOOR LH WIRE	
E 21			В 3			
E 23			В6		ROOF WIRE	
E 26	34	ENGINE WIRE	В7	40		
I 30	38	COWL WIRE	B 8			
I 36			B 11	40	FRONT DOOR RH WIRE	
I 38			B 12			
I 39			B 14	40	REAR DOOR LH WIRE	
I 42			B 15	40	FLOOR NO. 2 WIRE	
I 46			B 17	40	REAR DOOR RH WIRE	
I 47			B 27	40	FLOOR NO .2 WIRE	
I 53			B 29			
I 54			B 33	40	LUGGAGE ROOM WIRE	
I 58	38	A/C SUB WIRE	B 34	42	CEATLUNG A MUDE	
I 59	38	COWL WIRE			SEAT LH NO. 1 WIRE	







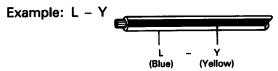


- A: System Title
- B: Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B = Black L = Blue R = Red BR = Brown LG = Light Green V = Violet G = Green O = Orange W = WhiteGR = Grav P = Pink Y = Yellow

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



- C: Indicates the connector to be connected to a part (the numeral indicates the pin No.)
- The position of the parts is the same as shown in the wiring diagram and wire routing.
- 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



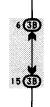


The numbering system for the overall wiring diagram is the same as above.

Indicates a Relay Block. No Shading is used and only the Relay Block No. is shown to distinguish it from the J/B.

G: Junction Block (The number in the circle is the J/B No. and connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts (different junction blocks are shaded differently for further clarification.).

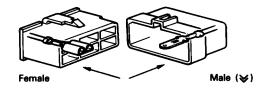
Example:



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

- (H): Indicates related system.
- Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (❤).

 Outside numerals are pin numbers.



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

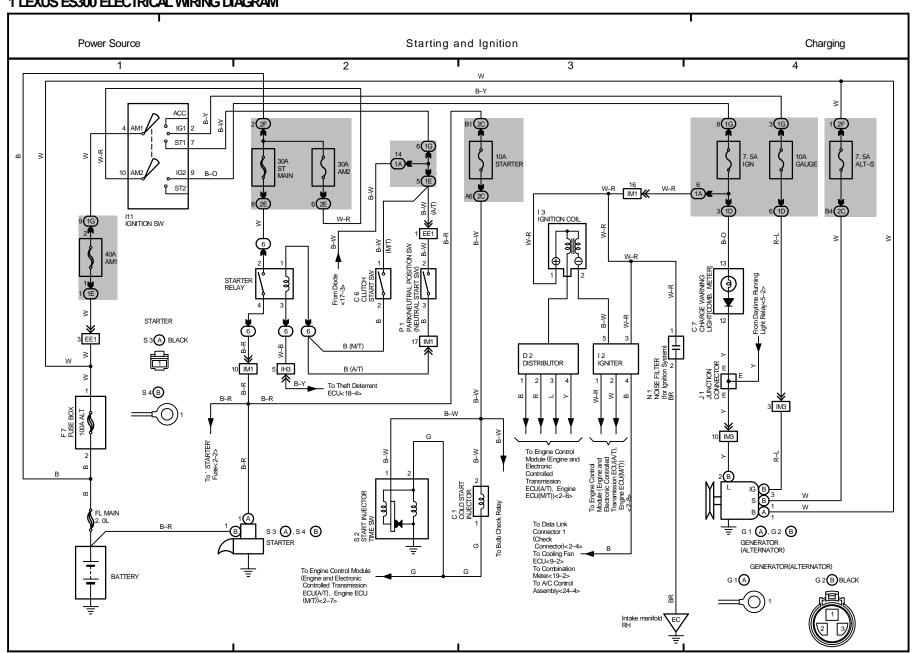


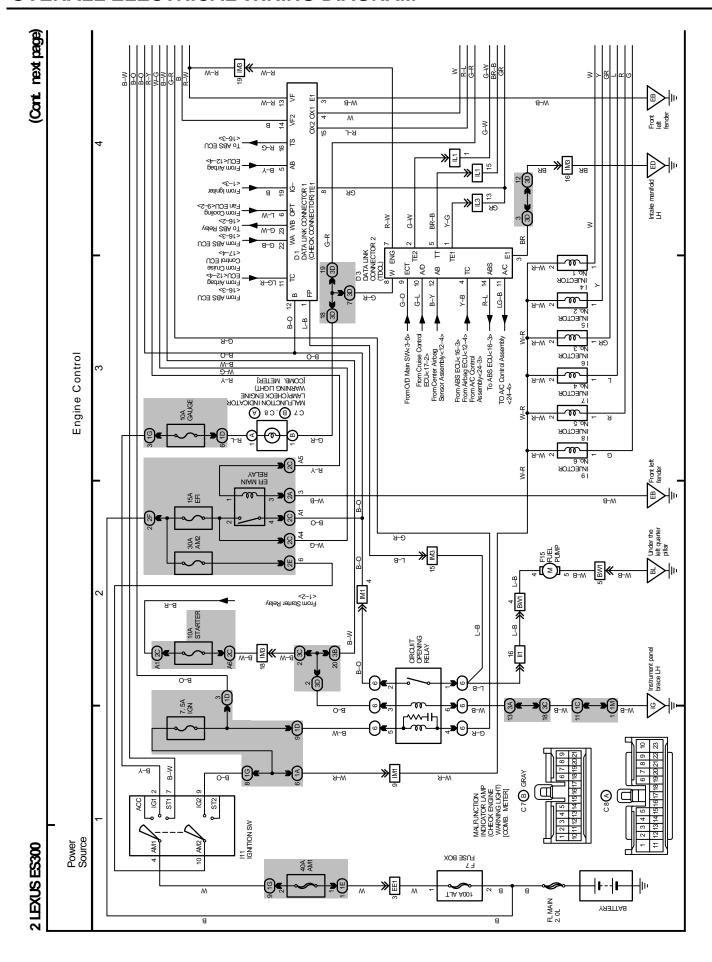
- Indicates and located on ground point.
- M: The same code occurring on the next page indicates that the wire harness is continuous.

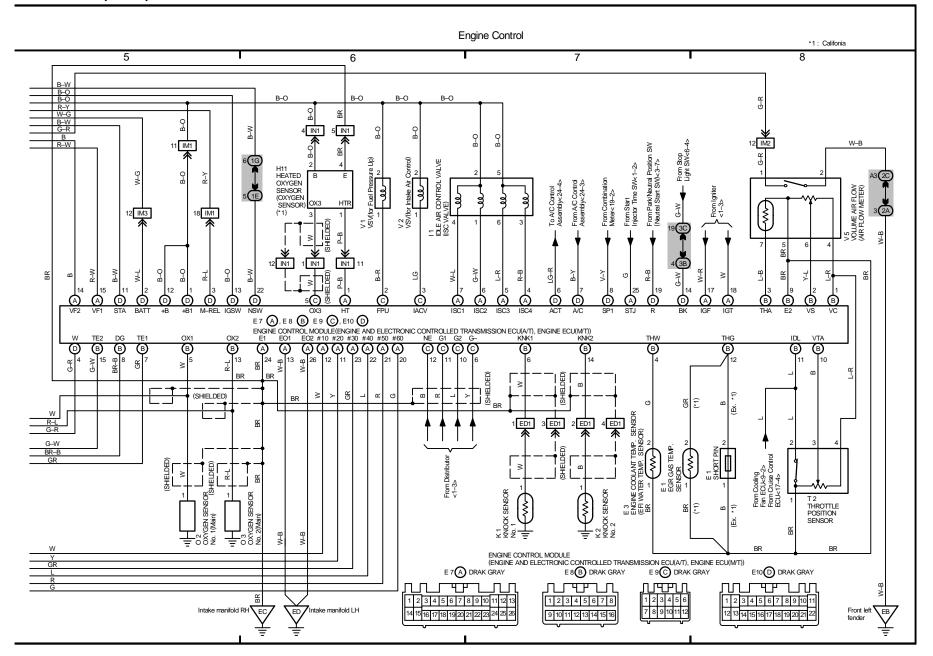
SYSTEMS	LOCATION	SYSTEMS	LOCATION	SYSTEMS	LOCATION
ABS (Anti–Lock Brake System)	16–2	Headlight (for USA)	4–2	Remote Window Defogger and Mirror Heater	10–4
Auto Antenna	15–2	Headlight Cleaner (for Canada)	5–2	Remote Control Mirror	15–3
Automatic Air Conditioning	24–2	Headlight Cleaner	10–2	Seat Heater	11–2
Back-Up Light	3–7	Horn	9–4	Shift Lock SRS (Supplemental	12–2
Cellular Mobile	20–3	Illumination	7–2	Restraint System)	12–3
Telephone Charging	1–4	Interior Light	8–2	Starting and Ignition	1–2
-	11–4	Light Auto Turn Off	20–2	Stop Light	6–4
Cigarette Lighter and Clock	11.4		40.0	Taillight	6–2
Combination Meter	19–2	Moon Roof	13–2	Theft Deterrent and Door Lock	18–2
Cruise Control	17–2	Power Seat	14–2	Turn Signal and Hazard Warning Light	9–3
Electronic Controlled Transmission and A/T Indicator	3–2	Power Source	1~24–1	Unlock and Seat Belt Warning	10–3
A Tillucator		Power Window	13–3	Wiper and Washer	23–2
Electronically Controlled Hydraulic Cooling Fan	9–2	PPS (Progressive Power Steering)	12–2	Wireless Door Lock Remote Control	18–8
Engine Control	2–2		21–2 (w/		
Front Fog Light	4–4	Radio and Player	CD Player) 22–2 (w/o CD Player		

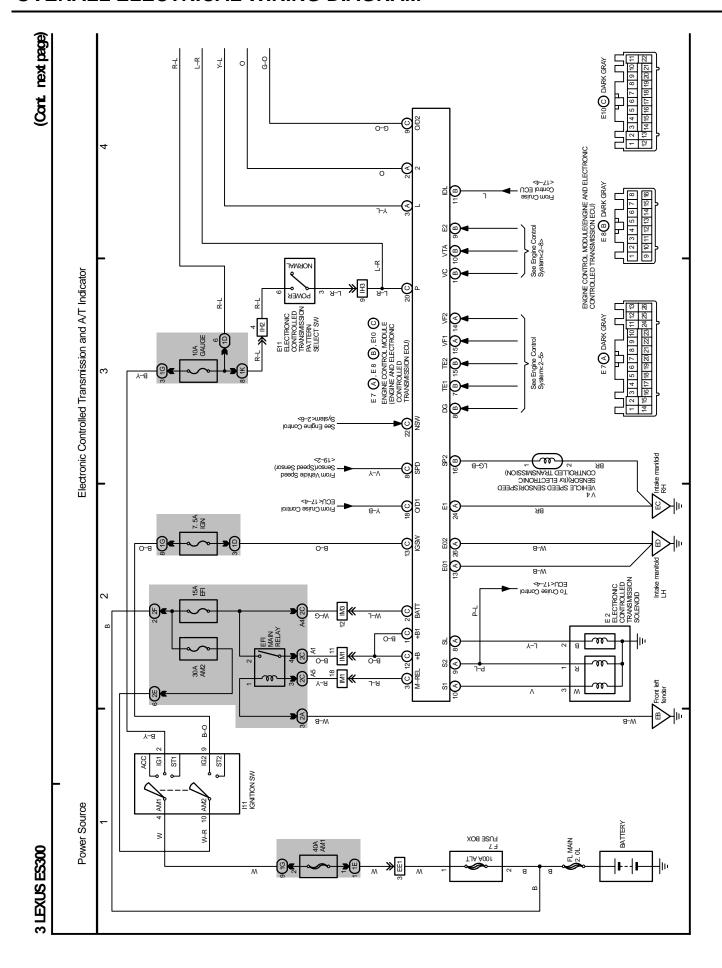
ELECTRICAL WIRING DIAGRAM

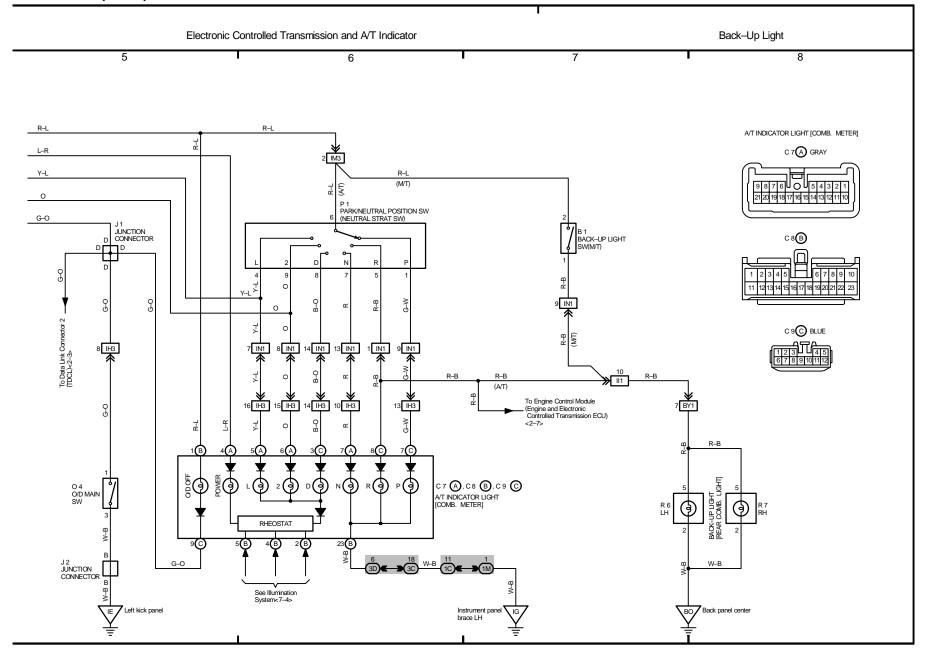
1 LEXUS ES300 ELECTRICAL WIRING DIAGRAM

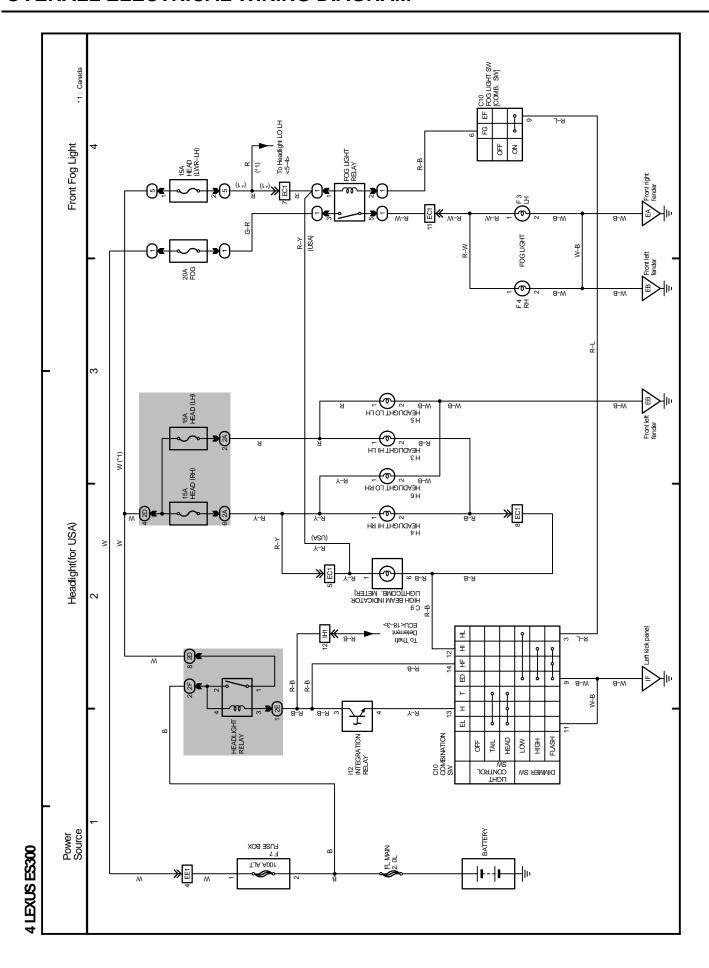


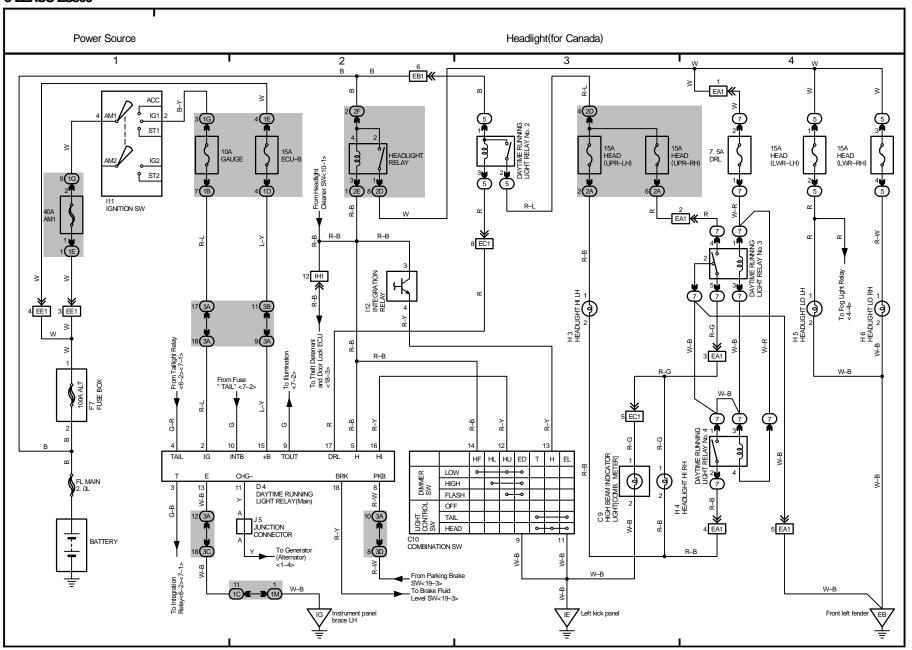


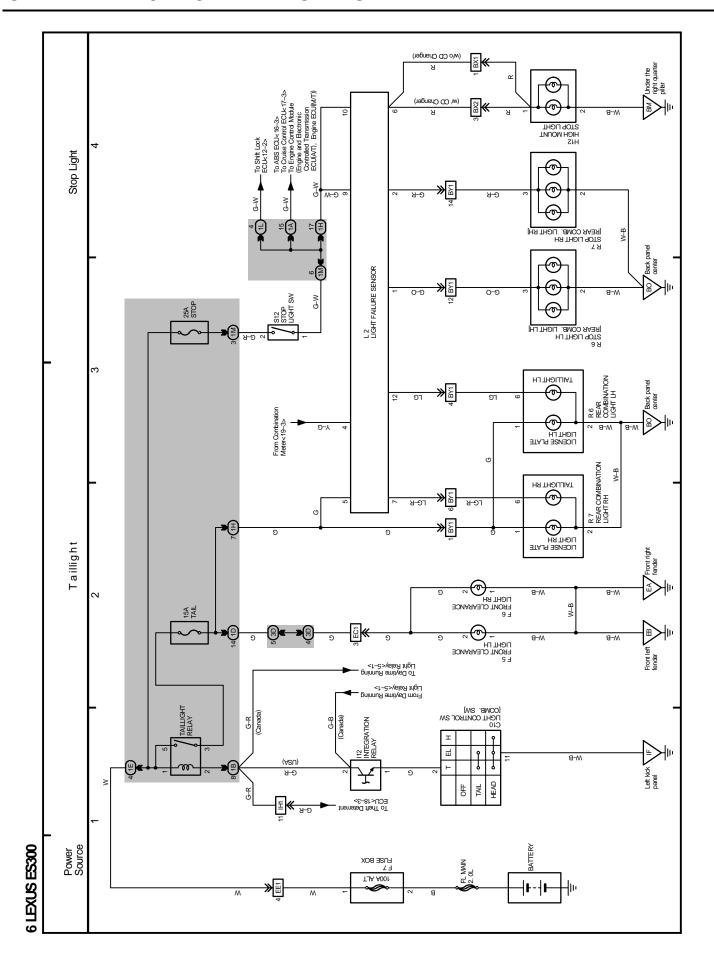


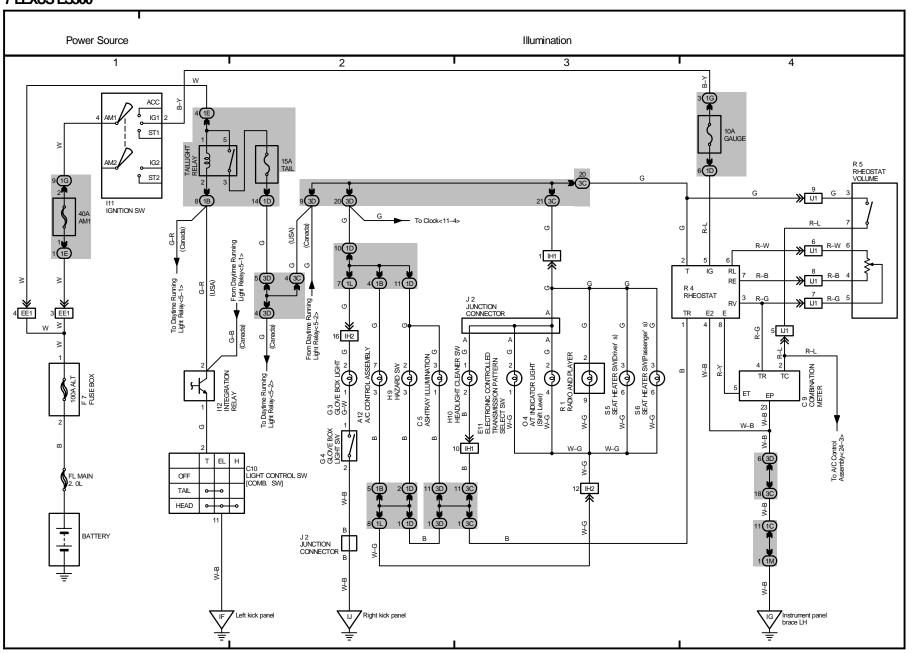


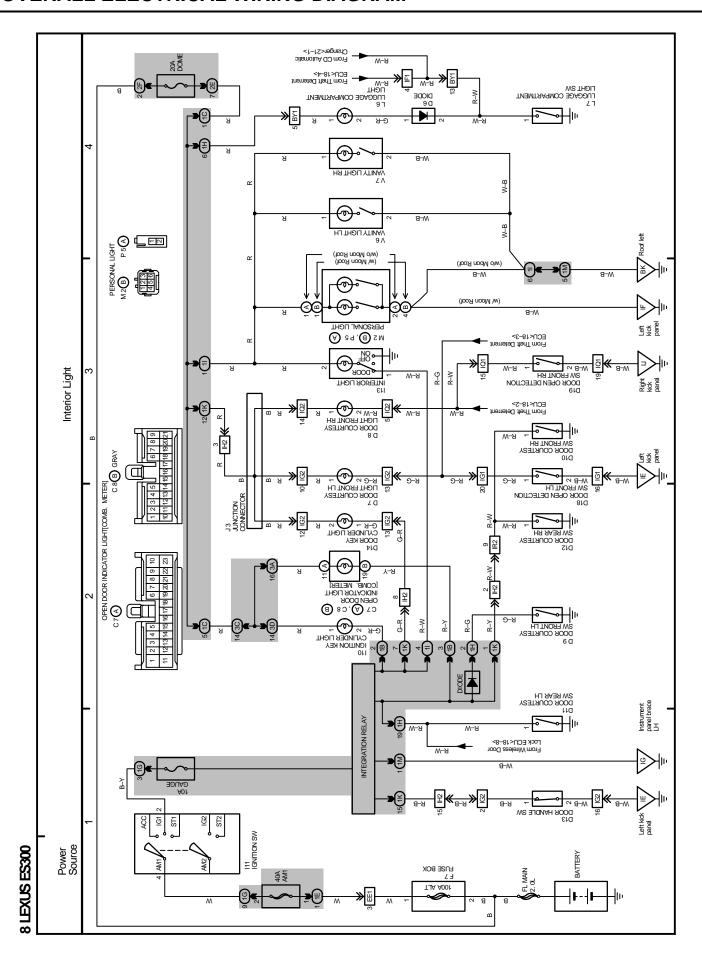


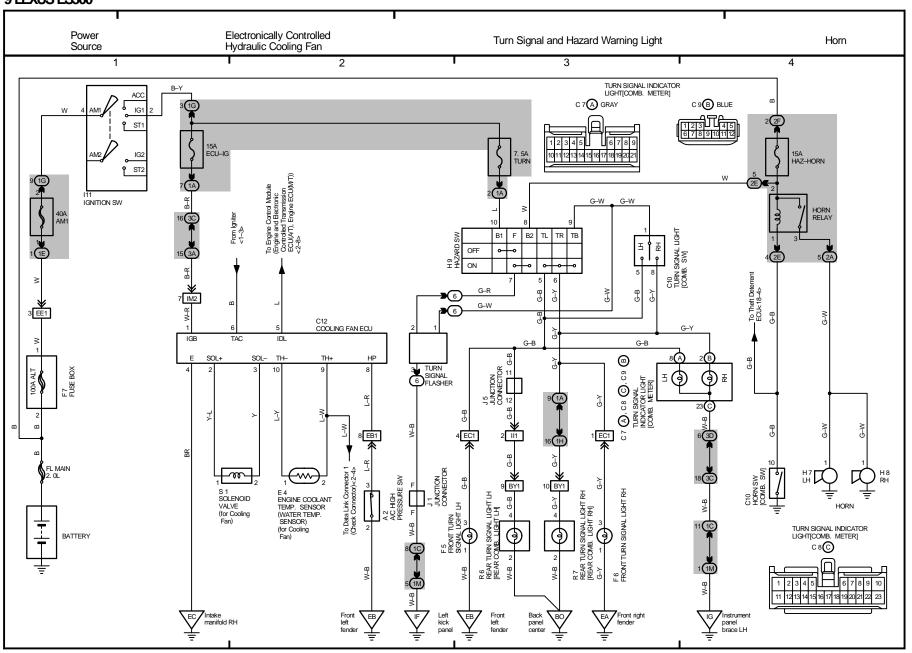


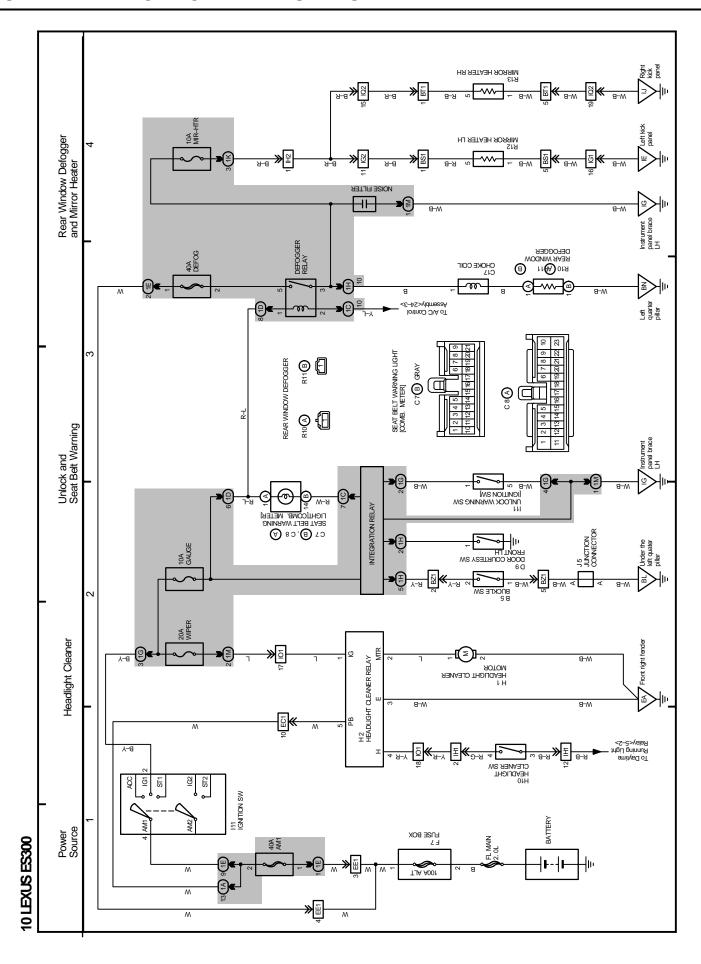


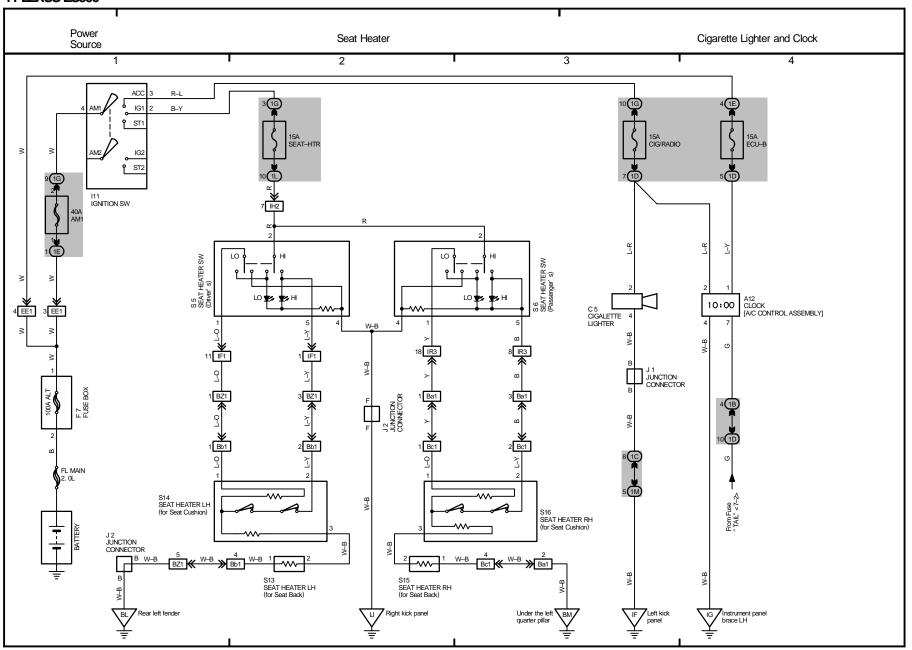


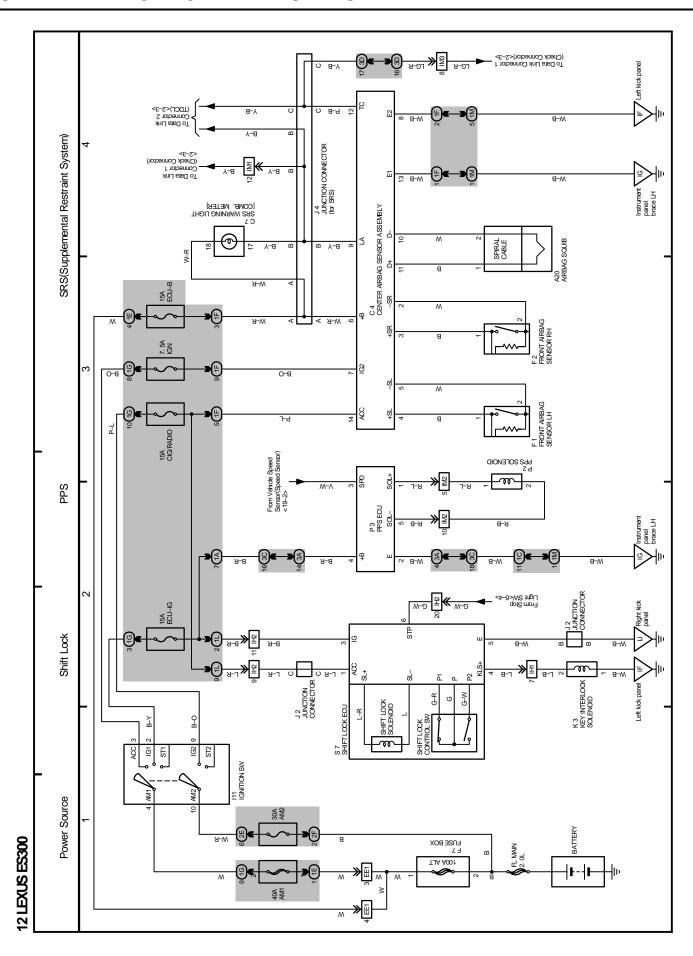


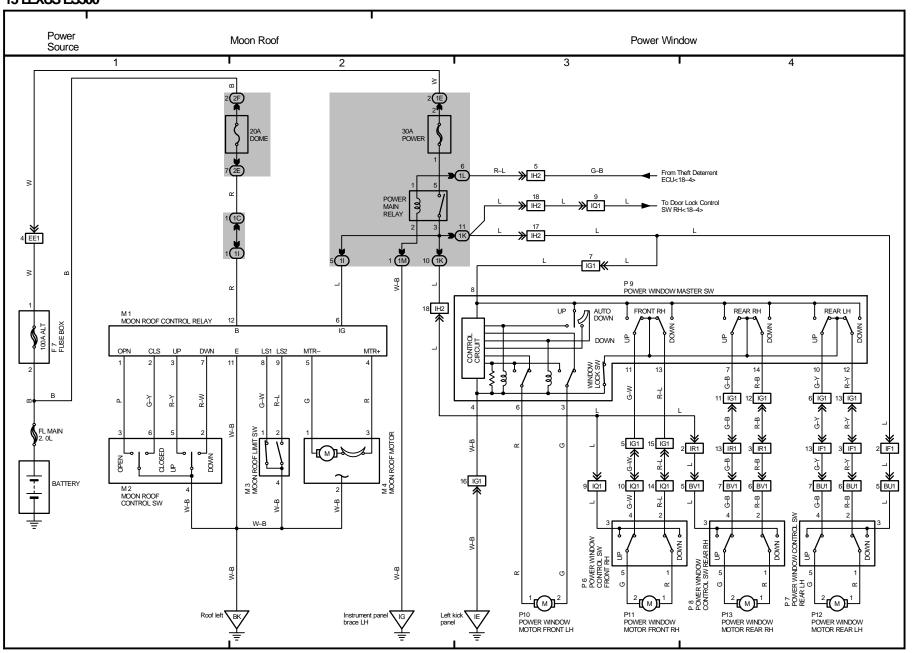


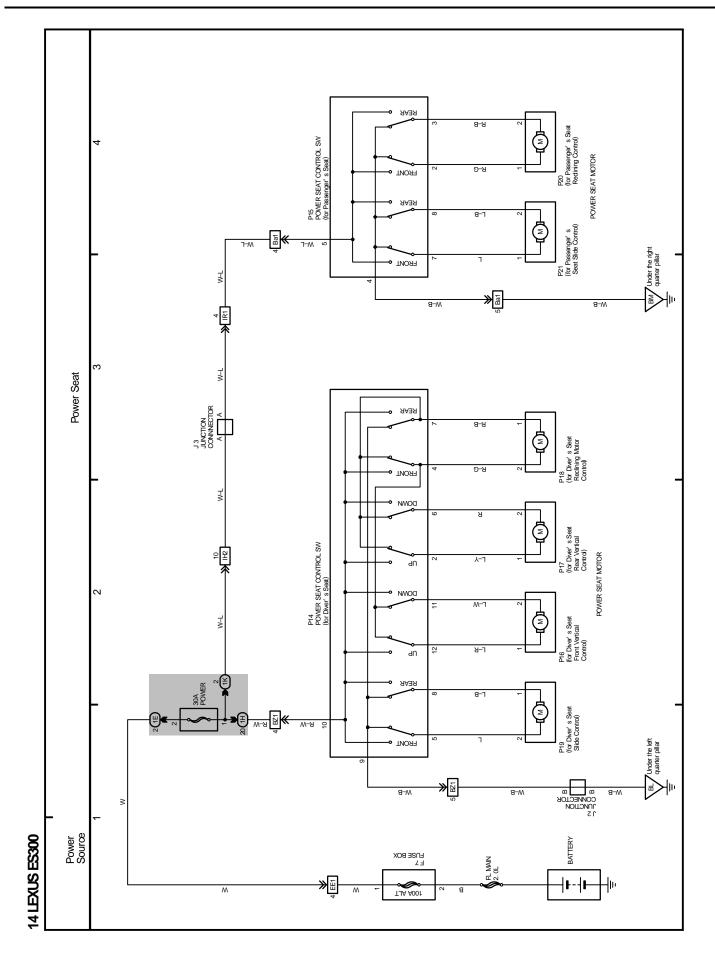


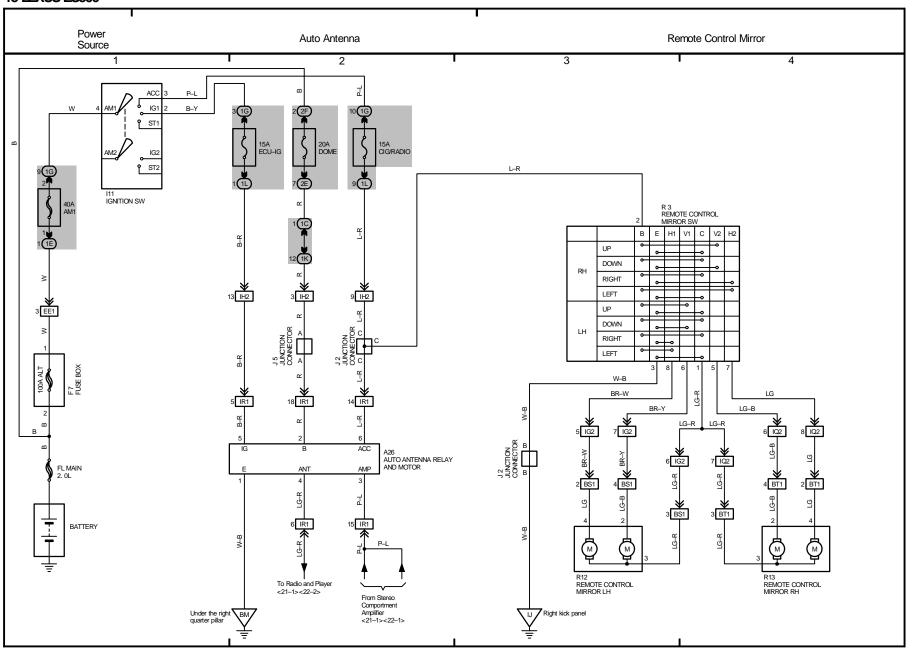


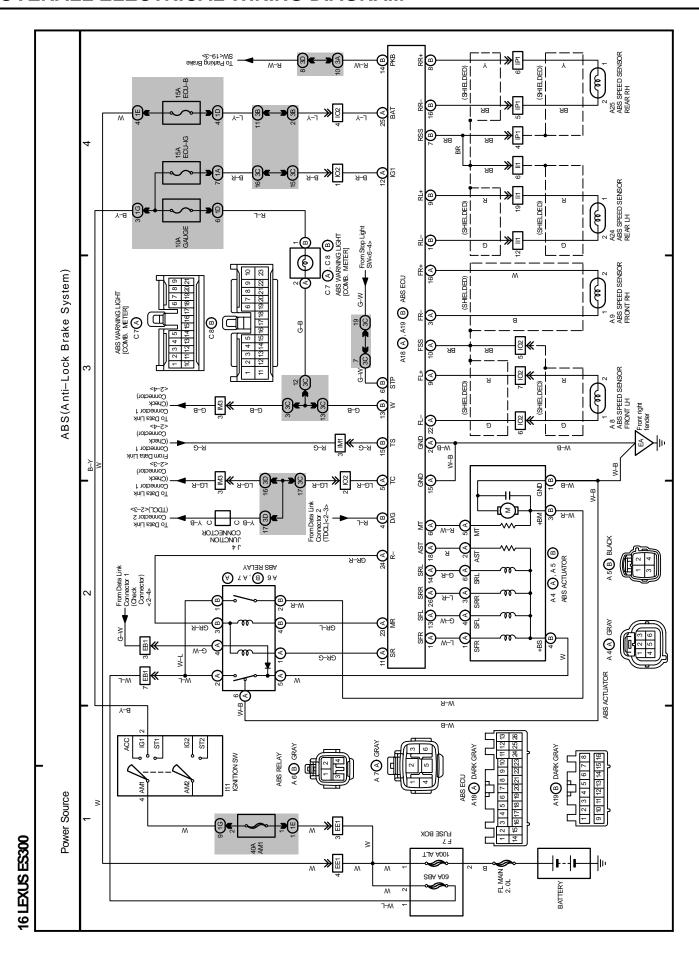


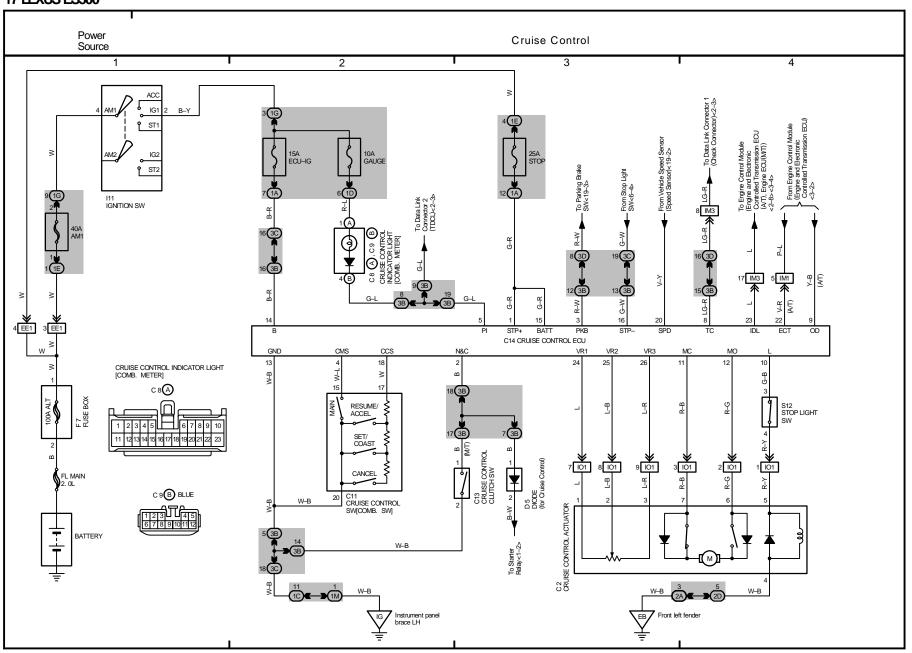


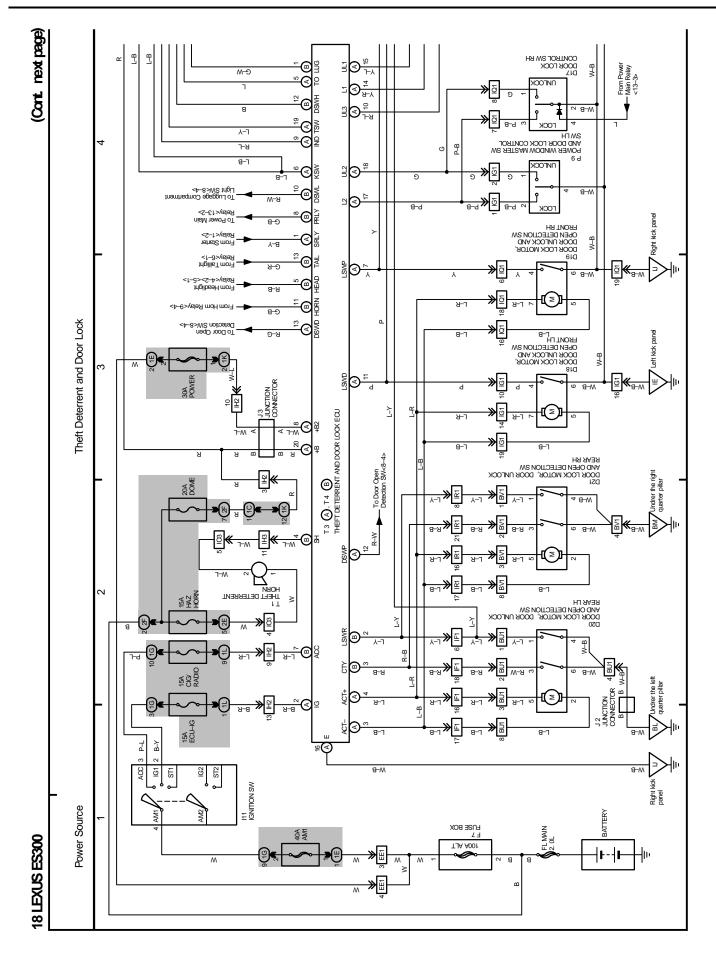












18 LEXUS ES300(Cont' d)

