FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the 1994 TOYOTA CAMRY.

Applicable models: SXV10 Series

MCV10 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.
1994 CAMRY Repair Manual	
Volume 1	RM361U1
Volume 2	RM361U2
1994 Model New Car Features	NCF099U

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		
A	INDEX	Index of the contents of this manual.		
A	INTRODUCTION	Brief explanation of each section.		
В	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, 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.		
I	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 parts described in this manual.			
К	K OVERALL Provides circuit diagrams showing the circuit connections.			

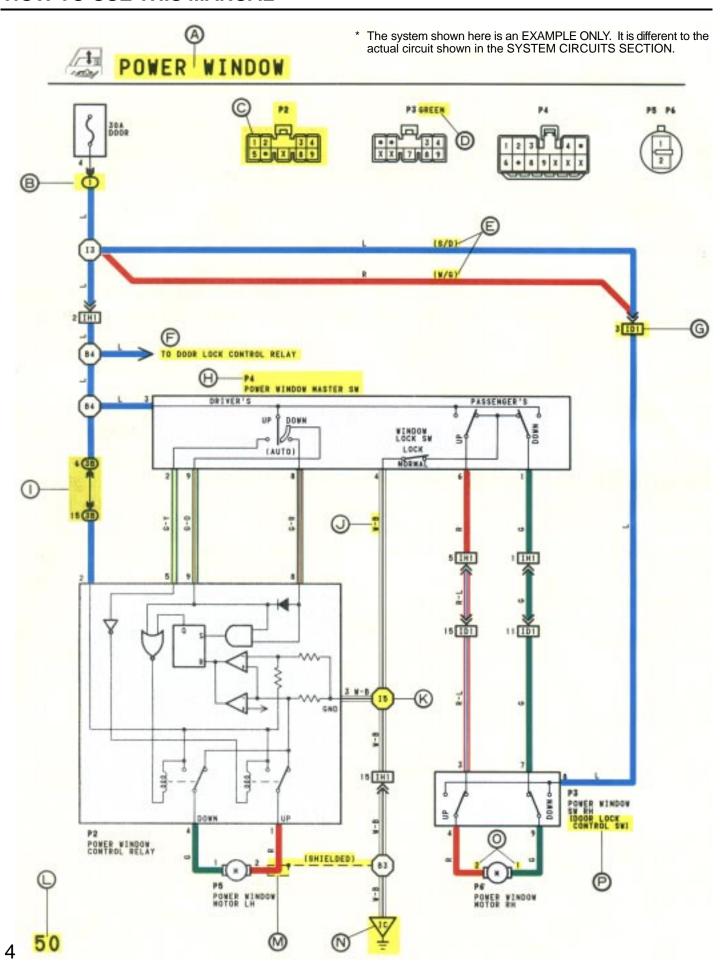
This manual provides information on the electrical circuits installed on vehicles by dividing them into a circuit for each system.

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

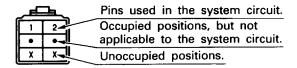


: Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B.



: 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.

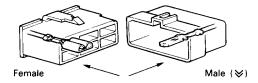


: Indicates related system.



: 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.

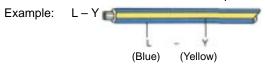


: Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

В = Black = Blue = Red BR = Brown = Light Green = Violet G Green = Orange White GR = Gray= Pink = Yellow

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

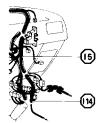




Indicates a wiring Splice Point (Codes are "E" for the Engine Room, "I" for the Instrument Panel, and "B" for the Body).

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.

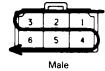
The numbering system is different for female and male connectors.

Example:

Numbered in order from upper left to lower right

Numbered in order from upper right to lower left







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. THOUGH TERMINAL 3 OF THE MASTER SW \rightarrow TERMINAL 2TO OPERATE A POWER WINDOW CONTROL RELAY. THUS THE CURRENT INSIDE THE RELAY FLOWS FROM TERMINAL 2 OF THE RELAY \rightarrow TERMINAL 1 \rightarrow TERMINAL 1 \rightarrow TERMINAL 2 OF THE POWER WINDOW MOTOR \rightarrow TERMINAL 1 \rightarrow TERMINAL 4 OF THE RELAY \rightarrow TERMINAL 3 \rightarrow 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 ightarrow TERMINALS 8 AND 9 TO OPERATE THE RELAY. THUS THE CURRENT INSIDE THE POWER WINDOW CONTROL RELAY FLOWS FROM TERMINAL 2 OF THE RELAY ightarrow TERMINAL 4 ightarrow TERMINAL 1 OF THE POWER WINDOW MOTOR ightarrow TERMINAL 2 ightarrow TERMINAL 1 OF THE RELAY ightarrow TERMINAL 3 ightarrow 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) \rightarrow TERMINAL 4 \rightarrow TERMINAL 2 OF THE MOTOR \rightarrow TERMINAL 1 \rightarrow TERMINAL 9 OF THE POWER WINDOW SW \rightarrow TERMINAL 7 TERMINAL 1 OF THE MASTER SW \rightarrow 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

P2 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 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 HARNESSES WITH SPLICE POINTS
15	24	COWL WIRE

②: Explains the system outline.

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

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 that letter.

Example: P 4
Part is 4th in order
Power Window Master SW

: 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).

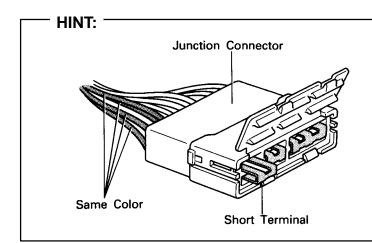
Example: Connector "ID1" connects the front door RH wire (female) and cowl wire (male). It is described on page 26 of this manual, and is installed on the right side kick panel.

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, J6, J7) 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 from a different part.)

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

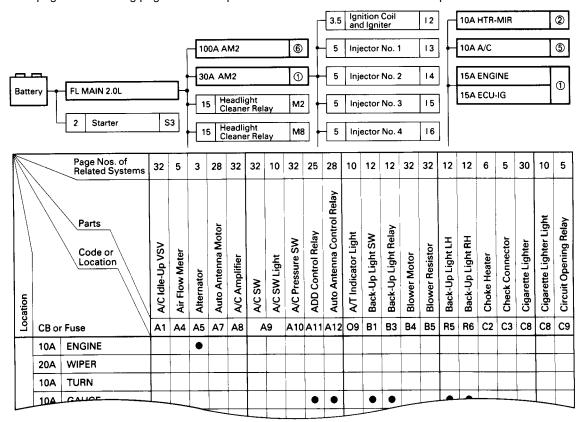
HOW TO USE THIS MANUAL

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.

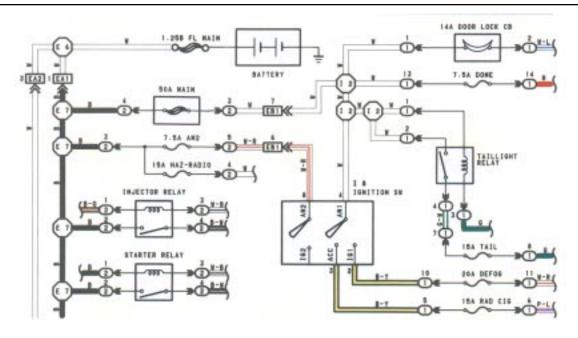
POWER SOURCE (Current Flow Chart)

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.



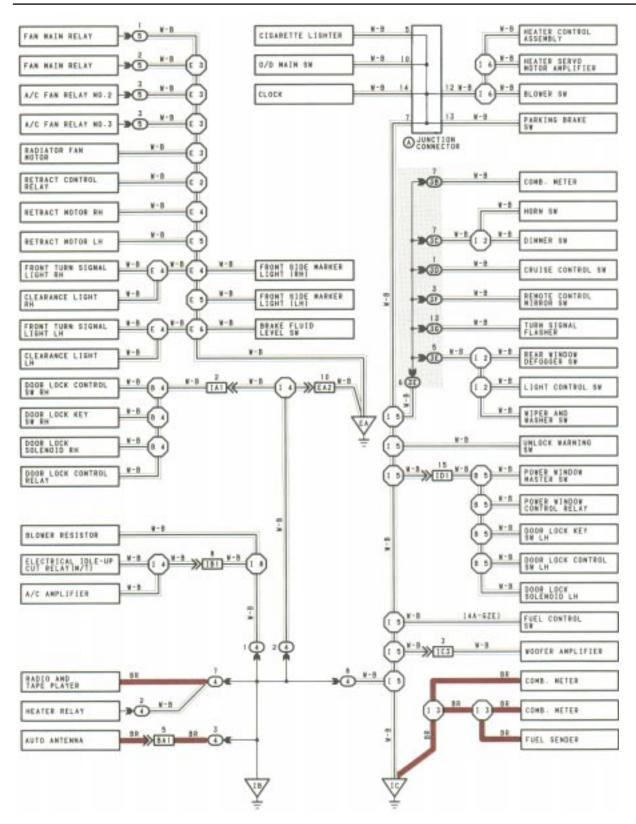
POWER SOURCE



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

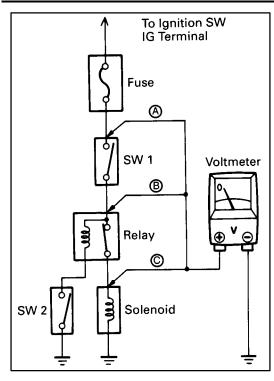
The ground points circuit diagram shows the connections from all major parts to the respective ground points. When troubleshooting a faulty ground point, checking the system circuits which use a common ground may help you identify the problem ground quickly. The relationship between ground points (, , 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

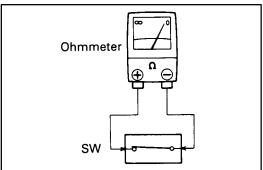


VOLTAGE CHECK

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

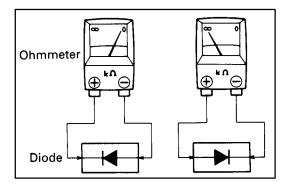
Example:

- 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

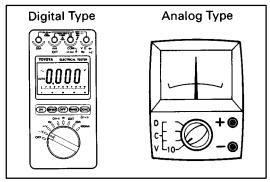
- (a) Disconnect the battery terminal or wire so there is no voltage between the check points.
- (b) Contact the two leads of an ohmmeter to each of the check points.



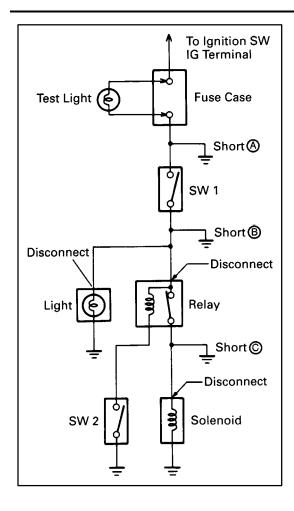
If the circuit has diodes, reverse the two leads and check again.

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 a 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 light in place of the fuse.
- (c) Establish conditions in which the test light comes on. Example:

 - 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 light.

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

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

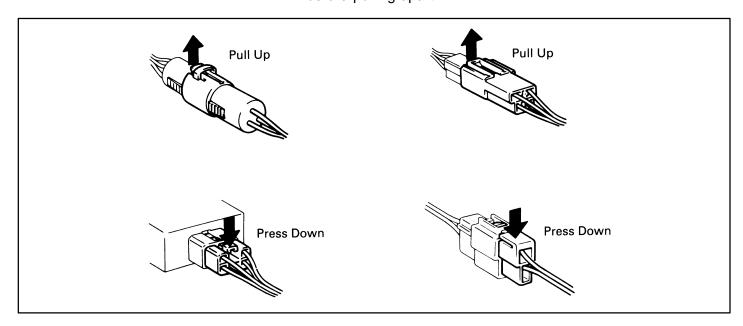
CAUTION

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

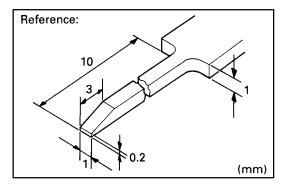
DISCONNECTION OF MALE AND FEMALE CONNECTORS

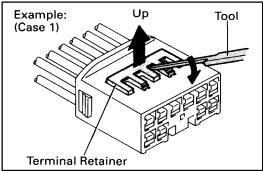
To pull apart the connectors, pull on the connector itself, not the wire harness.

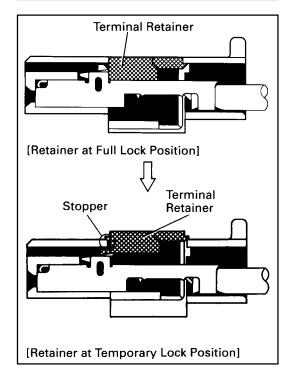
HINT: Check to see what kind of connector you are disconnecting before pulling apart.

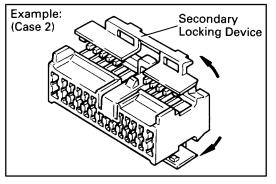


TROUBLESHOOTING









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.

For Non–Waterproof Type Connector

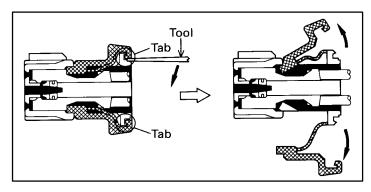
HINT: The needle insertion position varies according to the connector's shape (number of terminals etc.), so check the position before inserting it.

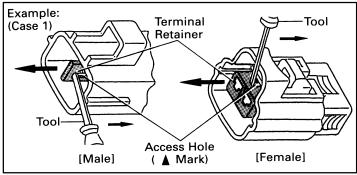
"Case 1"

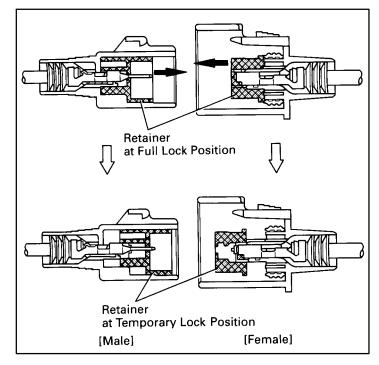
Raise the terminal retainer up to the temporary lock position.

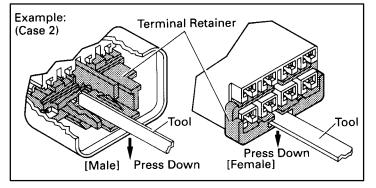
"Case 2"

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).

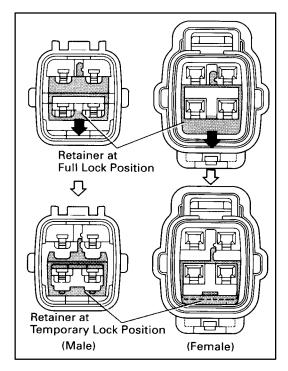
Insert the special tool into the terminal retainer access hole (**A** Mark) and pull the terminal retainer up to the temporary lock position.

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

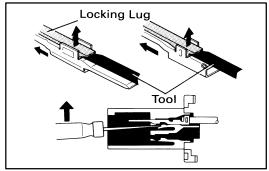
"Case 2"

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

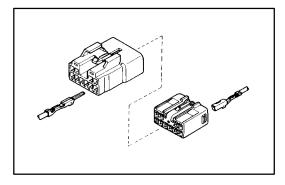
TROUBLESHOOTING



Push the terminal retainer down to the temporary lock position.



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

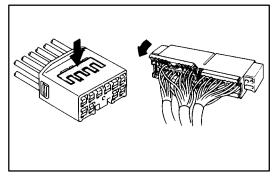


4. INSTALL TERMINAL TO CONNECTOR

(a) Insert the terminal.

HINT:

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



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

5. CONNECT CONNECTOR

ABBREVIATIONS

The following abbreviations are used in this manual.

ABS = Anti-Lock Brake System

ACIS = Acoustic Control Induction System

A/C = Air Conditioning

A/T = Automatic Transmission

COMB. = Combination

C/P = Coupe

ECU = Electronic Control Unit

EFI = Electronic Fuel Injection

EGR = Exhaust Gas Recirculation

ESA = Electronic Spark Advance

Ex. = Except

FL = Fusible Link
IAC = Idle Air Control
ISC = Idle Speed Control
J/B = Junction Block

LH = Left-Hand

MFI = Multiport Fuel Injection M/T = Manual Transmission

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

S/D = Sedan

SFI = Sequential Multiport Fuel Injection SRS = Supplemental Restraint System

SW = Switch

TEMP. = Temperature

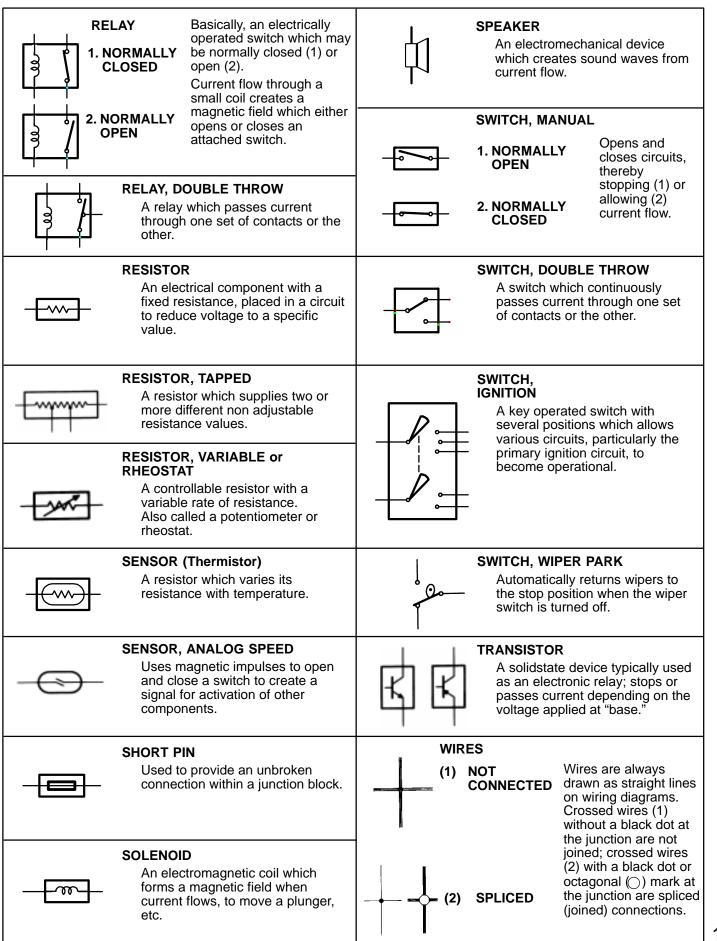
VSV = Vacuum Switching Valve

W/G = Wagon w/ = With w/o = Without

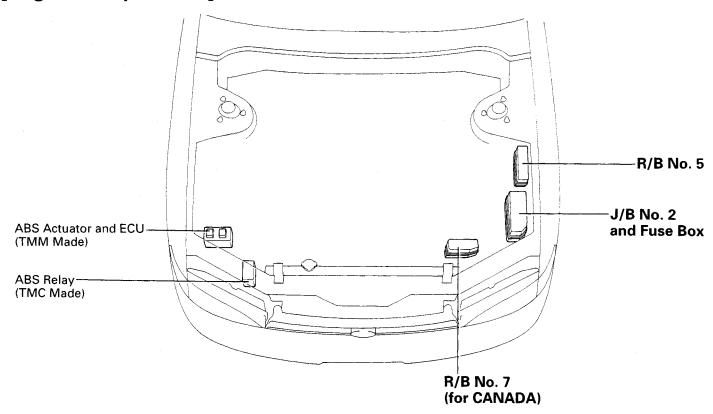
^{*} The titles given inside the components are the names of the terminals (terminal codes) and are not treated as being abbreviations.

BATTERY HEADLIGHTS Current flow causes a headlight Stores chemical energy and filament to heat up and emit light. 1. SINGLE converts it into electrical energy. A headlight may have either a **FILAMENT** Provides DC current for the auto's single (1) filament or a double (2) various electrical circuits. filament. **CAPACITOR (Condenser)** 2. DOUBLE A small holding unit for temporary **FILAMENT** storage of electrical voltage. CIGARETTE LIGHTER HORN An electric device which sounds a An electric resistance heating loud audible signal. element. **CIRCUIT BREAKER** Basically a reusable fuse, a circuit breaker will heat and open if too **IGNITION COIL** much current flows through it. Some units automatically reset when cool, Converts low-voltage DC current into high-voltage ignition current others must be manually reset. for firing the spark plugs. DIODE A semiconductor which allows current flow in only one direction. DIODE, ZENER **LIGHT** A diode which allows current flow Current flow through a filament in one direction but blocks reverse causes the filament to heat up flow only up to a specific voltage. and emit light. Above that potential, it passes the excess voltage. This acts as a simple voltage regulator. **DISTRIBUTOR, IIA LED (LIGHT EMITTING DIODE)** Channels high-voltage current Upon current flow, these diodes from the ignition coil to the emit light without producing the individual spark plugs. heat of a comparable light. **FUSE** METER, ANALOG A thin metal strip which burns Current flow activates a magnetic through when too much current coil which causes a needle to flows through it, thereby stopping move, thereby providing a relative current flow and protecting a display against a background circuit from damage. calibration. **FUSIBLE LINK** METER, DIGITAL (for Medium Current Fuse) A heavy-gauge wire placed in Current flow activates one or high amperage circuits which many LED's, LCD's, or fluorescent **FUEL** burns through on overloads, displays, which provide a relative thereby protecting the circuit. (for High Current Fuse or Fusible Link.) or digital display. The numbers indicate the crosssection surface area of the wires. **GROUND MOTOR** The point at which wiring attaches A power unit which converts to the Body, thereby providing a electrical energy into mechanical return path for an electrical circuit; energy, especially rotary motion. without a ground, current cannot

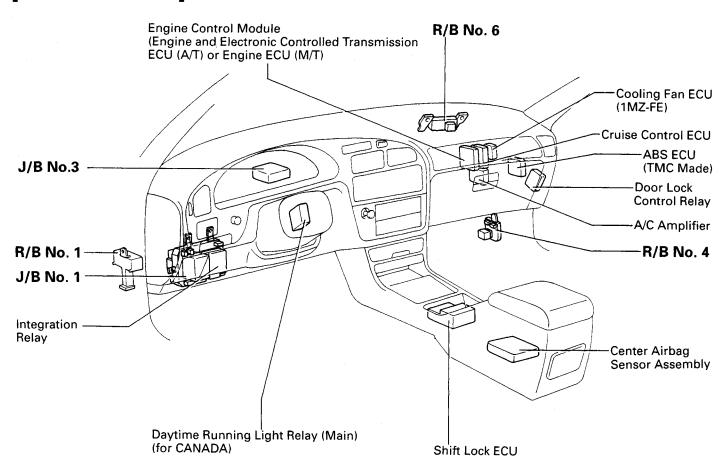
flow.



[Engine Compartment]

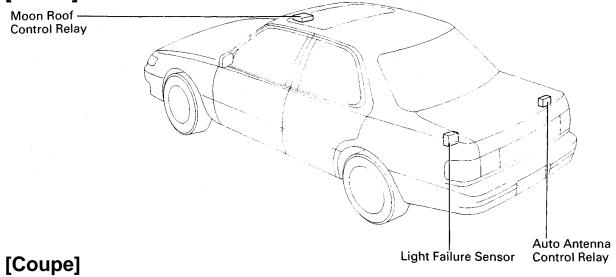


[Instrument Panel]

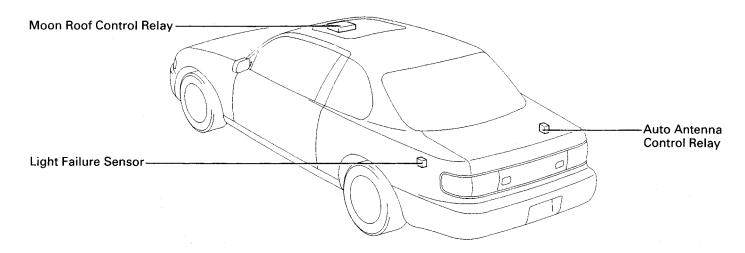


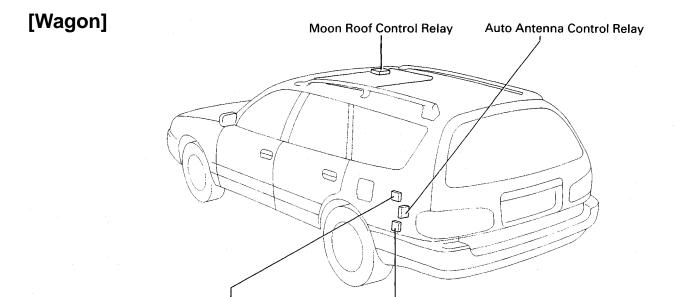
[Body]

[Sedan]



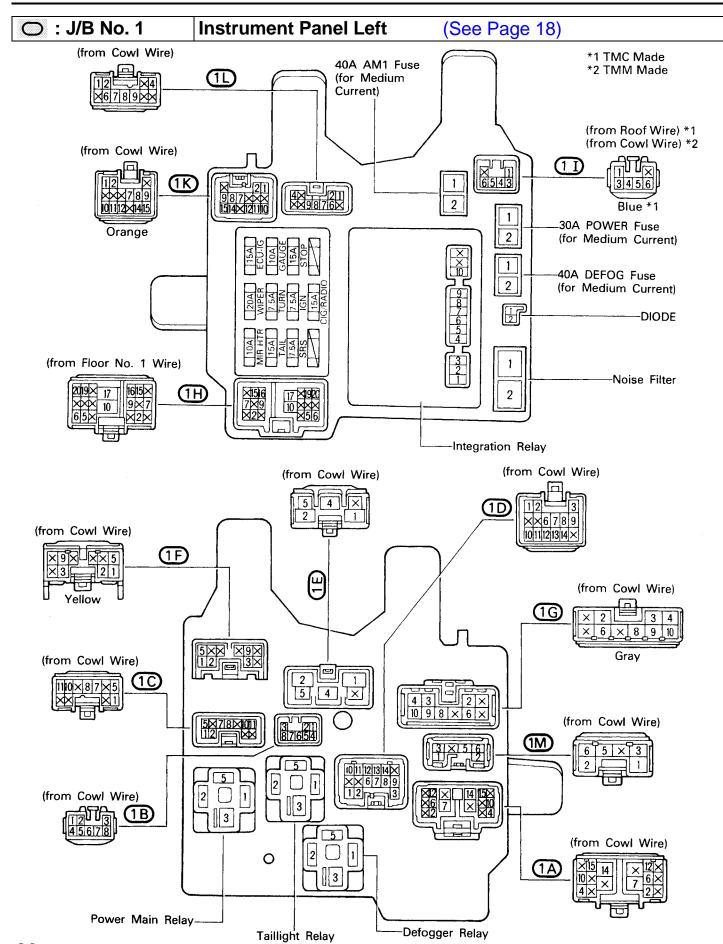
[Coupe]



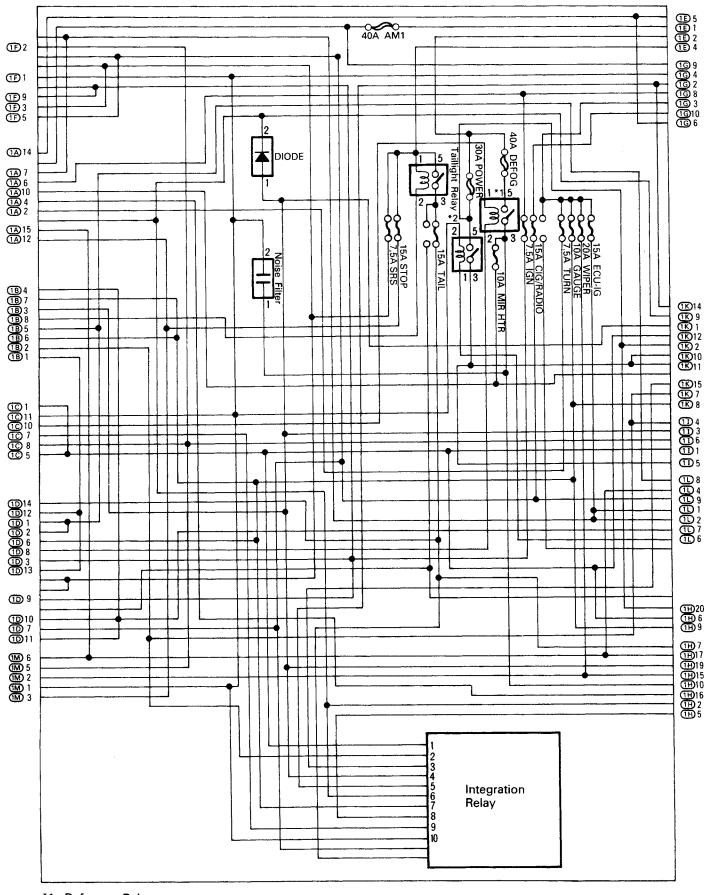


Light Failure Sensor

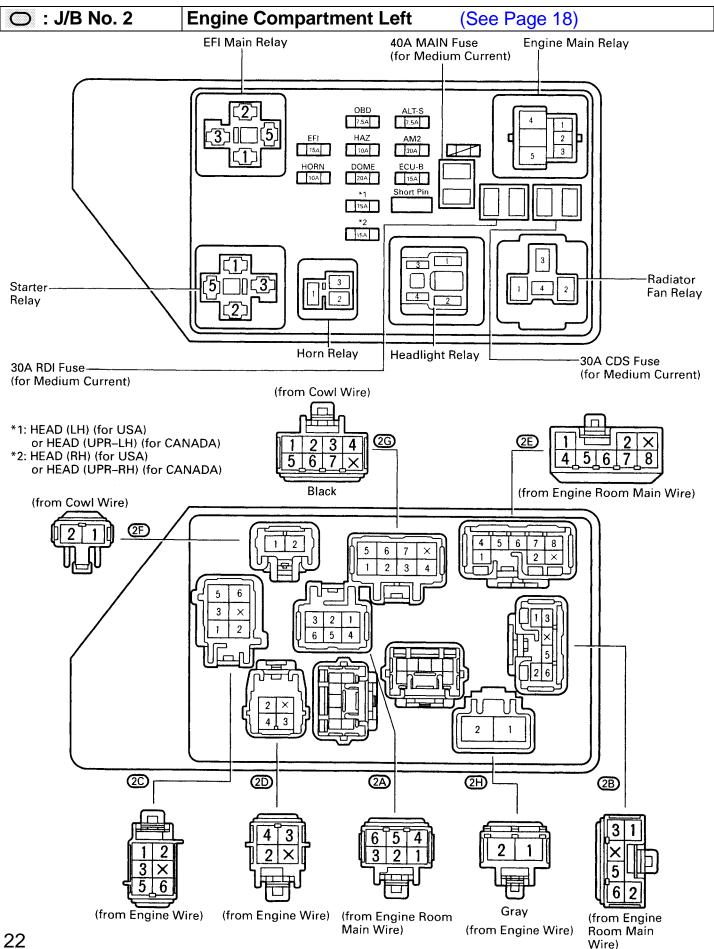
Rear Wiper Relay



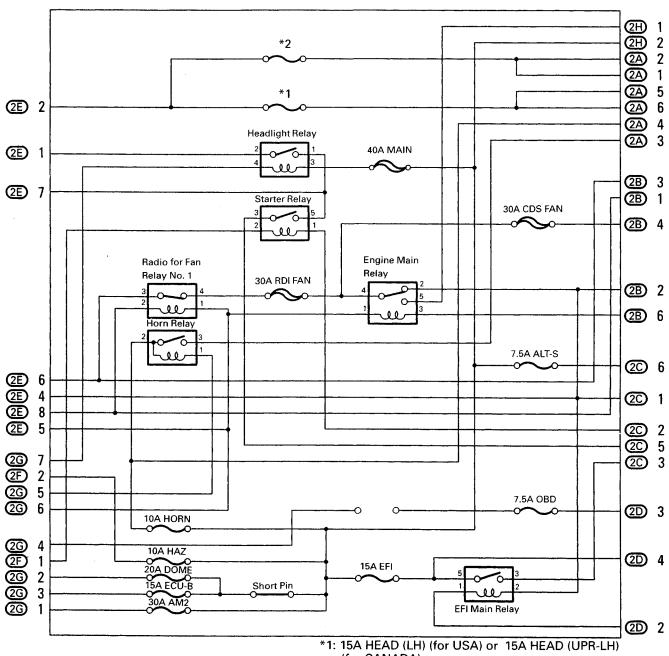
[J/B No. 1 Inner Circuit]



*1: Defogger Relay *2: Power Main Relay



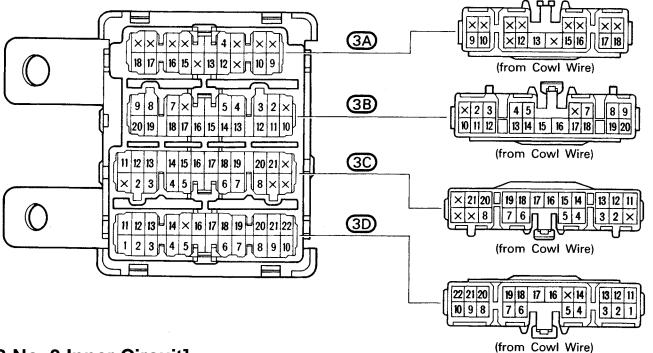
[J/B No. 2 Inner Circuit]



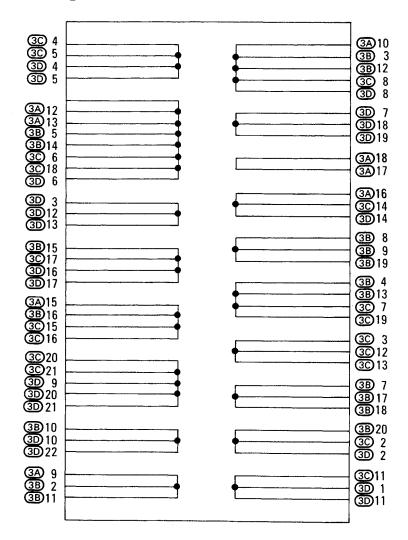
(for CANADA)

^{*2: 15}A HEAD (RH) (for USA) or 15A HEAD (UPR-RH) (for CANADA)

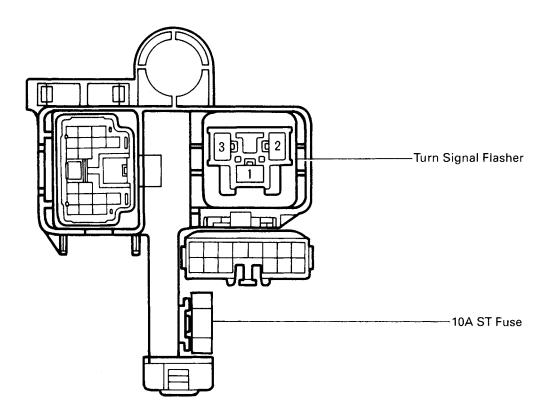




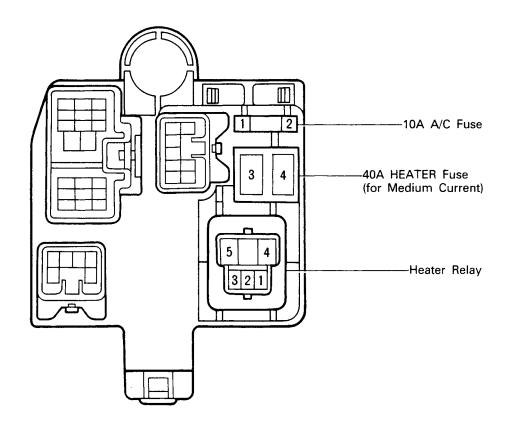
[J/B No. 3 Inner Circuit]

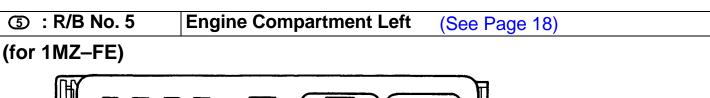


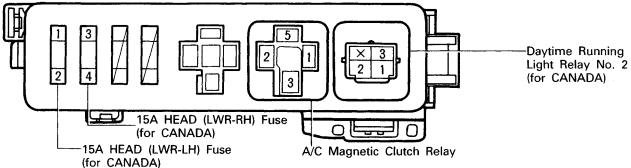
① : R/B No. 1 Left Kick Panel (See Page 18)

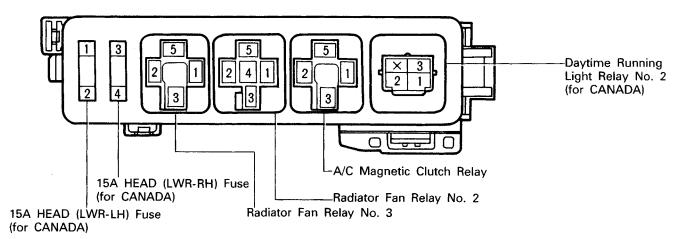


(See Page 18)



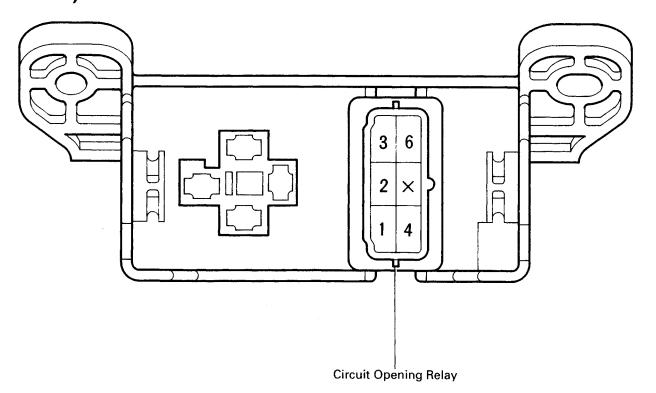




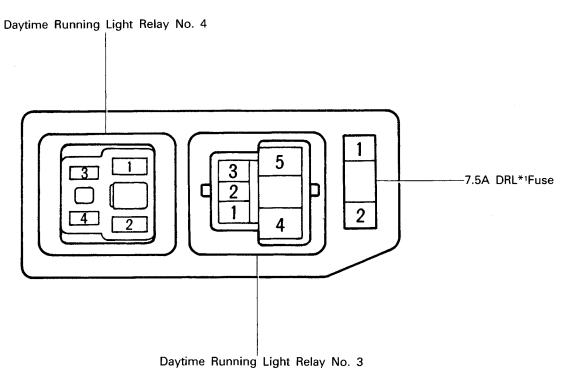


(See Page 18)

(for 5S-FE)

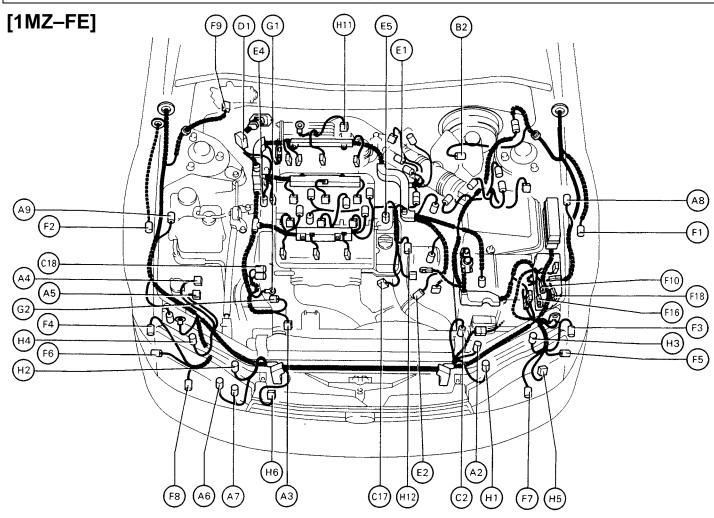


① : R/B No. 7 Near The Battery (See Page 18)



(*1: Daytime Running Light)

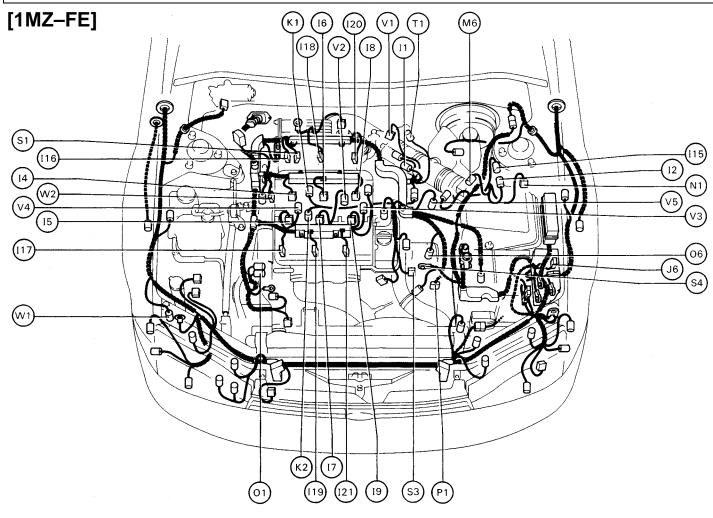
Position of Parts in Engine Compartment



- A 2 A/C Triple Pressure SW (A/C Dual and Single 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 2 Brake Fluid Level SW
- C 2 Cruise Control Actuator
- C 17 Camshaft Position Sensor
- C 18 Crankshaft Position Sensor
- D 1 Data Link Connector 1 (Check Connector)
- D 2 Distributor
- E 1 EGR Gas Temp. Sensor
- E 2 Electronic Controlled Transmission Solenoid
- E 4 Engine Coolant Temp. Sensor (EFI Water Temp. Sensor)
- E 5 Engine Coolant Temp. Sensor (Water Temp. Sensor) (for Cooling Fan)

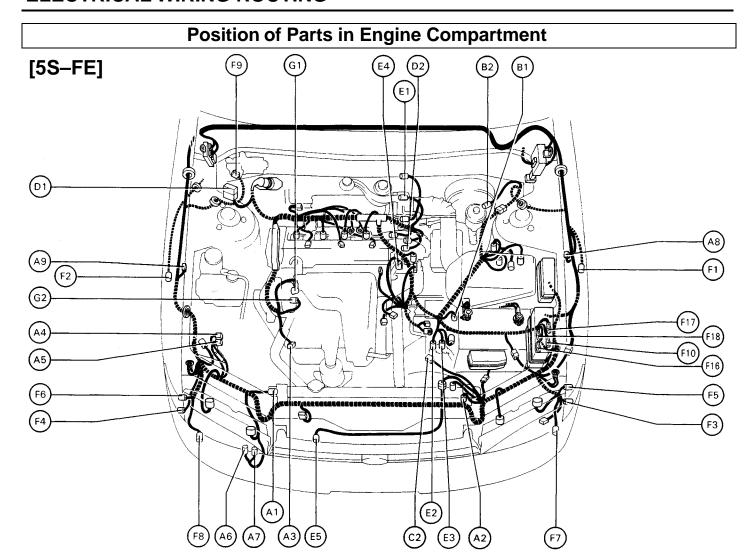
- 1 Front Airbag Sensor LH
- F 2 Front Airbag Sensor RH
- F 3 Front Clearance Light LH
- 4 Front Clearance Light RH
- 5 Front Side Marker LH
- 6 Front Side Marker RH
- 7 Front Turn Signal Light LH
- F 8 Front Turn Signal Light RH
- F 9 Front Wiper Motor
- F 10 Fuse Box
- F 16 Fuse Box
- 18 Fuse Box
- G 1 Generator (Alternator)
- G 2 Generator (Alternator)
- H 1 Headlight Hi LH
- H 2 Headlight Hi RH
- H 3 Headlight Lo LH
- H 4 Headlight Lo RH
- H 5 Horn LH
- H 6 Horn RH
- H 11 Heated Oxygen Sensor (Bank 1 Sensor 1)
- H 12 Heated Oxygen Sensor (Bank 2 Sensor 1)

Position of Parts in Engine Compartment



- I Idle Air Control Valve (ISC Valve)
- l 2 Igniter
- 4 Injector No. 1
- 5 Injector No. 2
- I 6 Injector No. 3
- 7 Injector No. 4
- 8 Injector No. 5
- 9 Injector No. 6
- 15 Igniter
- 16 Ignition Coil No. 1 17 Ignition Coil No. 2
- I 17 Ignition Coil No. 2I 18 Ignition Coil No. 3
- I 19 Ignition Coil No. 4
- I 20 Ignition Coil No. 5
- 21 Ignition Coil No. 6
- J 6 Junction Connector
- K 1 Knock Sensor 1
- K 2 Knock Sensor 2
- M 6 Mass Air Flow (Air Flow Meter)

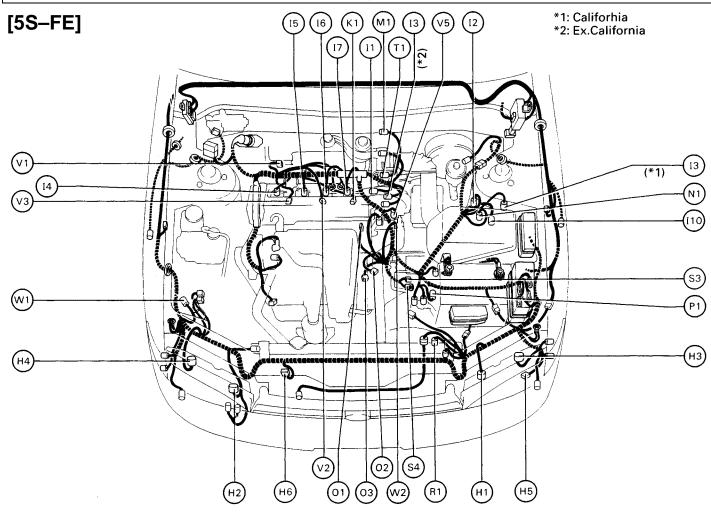
- N 1 Noise Filter (for Ignition System)
- O 1 Oil Pressure SW
- O 6 O/D Direct Clutch Speed Sensor
- P 1 Park/Neutral Position SW (Neutral Start SW) (A/T)
- S 1 Solenoid Valve (for Hydrauric Motor)
- S 3 Starter
- S 4 Starter
- T 1 Throttle Position Sensor
- V 1 VSV (for A/C Idle-Up)
- V 2 VSV (for EGR System)
- 3 VSV (for Fuel Pressure Up)
- V 4 VSV (for Intake Air Control)
- V 5 Vehicle Speed Sensor (Speed Sensor)
- W 1 Washer Motor
- W 2 Water Temp. Sender



- A 1 A/C Condenser Fan Motor
- A 2 A/C Triple Pressure SW (A/C Dual and Single 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 2 Cruise Control Actuator
- D 1 Data Link Connector 1 (Check Connector)
- D 2 Distributor

- 1 EGR Gas Temp. Sensor
- 2 Electronic Controlled Transmission Solenoid
- E 3 Electronic Controlled Transmission Solenoid
- E 4 Engine Coolant Temp. Sensor (EFI Water Temp. Sensor)
- E 5 Water Temp. SW (for Cooling Fan)
- F 1 Front Airbag Sensor LH
- F 2 Front Airbag Sensor RH
- F 3 Front Clearance Light LH
- F 4 Front Clearance Light RH
- 5 Front Side Marker LH
- F 6 Front Side Marker RH
- 7 Front Turn Signal Light LH
- F 8 Front Turn Signal Light RH
- 9 Front Wiper Motor
- F 10 Fuse Box
- F 16 Fuse Box
- F 17 Fuse Box
- F 18 Fuse Box
- G 1 Generator (Alternator)
- G 2 Generator (Alternator)

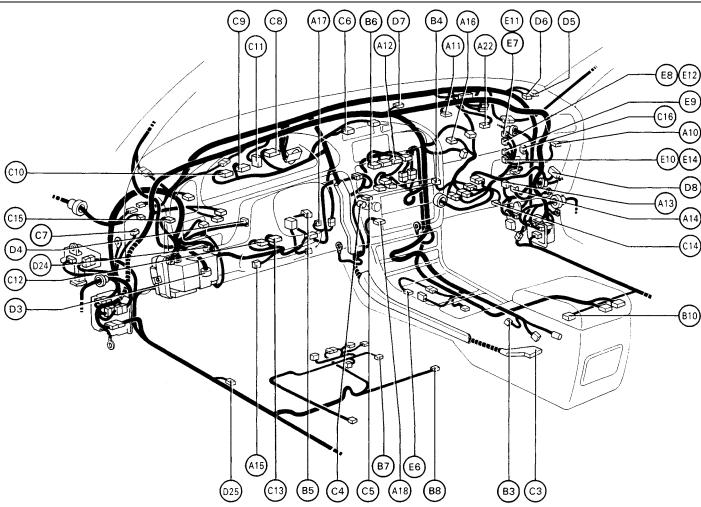
Position of Parts in Engine Compartment



- Headlight Hi LH Н
- Headlight Hi RH Н 2
- Н Headlight Lo LH
- Headlight Lo RH Н
- 5 Horn LH Н
- 6 Horn RH
- Idle Air Control Valve (ISC Valve)
- 2 Igniter
- Ignition Coil
- Injector No. 1 Injector No. 2
- Injector No. 3
- Injector No. 4
- 10 Intake Air Temp. Sensor (In-Air Temp. Sensor)
- Knock Sensor
- 1 Manifold Absolute Pressure Sensor (Vacuum Sensor) Μ
- 1 Noise Filter (for Ignition System) Ν

- 0 Oil Pressure SW
- 0 2 Oxygen Sensor (Sub)
- Oxygen Sensor (Main)
- Park/Neutral Position SW (Neutral Start SW) (A/T)
- R Radiator Fan Motor
- S 3 Starter
- Starter S
- Т Throttle Position Sensor
- VSV (for A/C Idle-Up)
- ٧ VSV (for EGR System) 2
- VSV (for Fuel Pressure Up)
- Vehicle Speed Sensor (Speed Sensor)
- W Washer Motor
- W 2 Water Temp. Sender

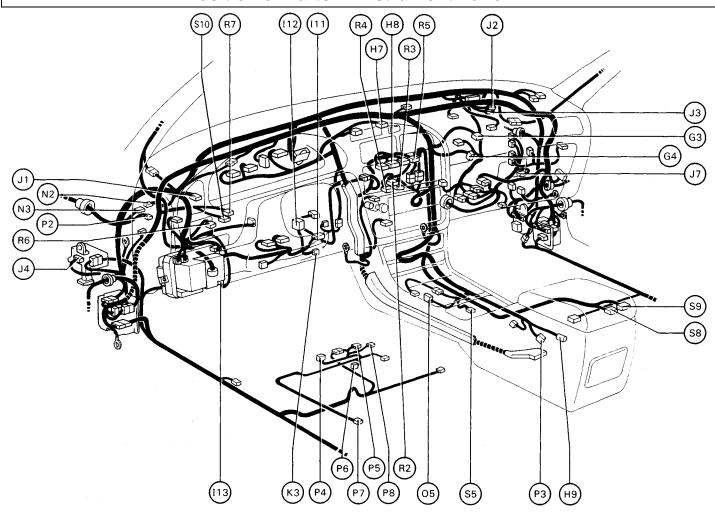
Position of Parts in Instrument Panel



- A 10 A/C Amplifier
- A 11 A/C Evaporator Temp. Sensor
- A 12 A/C SW
- A 13 ABS ECU
- A 14 ABS ECU
- A 15 Airbag Squib (Steering Wheel Pad)
- A 16 Air Inlet Control Servo Motor
- A 17 Air Vent Mode Control Servo Motor
- A 18 Ashtray Illumination
- A 22 Airbag Squib (Front Passenger Airbag Assembly)
- B 3 Back Door Lock Control SW
- B 4 Blower Motor
- B 5 Blower Resistor
- B 6 Blower SW
- B 7 Buckle SW LH (w/ Power Seat)
- B 8 Buckle SW LH (w/o Power Seat)
- B 10 Buckle SW RH
- C 3 Center Airbag Sensor Assembly
- C 4 Cigarette Lighter
- C 5 Cigarette Lighter Illumination
- C 6 Clock
- C 7 Clutch Start SW (M/T)
- C 8 Combination Meter
- C 9 Combination Meter
- C 10 Combination Meter
- C 11 Combination Meter

- C 12 Combination SW
- C 13 Combination SW
- C 14 Cooling Fan ECU
- C 15 Cruise Control Clutch SW (M/T)
- C 16 Cruise Control ECU
- D 3 Data Lik Connector 2 (TDCL (Toyota Diagnostic Communication Link))
- D 4 Daytime Running Light Relay (Main)
- D 5 Diode (for Cruise Control)
- D 6 Diode (for Idle-Up)
- D 7 Diode (for Courtesy)
- D 8 Door Lock Control Relay)
- D 24 Date Link Connector 3
- D 25 Diode (for Tension Reducer)
- E 6 Electronic Controlled Transmission Pattern Select SW
- E 7 Engine Control Module (Engine and Electronic Controlled Transmission ECU) (A/T)
- E 8 Engine Control Module (Engine and Electronic Controlled Transmission ECU) (A/T)
- E 9 Engine Control Module (Engine and Electronic Controlled Transmission ECU) (A/T)
- E 10 Engine Control Module (Engine and Electronic Controlled Transmission ECU) (A/T)
- E 11 Engine Control Module (Engine ECU) (M/T)
- E 12 Engine Control Module (Engine ECU) (M/T)
- E 14 Engine Control Module (Engine ECU) (M/T)

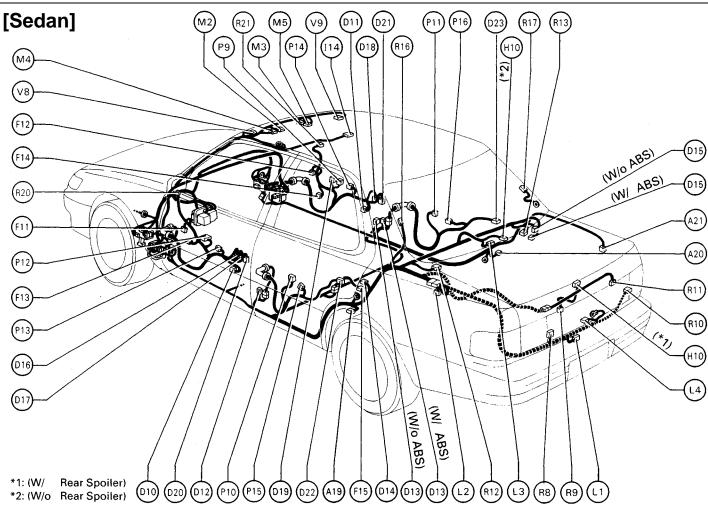
Position of Parts in Instrument Panel



- G 3 Glove Box Light
- G 4 Glove Box Light SW
- H 7 Hazard SW
- H 8 Heater Control SW (for Push Control SW Type) or Air Vent Mode Control SW (for Lever Control SW Type)
- H 9 Heated Oxygen Sensor (Bank 1 Sensor 2)
- I 11 Ignition Key Cylinder Light
- I 12 Ignition SW and Unlock Warning SW
- I 13 Integration Relay
- J 1 Junction Connector
- J 2 Junction Connector
- J 3 Junction Connector
- J 4 Junction Connector (for SRS System)
- J 7 Junction Connector
- K 3 Key Interlock Solenoid
- N 2 Noise Filter (for Stop Light)
- N 3 Noise Filter (for Stop Light)

- O 5 O/D Main SW and A/T Indicator Light (Shift Lever)
- P 2 Parking Brake SW (for 1MZ-FE)
- P 3 Parking Brake SW (for 5S–FE)
- P 4 Power Seat Control SW
- P 5 Power Seat Motor (for Front Vertical Control)
- P 6 Power Seat Motor (for Rear Vertical Control)
- P 7 Power Seat Motor (for Reclining Control)
- P 8 Power Seat Motor (for Slide Control)
- R 2 Radio and Player (w/ CD Player)
- R 3 Radio and Player (w/o CD Player)
- R 4 Radio and Player (w/o CD Player)
- R 5 Rear Window Defogger SW
- R 6 Remote Control Mirror SW
- R 7 Rheostat
- S 5 Shift Lock ECU
- S 8 Stereo Component Amplifier
- S 9 Stereo Component Amplifier
- S 10 Stop Light SW

Position of Parts in Body

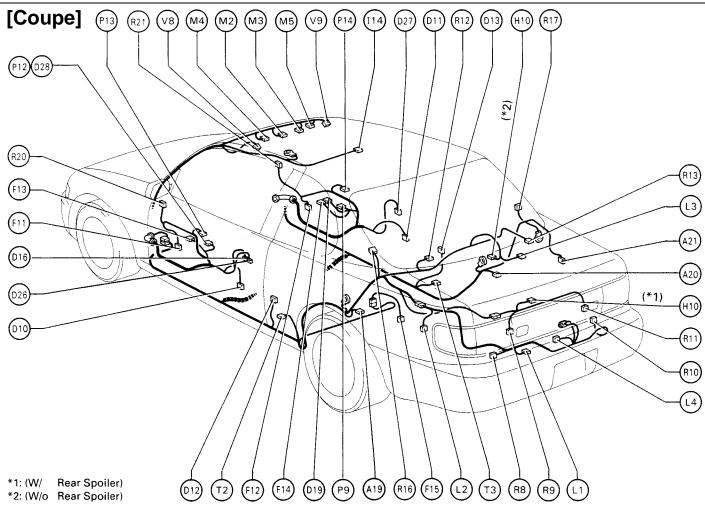


L

- A 19 ABS Speed Sensor Rear LH
- A 20 ABS Speed Sensor Rear RH
- A 21 Auto Antenna Motor and Relay
- D 10 Door Courtesy Light Front LH
- D 11 Door Courtesy Light Front RH
- D 12 Door Courtesy SW Front LH
- D 13 Door Courtesy SW Front RH
- D 14 Door Courtesy SW Rear LH
- D 15 Door Courtesy SW Rear RH
- D 16 Door Key Cylinder Light and SW
 D 17 Door Key Lock and Unlock SW LH
- D 18 Door Key Lock and Unlock SW RH
- D 19 Door Lock Control SW RH
- D 20 Door Lock Motor and Door Unlock Detection SW Front
- D 21 Door Lock Motor and Door Unlock Detection SW Front RH
- D 22 Door Lock Motor Rear LH
- D 23 Door Lock Motor Rear RH
- F 11 Front Door Speaker LH
- F 12 Front Door Speaker RH
- F 13 Front Tweeter (Speaker) LH
- F 14 Front Tweeter (Speaker) RH
- 15 Fuel Pump and Sender
- H 10 High Mount Stop Light
- I 14 Interior Light
- L 1 License Plate Light
- L 2 Light Failure Sensor

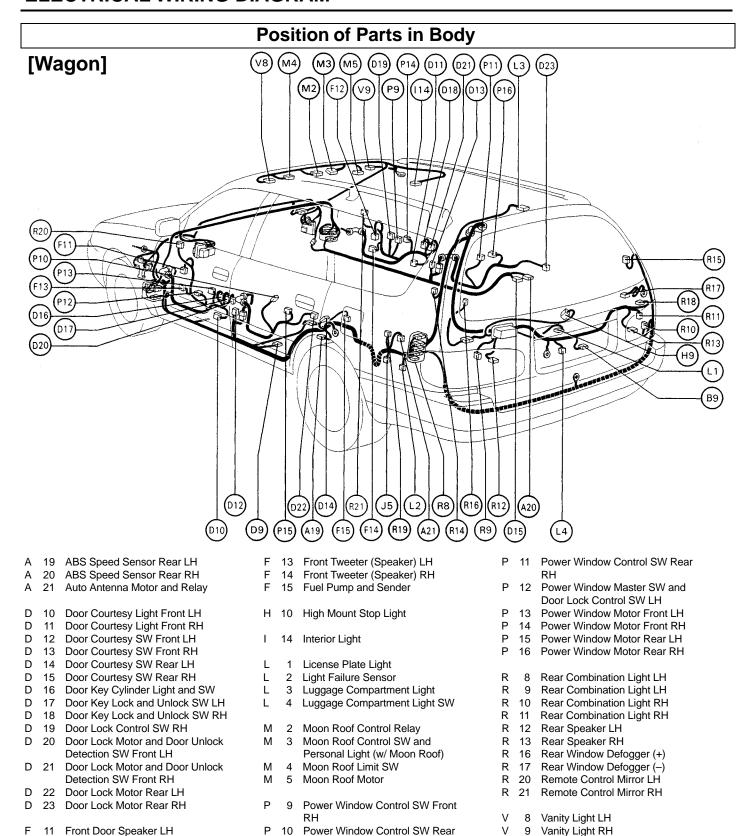
- 3 Luggage Compartment Light4 Luggage Compartment Light SW
- M 2 Moon Roof Control Relay
- M 3 Moon Roof Control SW and Personal Light (w/ Moon Roof)
- M 4 Moon Roof Limit SW
- M 5 Moon Roof Motor
- P 9 Power Window Control SW Front RH
- P 10 Power Window Control SW Rear LH
- P 11 Power Window Control SW Rear RH
- P 12 Power Window Master SW and Door Lock Control SW LH
- P 13 Power Window Motor Front LH
- P 14 Power Window Motor Front RH
- 15 Power Window Motor Rear LH
- 2 16 Power Window Motor Rear RH
- R 8 Rear Combination Light LH
- R 9 Rear Combination Light LH
- R 10 Rear Combination Light RH
- 11 Rear Combination Light RH
- R 12 Rear Speaker LH
- R 13 Rear Speaker RH
- R 16 Rear Window Defogger (+)
- R 17 Rear Window Defogger (–)
- R 20 Remote Control Mirror LH
- R 21 Remote Control Mirror RH
- 8 Vanity Light LH
- 9 Vanity Light RH

Position of Parts in Body



- ABS Speed Sensor Rear LH 19
- ABS Speed Sensor Rear RH Α 20
- Α Auto Antenna Motor and Relay
- D 10 Door Courtesy Light Front LH
- Door Courtesy Light Front RH D 11
- D 12 Door Courtesy SW Front LH
- 13 Door Courtesy SW Front RH
- 16 Door Key Cylinder Light and SW D
- Door Lock Control SW RH D
- D 26 Door Lock Motor, Door Unlock Detection SW Door Key Lock and Unlock SW LH
- Door Lock Motor, Door Unlock Detection SW D Door Key Lock and Unlock SW RH
- Door Lock Control SW LH (w/o Power Window) D
- Front Door Speaker LH F
- F Front Door Speaker RH
- Front Tweeter (Speaker) LH
- Front Tweeter (Speaker) RH
- Fuel Pump and Sender
- High Mount Stop Light Н
- Interior Light
- License Plate Light
- L 2 Light Failure Sensor
- Luggage Compartment Light
- Luggage Compartment Light SW

- Moon Roof Control Relay Μ
- М Moon Roof Control SW and Personal Light (w/ Moon Roof)
- Moon Roof Limit SW M
- Μ Moon Roof Motor
- Р Power Window Control SW Front RH
- Ρ 12 Power Window Master SW and Door Lock Control SW LH
- Power Window Motor Front LH 13
- Ρ 14 Power Window Motor Front RH
- R Rear Combination Light LH
- Rear Combination Light LH
- R 10 Rear Combination Light RH
- Rear Combination Light RH R 11
- Rear Speaker LH R 12
- R Rear Speaker RH 13
- R Rear Window Defogger (+)
- R 17 Rear Window Defogger (-) Remote Control Mirror LH
- R 20
- Remote Control Mirror RH R 21
- Tension Reducer Solenoid LH Т
- Tension Reducer Solenoid RH
- Vanity Light LH
- 9 Vanity Light RH



LH

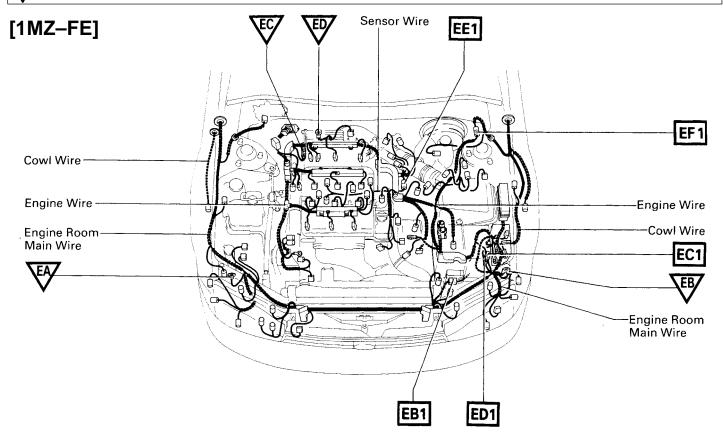
12 Front Door Speaker RH

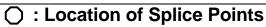
ELECTRICAL WIRING DIAGRAM

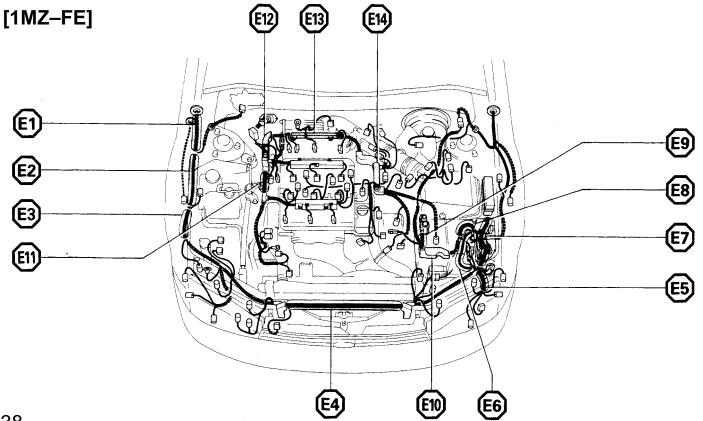
-Memo

□ : Location of Connector Joining Wire Harness and Wire Harness

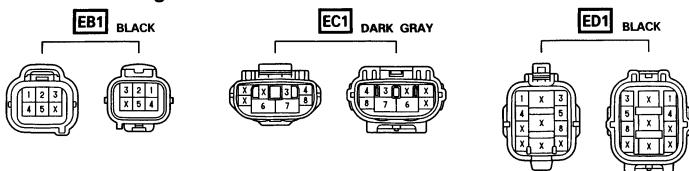
▽: Location of Ground Points

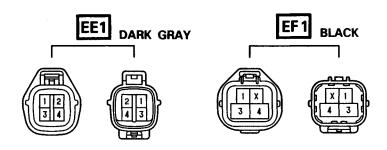






Connector Joining Wire Harness and Wire Harness

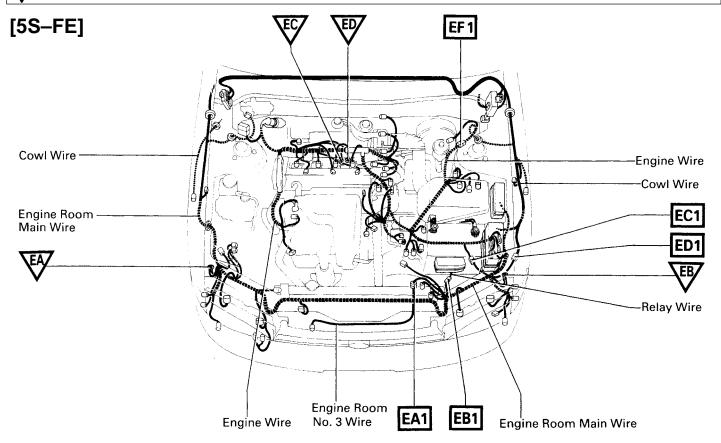




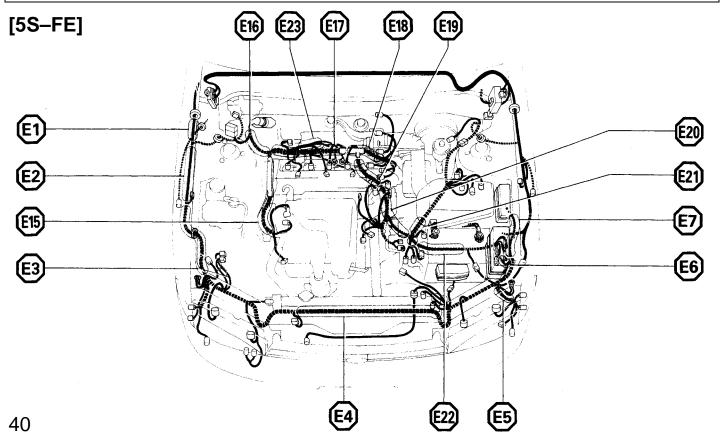
CODE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EB1	ENGINE ROOM MAIN WIRE AND RELAY WIRE (UNDER THE R/B NO. 5)
EC1	ENGINE WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)
ED1	COWL WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)
EE1	SENSOR WIRE AND ENGINE WIRE (SIDE OF FRONT CYLINDER HEAD)
EF1	ENGINE WIRE AND COWL WIRE (NEAR THE BRAKE MASTER CYLINDER)

□ : Location of Connector Joining Wire Harness and Wire Harness

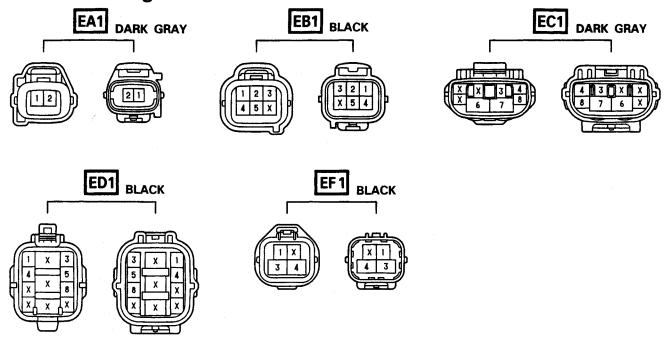
▽: Location of Ground Points



: Location of Splice Points

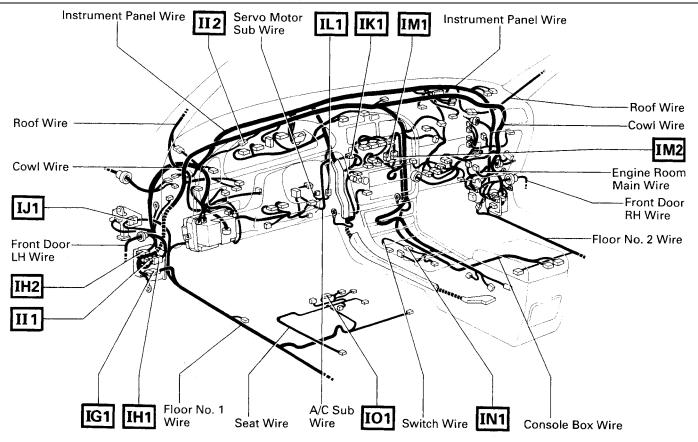


Connector Joining Wire Harness and Wire Harness

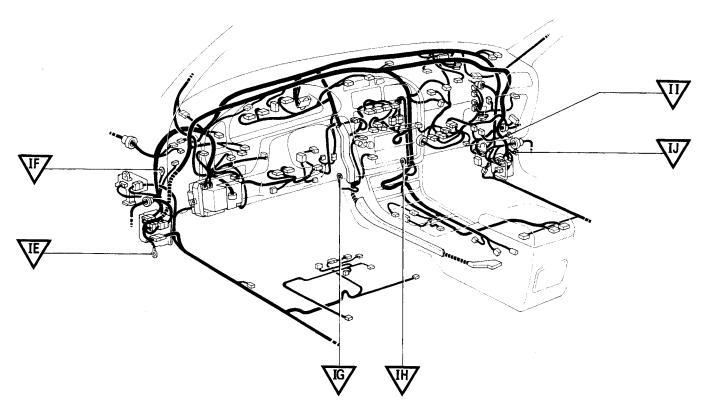


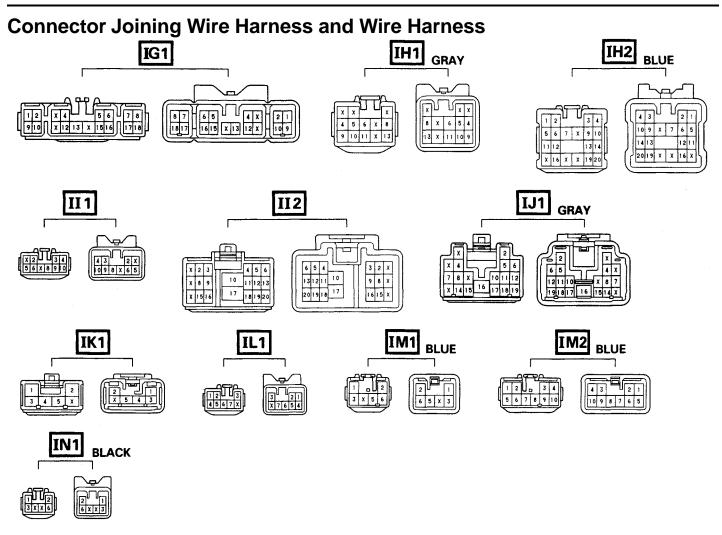
CODE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EA1	ENGINE ROOM MAIN WIRE AND ENGINE ROOM NO. 3 WIRE (RADIATOR FAN SHROUD)
EB1	ENGINE ROOM MAIN WIRE AND RELAY WIRE (UNDER THE R/B NO. 5)
EC1	ENGINE WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)
ED1	COWL WIRE AND ENGINE ROOM MAIN WIRE (UNDER THE J/B NO. 1)
EF1	ENGINE WIRE AND COWL WIRE (NEAR THE BRAKE MASTER CYLINDER)

□ : Location of Connector Joining Wire Harness and Wire Harness



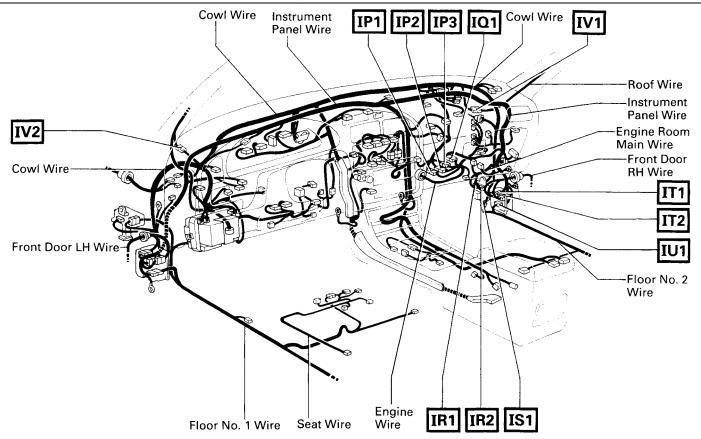
: Location of Ground Points



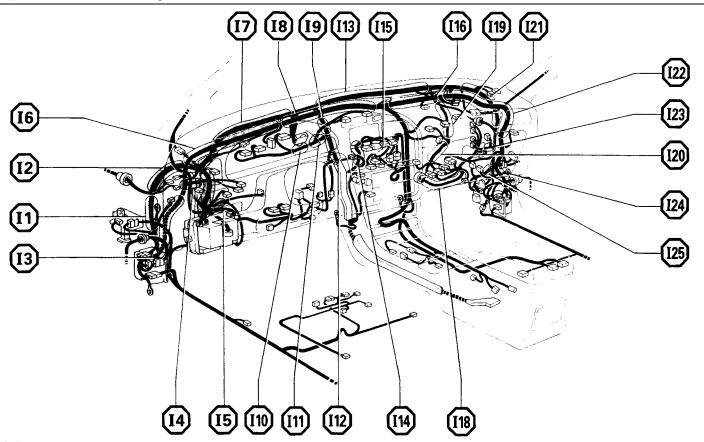


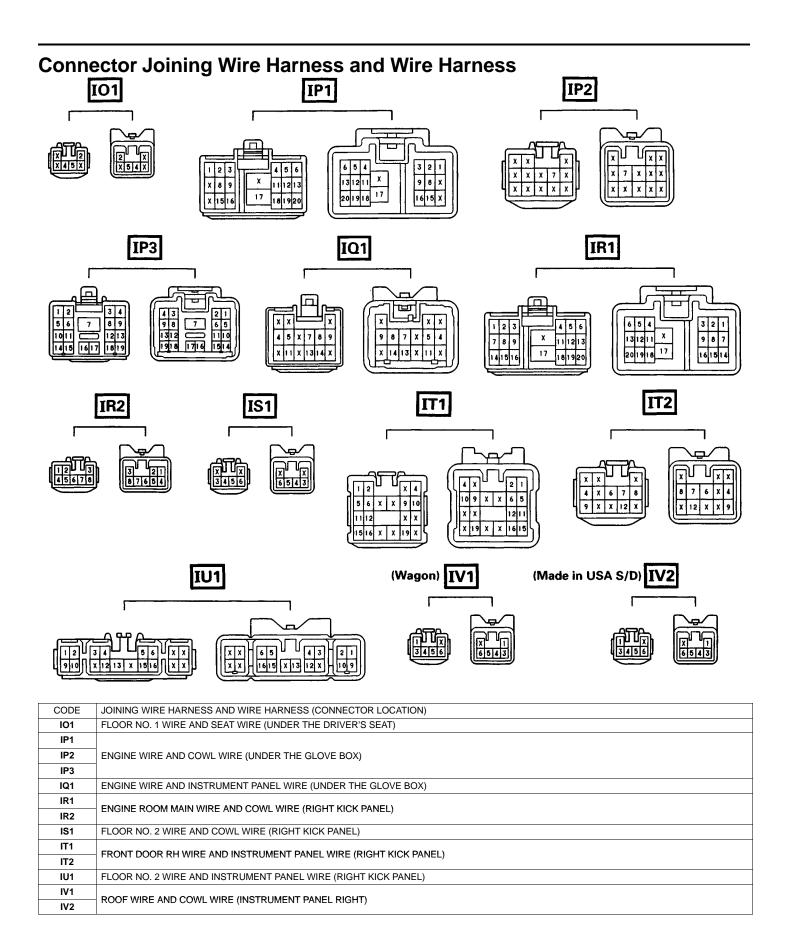
CODE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IG1	FLOOR NO. 1 WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH1	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IH2	PRONT DOOR LIT WIRE AND INSTRUMENT PANEL WIRE (LEFT RICK PANEL)
II1	COWL WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
II2	INSTRUMENT PANEL WIRE AND COWL WIRE (BEHIND COMBINATION METER)
IJ1	FLOOR NO. 1 WIRE AND COWL WIRE (LEFT KICK PANEL)
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)
IM1	INICTELIMENT DANIEL MUDE AND CONICOLE DOY MUDE (NIEAD THE DADIO AND DI AVED)
IM2	INSTRUMENT PANEL WIRE AND CONSOLE BOX WIRE (NEAR THE RADIO AND PLAYER)
IN1	INSTRUMENT PANEL WIRE AND SWITCH WIRE (UNDER THE INSTRUMENT PANEL CENTER)

☐ : Location of Connector Joining Wire Harness and Wire Harness



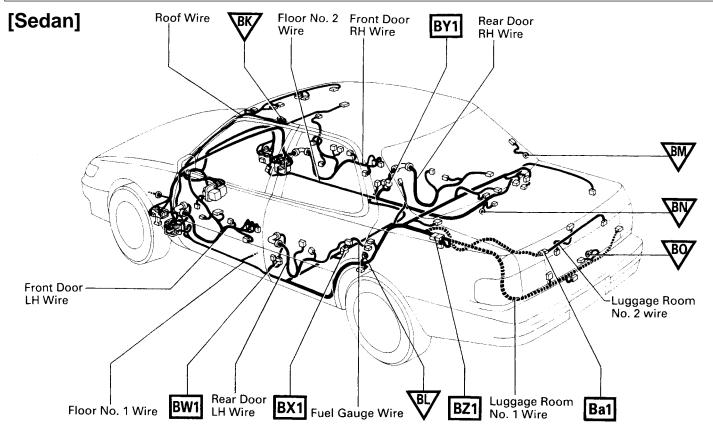
: Location of Splice Points



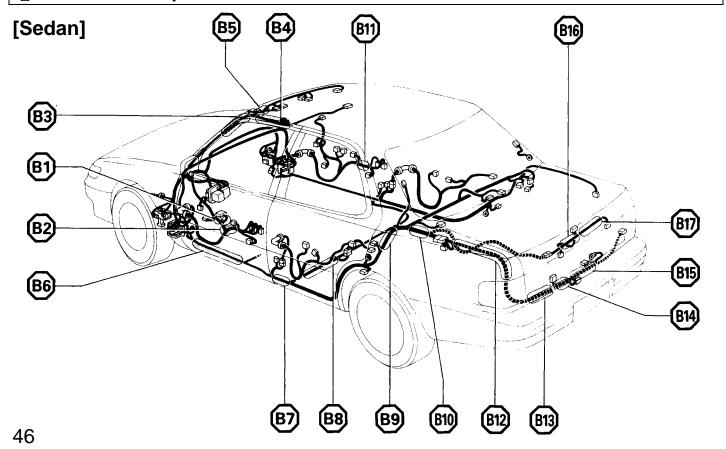


□ : Location of Connector Joining Wire Harness and Wire Harness

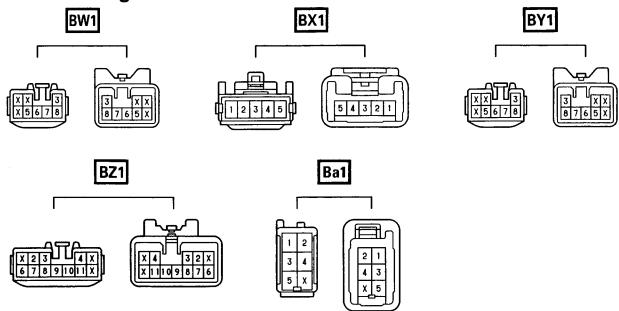
: Location of Ground Points



: Location of Splice Points



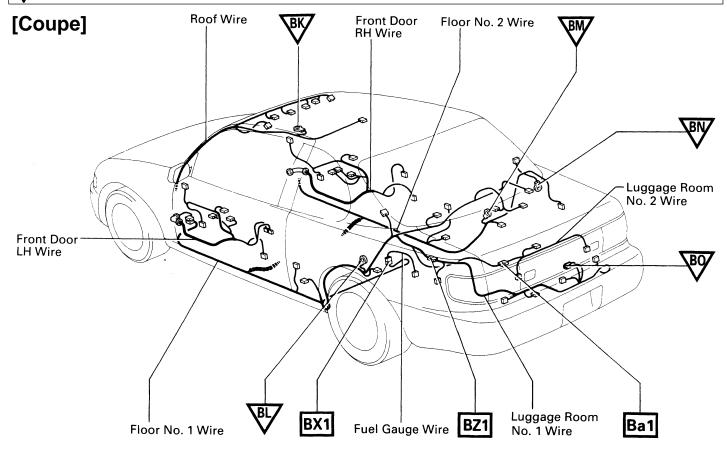
Connector Joining Wire Harness and Wire Harness



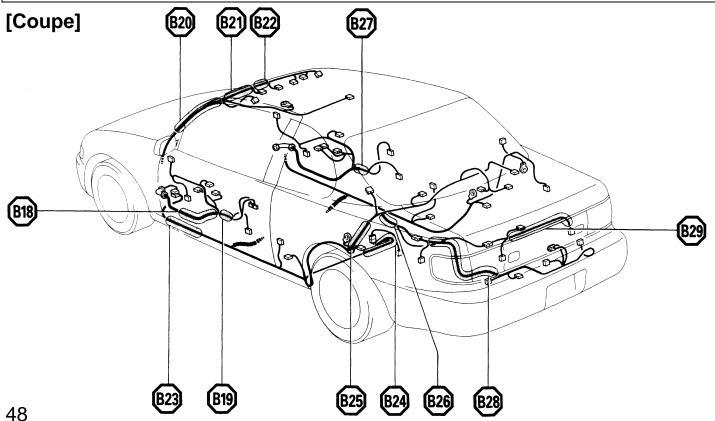
CODE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
BW1	REAR DOOR LH WIRE AND FLOOR NO. 1 WIRE (LEFT CENTER PILLAR)
BX1	FUEL GAUGE WIRE AND FLOOR NO. 1 WIRE (UNDER THE REAR SEAT CUSHION)
BY1	REAR DOOR RH WIRE AND FLOOR NO. 2 WIRE (RIGHT CENTER PILLAR)
BZ1	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE (LUGGAGE COMPARTMENT LEFT)
Ba1	FLOOR NO. 1 WIRE AND LUGGAGE ROOM NO. 2 WIRE (LUGGAGE COMPARTMENT DOOR)

□ : Location of Connector Joining Wire Harness and Wire Harness

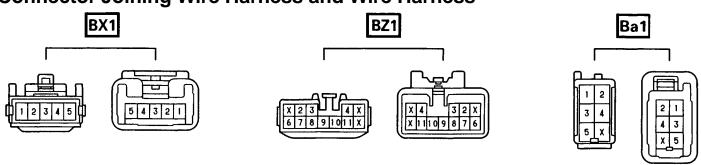
 ∇ : Location of Ground Points







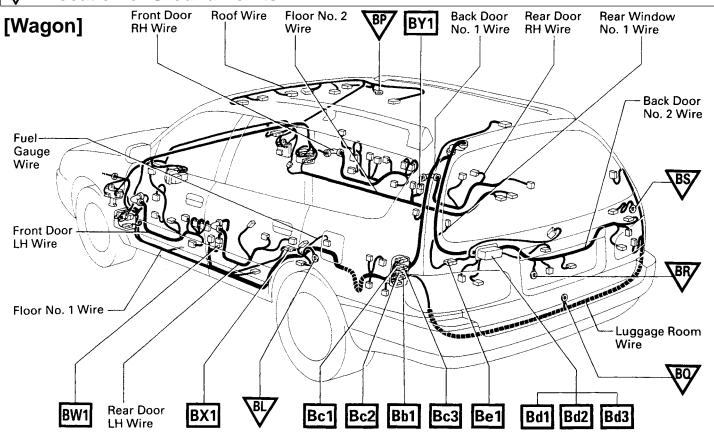
Connector Joining Wire Harness and Wire Harness



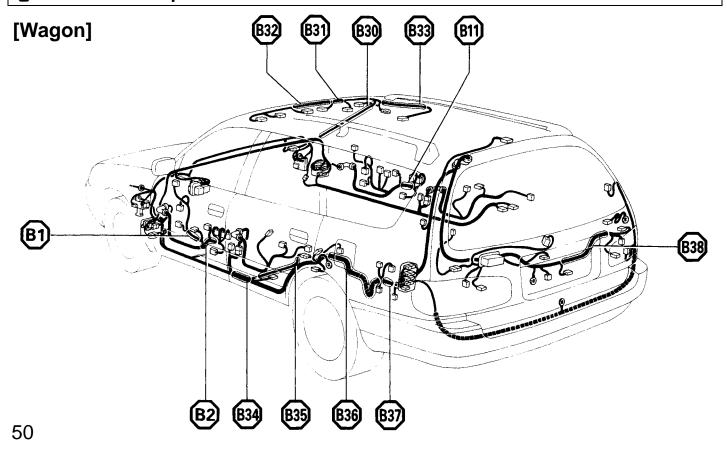
CODE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
BX1	FUEL GAUGE WIRE AND FLOOR NO. 1 WIRE (UNDER THE REAR SEAT CUSHION)
BZ1	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE (LUGGAGE COMPARTMENT LEFT)
Ba1	FLOOR NO. 1 WIRE AND LUGGAGE ROOM NO. 2 WIRE (LUGGAGE COMPARTMENT DOOR)

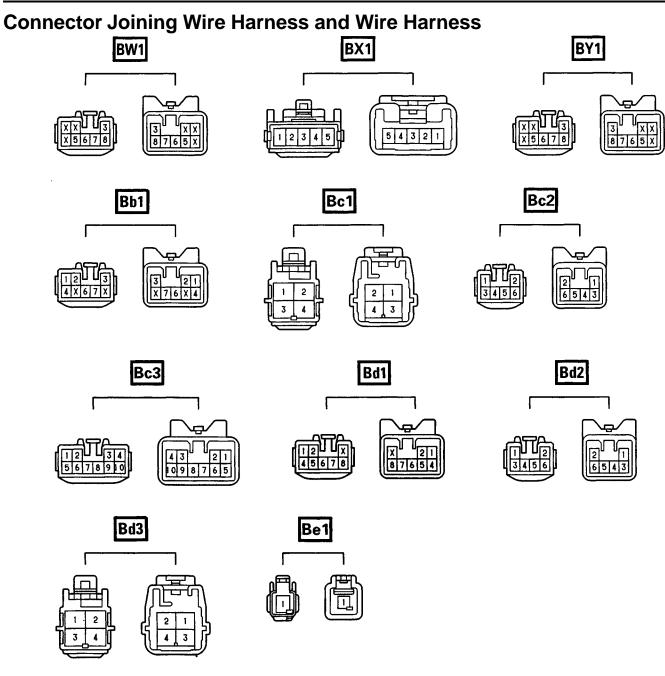
☐ : Location of Connector Joining Wire Harness and Wire Harness

 ∇ : Location of Ground Points



: Location of Splice Points

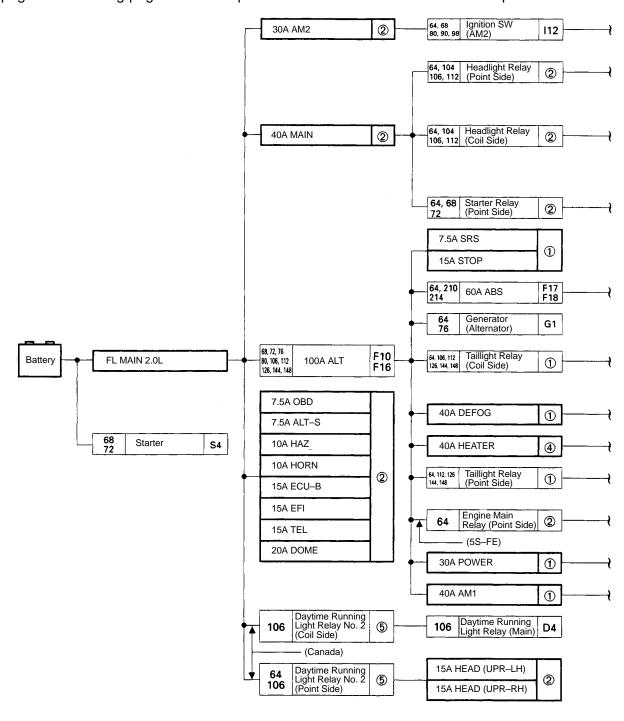




CODE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
BW1	REAR DOOR LH WIRE AND FLOOR NO. 1 WIRE (LEFT CENTER PILLAR)
BX1	FUEL GAUGE WIRE AND FLOOR NO. 1 WIRE (UNDER THE REAR SEAT CUSHION)
BY1	REAR DOOR RH WIRE AND FLOOR NO. 2 WIRE (RIGHT CENTER PILLAR)
Bb1	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE (LUGGAGE COMPARTMENT LEFT)
Bc1	
Bc2	BACK DOOR NO. 1 (WIRE AND FLOOR NO. 1 WIRE (LEFT QUARTER TRIM INNER)
Bc3	
Bd1	
Bd2	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE (BACK DOOR LEFT)
Bd3	
Be1	REAR WINDOW NO. 1 WIRE AND BACK DOOR NO. 2 WIRE (BACK DOOR LEFT)

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.

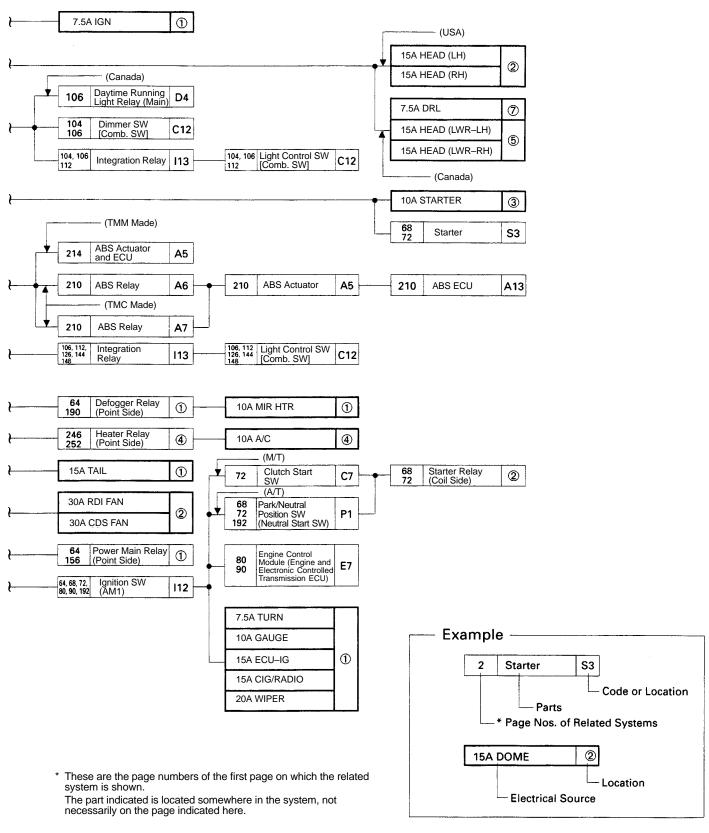


[LOCATION] (1) : J/B No. 1 (See page 20)

(3) : R/B No. 1 (See page 25)

(2) : J/B No. 2 (See page22)

(7) : R/B No. 7 (See page 27)



(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	242	252	1			214	210	210	246 252	252	126 252	210	210	246	246 252	126	222 224	152	236	166	246 252	246 252	246 252	220	160 166	220
Location		Parts Code or Location CB or Fuse			A/C Magnetic Clutch and Lock Sensor	(ABS Actuator and ECU (TMM Made)		ABS Relay	A/C Amplifier	A/C Evaporator Temp. Sensor	A/C SW	ABS ECU (TMC Made)	ABS ECU (TMC Made)	Air Inlet Control Servo Motor	Air Vent Mode Control Servo Motor	Ashtray Illumination	Auto Antenna Motor and Relay	Back-Up Light SW (M/T)	Brake Fluid Level SW	Back Door Lock Control SW	Blower Motor	Blower Resistor	Blower SW	Buckle SW LH	Back Door Lock Motor (W/G)	Buckle SW RH
		CB 01 Fuse	A1	A2	A3	A4	ΑΑ	.5	A6	Α7	A10	A11	A12	A13	A14	A16	A17	A18	A21	В1	B2	ВЗ	B4	B5	B6	B7	В9	B10
	40A	AM1	<u> </u>	ļ	<u> </u>			L		<u></u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>					<u> </u>	ļ <u> </u>	<u> </u>		<u> </u>		<u> </u>	ļ	igsquare
	15A	CIG/RADIO											<u> </u>						•									\sqcup
	40A	DEFOG											L															1
	15A	ECU-1G		•	<u> </u>	•							Ĺ	•					•				L_			•		•
	10A	GAUGE	<u> </u>	•	•	•	•	•	•	•	•	•		•	•	•	•			•	•							<u> </u>
	7.5A	IGN		<u> </u>																			ļ	ļ.,				
1	10A	MIR-HTR		<u> </u>	<u> </u>		_															ļ	<u> </u>					\sqcup
	30A	POWER	ļ		ļ										ļ							•	<u> </u>				•	
	7.5A	SRS	<u> </u>	<u> </u>								ļ							_				<u> </u>					
	15A	STOP	<u> </u>		ļ	•		•							•								L					
	15A	TAIL	<u> </u>		<u> </u>								•					•							•			1
	7.5A	TURN	<u> </u>																				<u> </u>					\sqcup
	20A	WIPER		<u> </u>	<u> </u>											_										<u></u>		
	30A	AM2		<u> </u>	L_											_							_	<u> </u>				
	7.5A	ALT-S		<u> </u>																			ļ					
	30A	CDS FAN	•		ļ											L							ļ	<u> </u>				
	20A	DOME	ļ											ļ				L	•				ļ	<u> </u>				
	15A	ECU-B		_	<u> </u>									•										L				
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	15A	HEAD (LWR-RH)	ļ		1								_											ļ. <u>. </u>				
	15A	HEAD (UPR-LH)	<u> </u>		<u> </u>											<u> </u>						ļ		ļ	ļ			
	15A	HEAD (UPR-RH)	L_	_	<u>L</u>	<u> </u>					<u></u>	<u> </u>											<u></u>		<u> </u>			oxdot
	15A	HEAD LH	<u> </u>	-	<u> </u>							<u> </u>			<u> </u>					<u> </u>			<u> </u>		<u> </u>	L		
	15A	HEAD RH		<u> </u>	<u> </u>							<u> </u>		-	<u></u>							<u> </u>	<u> </u>	ļ	<u> </u>		<u> </u>	Ш
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	40A	MAIN	<u> </u>	_	<u> </u>	-						 		ļ		<u> </u>		ļ					-		<u> </u>	_	ļ	\sqcup
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	40A	HEATER	_			-					ļ	-			<u> </u>	ļ			<u> </u>			<u> </u>	•	•	•			Ш
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^{*} 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.

192	177	189	126	189	68 72	192	114 118	236	210 214	126	130 134 138 140	170	76	104 106	80 90 98	120 124 144 148	236	177	126 198 204	173	114 118	104 106 112 126 144 148	184 186	244	192	80 90 98 214	90 98 192 204 214	106 236	80 90 98	130 134 138 140	156 140	134 140
Cruise Control Actuator	Center Airbag Sensor Assembly	Cigarette Lighter	Cigarette Lighter Illumination	Clock	Clutch Start SW (M/T)	Combination Meter (Cruise Control Indicator Light)	Combination Meter (Turn Signal Indicator Light)	Combination Meter	Combination Meter (ABS Warning Light)	Combination Meter (Meter Illmination)	Combination Meter (Open Door Warning Light)	Combination Meter (Seat Belt Warning Light)	Combination Meter (Charge Warning Light)	Combination Meter (High Beam Indicator Light)	Combination Meter (Malfunction Indicator Light)	Combination Meter (Rear Light Warning Light)	Combination Meter	Combination Meter (SRS Warning Light)	Combination Meter (A/T Indicator Light)	Combination SW (Horn SW)	Combination SW (Turn Signal SW)	Combination SW (Light Control SW)	Combination SW Front Wiper and Washer SW)	Cooling Fan ECU (1MZ-FE)	Cruise Control ECU	Data Link Connector 1 (Check Connector)	Data Link Connector 2 (TDCL (Toyota Diagnostic Communication Link))	Daytime Running Light Relay (Main) (CANADA)	Diode (for Idle-Up)	Diode (for Courtesy)	Door Lock Control Relay	Diode (for Courtesy) (W/G)
C2	СЗ	C4	C5	C6	C7	С	8					C9						10	C11		C1	12	C13	C14	C16	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)

Parts	_								. —	, -					· · · · · ·			т			,		1	
Section OBJ or Fuse D12 D13 D14 D15 D16 D17 D16 D17 D20 D27 D22 D23 D24 D25 E2 E3 E5 E6 E7 E8 E9 40A AM1 15A GIG/RADIO 40A DEFOG			*Page Nos. of Related Systems	138	130 134 138 140	130 134 138 140	130 134 138 140	130 138	160	160	160	160	160	160	160	80	220	198 220	220	242	198	90 98	80	80
40A AM1 15A CIG/RADIO 40A DEFOG 15A ECU-1G 10A GAUGE 7.5A IGN 10A MIR-HTR 30A POWER 7.5A SRS 15A STOP 15A TAIL 7.5A TURN 20A WIPER 30A AM2 7.5A ALT-S 30A CDS FAN 20A DOME 15A ECU-B 15A ECU-B 15A EFI 10A HAZ 11A HEAD (LWR-RH) 15A HEAD (LWR-RH) 15	Location		Code or Location	-		 			 -						1		-	├	-					
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40A DEFOG 15A ECU-1G 10A GAUGE 7.5A IGN ① 10A MIR-HTR 30A POWER 7.5A SRS 15A STOP 15A TAIL 7.5A TURN 20A WIPER 30A CIS FAN 20A ODME 15A ECU-B 15A ECU-B 15A ECU-B 15A HEAD (LWR-LH) 15A HEAD (LWR-RH) 15A HEAD (L		40A		ļ			<u></u>										<u> </u>	<u> </u>		· · · · · · · · · · · · · · · · · · ·		•		
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7.5A OBD ③ 10A STARTER ——————————————————————————————————		10A	HORN						<u> </u>															
③ 10A STARTER ④ 10A A/C 40A HEATER ⑦ 7.5A DRL ⑧ 100A ALT		40A	MAIN	ļ		ļ	L		<u> </u>	\sqcup														
④ 10A A/C 40A HEATER ⑦ 7.5A DRL ⑧ 100A ALT		7.5A	OBD													•								
(4) 40A HEATER (7) 7.5A DRL (8) 100A ALT	3	10A	STARTER	<u> </u>		ļ																•		
40A HEATER ⑦ 7.5A DRL ── 100A ALT ── ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■		10A	A/C	<u> </u>		<u> </u>	<u></u>																	
		40A	HEATER	<u> </u>									L											
(8) 100/7 /12	7	7.5A	DRL									L												
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^{*} These are the page numbers of the first page on which the related system is shown.

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80 90 98 198 204	144 148	144 148	144 148	144 148	114 118	114 118	184	80 90 98 236	76	126	126	104	106	104	106	104	106	104	106	173	173	114 118 126	126 246	252	80	120 124	80	80	80 90 98	68 72 80 98 236	72	80
Engine Control Module (Engine and Electronic Controlled Transmission ECU)	Front Clearance Light LH	Front Clearance Light RH	Front Side Marker LH	Front Side Marker RH	Front turn Signal Light LH	Front turn Signal Light RH	Front Wiper Motor	Fuel Pump and Sender	Generator (Alternator)	Glove Box Light	Glove Box Light SW	Headlight Hi LH (USA)	Headlight Hi LH (CANADA)	Headlight Hi RH (USA)	Headlight Hi RH (CANADA)	Headlight Lo LH (USA)	Headlight Lo LH (CANADA)	Headlight Lo RH (USA)	Headlight Lo RH (CANADA)	Horn LH	Horn RH	Hazard SW	Heater Control SW (for Push Control SW Type)	Air Vent Mode Control SW (for Lever Control SW Type)	Heated Oxygen Sensor (Bank 1 Sensor 2)	High Mount Stop Light	Heated Oxygen Sensor (Bank 1 Sensor 1) (1MZ-FE)	Heated Oxygen Sensor (Bank 2 Sensor 1) (1MZ-FE)	Idle Air Control Valve (ISC Valve)	lgniter	Ignition Coil	Injector No. 1
E10	F3	F4	F5	F6	F7	F8	F9	F15	G2	G3	G4	Н	1	Н	2	F	13	Н	4	H5	Н6	H7	Н	18	Н9	H10	H11	H12	l1	l2	13	14
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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	80	80	80	80	80	130 134 138 140	68 72 80	106 112 120 126 130 140 144 170	130 134 138 140	68 80	68 80	68 80	68 80	68 80	68 80	76 90 98 114 118 120 130 134 138 170 192 210 214 224 246 252	80 126 154 156 182 189 190 198 204 236	130 134 154 156 160 168 182 198 204 214 222 224 226 228 230 234 236	177
Location		Parts Code or Location	Injector No. 2	Injector No. 3	Injector No. 4	Injector No. 5 (1MZ-FE)	Injector No. 6 (1MZ-FE)	-	Ignition SW and Unlock Warning SW	Integration Relay	Interior Light	Ignition Coil No. 1 (1MZ-FE)	Ignition Coil No. 2 (1MZ-FE)	Ignition Coil No. 3 (1MZ-FE)	Ignition Coil No. 4 (1MZ-FE)	Ignition Coil No. 5 (1MZ-FE)	Ignition Coil No. 6 (1MZ-FE)	Junction Connector	Junction Connector	 	Junction Connector (for Airbag System)
		CB or Fuse	15	16	17	18	19	111	112	l13	l14	116	117	118	119	120	121	J1	J2	J3	J4
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^{*} These are the page numbers of the first page on which the related system is shown.

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Junction Connector (W/G)	Junction Connector (1MZ-FE)	Junction Connector (1MZ-FE)	Key Interlock Solenoid	License Plate Light	Light Failure Sensor	Luggage Compartment Light	Luggage Compartment Light SW	Moon Roof Control Relay	Moon Roof Control SW and Personal Light (w/ Moon Roof) (EX. W/G)	Moon Roof Limit SW (EX. W/G)	Moon Roof Motor (EX. W/G)	Mass Air Flow (Air Flow Meter) (1MZ-FE)	Noise Filter (for Ignition System)	Noise Filter (for Stop Light)	Noise Filter (for Stop Light)	Oil Pressure SW	O/D Main SW and A/T Indicator Light (Shift Lever)	Park/Neutral Position SW (Neutral Start SW) (A/T)	Parking Brake SW (for 1MZ-FE)	Parking Brake SW (for 5S-FE)	Power Seat Control SW	Power Seat Motor (for Front Vertical Control)	Power Seat Motor (for Rear Vertical Control)	Power Seat Motor (for Slide control)	Power Seat Motor (for Reclining Control)	Power Window Control SW Front RH	Power Window Control SW Rear LH (EX. C/P)	Power Window Control SW Rear RH (EX. C/P)	Power Window Master SW and Door Lock control SW LH
J5	J6	J7	K3	L1	L2	L3	L4	M2	МЗ	M4	M5	М6	N1	N2	N3	01	O5	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
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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	156	156	156	156	242	126	126 222 224 228 234	126 190	154	126	120 124	144 148	114 148	120 124	144 148	152	120 124	144 148	114 118	144 148	120 124	152	190	190	190
Location		Parts Code or Location	Power Window Motor Front LH		1	Power Window Motor Rear RH (EX. C/P)		Radio and Player (w/ CD Player)	Radio and Player (w/o CD Player)	Rear Window Defogger SW	Remote Control mirror SW		Stop Light LH [Rear Comb. Light LH]	Taillight LH [Rear Comb. Light LH]	Rear Turn Signal Light LH [Rear Comb. Light LH]	Stop Light LH [Rear Comb. Light LH]		Back-up Light LH [Rear Comb. Light LH]		Taillight RH [Rear Comb. Light RH]	Rear Turn Signal Light RH [Rear Comb. Light RH]	Taillight RH [Rear Comb. Light RH]		L		-	Ь
	 -	CB or Fuse	P13	P14	P15	P16	R1	R2	R3	R5	R6	R7		R8			R9			R10	т .	<u> </u>	R11		R16	R1	7
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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 (F10, F17 See on page 28 29)

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Rear Wiper Motor (W/G)	Rear Wiper Relay (W/G)	Remote Control Mirror LH	Remote Control Mirror RH	Starter (1MZ-FE)	Shift Lock ECU	Stereo Component Amplifier	Stereo Component Amplifier	Stop Light SW	VSV (for A/C Idle-Up)	VSV (for EGR System) (1MZ-FE)	VSV (for Fuel Pressure Up)	VSV (for Intake Air Control) (1MZ–FE)	Vehicle Speed Sensor (Speed Sensor)	Vanity Light LH	Vanity Light RH	Washer Motor	Water Temp. Sender	Diode	Noise Filter	Defogger Relay (Coil Side)	Defogger Relay (Point Side)	Power Main Relay (Coil Side)	Power Main Relay (Point Side)	Taillight Relay (Coil Side)	Taillight Relay (Point Side)	Starter Relay (Point Side)	Starter Relay (Coil Side)	EFI Main Relay (Coil Side)	EFI Main Relay (Point Side)	Headlight Relay (Coil Side)
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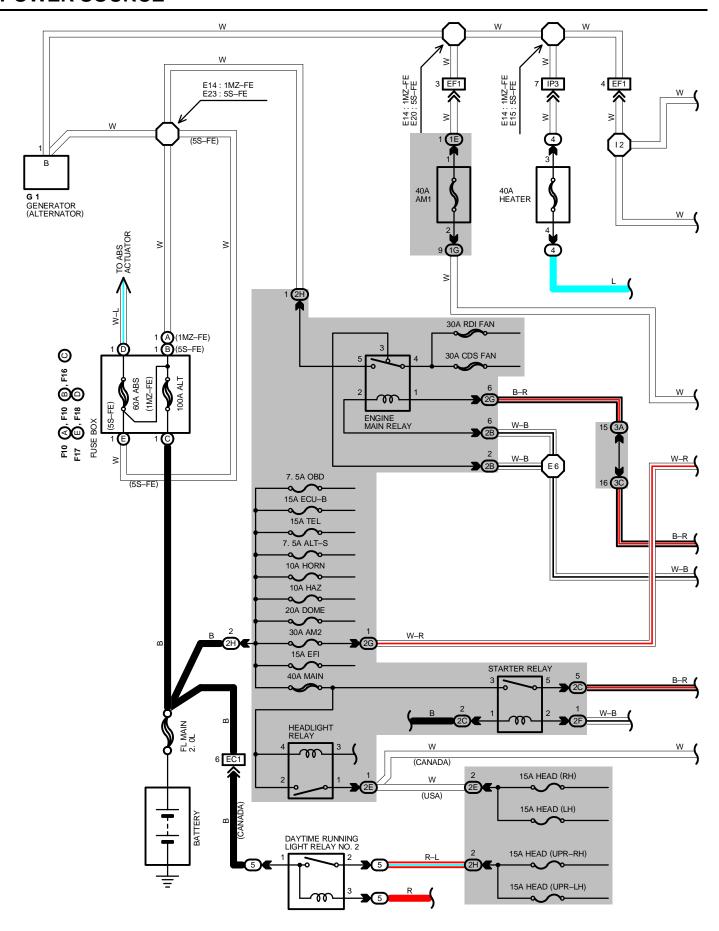
^{(4) :} R/B No. 4 (See page 25) (5) : R/B No. 5 (See page 26) (6) R/B No. 6 (See Page 26)

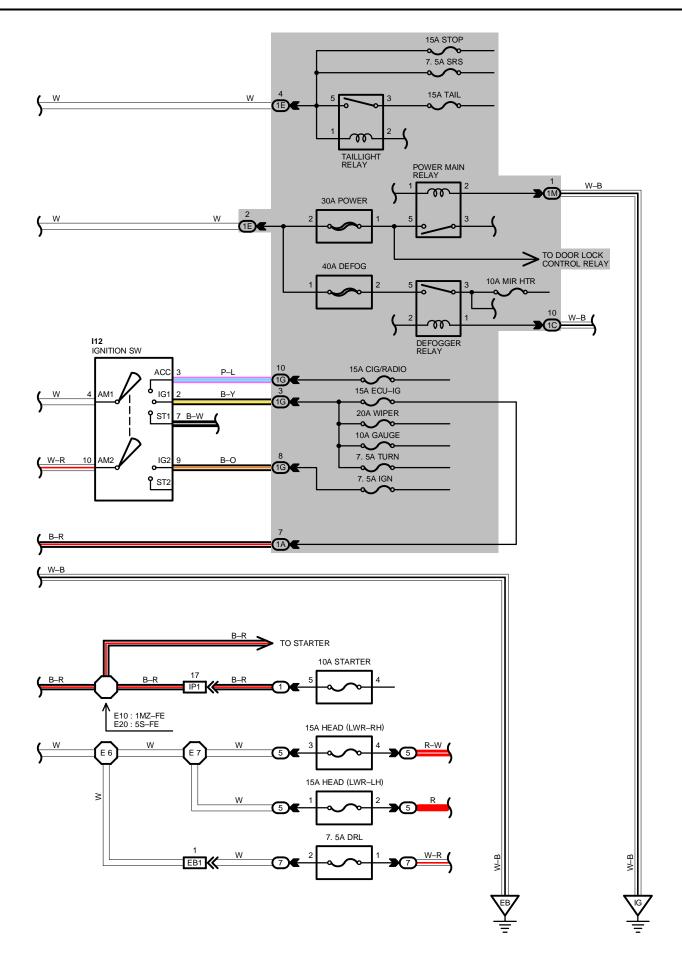
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		*Page Nos. of Related Systems					110								98	98		
		Trouble Options			(e)	<u></u>									ide)	ide)	Daytime Running Light Relay No. 3 (Coil Side)	No. 4
	\ \	Parts		ide)	Radiator Fan Relay (Point Side)	Radiator Fan Relay (Coil Side)		<u></u>		2	2	က	lay	ay	Circuit Opening Relay (Coil Side)	Circuit Opening Relay (Coil Side)	elay	elay
\	\			Headlight Relay (Point Side)	(Poi	SO.		Heater Relay (Point Side)	Heater Relay (Coil Side)	Radiator Fan Relay No. 2 (Coil Side)	Š	Š.	A/C Magnetic Clutch Relay (Coil Side)	A/C Magnetic Clutch Relay (Point Side)	3y (C) %	Jht R	Jht F
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-Memo





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)

ENGINE MAIN RELAY

4–5 : CLOSED WITH IGNITION SW AT \mathbf{ON} OR \mathbf{ST} POSITION

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)

I12 IGNITION SW

4--3 : CLOSED WITH IGNITION KEY AT $\pmb{\mathsf{ACC}}$ OR $\pmb{\mathsf{ON}}$ POSITION 10-9, 4-2 : CLOSED WITH IGNITION KEY AT $\pmb{\mathsf{ON}}$ OR $\pmb{\mathsf{ST}}$ POSITION

: PARTS LOCATION

CC	DDE	SEE PAGE	CO	DE	SEE PAGE	CODE	SEE PAGE
F10	Α	28	F17	Е	28 (1MZ-FE), 30 (5S-FE)	12	33
FIU	В	30	F18	D	28 (1MZ-FE), 30 (5S-FE)		
F16	С	28 (1MZ-FE), 30 (5S-FE)	G	1	28 (1MZ-FE), 30 (5S-FE)		

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
1	25	R/B NO. 4 (LEFT KICK PANEL)
4	25	R/B NO. 4 (RIGHT 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)
1A		
1C		
1E	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1G		
1 M		
2B	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	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2F	00	COMILIMIDE AND UP NO CUENCINE COMPARTMENT LEET
2G	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2H	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
3A	24	COMUNIDE AND UD NO 2 (PELIND COMBINATION METER)
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

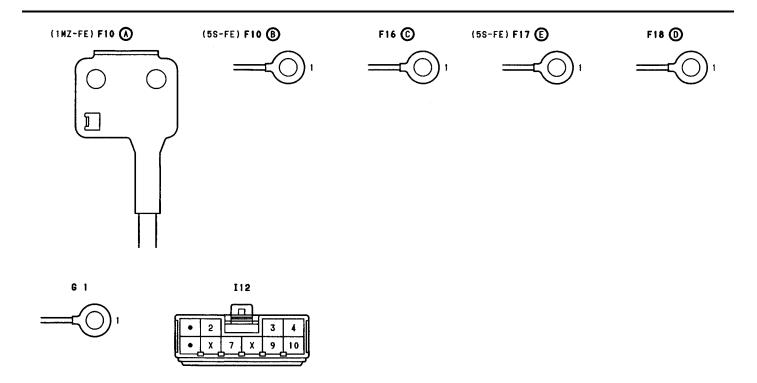
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)							
EB1	38 (1MZ-FE)	ENCINE DOOM MAIN WIDE AND DELAY WIDE							
EBI	40 (5S-FE)	ENGINE ROOM MAIN WIRE AND RELAY WIRE							
EC1	38 (1MZ-FE)	- ENGINE WIRE AND ENGINE ROOM MAIN WIRE							
ECI	40 (5S-FE)	NE WIRE AND ENGINE ROOM MAIN WIRE							
EF1	38 (1MZ-FE)								
EFI	40 (5S-FE)	FAICINE WIRE AND COM WIRE							
IP1	44	ENGINE WIRE AND COWL WIRE							
IP3	44								

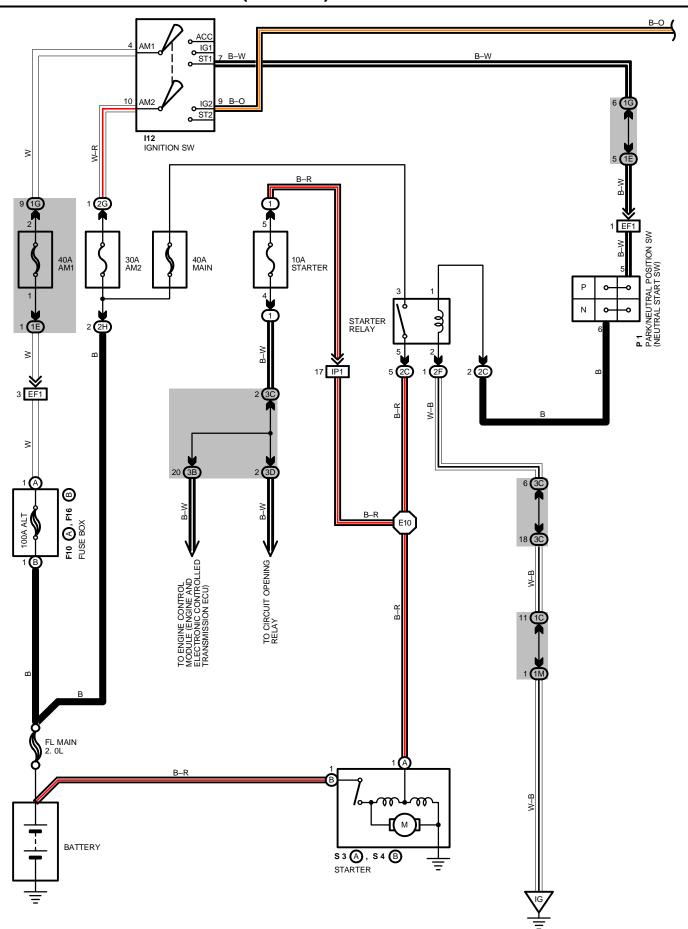
: GROUND POINTS

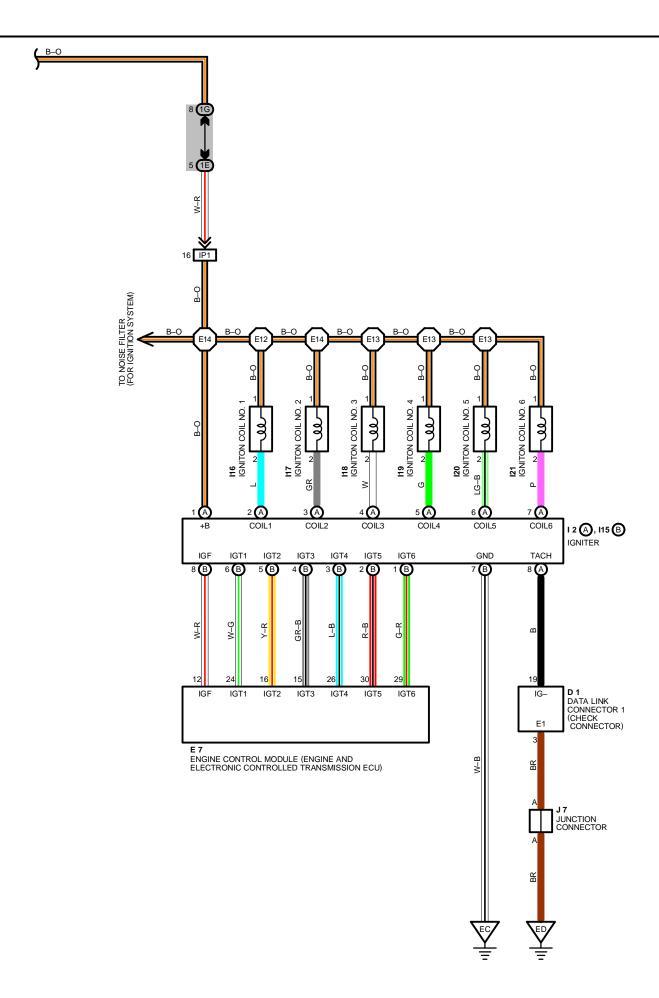
CODE	SEE PAGE	GROUND POINTS LOCATION
EB	38 (1MZ-FE)	FRONT LEFT FENDER
ЕВ	40 (5S-FE)	FRONT LEFT FENDER
IG	42	INSTRUMENT PANEL BRACE LH

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E.e.	38 (1MZ-FE)		E14	38 (1MZ-FE)	
E 6	40 (5S-FE)	ENGINE ROOM MAIN WIRE	E15		ENGINE WIRE
E 7	38 (1MZ-FE)	ENGINE ROOM MAIN WIRE	E20	40 (5S-FE)	ENGINE WIRE
E /	40 (5S-FE)		E23		
E10	38 (1MZ-FE)	ENGINE WIRE	12	44	COWL WIRE







STARTING AND IGNITION (1MZ-FE)

SERVICE HINTS -

I12 IGNITION SW

4-7: CLOSED WITH IGNITION SW AT ST POSITION

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

STARTER RELAY

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

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

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

: PARTS LOCATION

CO	DE	SEE PAGE	CO	DE	SEE PAGE	CC	DE	SEE PAGE		
D	1	28	I15	В	29	12	21	29		
E	7	32	I1	6	29	J	7	33		
F10	Α	28	I1	7	29	Р	1	29		
F16	В	28	I1	8	29	S 3	Α	29		
12	Α	29	I1	9	29	S 4	В	29		
I1	2	33	12	20	29					

: RELAY BLOCKS

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

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1C		
1E	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1G	20	COWL WIRE AIND 3/B NO. I (INSTRUMENT PAINEL LEFT)
1M		
2C	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2G	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2H	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2F	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

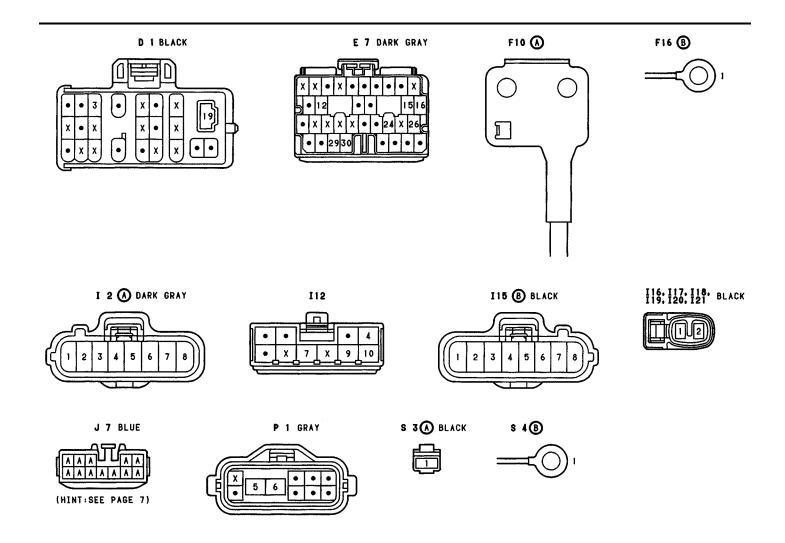
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EF1	38 (1MZ-FE)	
EFI	40 (5S-FE)	ENGINE WIRE AND COWL WIRE
IP1	44	

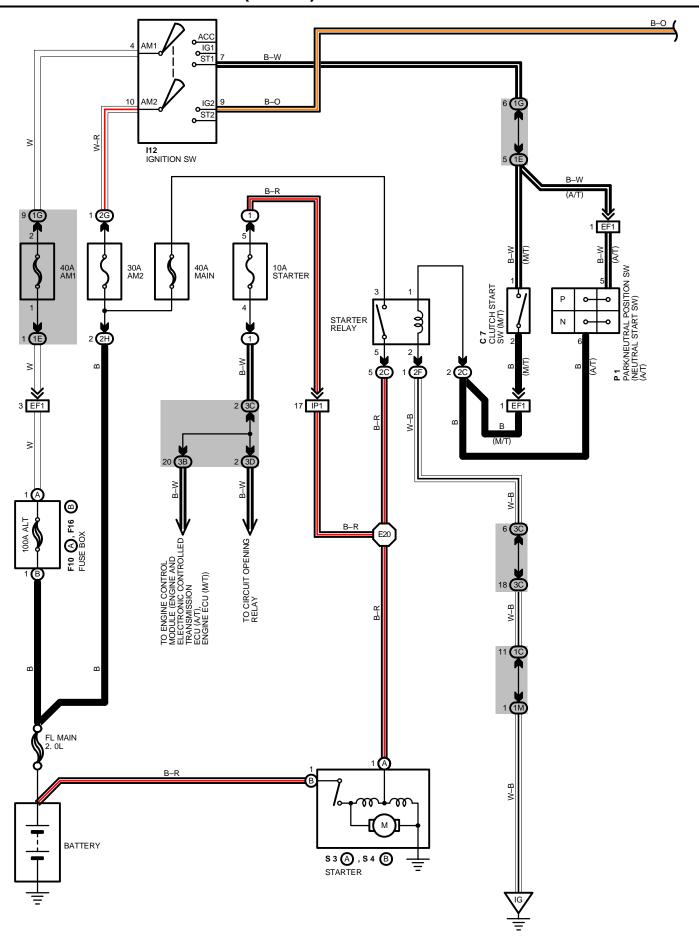
7 : GROUND POINTS

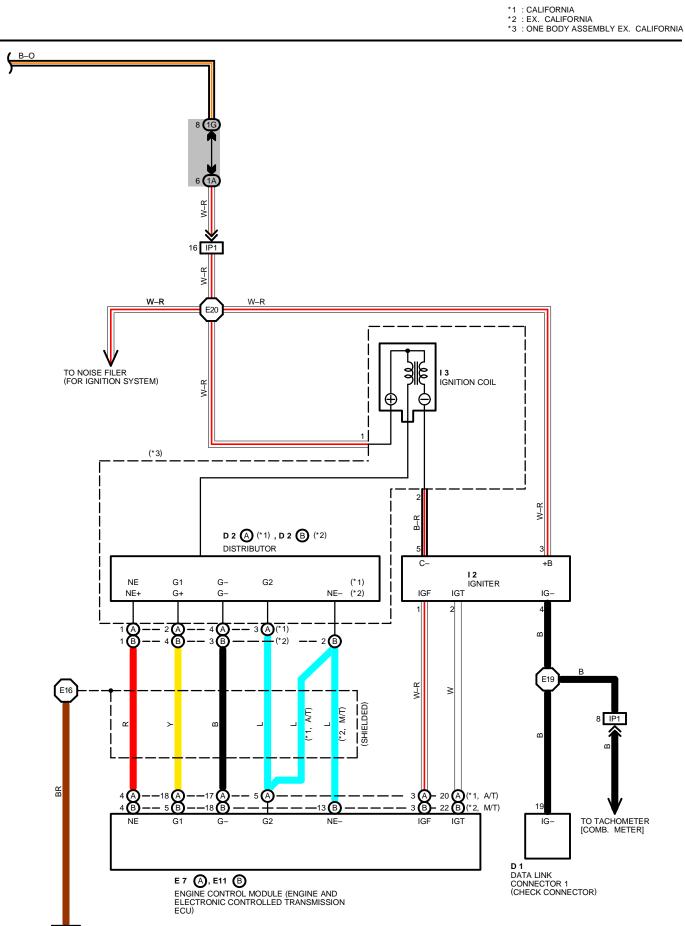
CODE	SEE PAGE	GROUND POINTS LOCATION	
EC	38 (1MZ-FE)	INTAKE MANIFOLD RH	
EC	40 (5S-FE)	INTAKE WANTOLD KIT	
ED	38 (1MZ-FE)	INTAKE MANIFOLD LH	
ED	40 (5S-FE)		
IG	42	INSTRUMENT PANEL BRACE LH	

: SPLICE POINTS

	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
	E10	20 (4M7 EE)	ENGINE WIRE	E13	38 (1M7_FF)	ENGINE WIRE
Ī	E12	36 (TWIZ-FE)	ENGINE WIRE	E14	36 (TMZ-FE)	ENGINE WIRE







STARTING AND IGNITION (5S-FE)

SERVICE HINTS -

I12 IGNITION SW

4-7: CLOSED WITH IGNITION SW AT ST POSITION

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

C7 CLUTCH START SW (M/T)

1–2 : CLOSED WITH CLUTCH PEDAL FULLY DEPRESSED

STARTER RELAY

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

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

STARTER

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

P1 PARK/NEUTRAL POSITION SW (NEUTRAL START SW) (A/T)

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

: PARTS LOCATION

CC	DE	SEE PAGE	CODE		SEE PAGE	CODE		SEE PAGE
C 7		32	E11	В	32	l12		33
D	1	30	F10	Α	30	Р	1	31
D 2	Α	30	F16	В	30	S 3	Α	31
02	В	30	ı	2	31	S 4	В	31
E 7	Α	32	I	3	31			

: RELAY BLOCKS

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

: 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)					
2F	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)					
2G	22	COWL WIRE AND 3/B NO. 2 (ENGINE COMPARTMENT LEFT)					
2H	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							

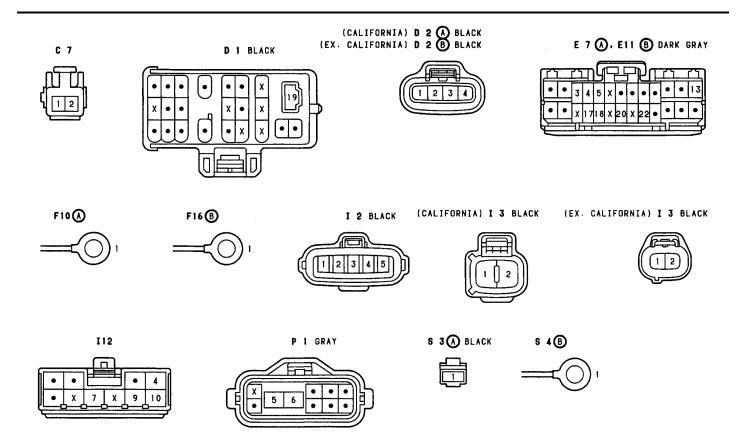
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

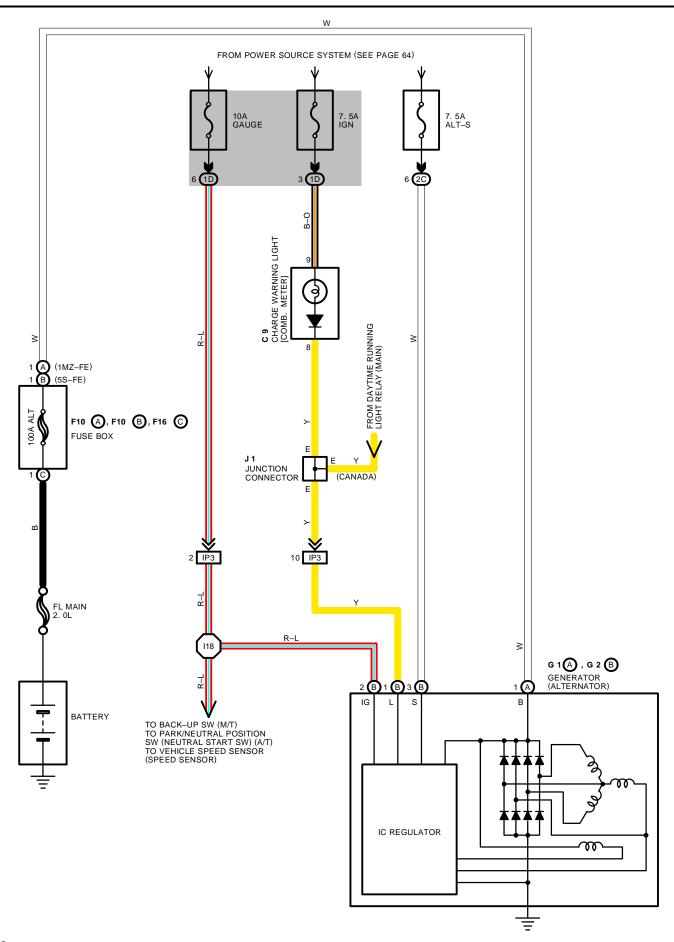
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EF1	38 (1MZ-FE)	
EF1	40 (5S-FE)	ENGINE WIRE AND COWL WIRE
IP1	44	

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION					
FC	38 (1MZ-FE)	INTAKE MANIFOLD RH					
EC	40 (5S-FE)	TAKE MANIFOLD RH					
IG	42	STRUMENT PANEL BRACE LH					

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E16	40 (5S-FE)	ENGINE WIRE	E20	40 (5S-FE)	ENGINE WIRE
E19	40 (35-FE)	ENGINE WIRE			





— SERVICE HINTS —

G 1(B) GENERATOR (ALTERNATOR)

(B) 3-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)

(B) 1-GROUND: 0-4 VOLTS WITH IGNITION SW AT ON POSITION AND ENGINE NOT RUNNING

: PARTS LOCATION

C	ODE	SEE PAGE	CODE		SEE PAGE	CODE	SEE PAGE
(C 9	32	F16	С	28 (1MZ-FE), 30 (5S-FE)	J 1	33
F10	Α	28 (1MZ-FE), 30 (5S-FE)	G 1	Α	28 (1MZ-FE), 30 (5S-FE)		
FIU	В	28 (1MZ-FE), 30 (5S-FE)	G 2	В	28 (1MZ-FE), 30 (5S-FE)		

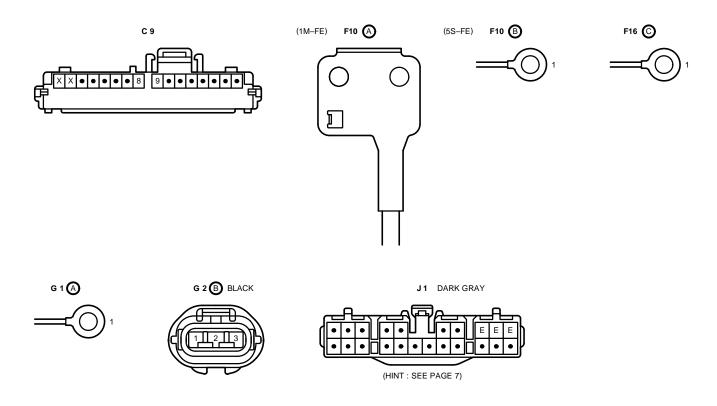
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IP3	44	ENGINE WIRE AND COWL WIRE

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	
I18	44	ENGINE WIRE				



ENGINE CONTROL (1MZ-FE)

SYSTEM OUTLINE

THIS SYSTEM UTILIZES AN ENGINE CONTROL MODULE (ENGINE AND ELECTRONIC CONTROLLED TRANSMISSION ECU) 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 MASS 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 OXL, OXR** AND **OXS** 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) (HTL, HTR AND HTS).
- (4) RPM SIGNAL SYSTEM
 - CAMSHAFT POSITION AND CRANKSHAFT POSITION ARE DETECTED BY THE CAMSHAFT POSITION SENSOR AND CRANKSHAFT POSITION SENSOR. CRANKSHAFT POSITION IS INPUT AS A CONTROL SIGNAL TO **TERMINAL G22+** OF 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 SP1** OF THE ENGINE CONTROL MODULE (ECU).
- (7) PARK/NEUTRAL POSITION SW (NEUTRAL START SW) SIGNAL SYSTEM
 - THE PARK/NEUTRAL POSITION SW (NEUTRAL START SW) DETECTS WHETHER THE SHIFT POSITION IS IN NEUTRAL OR 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 **TEMRINAL 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 MASS AIR FLOW (AIR FLOW METER) AND THE SIGNAL IS INPUT TO **TERMINAL VG** 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 SIGNALS ARE INPUT INTO **TERMINALS KNKR** AND **KNKL** 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 OUTPUTS TO TERMINALS IGT1, IGT2, IGT3, IGT4, IGT5 AND IGT6. 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 HTL, HTR** AND **HTS** AND CONTROL THE HEATER.

* IAC (IDLE AIR CONTROL (ISC)) SYSTEM

THE IAC (ISC) SYSTEM (ROTARY SOLENOID TYPE) INCREASES THE RPM AND PROVIDES IDLE 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 RSO AND RSC 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 EGR** 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.

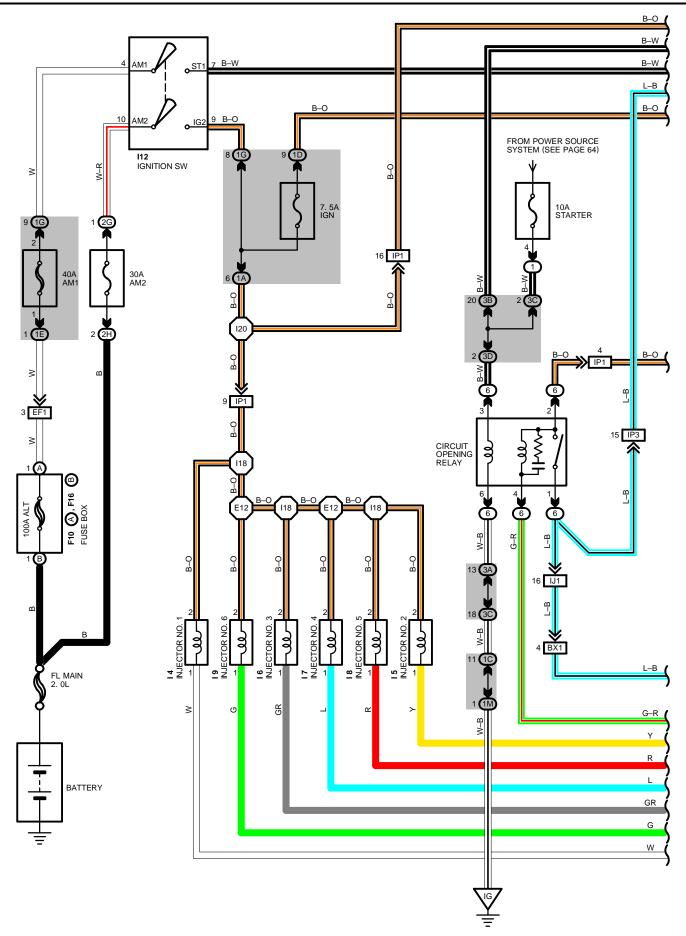
THE ENGINE CONTROL MODULE (ECU) JUDGES THE ENGINE SPEED BY THE SIGNALS ((4), (5)) FROM EACH SENSOR AND OUTPUTS SIGNALS TO THE **TERMINAL ACIS** TO CONTROL THE VSV (FOR OPENING AND CLOSING THE INTAKE CONTROL VALVE)

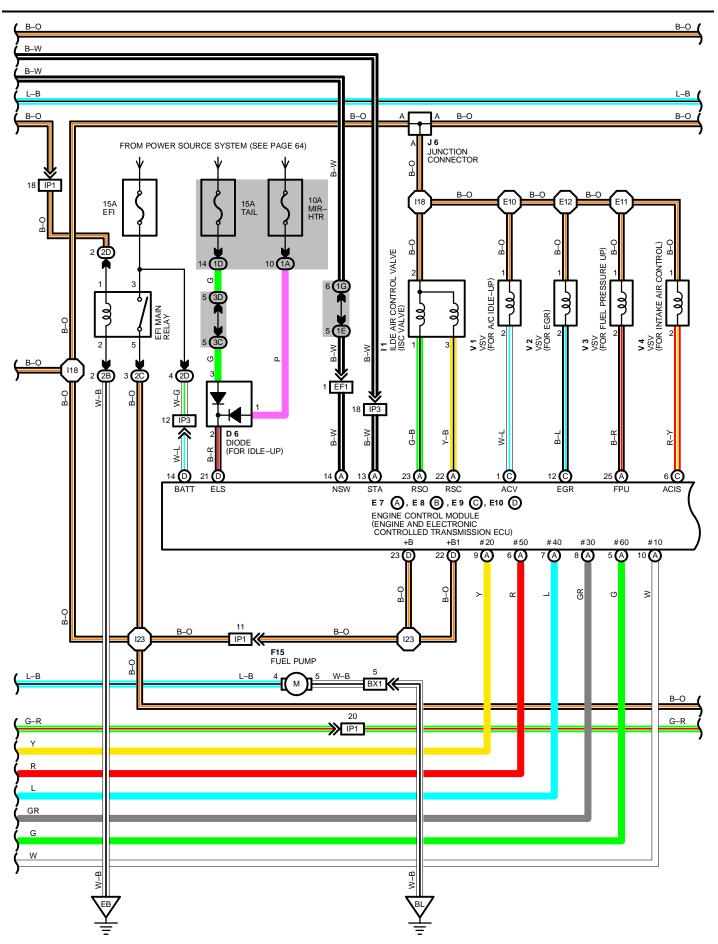
3. DIAGNOSIS SYSTEM

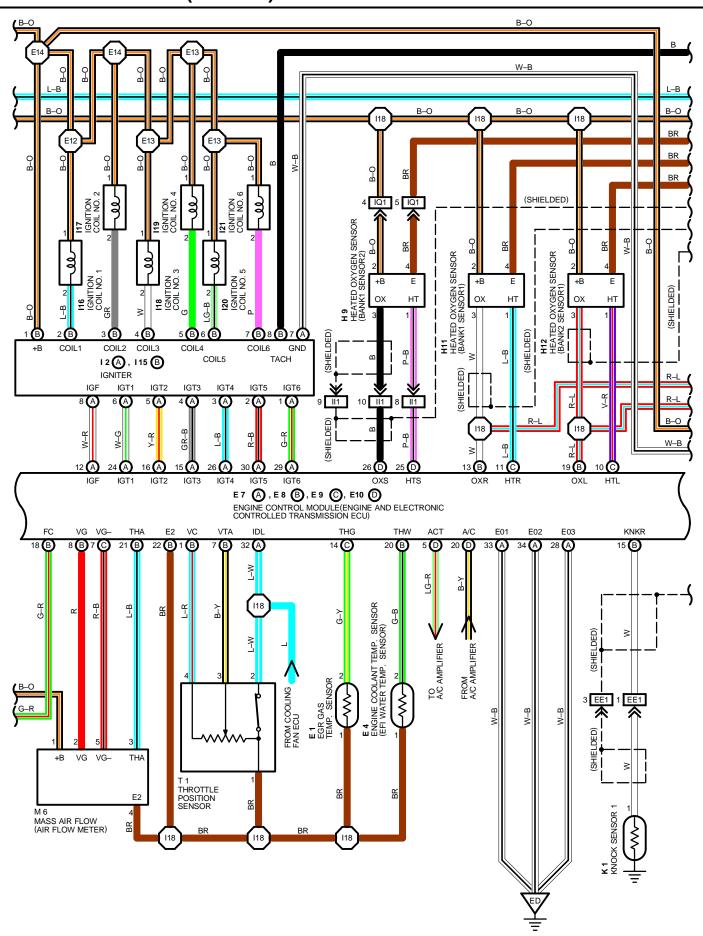
WITH THE DIAGNOSIS SYSTEM, WHEN THERE IS A MALFUNCTION IN THE ENGINE CONTROL MODULE (ECU) SIGNAL SYSTEM, THE MALFUNCTIONING SYSTEM IS RECORDED IN THE MEMORY.

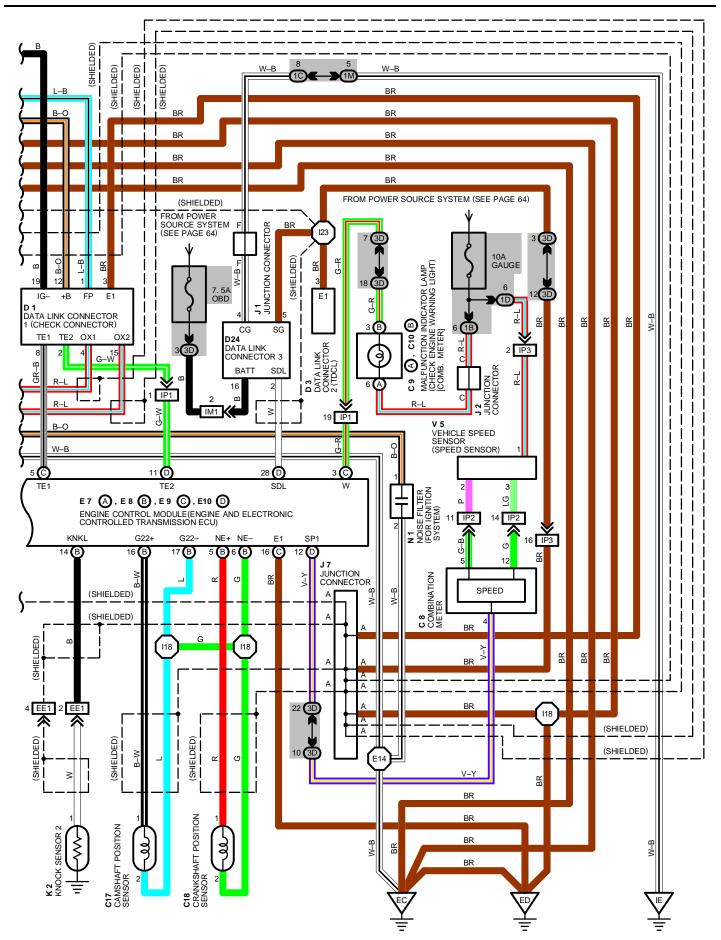
4. FAIL-SAFE SYSTEM

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.









ENGINE CONTROL (1MZ-FE)

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SERVICE HINTS
CIRCUIT OPENING RELAY
 2-1: 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
E 4 ENGINE COOLANT TEMP. SENSOR (EFI WATER TEMP. SENSOR)
  1–2 : 10.0 – 20.0 K\Omega (–20^{\circ}C, –4^{\circ}F)
      : 4.0 - 7.0 K\Omega (0°C, 32°F)
      : 2.0 - 3.0 \text{ K}\Omega (20^{\circ}\text{C}, 68^{\circ}\text{F})
      : 0.9 - 1.3 \text{ K}\Omega (40^{\circ}\text{C}, 104^{\circ}\text{F})
      : 0.4 - 0.7 \text{ K}\Omega \text{ (60°C, 140°F)}
      : 0.2 - 0.4 KΩ (80°C, 176°F)
E 7(A), E 8(B), E 9(C), E10(D) ENGINE CONTROL MODULE (ENGINE AND ELECTRONIC CONTROLLED
                             TRANSMISSION ECU)
 VOLTAGE AT ENGINE CONTROL MODULE (ECU) WIRING CONNECTOR
                   BATT - E1 : ALWAYS 9.0-14.0 VOLTS
                     +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 - E1 : 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 - E1 : ALWAYS 4.5-5.5 VOLTS (IGNITION SW AT ON POSITION)
                    VTA - E1 : 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)
                     VG - E1 : 4.0-5.5 VOLTS (IGNITION SW AT ON POSITION)
                    THA - E1 : 0.5-3.4 VOLTS (IGNITION SW ON AND INTAKE AIR TEMP. 20°C, 68°F)
                    THW - E1 : 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)
             IGT1, IGT2, IGT3
         IGT4, IGT5, IGT6 - E1 : PULSE GENERATION (ENGINE IDLING)
                     IGF - E1 : 4.5-5.5 VOLTS (IGNITION SW AT ON POSITION)
                                PULSE GENERATION (ENGINE IDLING)
                   G22+ - G- : PULSE GENERATION (ENGINE IDLING)
                    NE+ - G- : PULSE GENERATION (ENGINE IDLING)
               RSC, RSO - E1 : PULSE GENERATION (ENGINE IDLING AND A/C OPERATION)
          OXS, OXL, OXR - E1 : PULSE GENERATION (MAINTAIN ENGINE SPEED AT 2500 RPM FOR TWO MINUTES AFTER WARMING UP)
         \textbf{HTS, HTL, HTR} - \textbf{E01} \hspace{0.2cm} : \hspace{0.2cm} \textbf{9.0-14.0} \hspace{0.1cm} \textbf{VOLTS} \hspace{0.1cm} \textbf{(IGNITION SW AT ON POSITION)}
                                0-3.0 VOLTS (ENGINE IDLING)
            KNKL, KNLR - E1 : PULSE GENERATION (ENGINE IDLING)
                    NSW - E1 : 9.0-14.0 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)
                     A/C - E1 : BELOW 1.5 VOLTS (ENGINE IDLING AND A/C SW ON)
                                7.5–14.0 VOLTS (A/C SW OFF)
                    ACT - E1 : 9.0-14.0 VOLTS (ENGINE IDLING AND A/C SW ON)
                                BELOW 1.5 VOLTS (A/C SW OFF)
                  ACIS - E01 : 9.0-14.0 VOLTS (IGNITION SW AT ON POSITION)
                    STA - E1 : 6.0 VOLTS OR MORE (ENGINE CRANKING)
14,15,16,17,18,19 INJECTOR
 1–2 : APPROX. 13.8 \Omega
T1 THROTTLE POSITION SENSOR
 3-1 : 0.2-5.7 K\Omega WITH CLEARANCE BETWEEN LEVER AND STOP SCREW 0 MM (0 IN.)
 2–1 : LESS THAN 2.3 K\Omega WITH CLEARANCE BETWEEN LEVER AND STOP SCREW 0.5 MM (0.020 IN.)
      WITH CLEARANCE BETWEEN LEVER AND STOP SCREW 0.7 MM (0.0276 IN.)
```

3-1: 2.0-10.2 KΩ WITH THROTTLE VALVE FULLY OPEN

O : PARTS LOCATION

CODE		SEE PAGE	CODE		SEE PAGE	CODE	SEE PAGE
C 8		32	F16	В	28	120	29
C 9	Α	32	H 9	D	33	I21	29
C10	В	32	Н	11	28	J 1	33
C	17	28	Н	12	28	J 2	33
C	18	28	I	1	29	J 6	39
	1	28	12	Α	29	J 7	33
	3	32	I	4	28	K 1	29
	6	32 15		29	K 2	29	
C	24	32	16		29	М 6	29
E	1	28	ı	7	29	N 1	29
E	4	28	18		29	T 1	29
E 7	Α	32	ı	9	29	V 1	29
E 8	В	32	F15	В	29	V 2	29
E 9	С	32	ľ	16	29	V 3	29
E10	D	32	l1	17	29	V 4	29
F10	Α	28	ľ	18	29	V 5	29
F	15	30	ľ	19	29		_

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
1	25	R/B NO. 1 (LEFT KICK PANEL)
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			
1B			
1C			
1D	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)	
1E			
1G			
1M			
2B	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 WIRE AND 3/B NO. 2 (ENGINE COMPARTIMENT LETT)	
2G	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)	
2H	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		COVIC WINE AND 3/B NO. 3 (BETTIND CONBINATION WETEN)	
3D			

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)			
EE1	40 (1MZ–FE) ENGINE WIRE AND SENSOR WIRE				
EF1	38 (1MZ-FE)	ENGINE WIRE AND COWL WIRE			
II1	42	COWL WIRE AND INSTRUMENT PANEL WIRE			
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE			
IM1	42	INSTRUMENT PANEL WIRE AND CONSOLE BOX WIRE			
IP1					
IP2	44	ENGINE WIRE AND COWL WIRE			
IP3					
IQ1	44	ENGINE WIRE AND INSTRUMENT PANEL WIRE			
	46 (S/D)				
BX1	48 (C/P)	FUEL GAUGE WIRE AND FLOOR NO. 1 WIRE			
	50 (W/G)				

ENGINE CONTROL (1MZ-FE)

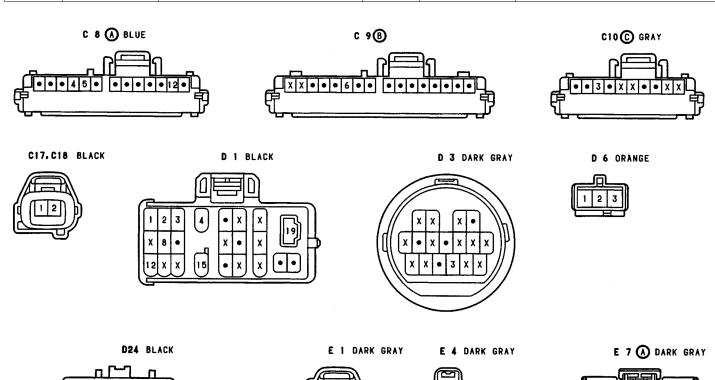
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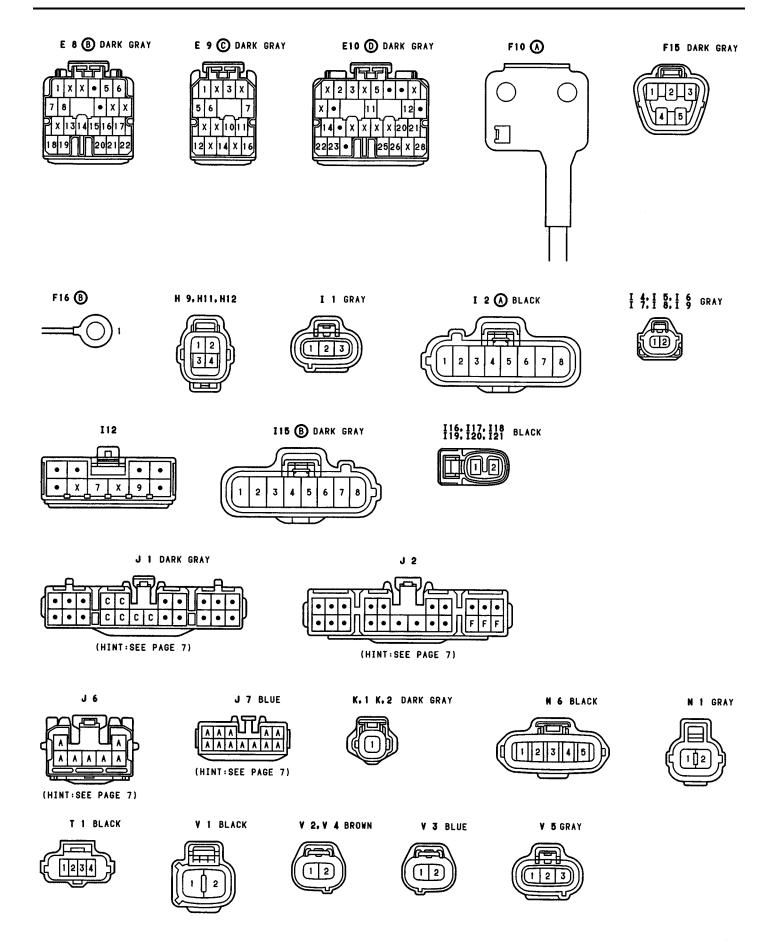
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EB	38 (1MZ-FE)	FRONT LEFT FENDER
EC	38 (1MZ-FE)	INTAKE MANIFOLD RH
ED	38 (1MZ-FE)	INTAKE MANIFOLD LH
IE	42	LEFT KICK PANEL
IG	42	INSTRUMENT PANEL BRACE LH
	46 (S/D)	
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR
	50 (W/G)	



CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	
E10			E14	38 (1MZ-FE)	ENGINE WIRE	
E11	20 (4M7, FF)	ENIONE WIDE	I18	44	ENGINE WIRE	
E12	38 (1MZ–FE)	ENGINE WIRE	120	44	COWL WIRE	
E13			123	44	COWL WIRE	





ENGINE CONTROL (5S-FE)

SYSTEM OUTLINE

THIS SYSTEM UTILIZES AN ENGINE CONTROL MODULE (ENGINE ECU (M/T), ENGINE AND ELECTRONIC CONTROLLED TRANSMISSION ECU (A/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 SYSTEM

THE ENGINE COOLANT TEMP. SENSOR (EFI WATER TEMP. SENSOR) DETECTS THE ENGINE COOLANT TEMP. AND HAS A BUILT-IN THERMISTOR WITH A RESISTANCE WHICH VARIES ACCORDING TO THE ENGINE COOLANT TEMP. (WATER TEMP.) THUS THE ENGINE COOLANT TEMP. (WATER TEMP.) IS INPUT IN THE FORM OF A CONTROL SIGNAL TO **TERMINAL THW** OF THE ENGINE CONTROL MODULE (ECU).

(2) INTAKE AIR TEMP. SIGNAL SYSTEM

THE INTAKE AIR TEMP. SENSOR (IN-AIR TEMP. SENSOR) IS DETECTS THE INTAKE AIR TEMP., WHICH IS INPUT AS A CONTROL SIGNAL TO **TERMINAL THA** OF THE 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** AND **OX2** OF THE ENGINE CONTROL MODULE (ECU).

(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 G+** AND **G2** (CALIFORNIA), OF THE ENGINE CONTROL MODULE (ECU), AND RPM IS INPUT TO **TERMINAL NE+**.

(5) THROTTLE SIGNAL SYSTEM

THE THROTTLE POSITION SENSOR DETECTS THE THROTTLE VALVE OPENING ANGLE, WHICH IS INPUT AS A CONTROL SIGNAL TO TERMINAL VTA OF THE ENGINE CONTROL MODULE (ECU), OR WHEN THE VALVE IS FULLY CLOSED, TO 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 TARMINAL ACA 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, THE 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. THE CURRENT FLOWING THROUGH THE **IGN** FUSE FLOWS TO **TERMINAL IGSW** OF THE ENGINE CONTROL MODULE (ECU).

(10) INTAKE AIR VOLUME SIGNAL SYSTEM

INTAKE AIR VOLUME IS DETECTED BY THE MANIFOLD ABSOLUTE PRESSURE SENSOR (VACUUM SENSOR) (FOR MANIFOLD PRESSURE) AND IS INPUT AS A CONTROL SIGNAL TO **TERMINAL PIM** OF THE ENGINE CONTROL MODULE (ECU).

(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 KNOCK SENSOR AND THE SIGNAL IS INPUT INTO **TERMINAL KNK** AS A CONTROL SIGNAL.

(13) ELECTRICAL LOAD SIGNAL SYSTEM

THE SIGNAL WHEN SYSTEMS SUCH AS THE REAR WINDOW DEFOGGER, HEADLIGHTS, ETC. WHICH CAUSE A HIGH ELECTRICAL BURDEN ARE ON IS INPUT TO **TERMINAL ELS** AS A CONTROL SIGNAL.

2. CONTROL SYSTEM

* MFI (MULTIPORT FUEL INJECTION (EFI)) SYSTEM

THE MFI (EFI) SYSTEM MONITORS THE ENGINE CONDITION THROUGH THE SIGNALS INPUT FROM EACH SENSOR (INPUT SIGNALS FROM (1) TO (13) ETC.) TO THE ENGINE CONTROL MODULE (ECU). 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** AND **#40** (CALIFORNIA), **TERMINALS #10** AND **#20** (EX. CALIFORNIA) OF THE ENGINE CONTROL MODULE (ECU) TO OPERATE THE INJECTOR. (INJECT THE FUEL). THE MFI (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), (2), (4) TO (12) ETC.) THE BEST IGNITION TIMING IS DETECTED 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.

* IAC (IDLE AIR CONTROL (ISC)) SYSTEM

THE IAC (ISC) SYSTEM (ROTARY SOLENOID 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, ETC. THE ENGINE CONTROL MODULE (ECU) EVALUATES THE SIGNALS FROM EACH SENSOR (INPUT SIGNALS (1), (4) TO (8), (13) ETC.), OUTPUTS CURRENT TO TERMINALS ISCO AND ISCC, AND CONTROLS THE IDLE AIR CONTROL VALVE (ISC VALVE).

* FUEL PUMP CONTROL SYSTEM

THE ENGINE CONTROL MODULE (ECU) OPERATION OUTPUTS TO **TERMINAL FC** AND CONTROLS THE CIRCUIT OPENING RELAY AND THUS CONTROLS THE FUEL PUMP DRIVE SPEED IN RESPONSE TO CONDITIONS.

* A/C IDLE-UP SYSTEM

IN ORDER TO PREVENT THE ENGINE IDLING SPEED FROM DROPPING WHEN THE A/C IS OPERATING, THE A/C IDLE-UP SYSTEM CONTROLS THE VSV (FOR A/C IDLE-UP) TO INCREASE THE ENGINE IDLING SPEED AND KEEP IT STABLE.

* EGR CONTROL SYSTEM

THE EGR CUT CONTROL SYSTEM CONTROLS THE VSV (FOR EGR) BY EVALUATING THE SIGNALS FROM EACH SENSOR INPUT TO THE ENGINE CONTROL MODULE (ECU) (INPUT SIGNALS (1), (5), (6), (9) ETC.) AND BY SENDING OUTPUT TO **TERMINAL THG** OF THE ENGINE CONTROL MODULE (ECU).

* A/C CUT CONTROL SYSTEM

WHEN THE VEHICLE SUDDENLY ACCELERATES FROM LOW ENGINE SPEED, THIS SYSTEM CUTS OFF AIR CONDITIONING OPERATION FOR A FIXED PERIOD OF TIME IN RESPONSE TO THE VEHICLE SPEED AND THROTTLE VALVE OPENING ANGLE IN ORDER TO MAINTAIN ACCELERATION PERFORMANCE.

THE ENGINE CONTROL MODULE (ECU) RECEIVES INPUT SIGNALS ((5), (6) ETC.), AND OUTPUTS SIGNALS TO TERMINAL ACT.

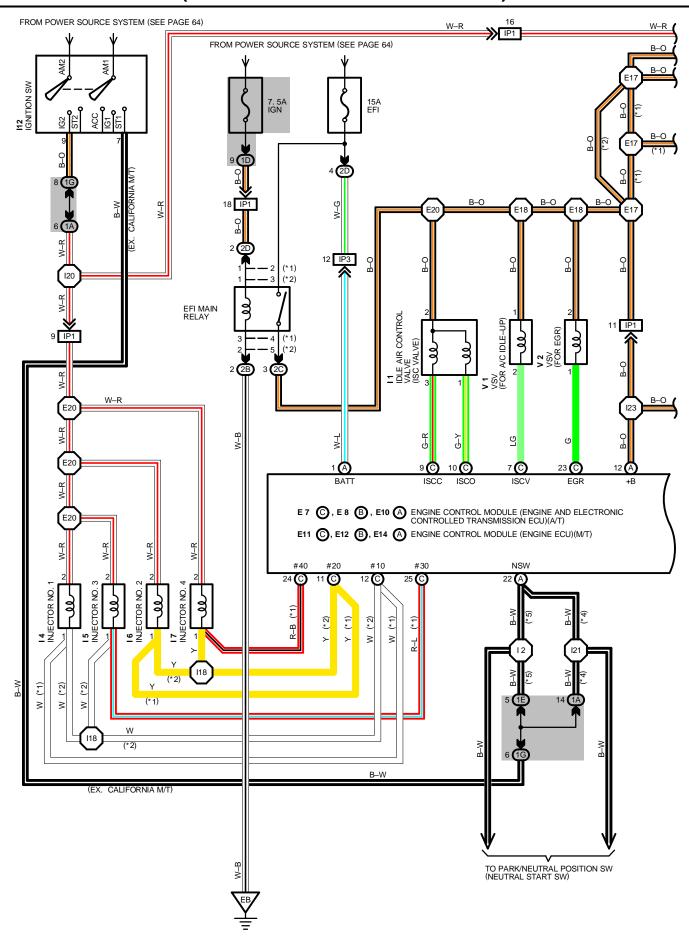
3. DIAGNOSIS SYSTEM

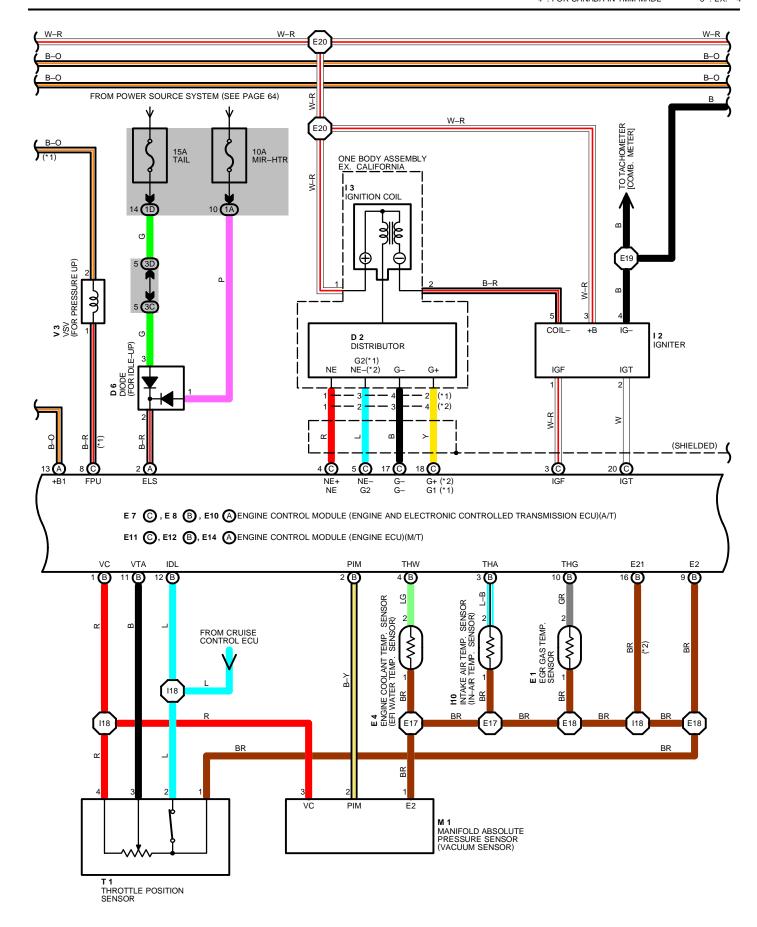
WITH THE DIAGNOSIS SYSTEM, WHEN THERE IS A MALFUNCTIONING IN THE ENGINE CONTROL MODULE (ECU) SIGNAL SYSTEM, THE MALFUNCTION SYSTEM IS RECORDED IN THE MEMORY. THE MALFUNCTIONING SYSTEM CAN THEN BE FOUND BY READING THE DISPLAY (CODE) OF THE MALFUNCTION INDICATOR LAMP (CHECK ENGINE WARNING LIGHT).

4. FAIL-SAFE SYSTEM

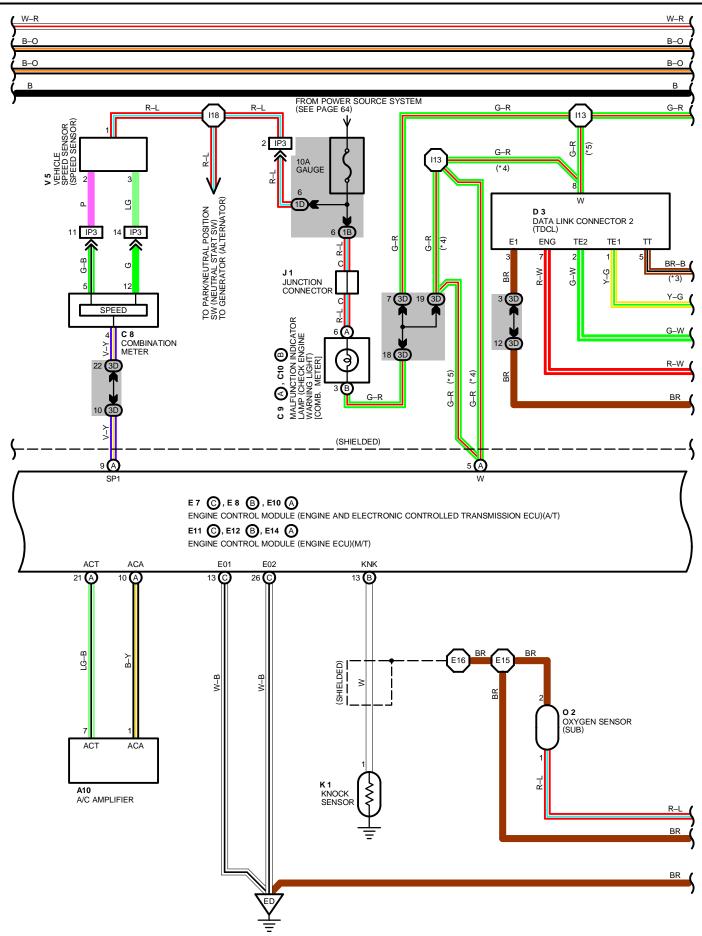
WHEN A MALFUNCTION OCCURS IN ANY SYSTEM, IF THERE IS A POSSIBILITY OF ENGINE TROUBLE BEING CAUSED BY CONTINUED CONTROL BASED ON THE SIGNALS FROM THAT SYSTEM, THE FAIL—SAFE SYSTEM EITHER CONTROLS THE SYSTEM BY USING DATA (STANDARD VALUES) RECORDED IN THE ENGINE CONTROL MODULE (ECU) MEMORY OR ELSE STOPS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

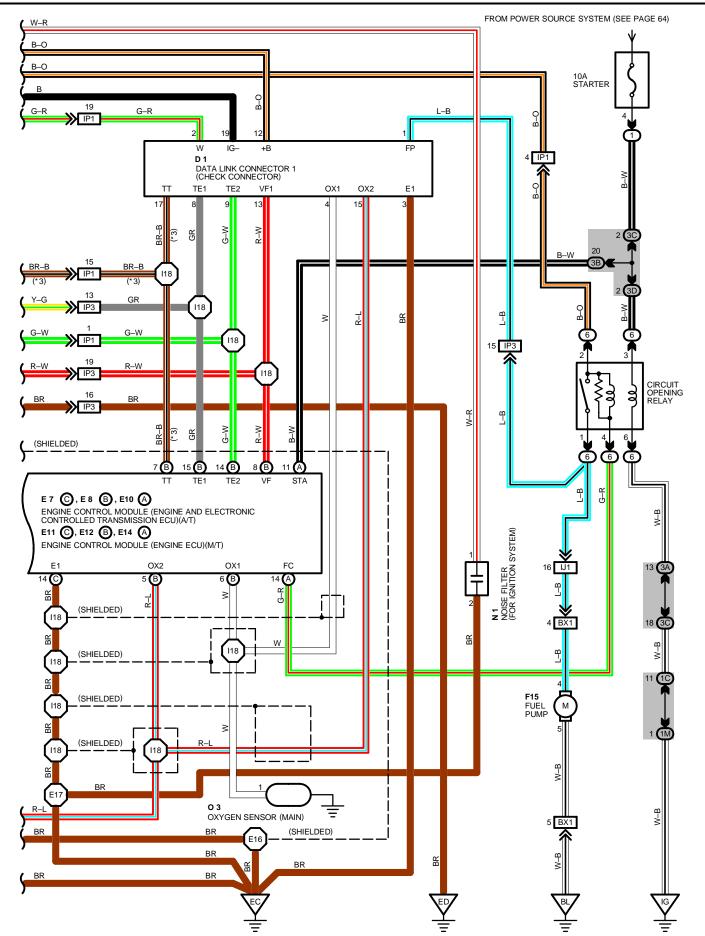
ENGINE CONTROL (5S-FE A/T AND CALIFORNIA M/T)





ENGINE CONTROL (5S-FE A/T AND CALIFORNIA M/T)





ENGINE CONTROL (5S-FE A/T AND CALIFORNIA M/T)

SERVICE HINTS

E 7(C), E 8(B), E10(A) ENGINE CONTROL MODULE (ENGINE AND ELECTRONIC CONTROLLED TRANSMISSION ECU) (A/T)

E11(C), E12(B), E14(A) ENGINE CONTROL MODULE (ENGINE ECU) (M/T)

VOLTAGE AT ENGINE CONTROL MODULE (ECU) WIRING CONNECTOR

BATT - E1 : ALWAYS 9.0-14.0 VOLTS

+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 OPEN)

VC - E2 : 4.5-5.5 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 OPEN)

PIM - E2 : 3.3-3.9 VOLTS (IGNITION SW AT ON POSITION)

#10, #20 - E01, E02 : 9.0-14.0 VOLTS (IGNITION SW AT ON POSITION) (EX. CALIFORNIA)

#10, #20,

#30, #40 - E01, E02 : 9.0-14.0 VOLTS (IGNITION SW AT ON POSITION) (CALIFORNIA)

THA - E2 : 0.5-3.4 VOLTS (IGNITION SW ON AND INTAKE AIR TEMP. 20°C, 68°F)
THW - E2 : 0.2-1.0 VOLTS (IGNITION SW ON AND COOLANT TEMP. 80°C, 176°F)

STA - E1 : 6.0-14.0 VOLTS (ENGINE CRANKING)

IGT - E1 : PULSE GENERATION (ENGINE CRANKING OR IDLING)W - E1 : 9.0-14.0 VOLTS (NO TROUBLE AND ENGINE RUNNING)

ACT – E1 : 9.0–14.0 VOLTS (IGNITION SW ON AND AIR CONDITIONING ON)
ACA – E1 : 7.5–14.0 VOLTS (IGNITION SW ON AND AIR CONDITIONING ON)

TE1 – E1: **9.0–14.0** VOLTS (IGNITION SW ON)

NSW - E1 : 0-3.0 VOLTS (IGNITION SW ON AND PARK/NEUTRAL POSITION SW (NEUTRAL START SW)

POSITION P OR N POSITION)

9.0-14.0 VOLTS (IGNITION SW ON AND EX. PARK/NEUTRAL POSITION SW

(NEUTRAL START SW) POSITION P OR N POSITION)

RESISTANCE AT ENGINE CONTROL MODULE (ECU) WIRING CONNECTORS

(DISCONNECT WIRING CONNECTOR)

IDL - E2 : INFINITY (THROTTLE VALVE OPEN)

2.3 KΩ OR LESS (THROTTLE VALVE FULLY CLOSED)

 $\textbf{VTA} - \textbf{E2} \hspace{0.1in} : \hspace{0.1in} \textbf{3.3} \hspace{0.1in} \textbf{-10.0} \hspace{0.1in} \textbf{K} \Omega \hspace{0.1in} (\textbf{THROTTLE} \hspace{0.1in} \textbf{VALVE} \hspace{0.1in} \textbf{FULLY} \hspace{0.1in} \textbf{OPEN})$

 $0.2 - 0.8 \text{ K}\Omega$ (THROTTLE VALVE FULLY CLOSED)

 $VC - E2 : 3.0 - 70 \text{ } K\Omega$

THA – E2 : 2.0 –3.0 KΩ (INTAKE AIR TEMP. 20 $^{\circ}$ C, 68 $^{\circ}$ F) THW – E2 : 0.2 –0.4 KΩ (COOLANT TEMP. 80 $^{\circ}$ C, 176 $^{\circ}$ F)

: PARTS LOCATION

CC	DE	SEE PAGE	CO	DE	SEE PAGE	CODE	SEE PAGE
Α	10	32	E11	Α	32	J 1	33
С	8	32	E12	С	32	K 1	31
C 9	Α	32	E14	В	32	M 1	31
C10	С	32	F15	Α	34 (S/D), 35 (C/P), 36 (W/G)	N 1	31
D	1	30	I	1	31	0 2	31
D	2	30	I	2	31	03	31
D	3	32	I	3	31	T 1	31
D	6	32	I	4	31	V 1	31
E	1	30	I	5	31	V 2	31
E	4	30	I	6	31	V 3	31
E 7	С	32	I	7	31	V 5	31
E 8	В	32	I1	0	31		
E10	Α	32	I1	2	33		

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
1	25	R/B NO. 1 (LEFT KICK PANEL)
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		
1B		COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1C	20	
1D	20	
1G		
1M		
2D	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
3A		
3B	- 24	COMIL WIDE AND 1/D NO. 2 (DELIIND COMPINIATION METER)
3C		COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)
3D		

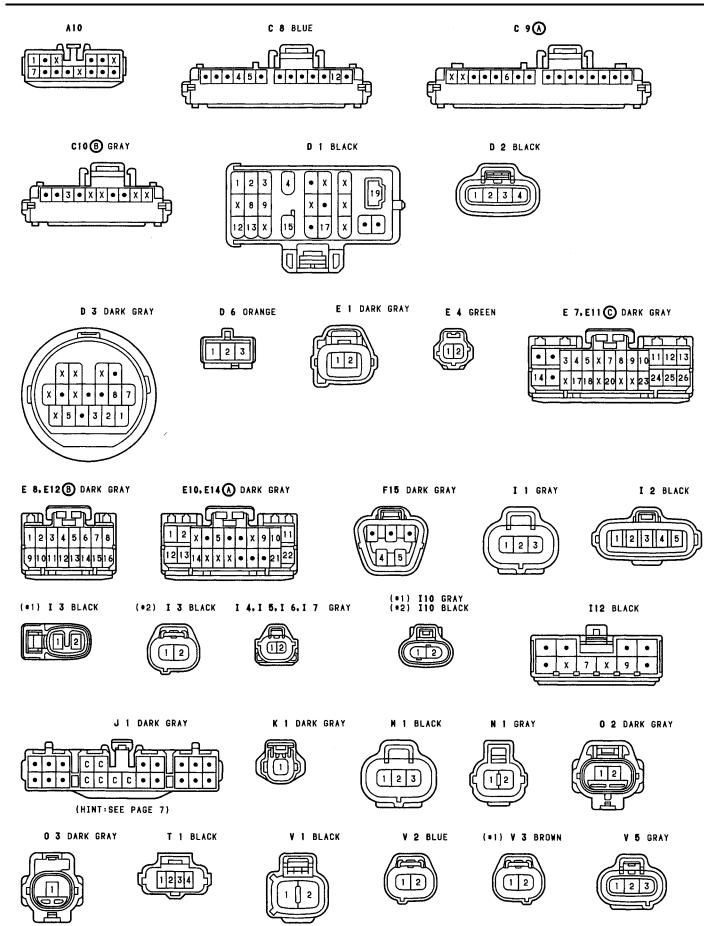
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	OINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)			
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE			
IP1	44	ENGINE WIRE AND COWL WIRE			
IP3	44				
	46 (S/D)				
BX1	48 (C/P)	FUEL GAUGE WIRE AND FLOOR NO. 1 WIRE			
	50 (W/G)				

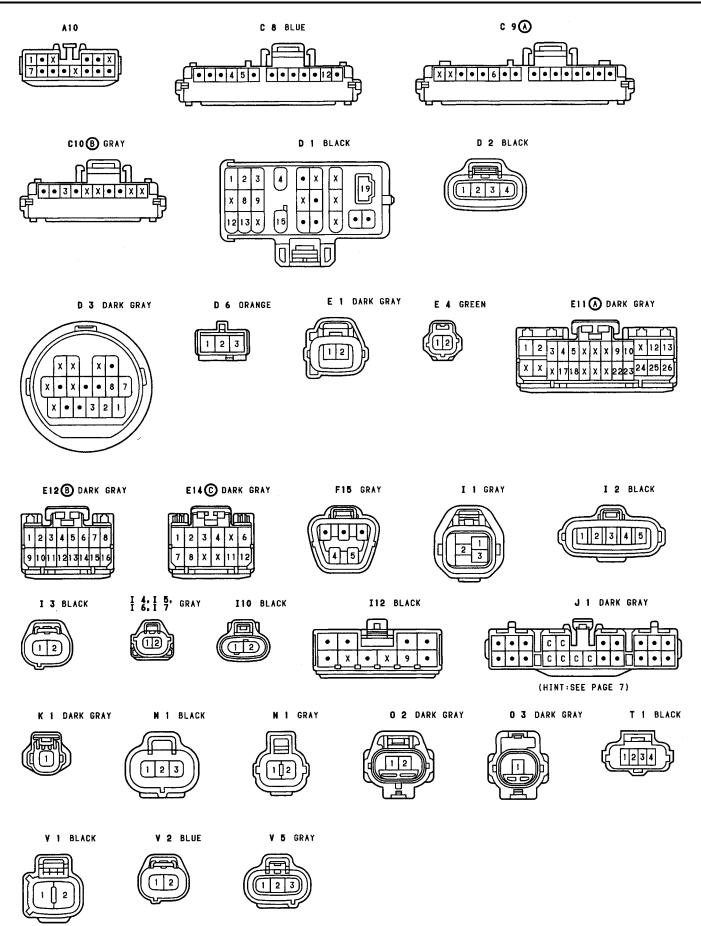
: GROUND POINTS

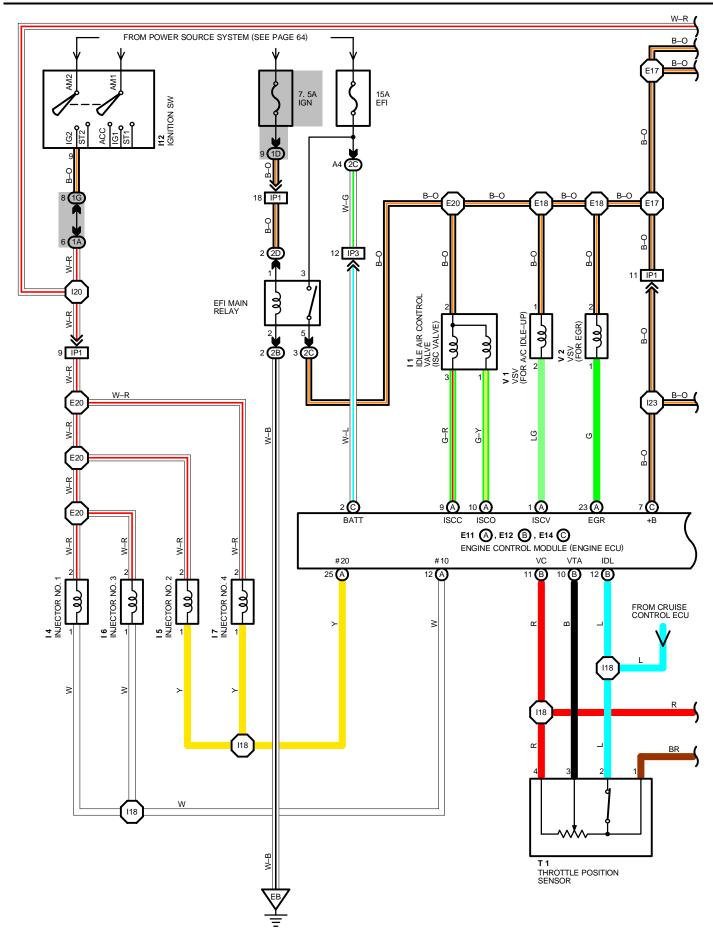
CODE	SEE PAGE	GROUND POINTS LOCATION	
EB	40 (5S-FE)	FRONT LEFT FENDER	
EC	40 (5S-FE)	INTAKE MANIFOLD RH	
ED	40 (5S-FE)	INTAKE MANIFOLD LH	
IG	42	STRUMENT PANEL BRACE LH	
	46 (S/D)		
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR	
	50 (W/G)		

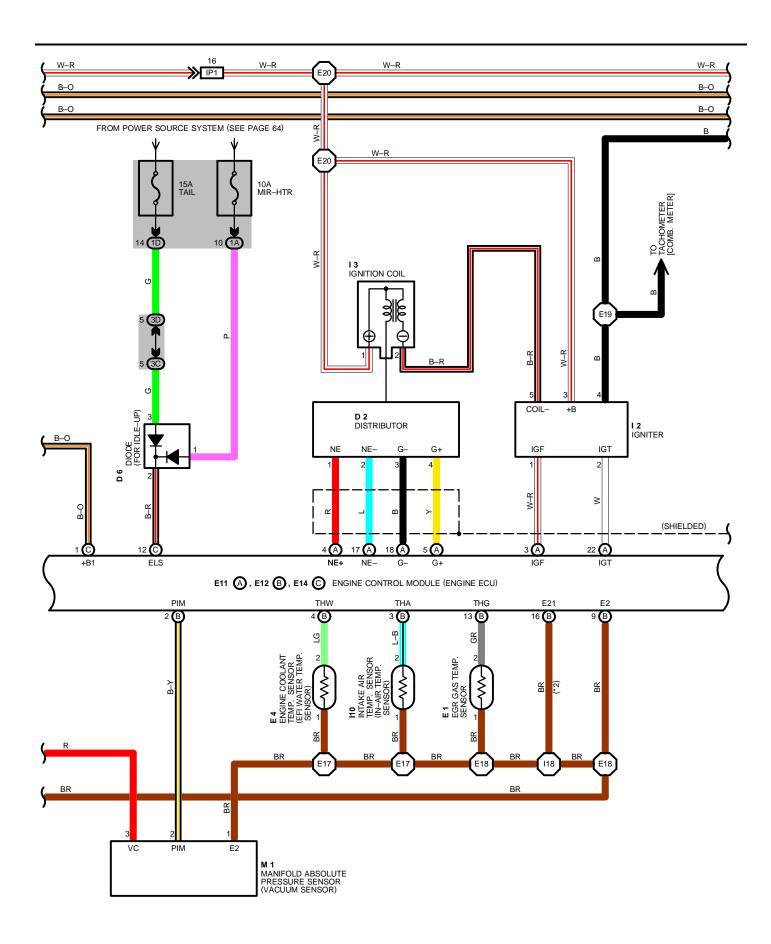
_					
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E15		ENGINE WIRE	12	44	COWL WIRE
E16			I13	44	
E17	40 (5S–FE)		I18	44	ENGINE WIRE
E18	40 (55-FE)		120	44	COWL WIRE
E19			123	44	COWE WIRE
E20					



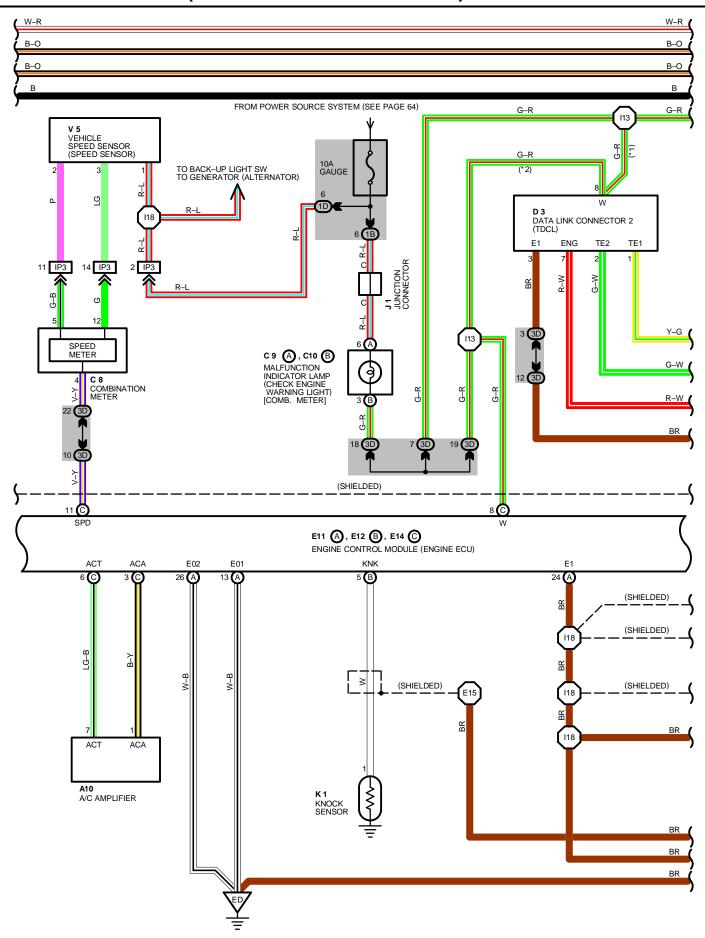
ENGINE CONTROL (5S-FE M/T EX. CALIFORNIA)

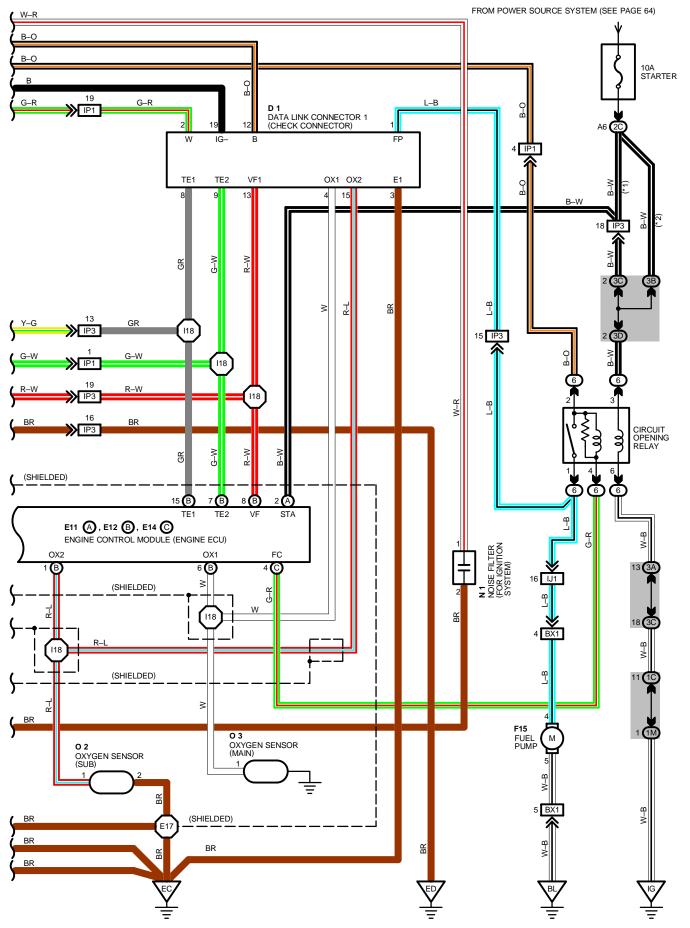






ENGINE CONTROL (5S-FE M/T EX. CALIFORNIA)





ENGINE CONTROL (5S-FE M/T EX. CALIFORNIA)

SERVICE HINTS

E11(A), E12(B), E14(C) ENGINE CONTROL MODULE (ENGINE ECU)

VOLTAGE AT ENGINE CONTROL MODULE (ECU) WIRING CONNECTOR

BATT - E1 : ALWAYS 9.0-14.0 VOLTS

+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 - E1 : 9.0-14.0 VOLTS (IGNITION SW ON AND THROTTLE VALVE OPEN)

PIM - E2 : 3.3-3.9 VOLTS (IGNITION SW AT ON POSITION)

#10, #20 - E01, E02 : 9.0-14.0 VOLTS (IGNITION SW AT **ON** POSITION)

THA - E2 : 0.5-3.4 VOLTS (IGNITION SW ON AND INTAKE AIR TEMP. 20°C, 68°F)
THW - E2 : 0.2-1.0 VOLTS (IGNITION SW ON AND COOLANT TEMP. 80°C, 176°F)

STA - E1 : 6.0-14.0 VOLTS (ENGINE CRANKING)

IGT - E1 : 0.8-1.2 VOLTS (ENGINE CRANKING OR IDLING)
ISCC, ISCO- E1 : 8.0-14.0 VOLTS (IGNITION SW AT ON POSITION)

W - E1 : 9.0-14.0 VOLTS (IGNITION SW ON, NO TROUBLE AND ENGINE RUNNING)

ACT – E1 : 9.0–14.0 VOLTS (IGNITION SW ON AND AIR CONDITIONING ON)
ACA – E1 : 7.5–14.0 VOLTS (IGNITION SW ON AND AIR CONDITIONING ON)

TE1 - E1: **9.0-14.0** VOLTS (IGNITION SW ON)

RESISTANCE AT ENGINE CONTROL MODULE (ECU) WIRING CONNECTORS

(DISCONNECT WIRING CONNECTOR)

IDL - E1 : INFINITY (THROTTLE VALVE OPEN)

 $\mathbf{0} \Omega$ (THROTTLE VALVE FULLY CLOSED)

THA – E2 : 2.0 –3.0 KΩ (INTAKE AIR TEMP. 20°C, 68°F) THW – E2 : 0.2 –0.4 KΩ (COOLANT TEMP. 80°C, 176°F)

 $\label{eq:G+-G-} \textbf{G+-G-} \; : \; \textbf{0.17-0.21} \; \textbf{K} \Omega \\ \textbf{ISCC, ISCO-+B, +B1} \; : \; \textbf{19.3-22.3} \; \textbf{K} \Omega \\$

: PARTS LOCATION

CC	DE	SEE PAGE CODE		SEE PAGE	CODE	SEE PAGE
Α	10	32	E14 C	30	K 1	31
С	8	32	F15	34 (S/D), 35 (C/P), 36 (W/G)	M 1	31
C 9	Α	32	I1	31	N 1	31
C10	В	32	12	31	0 2	31
D	1	30	13	31	03	31
D	2	30	14	31	T 1	31
D	3	32	15	31	V 1	31
D	6	32	16	31	V 2	31
E	1	30	17	31	V 3	31
Е	4	30	I10	31	V 5	31
E11	Α	30	I12	33		
E12	В	30	J 1	33		

: RELAY BLOCKS

COL	E SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
6	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					
1B	20	COM/ MIDE AND VONO 4 (INOTHINENT DANIEL LEET)			
1C					
1D		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					
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)			
3D					

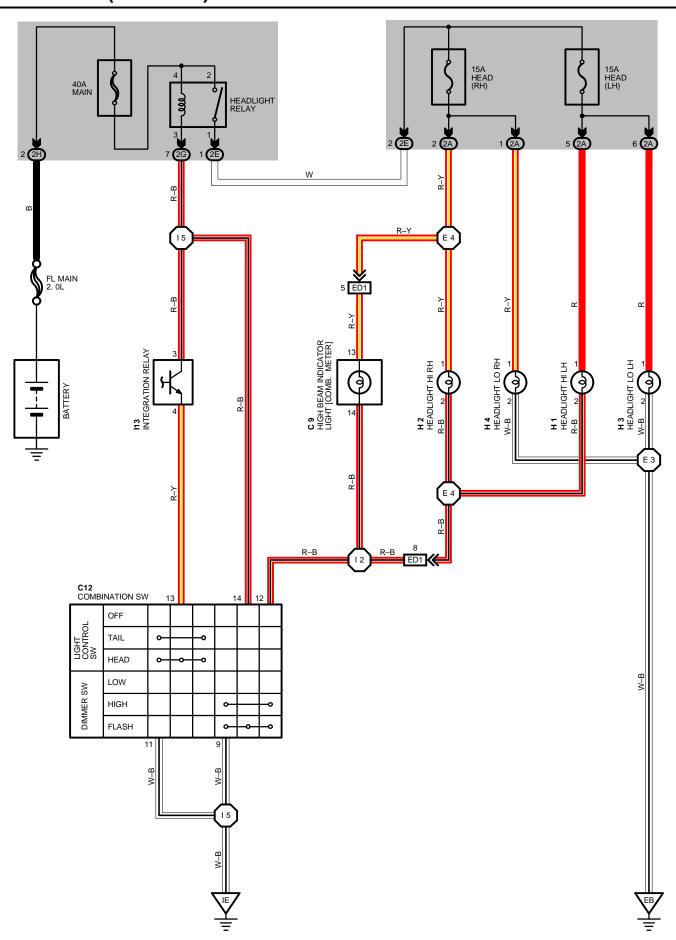
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)		
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE		
IP1	44	ENGINE WIDE AND COMI WIDE		
IP3	44	ENGINE WIRE AND COWL WIRE		
	46 (S/D)			
BX1	48 (C/P)	FUEL GAUGE WIRE AND FLOOR NO. 1 WIRE		
	50 (W/G)			

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EB	40 (5S-FE)	FRONT LEFT FENDER
EC	40 (5S-FE)	INTAKE MANIFOLD RH
ED	40 (5S-FE)	INTAKE MANIFOLD LH
IG	42	INSTRUMENT PANEL BRACE LH
	46 (S/D)	
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR
	50 (W/G)	

_					
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E15			E20	40 (5S-FE)	ENGINE WIRE
E16			l13	44	COWL WIRE
E17	40 (5S-FE)	ENGINE WIRE	I18	44	ENGINE WIRE
E18	_		120	44	COWL WIRE
E19			123	44	COWE WIRE



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 102)

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 9	32	H 2	28 (1MZ-FE), 30 (5S-FE)	I13	33
C12	32	H 3	28 (1MZ-FE), 30 (5S-FE)		
H 1	28 (1MZ-FE), 30 (5S-FE)	H 4	28 (1MZ-FE), 30 (5S-FE)		

: 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)		
2E	22			
2G	22 COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)			
2H 22 ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		

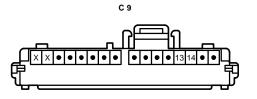
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

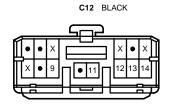
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
ED4	38 (1MZ-FE)	COMI MIDE AND ENGINE DOOM MAIN MIDE
EDI	40 (5S-FE)	COWL WIRE AND ENGINE ROOM MAIN WIRE

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EB	38 (1MZ-FE)	FRONT LEFT FENDER
EB	40 (5S-FE)	FRONT LEFT FENDER
IE	42	LEFT KICK PANEL

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 3	38 (1MZ-FE)		E 4	40 (5S-FE)	ENGINE ROOM MAIN WIRE
E 3	40 (5S-FE)	ENGINE ROOM MAIN WIRE	12	44	COMI MIDE
E 4	38 (1MZ-FE)		15	44	COWL WIRE

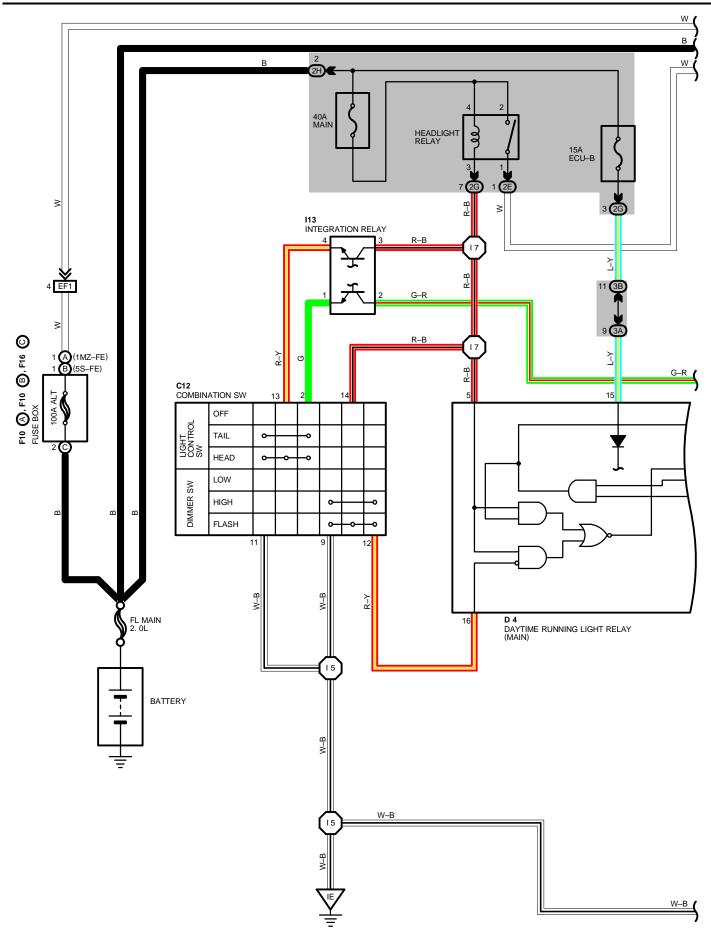


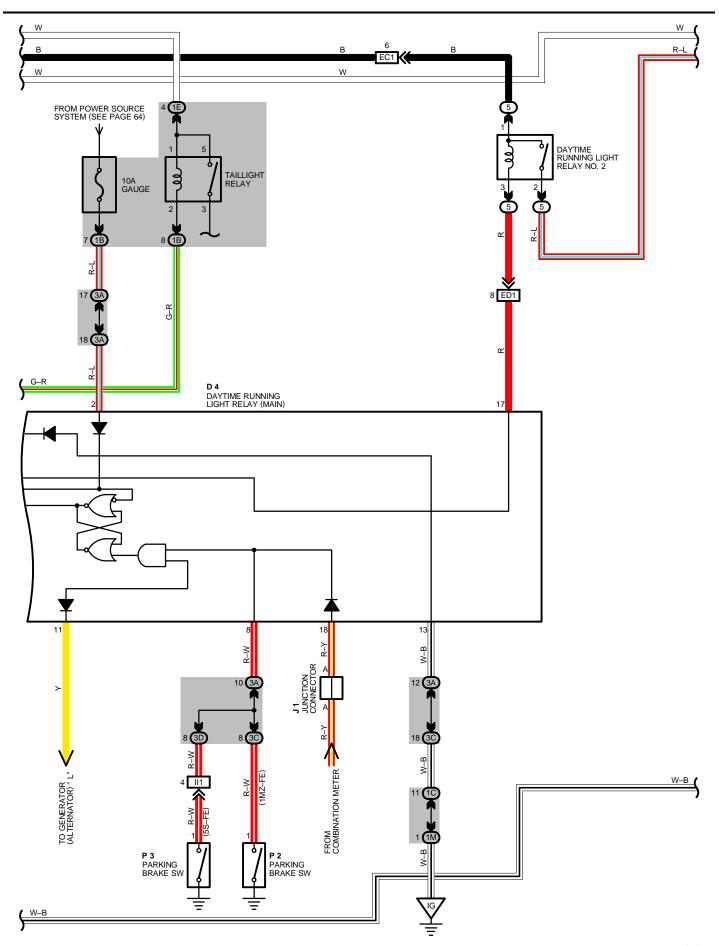




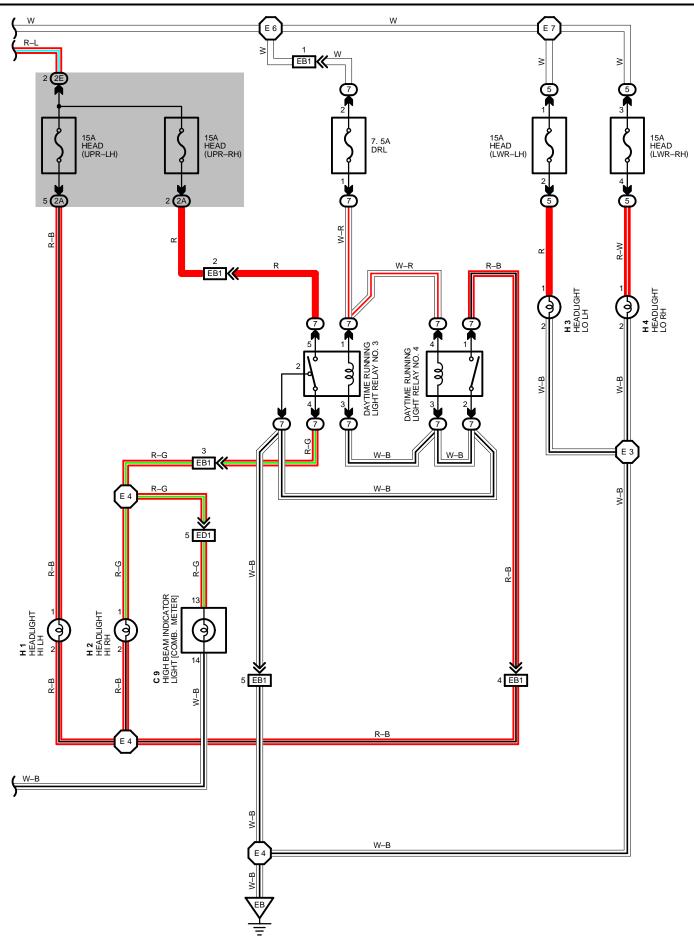








HEADLIGHT (FOR CANADA)



SYSTEM OUTLINE

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 (MAIN) 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.

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 (MAIN).

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 ALSO, CURRENT FROM FL MAIN FLOWES TO DAYTIME RUNNING LIGHT RELAY NO. 2 (POINT SIDE) \rightarrow **HEAD (UPR-LH)** FUSE \rightarrow **TERMINAL 1** OF THE HEAD LH-HI \rightarrow **TERMINAL 2** \rightarrow **TERMINAL 2** OF THE HEAD RH-HI \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 4** 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 HEAD HAVE LIGHT UP, 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), HEAD REMAIN ON. IF THE IGNITION SW IS THEN TURNED OFF, 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, HEADLIGHT 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) 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 (MAIN), ACTIVATING THE DAYTIME RUNNING LIGHT RELAY (MAIN) AND ALSO THE DAYTIME RUNNING LIGHT RELAY NO. 2. WHEN THE HEADLIGHT RELAY AND DAYTIME RUNNING LIGHT RELAY (MAIN) 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 (MAIN). 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 (MAIN). 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 LH-HI \rightarrow **TERMINAL 2** \rightarrow DAYTIME RUNNING LIGHT RELAY NO. 4 (POINT SIDE) \rightarrow **GROUND**, AND CURRENT ALSO SIMUTANEOUSLY FLOWS FROM **HEAD (UPR-RH)** 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 THE 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 (FOR CANADA)

: PARTS LOCATION

C	ODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 9		32	F16 C	28 (1MZ-FE), 30 (5S-FE)	I13	33
	C12	32	H 1	28 (1MZ-FE), 30 (5S-FE)	J 1	33
	D 4	32	H 2	28 (1MZ-FE), 30 (5S-FE)	P 2	33
F10	Α	28 (1MZ-FE), 30 (5S-FE)	H 3	28 (1MZ-FE), 30 (5S-FE)	P 3	33
-10	В	28 (1MZ-FE), 30 (5S-FE)	H 4	28 (1MZ-FE), 30 (5S-FE)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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

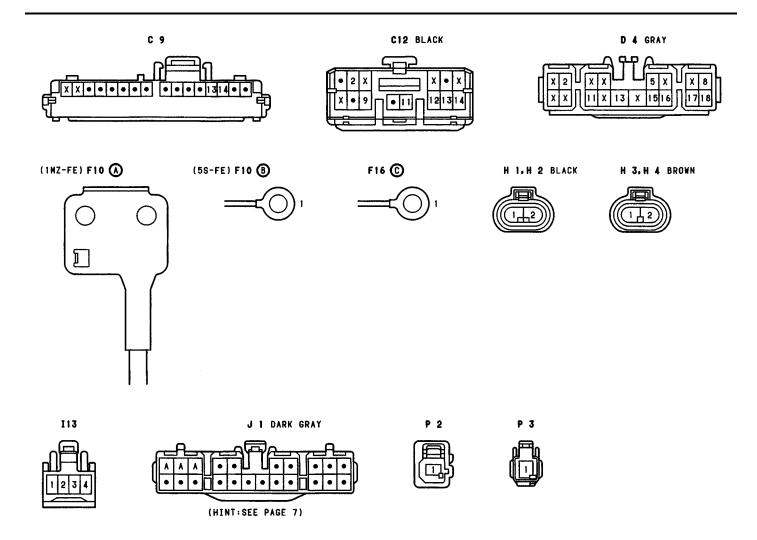
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

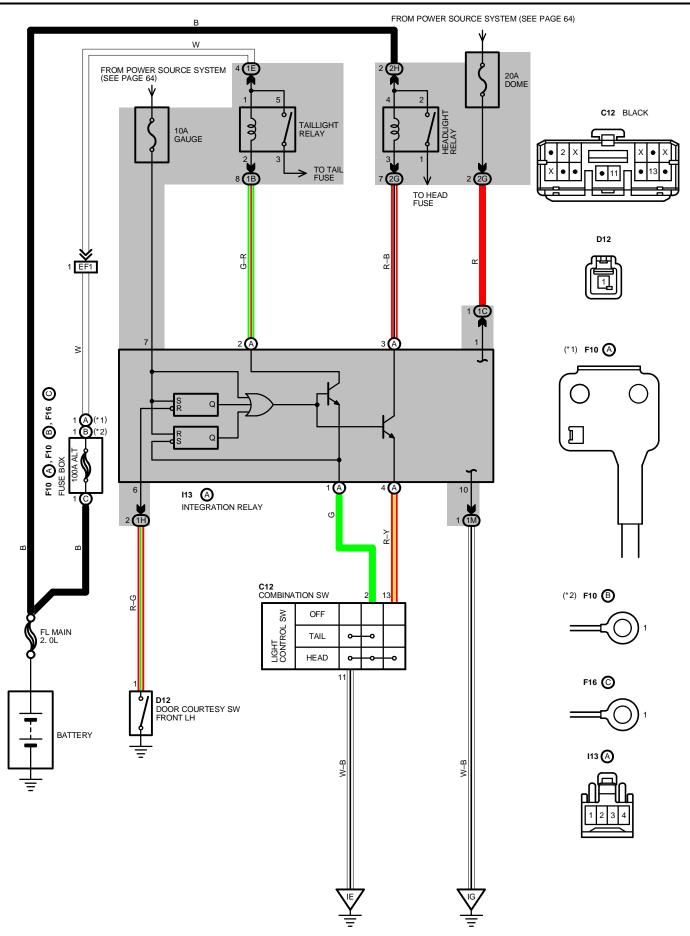
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)	
EB1	38 (1MZ-FE)	ENCINE DOOM MAIN WIDE AND DELAY WIDE	
EDI	40 (5S-FE)	ENGINE ROOM MAIN WIRE AND RELAY WIRE	
EC1	38 (1MZ-FE)	ENGINE WIRE AND ENGINE ROOM MAIN WIRE	
ECI	40 (5S-FE)	— ENGINE WIRE AND ENGINE ROOM MAIN WIRE	
ED1	38 (1MZ-FE)	COWL WIRE AND ENGINE ROOM MAIN WIRE	
EDI	40 (5S-FE)	COVIL WIRE AND ENGINE ROOM MAIN WIRE	
EF1	38 (1MZ-FE)	ENGINE WIRE AND COWL WIRE	
EFI	40 (5S-FE)	ENGINE WIRE AND COWL WIRE	
II1	42	COWL WIRE AND INSTRUMENT PANEL WIRE	

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION		
EB 38 (1MZ–FE) FRONT LEFT FENDER		FRONT LEFT FENDER		
ЕВ	40 (5S-FE)	TONI ELI II ENDER		
IE	42	LEFT KICK PANEL		
IG	42	INSTRUMENT PANEL BRACE LH		

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	
E 3	38 (1MZ-FE)		E 6	40 (5S-FE)		
E 3	40 (5S-FE)		E7	38 (1MZ-FE)	ENGINE ROOM MAIN WIRE	
E 4	38 (1MZ-FE)	ENGINE ROOM MAIN WIRE		40 (5S-FE)		
E 4	40 (5S-FE)		15	44	COWL WIRE	
E 6	38 (1MZ-FE)		17	44	COWL WIRE	





SYSTEM OUTLINE

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 **TAILLIGHT** 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 HEADLIGHT ON)

WITH LIGHT CONTROL SW TURNED TO **HEADLIGHT** 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 6 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

I13 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

6-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 C		DE	SEE PAGE
C12	32	F10	Α	28 (1MZ-FE), 30 (5S-FE)	F16	С	28 (1MZ-FE), 30 (5S-FE)
D12	34 (S/D), 35 (C/P), 36 (W/G)	FIU	В	28 (1MZ-FE), 30 (5S-FE)	I13	Α	33

: 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 J/B NO. 1 (INSTRUMENT PANEL LEFT)
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
2G	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2H	22	ENGINE WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)

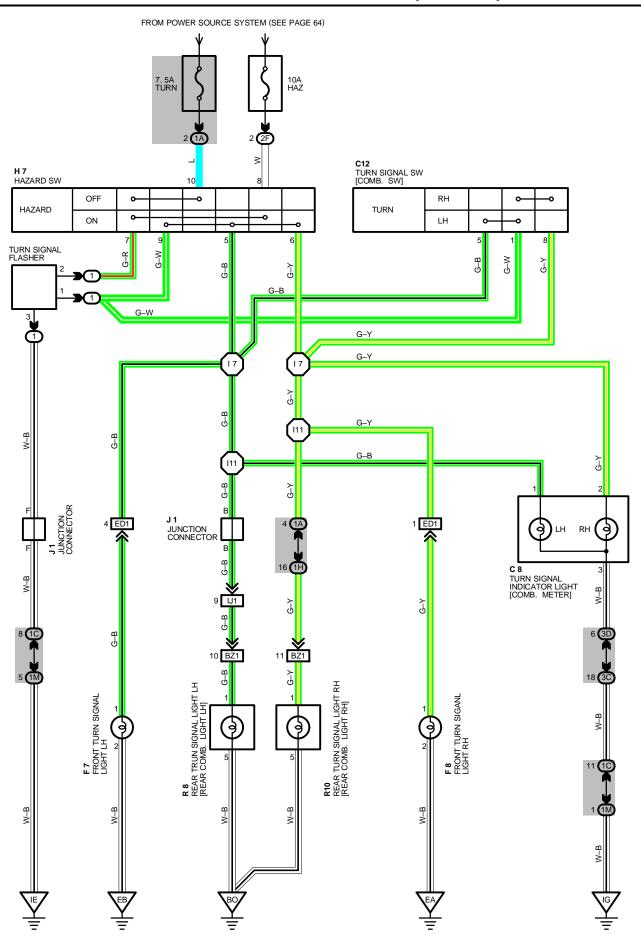
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)					
EE4	38 (1MZ-FE)	ENCINE WIDE AND COMI. WIDE					
EFI	40 (5S-FE)	ENGINE WIRE AND COWL WIRE					

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IE	42	LEFT KICK PANEL
IG	42	INSTRUMENT PANEL BRACE LH

TURN SIGNAL AND HAZARD WARNING LIGHT (S/D, C/P)



— SERVICE HINTS

TURN SIGNAL FLASHER

(1) 2-GROUND: APPROX. 12 VOLTS WITH IGNITION SW ON OR HAZARD SW ON

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

HAZARD SW ON

(1) 3-GROUND: ALWAYS CONTINUITY

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 8	32	F8	28 (1MZ-FE), 30 (5S-FE)	R 8	34 (S/D), 35 (C/P)
C12	32	H 7	33	R10	34 (S/D), 35 (C/P)
F 7	28 (1MZ-FE), 30 (5S-FE)	J 1	33		

: RELAY BLOCKS

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

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)			
1A	- 20	COM/LIMIDE AND 1/D NO. 1 (INSTRUMENT DANIEL LEET)			
1C	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1H	20	FLOOR NO. 1 WIRE J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
2F	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)			
3C	24	COMIL MIDE AND I/DAIO & /DELIIND COMBINATION METED)			
3D	- 24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)			

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

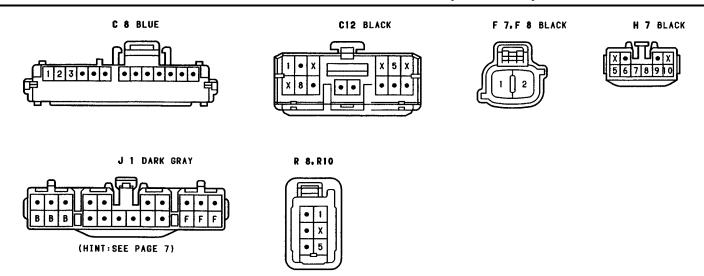
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)				
ED1	38 (1MZ-FE)	COWL WIRE AND ENGINE ROOM MAIN WIRE				
EDI	40 (5S-FE)	COWL WIRE AND ENGINE ROOM MAIN WIRE				
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE				
D74	46 (S/D)	LUCCACE DOOM NO. 4 WIDE AND ELOOP NO. 4 WIDE				
BZ1	48 (C/P)	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE				

: GROUND POINTS

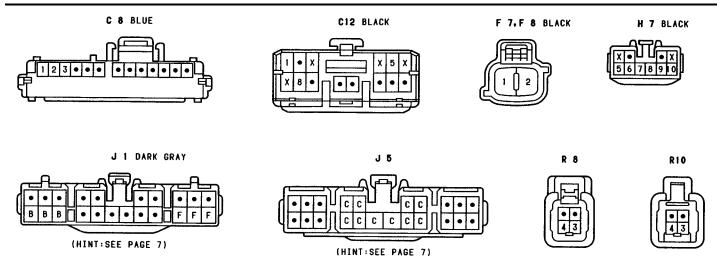
CODE	SEE PAGE	GROUND POINTS LOCATION				
	38 (1MZ-FE)	FRONT RIGHT FENDER				
EA	40 (5S-FE)	AONI MOITI LINDLIA				
EB	38 (1MZ-FE)	RONT LEFT FENDER				
ЕВ	40 (5S-FE)					
IE	42	LEFT KICK PANEL				
IG	42	NSTRUMENT PANEL BRACE LH				
во	46 (S/D)	LEFT QUARTER PILLAR				
ВО	48 (C/P)	LEFT QUARTER FILLAR				

CODE	SEE PAGE			SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
17	44	COWL WIRE	I11	44	COWL WIRE

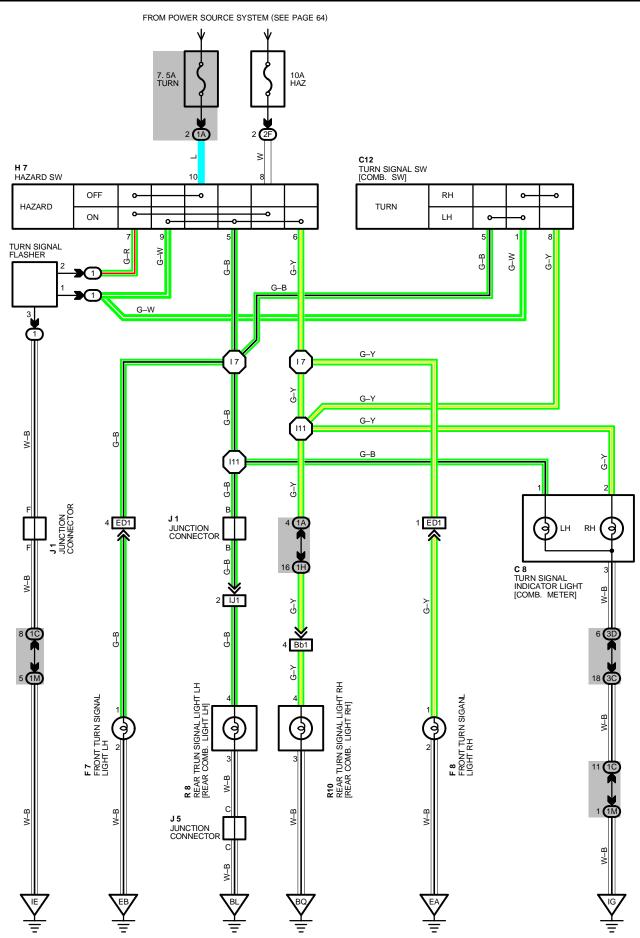
TURN SIGNAL AND HAZARD WARNING LIGHT (S/D, C/P)



TURN SIGNAL AND HAZARD WARNING LIGHT (W/G)



TURN SIGNAL AND HAZARD WARNING LIGHT (W/G)



SERVICE HINTS

TURN SIGNAL FLASHER

(1) 2-GROUND: APPROX. 12 VOLTS WITH IGNITION SW ON OR HAZARD SW ON

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

OR HAZARD SW ON

(1) 3-GROUND: ALWAYS CONTINUITY

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 8	32	F 8	28 (1MZ-FE), 30 (5S-FE)	J 5	36
C12	32	H 7	33	R 8	36 (W/G)
F 7	28 (1MZ-FE), 30 (5S-FE)	J 1	33	R10	36 (W/G)

: RELAY BLOCKS

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

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)				
1A	20	COMILIANDE AND MONO 4 (INCEDIMENT DANIEL LEET)				
1C	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)				
1H	20	FLOOR NO. 1 WIRE J/B NO. 1 (INSTRUMENT PANEL LEFT)				
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)				
2F	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)				
3C	24	COMILIANDE AND NO 2 (PELIND COMBINATION METER)				
3D	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)				

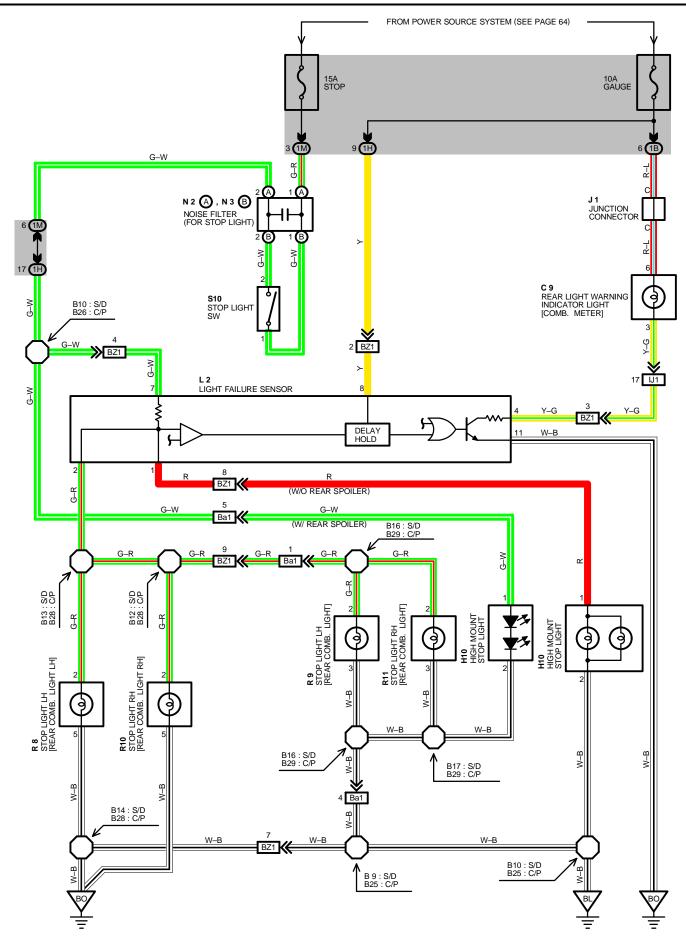
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)				
ED4	38 (1MZ-FE)	OWL WIRE AND ENGINE ROOM MAIN WIRE				
ED1	40 (5S-FE)					
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE				
Bb1	50 (W/G)	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE				

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION			
EA	38 (1MZ-FE)	FRONT RIGHT FENDER			
EA	40 (5S-FE)	FRONT RIGHT FENDER			
EB	38 (1MZ-FE)	FRONT LEFT FENDER			
ЕВ	40 (5S-FE)	FRONT LEFT FENDER			
IE	42	LEFT KICK PANEL			
IG	42	INSTRUMENT PANEL BRACE LH			
	46 (S/D)				
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR			
	50 (W/G)				
BQ	50 (W/G)	LOWER BACK PANEL CENTER			

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
17	44	COWL WIRE	I11	44	COWL WIRE



SYSTEM OUTLINE

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 7** OF THE LIGHT FAILURE SENSOR TO **TERMINALS 1, 2** CHANGES, SO THE LIGHT FAILURE SENSOR DETECTS THE DISCONNECTION AND THE WARNING CIRCUIT OF THE LIGHT FAILURE SENSOR IS ACTIVATED.

AS A RESULT, THE CURRENT FLOWS FROM **TERMINAL 4** OF THE LIGHT FAILURE SENSOR \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

S10 STOP LIGHT SW

2-1: CLOSED WITH BRAKE PEDAL DEPRESSED

L 2 LIGHT FAILURE SENSOR

- 1, 2, 7-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

CODE	SEE PAGE	CC	DE	SEE PAGE	CODE	SEE PAGE
C 9	32	N 2	Α	33	R10	34 (S/D), 35 (C/P)
H10	34 (S/D), 35 (C/P)	N 3	В	33	R11	34 (S/D), 35 (C/P)
J 1	33	R	8	34 (S/D), 35 (C/P)	S10	33
L 2	34 (S/D), 35 (C/P)	R	9	34 (S/D), 35 (C/P)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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

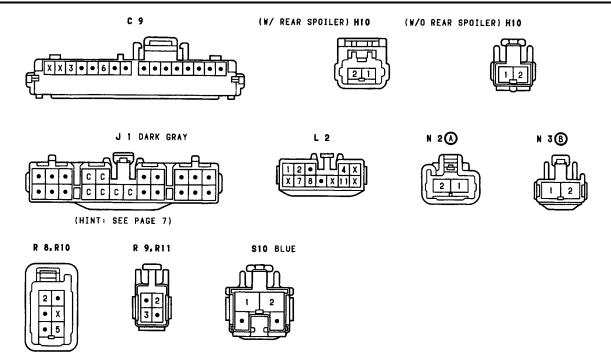
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)					
IJ1	42	LOOR NO. 1 WIRE AND COWL WIRE					
BZ1	46 (S/D)	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE					
BZI	48 (C/P)						
Do4	46 (S/D)	FLOOD NO 4 WIDE AND LUCCACE DOOM NO 2 WIDE					
Ba1	48 (C/P)	FLOOR NO. 1 WIRE AND LUGGAGE ROOM NO. 2 WIRE					

: GROUND POINTS

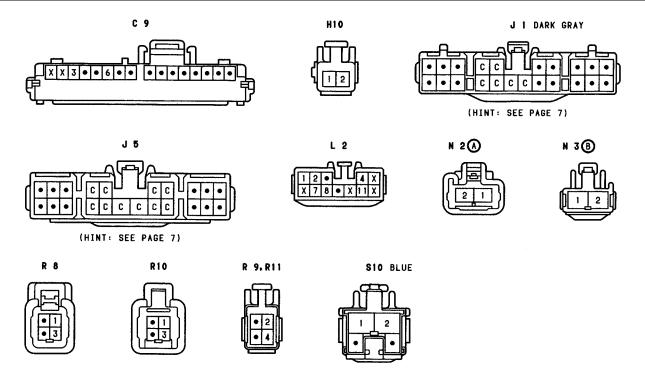
CODE	SEE PAGE	GROUND POINTS LOCATION			
	46 (S/D)				
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR			
	50 (W/G)				
BQ	50 (W/G)	LOWER BACK PANEL CENTER			

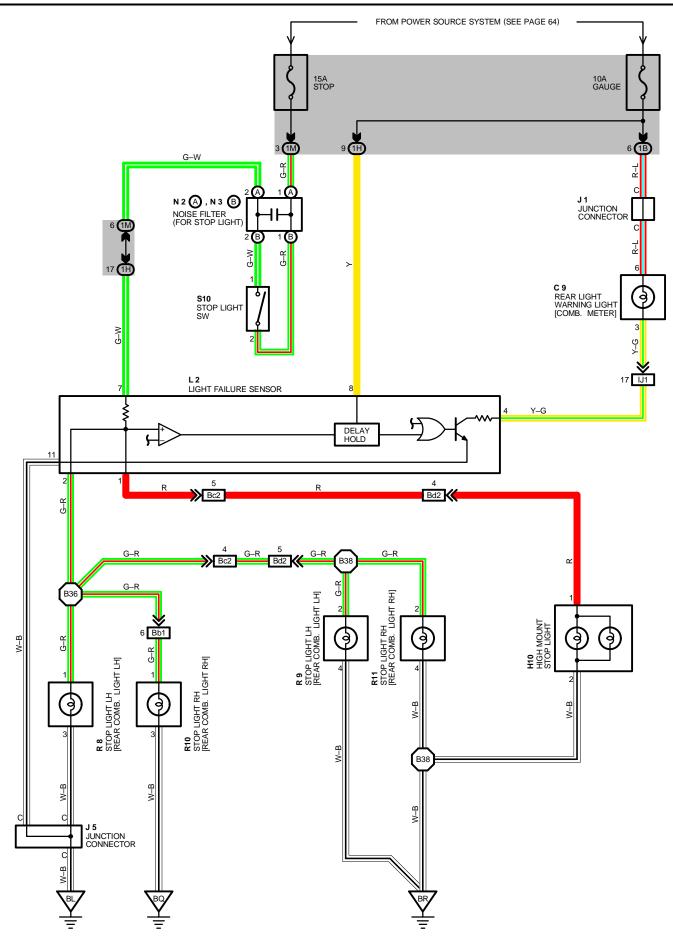
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	
B 9	46 (C/D)	FLOOR NO. 1 WIRE	B17	46 (S/D)	LUGGAGE ROOM NO. 2 WIRE	
B10	46 (S/D)	FLOOR NO. 1 WIRE	B25	40 (C/D)	FLOOR NO. 1 WIRE	
B12	46 (S/D)	LUGGAGE ROOM NO. 1 WIRE	B26	48 (C/P)	PLOOR NO. 1 WIRE	
B13			B28	48 (C/P)	LUGGAGE ROOM NO. 1 WIRE	
B14			B29	48 (C/P)	LUGGAGE ROOM NO. 2 WIRE	
B16	46 (S/D)	LUGGAGE ROOM NO. 2 WIRE				

STOP LIGHT (S/D, C/P)



STOP LIGHT (W/G)





SYSTEM OUTLINE

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 7** OF THE LIGHT FAILURE SENSOR TO **TERMINALS 1, 2** CHANGES, SO THE LIGHT FAILURE SENSOR DETECTS THE DISCONNECTION AND THE WARNING CIRCUIT OF THE LIGHT FAILURE SENSOR IS ACTIVATED.

AS A RESULT, THE CURRENT FLOWS FROM **TERMINAL 4** OF THE LIGHT FAILURE SENSOR \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

S10 STOP LIGHT SW

2-1: CLOSED WITH BRAKE PEDAL DEPRESSED

L 2 LIGHT FAILURE SENSOR

- 1, 2, 7-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

CODE	SEE PAGE	CC	DE	SEE PAGE	CODE	SEE PAGE
C 9	32	L	2	36 (W/G)	R 9	36 (W/G)
H10	36 (W/G)	N 2	Α	33	R10	36 (W/G)
J 1	33	N 3	В	33	R11	36 (W/G)
J 5	36 (W/G)	R	8	36 (W/G)	S10	33

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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

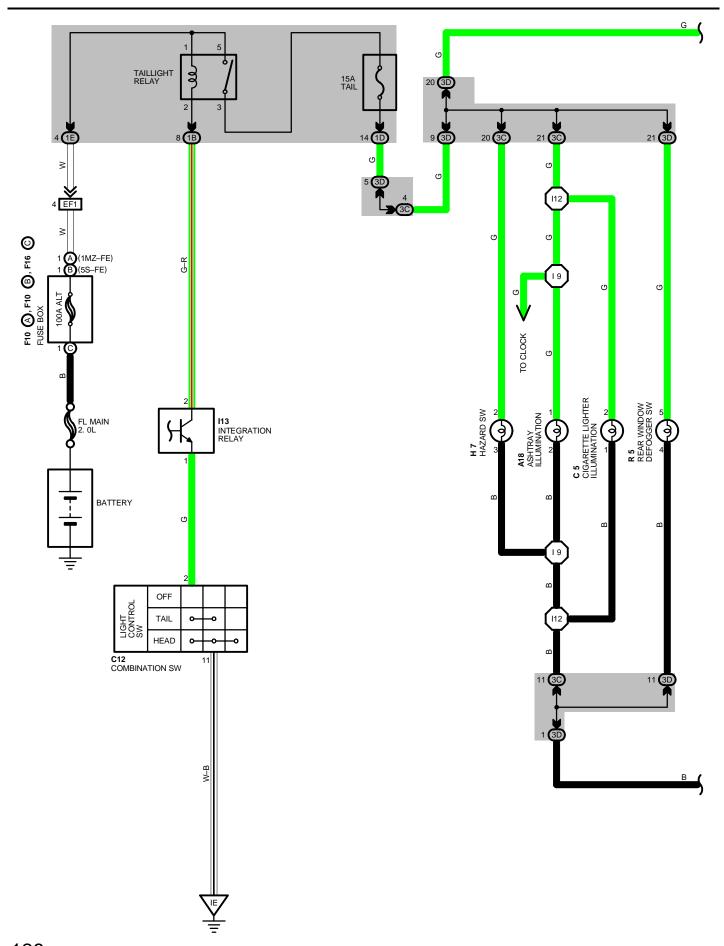
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

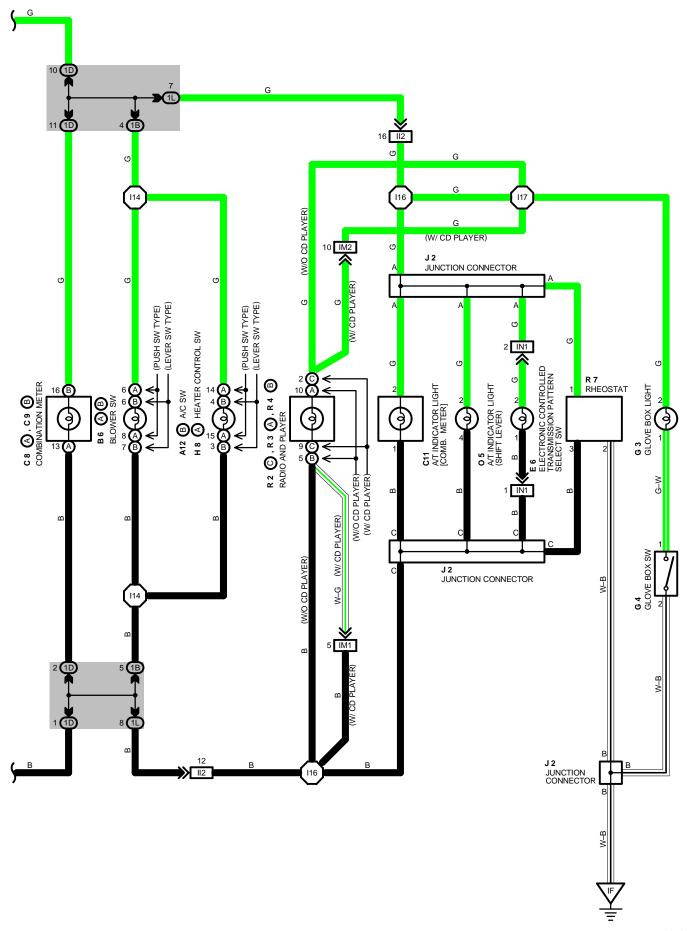
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE
Bb1	50 (W/G)	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE
Bc2	50 (W/G)	BACK DOOR NO. 1 WIRE AND FLOOR NO. 1 WIRE
Bd2	50 (W/G)	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
	46 (S/D)	
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR
	50 (W/G)	
BQ	50 (W/G)	LOWER BACK PANEL CENTER
BR	50 (W/G)	BACK DOOR CENTER

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
B36	50 (W/G)	FLOOR NO. 1 WIRE	B38	50 (W/G)	BACK DOOR NO. 2 WIRE





ILLUMINATION

SERVICE HINTS -

TAILLIGHT RELAY

5-3: 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)

R7 RHEOSTAT

3-2: APPROX. 12 VOLTS WITH RHEOSTAT FULLY TURNED COUNTERCLOCKWISE AND 0 VOLTS WITH FULLY TURNED CLOCKWISE

: PARTS LOCATION

CC	DE	SEE PAGE	CO	DE	SEE PAGE	CO	DE	SEE PAGE
A12	В	32	E	6	32	J	2	33
Α	18	32	F10	Α	28 (1MZ-FE), 30 (5S-FE)	0	5	33
В 6	Α	32	F 10	В	28 (1MZ-FE), 30 (5S-FE)	R 2	С	33
В	В	32	F16	С	28 (1MZ-FE), 30 (5S-FE)	R 3	Α	33
С	5	32	G	3	33	R 4	В	33
C 8	Α	32	G	4	33	R	5	33
C 9	В	32	Н	7	33	R	7	33
С	11	32	H 8	Α	33			
С	12	32	I1	3	33			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)			
1B					
1D	00	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1E	20				
1L					
3C	24	COMI MIDE AND 1/2 NO. 2 (PEHIND COMBINATION METER)			
3D	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)			

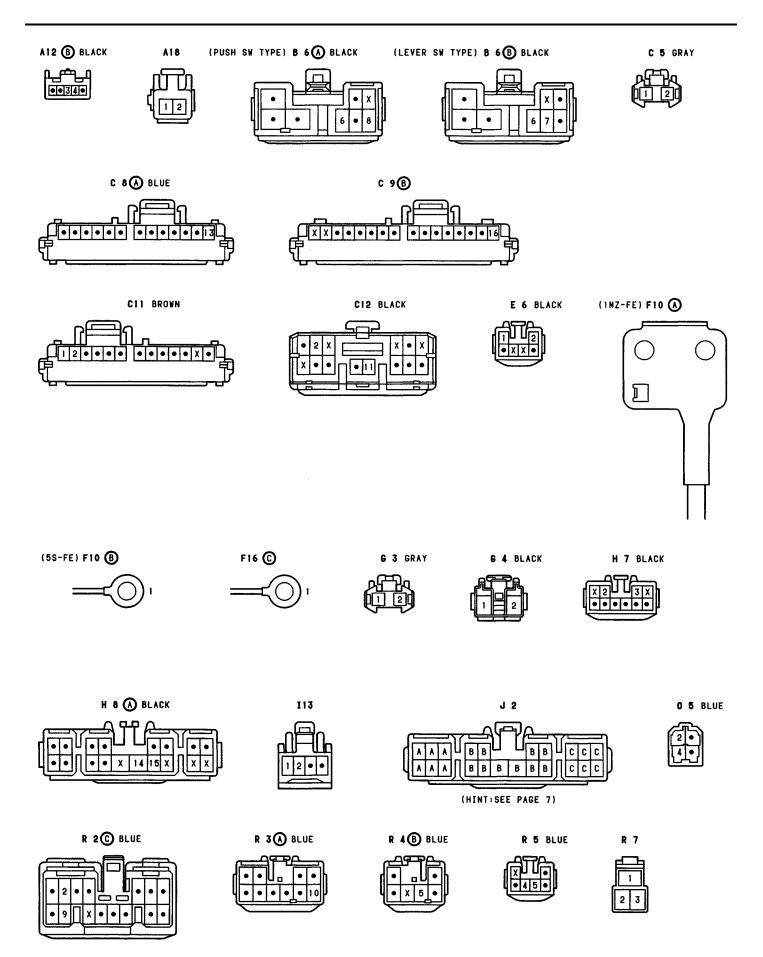
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EF1	38 (1MZ-FE)	ENGINE WIRE AND COWL WIRE
EFI	40 (5S-FE)	ENGINE WIRE AND COWL WIRE
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE
IM1	40	INSTRUMENT PANEL WIRE AND CONSOLE BOX WIRE
IM2	42	INSTRUMENT PANEL WIRE AND CONSOLE BOX WIRE
IN1	42	INSTRUMENT PANEL WIRE AND SWITCH WIRE

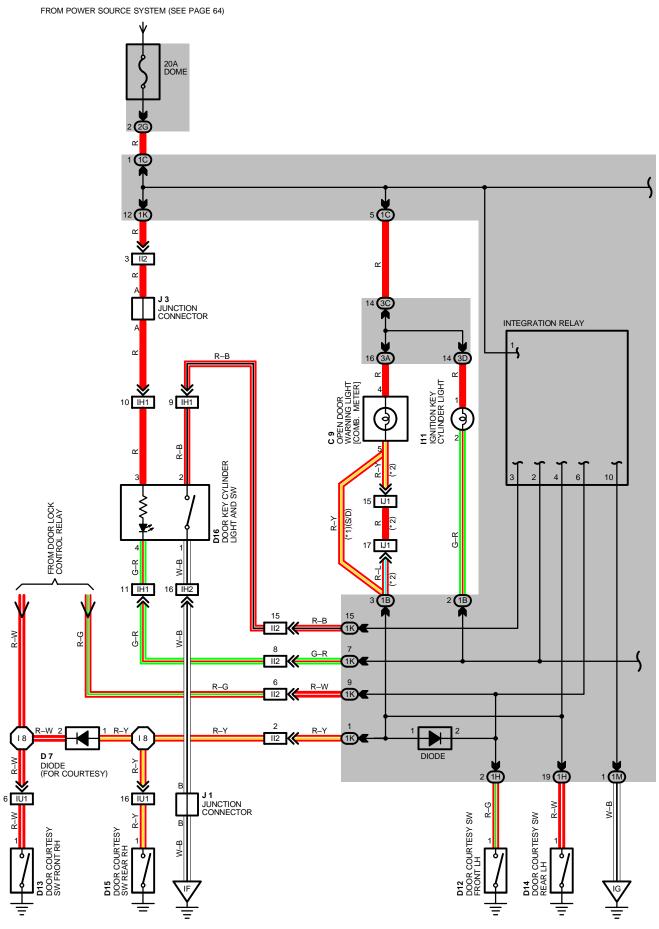
: GROUND POINTS

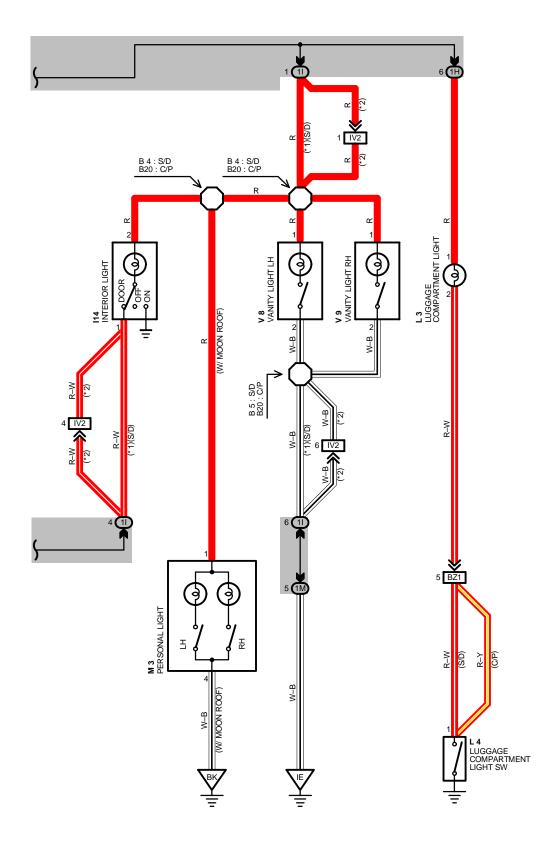
CODE	SEE PAGE	GROUND POINTS LOCATION
IE	42	LEFT KICK PANEL
IF	42	LEFT NICK PAINEL

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	
19			I16	44	INICTOLIMENT DANIEL WIDE	
l12	44	COWL WIRE	l17	44	INSTRUMENT PANEL WIRE	
I14						



INTERIOR LIGHT (S/D, C/P w/ KEY ILLUMINATED ENTRY)





INTERIOR LIGHT (S/D, C/P w/ KEY ILLUMINATED ENTRY)

*1 : TMC MADE *2 : TMM MADE

SERVICE HINTS

INTEGRATION RELAY

4-GROUND: APPROX. 12 VOLTS WITH DOOR CLOSED

0 VOLTS WITH EACH DOOR OPEN

D12, D13, D14, D15 DOOR COURTESY SW 1-GROUND : CLOSED WITH DOOR OPEN L 4 LUGGAGE COMPARTMENT LIGHT SW

1-GROUND: CLOSED WITH LUGGAGE COMPARTMENT DOOR OPEN

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 9	32	D16	34 (S/D), 35 (C/P)	L 4	34 (S/D), 35 (C/P)
D 7	32	l11	33	М 3	34 (S/D), 35 (C/P)
D12	34 (S/D), 35 (C/P)	l14	34 (S/D), 35 (C/P)	V 8	34 (S/D), 35 (C/P)
D13	34 (S/D), 35 (C/P)	J 1	33	V 9	34 (S/D), 35 (C/P)
D14	34 (S/D), 35 (C/P)	J 3	33		
D15	34 (S/D), 35 (C/P)	L3	34 (S/D), 35 (C/P)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)		
1B	20	COMIL MIDE AND JONG 4 (INCEDIMENT DANIEL LEET)		
1C	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)		
1H	20	FLOOR NO. 1 WIRE J/B NO. 1 (INSTRUMENT PANEL LEFT)		
11	20 (*1)	ROOF WIRE AND J/B NO. 1 (INSTRUMENT PANEL) TMC MADE		
"	20 (*2)	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL) TMM MADE		
1K	20	COMIL MIDE AND 1/P NO. 1 (INSTRUMENT DANIEL LEET)		
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)		
2G	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				

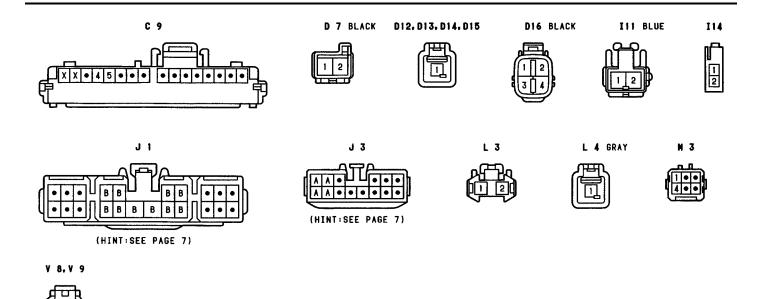
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IH1	42	FRONT ROOF LILWIPE AND INCTRIMENT DANIEL WIDE
IH2	42	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE
IU1	44	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE
IV2	44	ROOF WIRE AND COWL WIRE MADE IN USA
BZ1	46 (S/D)	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE
	48 (C/P)	LUGGAGE ROOM NO. I WIRE AND FLOOR NO. I WIRE

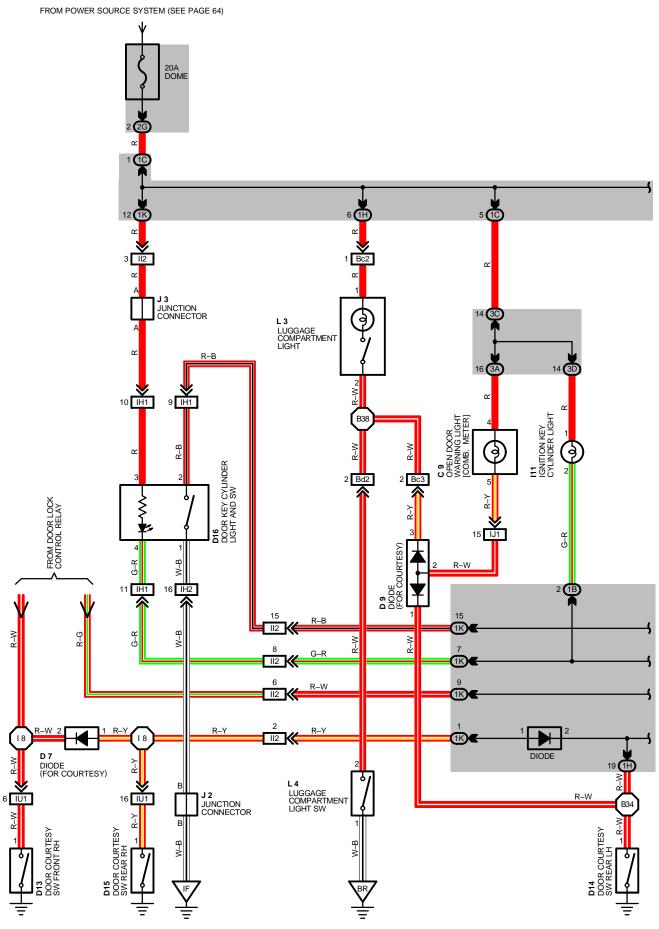
: GROUND POINTS

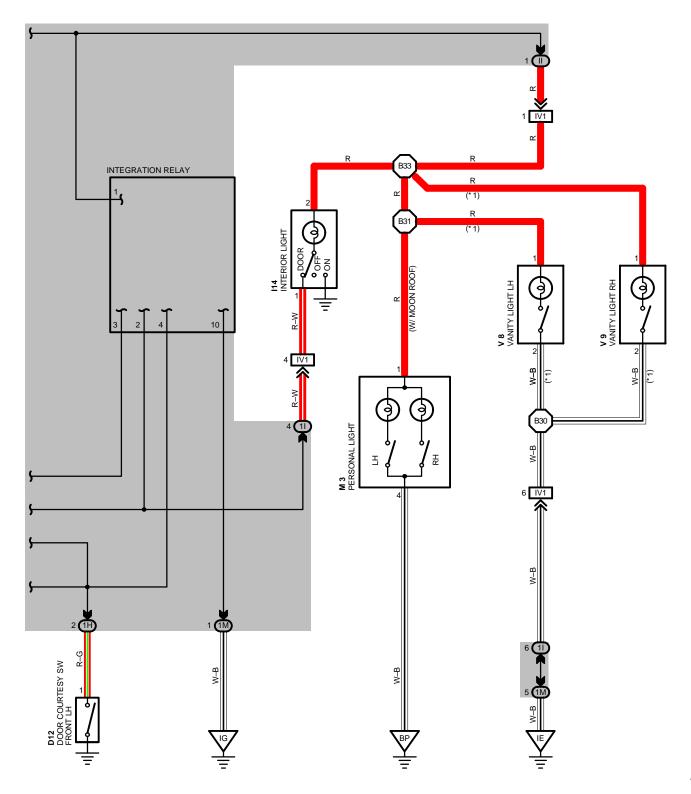
	-			
	CODE	SEE PAGE	GROUND POINTS LOCATION	
	IF	42	FT KICK PANEL	
	IG	42	INSTRUMENT PANEL BRACE LH	
	вк	46 (S/D)	ROOF LEFT	
		48 (C/P)	ROOF LEFT	

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	
18	44	INSTRUMENT PANEL WIRE	B 5	46 (S/D)	POOE WIPE	
B 4	46 (S/D)	ROOF WIRE	B20	48 (C/P)	ROOF WIRE	



INTERIOR LIGHT (W/G w/ KEY ILLUMINATED ENTRY)





INTERIOR LIGHT (W/G w/ KEY ILLUMINATED ENTRY)

SERVICE HINTS

INTEGRATION RELAY

4-GROUND: APPROX. 12 VOLTS WITH DOOR CLOSED 0 VOLTS WITH EACH DOOR OPEN

D12, D13, D14, D15 DOOR COURTESY SW 1-GROUND : CLOSED WITH DOOR OPEN L 4 LUGGAGE COMPARTMENT LIGHT SW

2-1: CLOSED WITH LUGGAGE COMPARTMENT DOOR OPEN

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 9	32	D15	36 (W/G)	L 3	36 (W/G)
D 7	32	D16	36 (W/G)	L 4	36 (W/G)
D 9	36	I11	33	М 3	36 (W/G)
D12	36 (W/G)	I14	36 (W/G)	V 8	36 (W/G)
D13	36 (W/G)	J 2	33	V 9	36 (W/G)
D14	36 (W/G)	J 3	33		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1B	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1C	20	COWL WIRE AND 3/B NO. 1 (INSTRUMENT PANEL LEFT)
1H	20	FLOOR NO. 1 WIRE J/B NO. 1 (INSTRUMENT PANEL LEFT)
11	20	ROOF WIRE AND J/B NO. 1 (INSTRUMENT PANEL) TMC MADE
11	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL) TMM MADE
1K	20	COMILIANDE AND 1/D NO. 4 (INCEDIMENT DANIEL LEET)
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
2G	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		

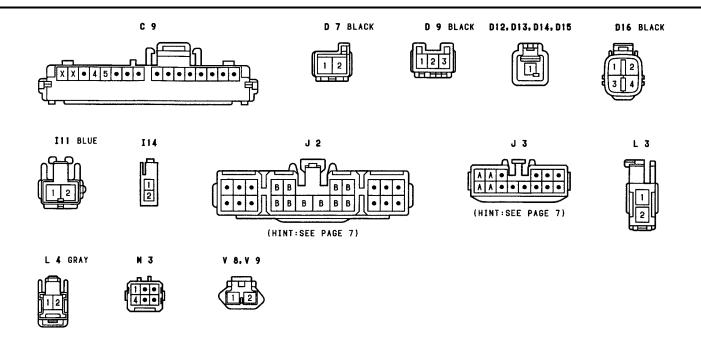
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

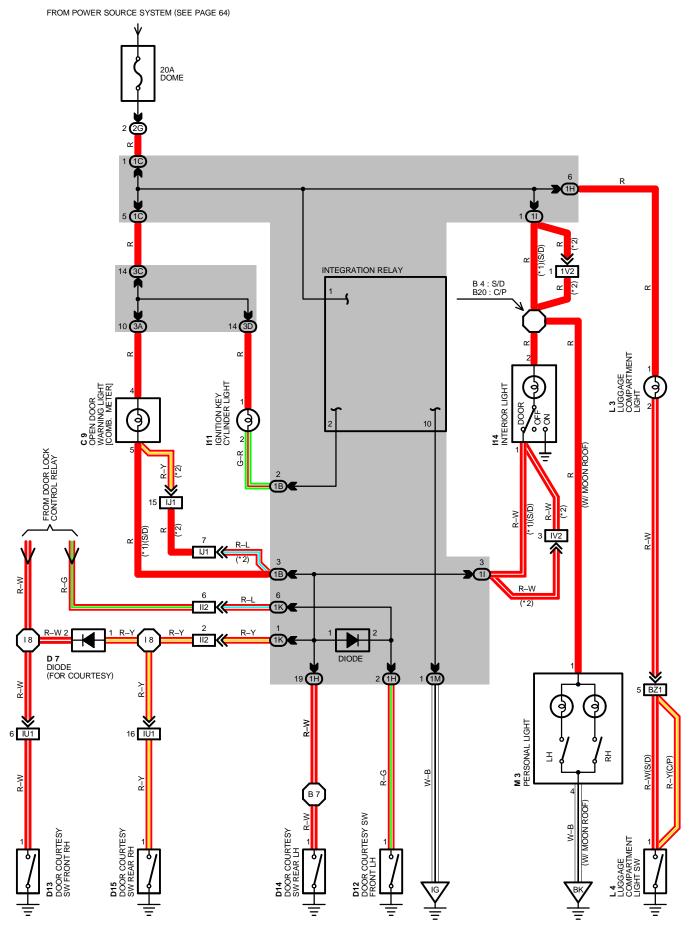
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IH1	42	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE
IH2	42	FRONT DOOR LH WIRE AND INSTROMENT PANEL WIRE
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE
IT1	44	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE
IT2	44	
IU1	44	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE
IV1	44	ROOF WIRE AND COWL WIRE
Bc2	FO (M/C)	BACK DOOR NO. 1 WIRE AND FLOOR NO. 1 WIRE
Bc3	50 (W/G)	BACK DOOK NO. I WIKE AND FLOOK NO. I WIKE
Bd2	50 (W/G)	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IE	42	LEET VICK DANIEL
IF		LEFT KICK PANEL
IG	42	INSTRUMENT PANEL BRACE LH
BP	50 (W/G)	BACK PANEL CENTER
BR	50 (W/G)	BACK DOOR CENTER

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
18	44	INSTRUMENT PANEL WIRE	B33	50 (W/G)	ROOF WIRE
B30	50 (W/G)	BOOE WIRE	B39	50 (W/G)	ROOF WIRE NO. 1 WIRE
B31	50 (W/G)	ROOF WIRE			





SERVICE HINTS

INTEGRATION RELAY

6-GROUND: APPROX. 12 VOLTS WITH DOOR CLOSED 0 VOLTS WITH EACH DOOR OPEN

D12, D13, D14, D15 DOOR COURTESY SW 1-GROUND : CLOSED WITH DOOR OPEN L 4 LUGGAGE COMPARTMENT LIGHT SW

1-GROUND: CLOSED WITH LUGGAGE COMPARTMENT DOOR OPEN

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 9	32	D14	34 (S/D), 35 (C/P)	J 3	33
D 7	32	D15	34 (S/D), 35 (C/P)	L 3	34 (S/D), 35 (C/P)
D12	34 (S/D), 35 (C/P)	I 11	33	L 4	34 (S/D), 35 (C/P)
D13	34 (S/D), 35 (C/P)	l14	34 (S/D), 35 (C/P)	М 3	34 (S/D), 35 (C/P)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)			
1B	- 20	COMIL MIDE AND 1/D NO. 4 /INSTRUMENT DANIEL LEFTY			
1C	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1H	20	FLOOR NO. 1 WIRE J/B NO. 1 (INSTRUMENT PANEL LEFT)			
11	20 (*1)	ROOF WIRE AND J/B NO. 1 (INSTRUMENT PANEL) TMC MADE			
"	20 (*2)	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL) TMM MADE			
1K	20	COMUNIDE AND UD NO 4 (INICIDINENT DANIEL LEET)			
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
2G	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	1				

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

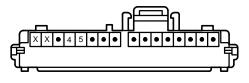
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)			
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE			
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE			
IU1	44	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE			
IV2	44	ROOF WIRE AND COWL WIRE MADE IN USA			
BZ1	46 (S/D)	LUCCACE DOOM NO 4 WIDE AND ELOOP NO 4 WIDE			
	48 (C/P)	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE			

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION		
IG	G 42 INSTRUMENT PANEL BRACE LH			
ВК	46 (S/D)	ROOF LEFT		
DK.	48 (C/P)	ROOF LEFT		

: SPLICE POINTS

COD	E SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
18	44	INSTRUMENT PANEL WIRE	B 6	46 (S/D)	FLOOR NO. 1 WIRE
10	44		В7		
B 4	46 (S/D)	ROOF WIRE	B20	48 (C/P)	ROOF WIRE



C 9



D7 BLACK



D12, D13, D14, D15



I11 BLUE



114

LJ

L4 GRAY

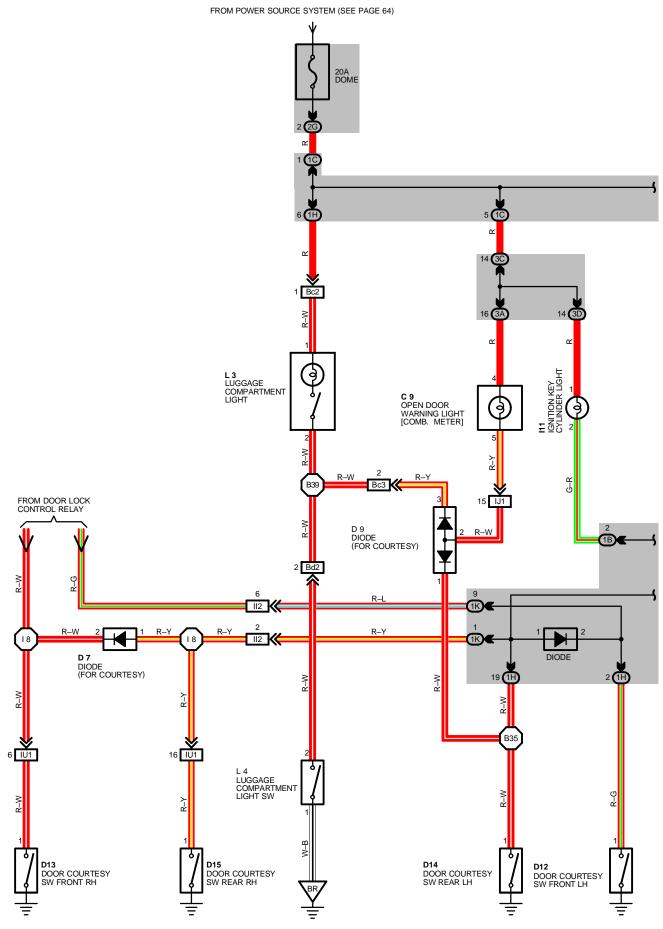
М 3

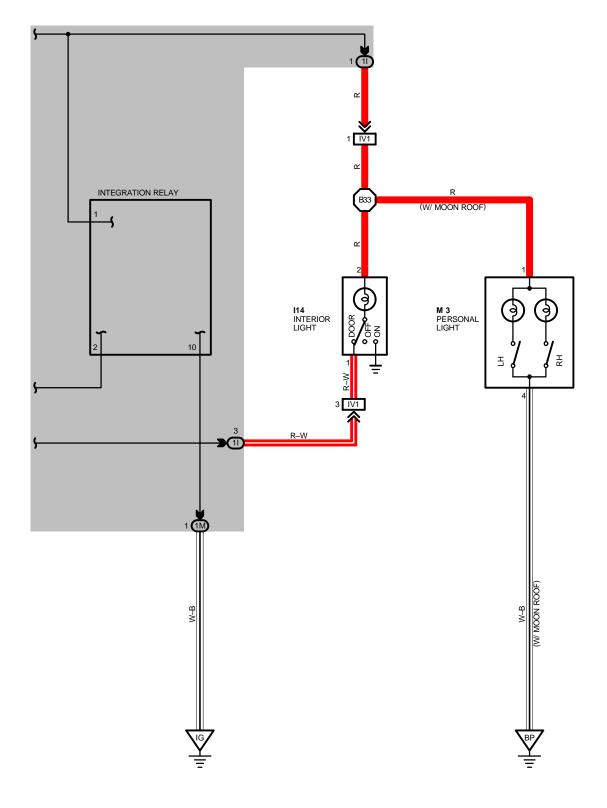






INTERIOR LIGHT (W/G w/o KEY ILLUMINATED ENTRY)





INTERIOR LIGHT (W/G w/o KEY ILLUMINATED ENTRY)

SERVICE HINTS

INTEGRATION RELAY

6-GROUND: APPROX. 12 VOLTS WITH DOOR CLOSED

0 VOLTS WITH EACH DOOR OPEN

D12, D13, D14, D15 DOOR COURTESY SW 1-GROUND : CLOSED WITH DOOR OPEN L 4 LUGGAGE COMPARTMENT LIGHT SW

2-1: CLOSED WITH LUGGAGE COMPARTMENT DOOR OPEN

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 9	32	D14	36 (W/G)	L 3	36 (W/G)
D 7	32	D15	36 (W/G)	L 4	36 (W/G)
D 9	36 (W/G)	I11	33	М 3	36 (W/G)
D12	36 (W/G)	l14	36 (W/G)		
D13	36 (W/G)	J 3	33		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)				
1B	20	COMI MIDE AND 1/D NO. 4 (INCEDIMENT DANIEL LEET)				
1C	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)				
1H 20 FLOOR NO. 1 WIRE J/B NO. 1 (INSTRUMENT PANEL LEFT)		FLOOR NO. 1 WIRE J/B NO. 1 (INSTRUMENT PANEL LEFT)				
11	20	ROOF WIRE AND J/B NO. 1 (INSTRUMENT PANEL) TMC MADE				
"	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL) TMM MADE				
1K	20	COMIL MIDE AND 1/D NO. 4 (INSTRUMENT DANIEL LEET)				
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)				
2E	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)				
3A						
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)				
3D						

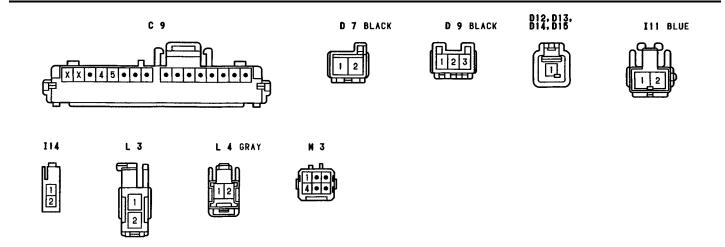
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

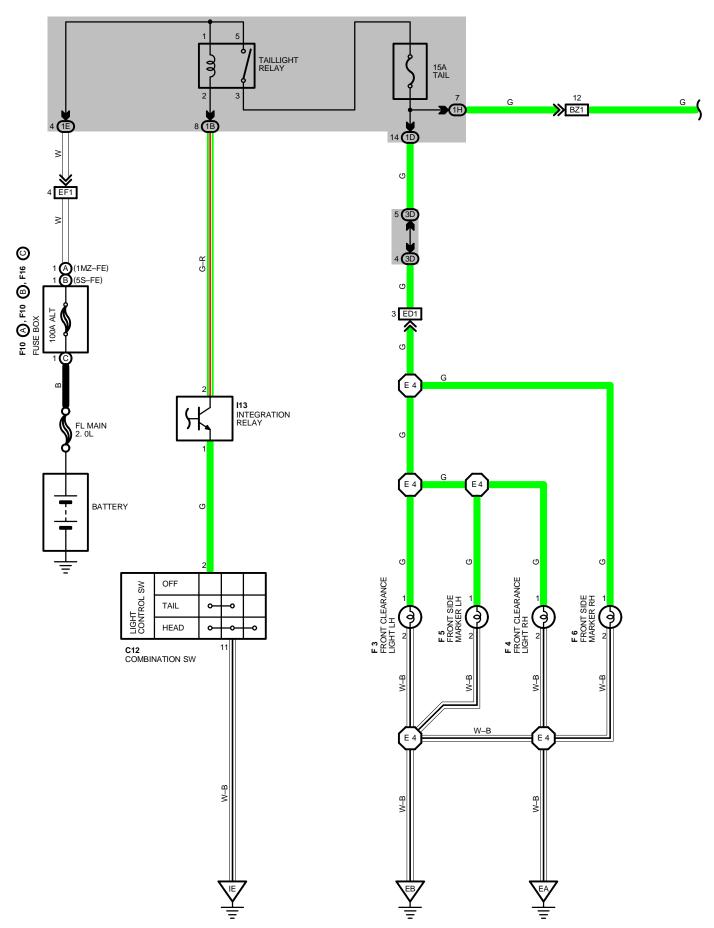
CODE SEE PAGE JOINING WIRE HARNESS		JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)			
IH1	42	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE			
IH2	42	TOWN DOOK LIT WIKE AND INSTRUMENT FAINEL WIKE			
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE			
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE			
IT1	44	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE			
IT2	44	FRONT DOOR KIT WIKE AND INSTROMENT PANEL WIKE			
IU1 44 FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE		FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE			
IV1	44	ROOF WIRE AND COWL WIRE			
Bc2	EO (M/C)	DACK DOOD NO 4 WIDE AND ELOOP NO 4 WIDE			
Bc3	50 (W/G)	BACK DOOR NO. 1 WIRE AND FLOOR NO. 1 WIRE			
Bd2	50 (W/G)	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE			

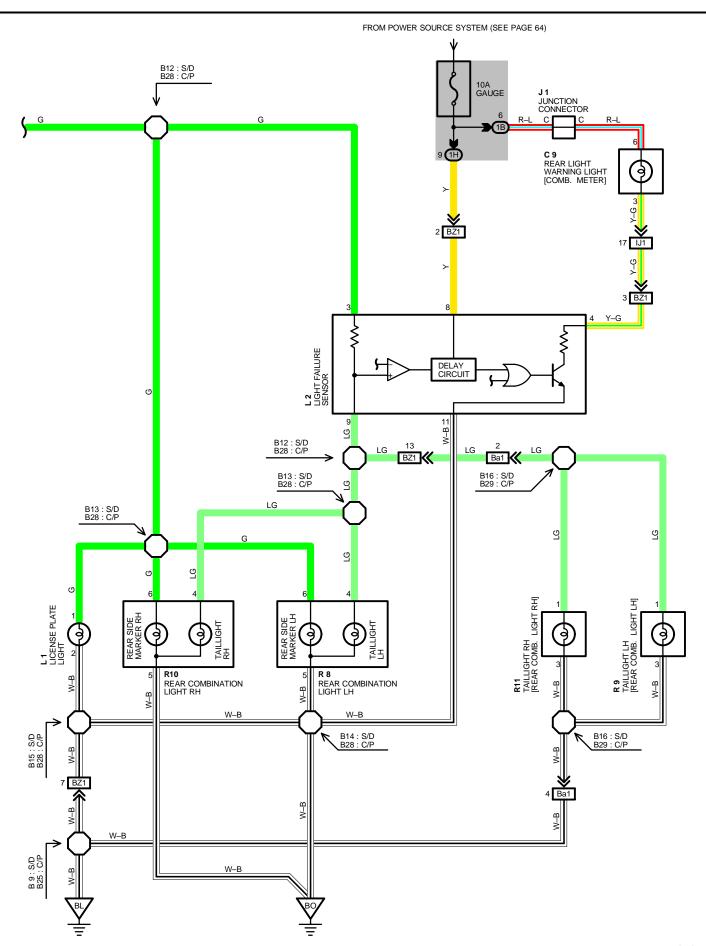
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IG	42	INSTRUMENT PANEL BRACE LH
BP	50 (W/G)	BACK PANEL CENTER
BR	50 (W/G)	BACK DOOR CENTER

	_					
ſ	CODE	DDE SEE PAGE WIRE HARNESS WITH SPLICE POINTS		CODE	SEE PAGE WIRE HARNESS WITH SPLICE PO	
Ī	18	44	INSTRUMENT PANEL WIRE	B35	50 (W/G)	FLOOR NO. 1 WIRE
	B33	50 (W/G)	ROOF WIRE	B39	50 (W/G)	BACK DOOR NO. 1 WIRE







TAILLIGHT (S/D, C/P)

SYSTEM OUTLINE

WHEN THE LIGHT CONTROL SW IS TURNED TO TAIL OR HEAD POSITION, THE CURRENT FLOWS TO TERMINAL 3 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

WHEN THE IGNITION SW ON AND THE LIGHT CONTROL SW TURNED TO **TAIL** OR **HEAD** POSITION, IF THE TAILLIGHT CIRCUIT IS OPEN, THE LIGHT FAILURE SENSOR DETECTS THE FAILURE BY THE CHANGE IN CURRENT FLOWING FROM **TERMINAL 3** OF THE LIGHT FAILURE SENSOR TO **TERMINAL 9** AND THE WARNING CIRCUIT OF THE LIGHT FAILURE SENSOR IS ACTIVATED.

AS A RESULT, THE CURRENT FLOWS FLOM **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

1-4: 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

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

11-GROUND: ALWAYS CONTINUITY

: PARTS LOCATION

CODE	SEE PAGE	CC	DDE	SEE PAGE	CODE	SEE PAGE
C 9	32	F	6	28 (1MZ-FE), 30 (5S-FE)	L 1	34 (S/D), 35 (C/P)
C12	32	F10	Α	28 (1MZ-FE), 30 (5S-FE)	L 2	34 (S/D), 35 (C/P)
D 4	32	FIU	В	28 (1MZ-FE), 30 (5S-FE)	R 8	34 (S/D), 35 (C/P)
F 3	28 (1MZ-FE), 30 (5S-FE)	F16	С	28 (1MZ-FE), 30 (5S-FE)	R 9	34 (S/D), 35 (C/P)
F 4	28 (1MZ-FE), 30 (5S-FE)	ľ	13	33	R10	34 (S/D), 35 (C/P)
F 5	28 (1MZ-FE), 30 (5S-FE)	J	1	33	R11	34 (S/D), 35 (C/P)

: 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 J/B NO. 1 (INSTRUMENT PANEL LEFT)
3D	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)

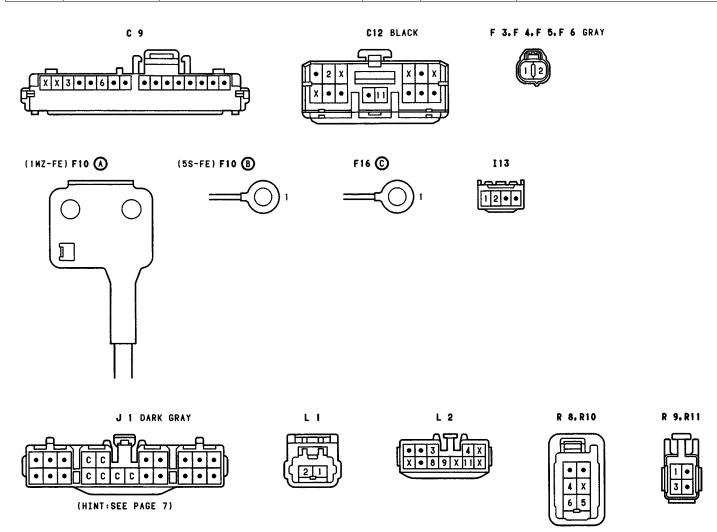
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

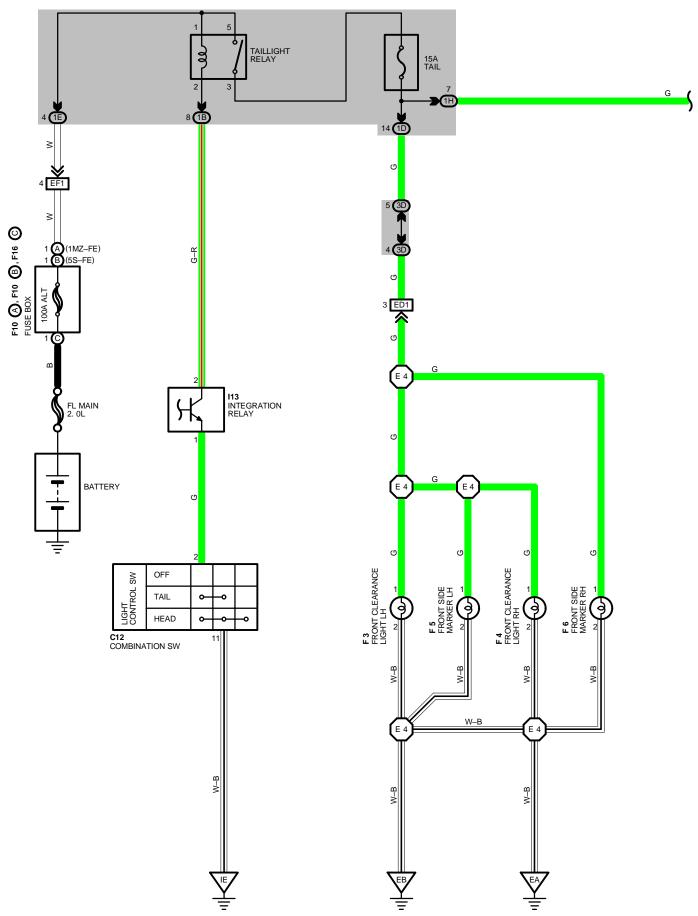
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)	
ED1	38 (1MZ-FE)	COWL WIRE AND ENGINE ROOM MAIN WIRE	
וטם	40 (5S-FE)	COWL WIRE AND ENGINE ROOM MAIN WIRE	
EF1	38 (1MZ-FE)	ENGINE WIRE AND COWL WIRE	
EFI	40 (5S-FE)	ENGINE WIRE AND COWL WIRE	
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE	
BZ1	46 (S/D)	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE	
DZ I	48 (C/P)	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE	
Do4	46 (S/D)	FLOOR NO. 1 WIRE AND LUGGAGE ROOM NO. 2 WIRE	
Ba1	46 (S/D)	FLOOR NO. 1 WIRE AND LUGGAGE ROOM NO. 2 WIRE	

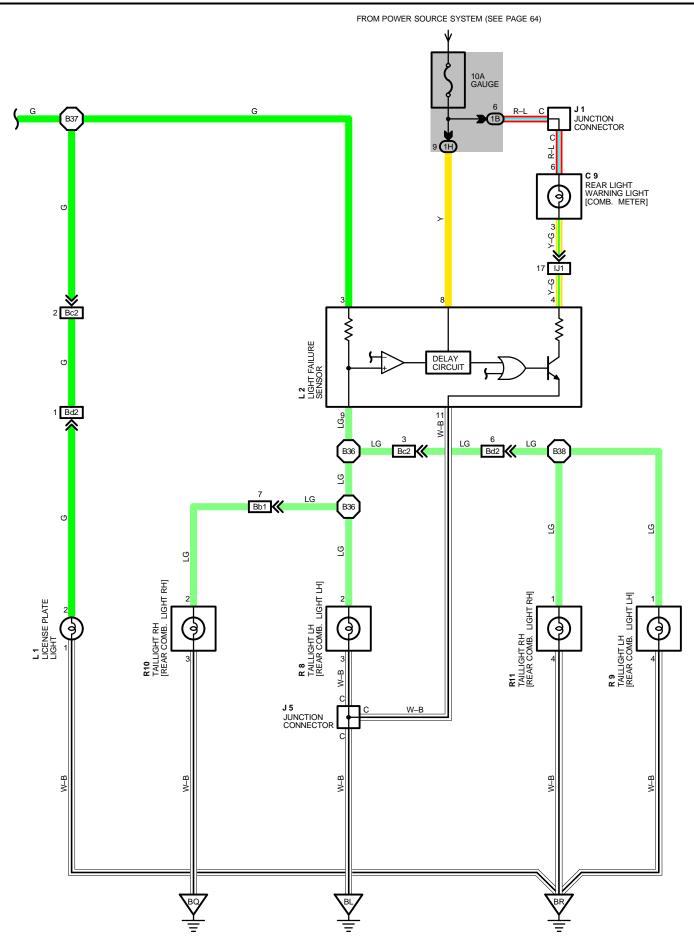
CODE	SEE PAGE	GROUND POINTS LOCATION			
EA	38 (1MZ-FE)	FRONT RIGHT FENDER			
LA	40 (5S-FE)	FRONT RIGHT FENDER			
EB	38 (1MZ-FE)	FRONT LEFT FENDER			
EB	40 (5S-FE)	JNI LEFI FENDER			
IE	42	LEFT KICK PANEL			
	46 (S/D)				
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR			
	50 (W/G)				
BQ	50 (W/G)	LOWER BACK PANEL CENTER			

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 4	E 4 38 (1MZ–FE) ENGINE ROOM MAIN WIRE		B15	46 (S/D)	LUGGAGE ROOM NO. 1 WIRE
E 4	40 (5S-FE)	ENGINE ROOM MAIN WIRE	B16	46 (S/D)	LUGGAGE ROOM NO. 2 WIRE
B 9	46 (S/D)	FLOOR NO. 1 WIRE	B25	48 (C/P)	FLOOR NO. 1 WIRE
B12			B28	48 (C/P)	LUGGAGE ROOM NO. 1 WIRE
B13	46 (S/D)	LUGGAGE ROOM NO. 1 WIRE	B29	48 (C/P)	LUGGAGE ROOM NO. 2 WIRE
B14					







TAILLIGHT (W/G)

SYSTEM OUTLINE

WHEN THE LIGHT CONTROL SW IS TURNED TO TAIL OR HEAD POSITION, THE CURRENT FLOWS TO TERMINAL 3 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 TAILLIGHT CIRCUIT IS OPEN, THE LIGHT FAILURE SENSOR DETECTS THE FAILURE BY THE CHANGE IN CURRENT FLOWING FROM **TERMINAL 3** OF THE LIGHT FAILURE SENSOR TO **TERMINAL 9** 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

L2 LIGHT FAILURE SENSOR

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

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

11-GROUND: ALWAYS CONTINUITY

: PARTS LOCATION

CODE	SEE PAGE	CC	DE	SEE PAGE	CODE	SEE PAGE
C 9	32	F10	Α	28 (1MZ-FE), 30 (5S-FE)	L1	36 (W/G)
C12	32	F 10	В	28 (1MZ-FE), 30 (5S-FE)	L 2	36 (W/G)
F 3	28 (1MZ-FE), 30 (5S-FE)	F16	С	28 (1MZ-FE), 30 (5S-FE)	R 8	36 (W/G)
F 4	28 (1MZ-FE), 30 (5S-FE)	I1	13	33	R 9	36 (W/G)
F 5	28 (1MZ-FE), 30 (5S-FE)	J	1	33	R10	36 (W/G)
F6	28 (1MZ-FE), 30 (5S-FE)	J	5	36 (W/G)	R11	36 (W/G)

: 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 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

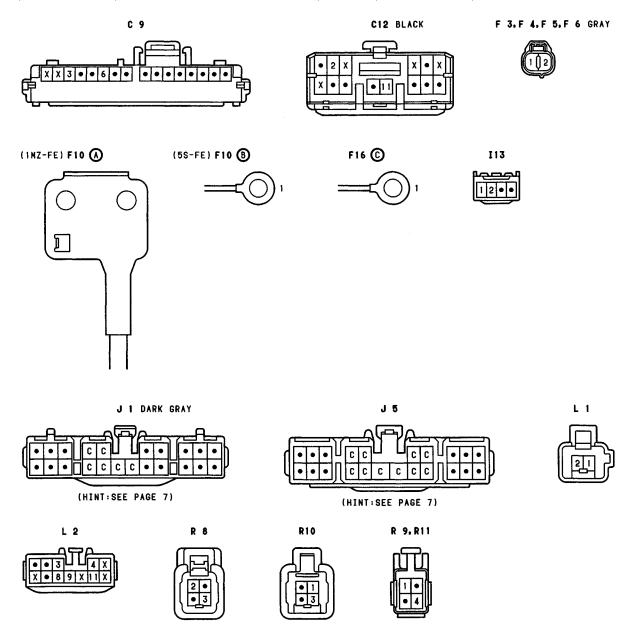
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)	
ED1	38 (1MZ-FE)	COWL WIRE AND ENGINE ROOM MAIN WIRE	
בטו	40 (5S-FE)	COWL WIRE AND ENGINE ROOM MAIN WIRE	
EF1	38 (1MZ-FE)	ENGINE WIRE AND COWL WIRE	
EFI	40 (5S-FE)	ENGINE WIRE AND COWL WIRE	
IJ1	42	OOR NO. 1 WIRE AND COWL WIRE	
Bb1	50 (W/G)	IGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE	
Bc2	50 (W/G)	ACK DOOR NO. 1 WIRE AND FLOOR NO. 1 WIRE	
Bd2	50 (W/G)	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE	

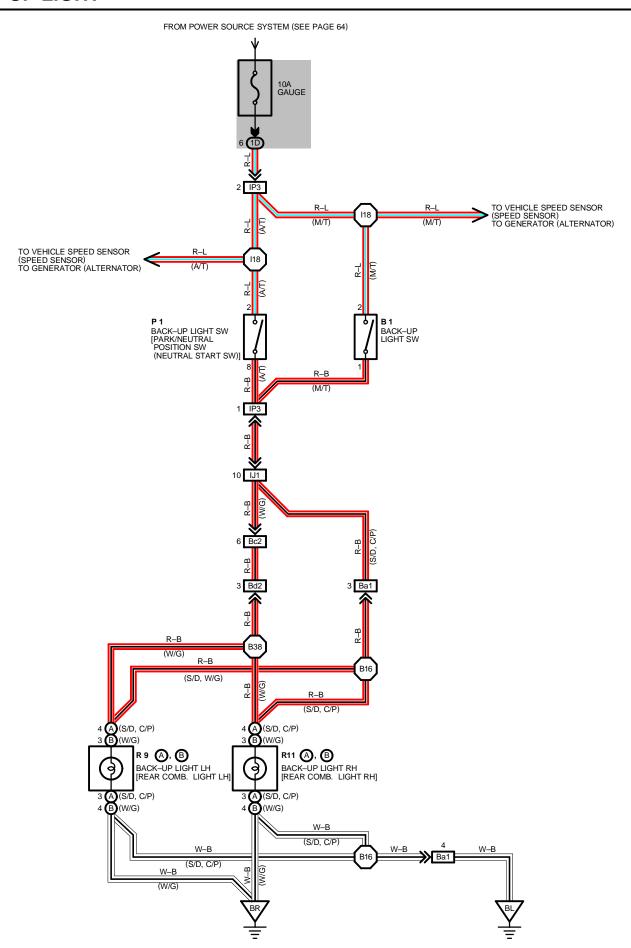
CODE	SEE PAGE	GROUND POINTS LOCATION
EA	38 (1MZ-FE)	FRONT RIGHT FENDER
EA	40 (5S-FE)	FRONT RIGHT FENDER
EB	38 (1MZ-FE)	FRONT LEFT FENDER
EB	40 (5S-FE)	PRONT LEFT FENDER
IE	42	LEFT KICK PANEL
	46 (S/D)	
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR
	50 (W/G)	
BQ	50 (W/G)	LOWER BACK PANEL CENTER
BR	50 (W/G)	BACK DOOR CENTER



: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 4	38 (1MZ-FE)	ENGINE ROOM MAIN WIRE	B37	50 (W/G)	FLOOR NO. 1 WIRE
E 4	40 (5S-FE)	ENGINE ROOM MAIN WIRE	B38	50 (W/G)	BACK DOOR NO. 2 WIRE
B36	50 (W/G)	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	30	R 9	34 (S/D), 35 (C/P), 36 (W/G)		
P1	29 (1MZ-FE), 31 (5S-FE)	R11	34 (S/D), 35 (C/P), 36 (W/G)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

ſ	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)				
IJ1	42	OOR NO. 1 WIRE AND COWL WIRE				
IP3	44	NGINE WIRE AND COWL WIRE				
Ba1	46 (S/D)	LOOR NO. 1 WIRE AND LUGGAGE ROOM NO. 2 WIRE				
Dai	48 (C/P)					
Bc2	50 (W/G)	BACK DOOR NO. 1 WIRE AND FLOOR NO. 1 WIRE				
Bd2	50 (W/G)	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE				

7 : GROUND POINTS

CODE	SEE PAGE	ROUND POINTS LOCATION			
	46 (S/D)				
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR			
	50 (W/G)				
BR	50 (W/G)	BACK DOOR CENTER			

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I18	44	ENGINE WIRE	B38	50 (W/G)	BACK DOOR NO. 2 WIRE
B16	46 (S/D)	LUGGAGE ROOM NO. 2 WIRE			

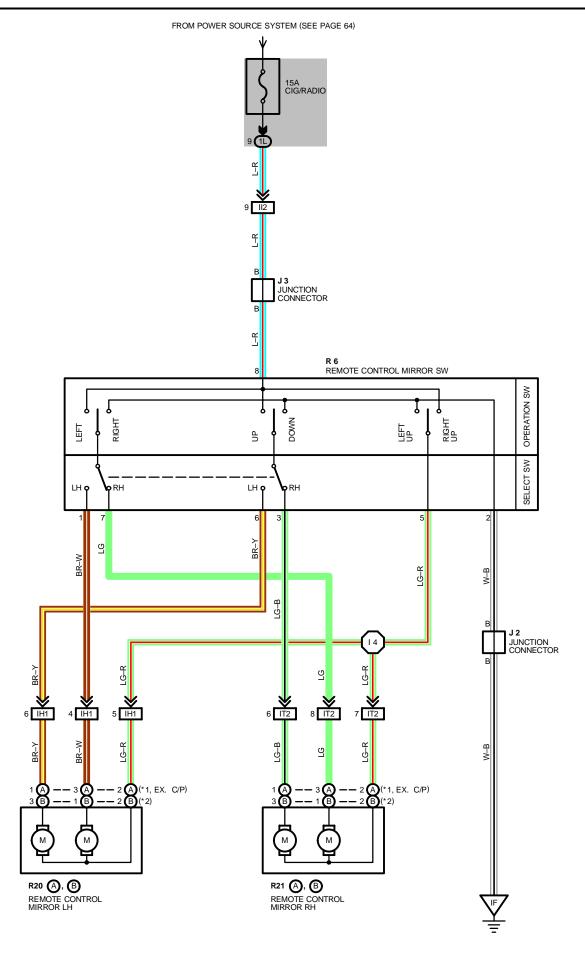
P 1 GRAY











SERVICE HINTS -

R 6 REMOTE CONTROL MIRROR SW

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

5–2 : CONTINUITY WITH OPERATION SW AT **UP** OR **LEFT** POSITION 5–8 : CONTINUITY WITH OPERATION SW AT **DOWN** OR **RIGHT** POSITION

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
J 2	33	R 6	33	R21	34 (S/D), 35 (C/P), 36 (W/G)
J 3	33	R20	34 (S/D), 35 (C/P), 36 (W/G)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	NCTION 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

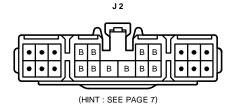
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IH1	42	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE
IT2	44	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE

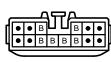
7 : GROUND POINTS

-			
	CODE	SEE PAGE	GROUND POINTS LOCATION
L			
	IF	42	LEFT KICK PANEL

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
14	14 44 INSTRUMENT PANEL WIRE				





J 3

(HINT : SEE PAGE 7)

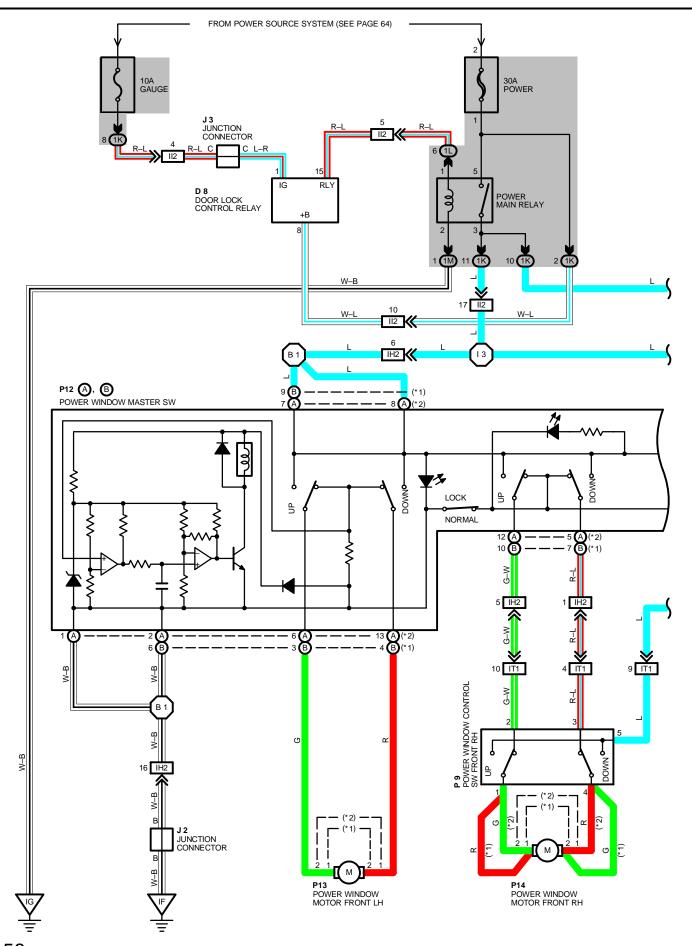


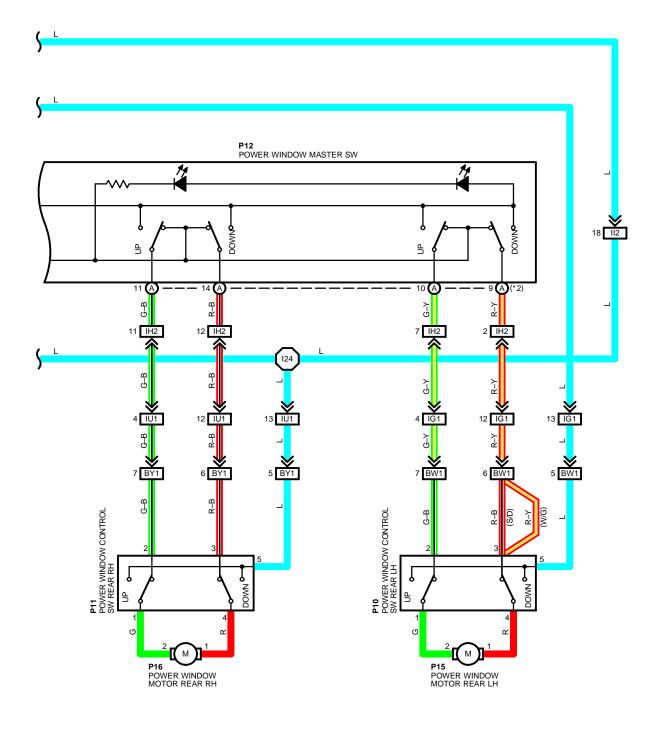
(* 1, EX. C/P) R20 (A), R21 (A)











POWER WINDOW

SYSTEM OUTLINE

WHEN THE IGNITION SW IS TURNED ON, CURRENT FLOWS THROUGH THE **GAUGE** FUSE TO **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 7** OR **8** (EX. C/P), **9** (C/P) OF THE POWER WINDOW MASTER SW \rightarrow TO **TERMINAL 5** OF THE POWER WINDOW SW.

1. MANUAL OPERATION (DRIVER'S WINDOW)

WITH THE IGNITION SW TURNED ON AND WITH THE POWER WINDOW MASTER SW (MANUAL SW) IN **UP** POSITION. THE CURRENT FLOWING TO **TERMINAL 7** OR **8** (EX. C/P), **9** (C/P) OF THE POWER WINDOW MASTER SW FLOWS TO **TERMINAL 6** (EX. C/P), **3** (C/P) OF THE MASTER SW \rightarrow **TERMINAL 2** OF THE POWER WINDOW MOTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 1**3 (EX. C/P), **4** (C/P) OF THE MASTER SW \rightarrow **TERMINAL 2** OR **1** (EX. C/P), **6** (C/P) \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 **TERMINAL 7** OR **8** (EX. C/P), **9** (C/P) OF THE POWER WINDOW MASTER SW TO **TERMINAL 1**3 (EX. C/P), **4** (C/P) OF THE MASTER SW CAUSES THE FLOW OF CURRENT FROM **TERMINAL 1** OF THE MOTOR \rightarrow **TERMINAL 2** \rightarrow **TERMINAL 6** (EX. C/P), **3** (C/P) OF THE MASTER SW \rightarrow **TERMINAL 2** OR **1** (EX. C/P), **3** (C/P) \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

WITH THE IGNITION SW ON AND WITH THE AUTO SW OF THE POWER WINDOW MASTER SW IN **DOWN** POSITION, CURRENT FLOWING TO **TERMINAL 7** OR **8** OF THE MASTER SW FLOWS TO **TERMINAL 13** (EX, C/P), **4** (C/P) OF THE MASTER SW \rightarrow **TERMINAL 2** OF THE POWER WINDOW MOTOR \rightarrow **TERMINAL 2** \rightarrow **TERMINAL 6** (EX. C/P), **3** (C/P) OF THE MASTER SW \rightarrow **TERMINAL 2** (EX. C/P), **6** (C/P) \rightarrow TO **GROUND**, CAUSING THE MOTOR TO ROTATE TOWARDS THE DOWN SIDE THEN THE SOLENOID IN THE MASTER SW IS ACTIVATED AND IT LOCKS THE AUTO SW BEING PUSHED, CAUSING THE MOTOR TO CONTINUE TO ROTATE IN AUTO DOWN OPERATION. WHEN THE WINDOW HAS COMPLETELY DESENDED, THE CURRENT FLOW BETWEEN **TERMINAL 6** (EX. C/P), **3** (C/P) OF THE MASTER SW AND **TERMINAL 2** (EX. C/P), **6** (C/P) INCREASES. AS A RESULT, THE SOLENOID STOPS OPERATING, THE AUTO SW TURNS OFF AND FLOW FROM **TERMINAL 7** (EX. C/P), **9** (C/P) OF THE MASTER SW TO **TERMINAL 13** (EX. C/P), **4** (C/P) IS CUT OFF, STOPPING THE MOTOR SO THAT AUTO STOP OCCURS.

3. STOPPING OF AUTO DOWN AT DRIVER'S WINDOW

HEN THE MANUAL SW (DRIVER'S) IS PUSHED TO THE UP SIDE DURING AUTO DOWN OPERATION, A GROUND CIRCUIT OPENS IN THE MASTER SW AND CURRENT DOES NOT FLOW FROM **TERMINAL 6** (EX. C/P), **3** (C/P) OF THE MASTER SW \rightarrow TO **GROUND**, SO THE MOTOR STOPS, CAUSING AUTO DOWN OPERATION TO STOP. IF THE MASTER SW IS PUSHED CONTINUOUSLY, 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 5** OF THE POWER WINDOW SW FLOWS TO **TERMINAL 1** OF THE POWER WINDOW SW \rightarrow **TERMINAL 2** OF THE POWER WINDOW MOTOR \rightarrow **TERMINAL 1** OR **2** (EX. C/P), 6 (C/P) \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 DECENDS, 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 1** OR **2** (EX. C/P), **6** (C/P) 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 DOOR LOCK CONTROL RELAY OPERATES AND CURRENT FLOWS FROM **POWER** FUSE TO **TERMINAL 8** OF THE RELAY \rightarrow **TERMINAL 15** \rightarrow **TERMINAL 1** OF POWER MAIN RELAY \rightarrow **TERMINAL 2** \rightarrow TO **GROUND** FOR ABOUT **60** SECOND. THE SAME AS NORMAL OPERATION, THE CURRENT FLOWS FROM **POWER** FUSE \rightarrow **TERMINAL 5** OF THE POWER MAIN RELAY \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 7** OR **8** (EX. C/P), **TERMINAL 9** (C/P) OF THE POWER WINDOW MASTER SW AND **TERMINAL 3** OF THE POWER MAIN RELAY \rightarrow TO **TERMINAL 5** OF THE POWER WINDOW SW. AS A RESULT, FOR ABOUT **60** SECOND 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** SECOND AFTER TURNING THE IGNITION SW TO OFF, A SIGNAL IS INPUT TO DOOR LOCK CONTROL RELAY. AS A RESULT, THE RELAY TURNS OFF AND UP AND DOWN MOVEMENT OF THE POWER WINDOW STOPS.

SERVICE HINTS

P12 POWER WINDOW MASTER SW (C/P)

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

6-GROUND: ALWAYS CONTINUITY

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

 $\hbox{4--GROUND: APPROX. } \hbox{12 VOLTS WITH IGNITION SW ON AND MASTER SW (DRIVER'S WINDOW) AT $\hbox{\bf DOWN}$ OR $\hbox{\bf AUTO DOWN}$ }$

POSITION

P12 POWER WINDOW MASTER SW (EX. C/P)

7, 8-GROUND : APPROX. 12 VOLTS WITH IGNITION SW AT **ON** POSITION

1, 2-GROUND: ALWAYS CONTINUITY

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

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

POSITION

: PARTS LOCATION

CODE	SEE PAGE	CODE		SEE PAGE	CODE	SEE PAGE
D 8	32		10	34 (S/D), 35 (C/P), 36 (W/G)	P13	34 (S/D), 35 (C/P), 36 (W/G)
J 2	33	P11		34 (S/D), 35 (C/P), 36 (W/G)	P14	34 (S/D), 35 (C/P), 36 (W/G)
J 3	33	D42	Α	34 (S/D), 36 (W/G)	P15	34 (S/D), 35 (C/P), 36 (W/G)
P 9	34 (S/D), 35 (C/P), 36 (W/G)	P12	В	35 (C/P)	P16	34 (S/D), 35 (C/P), 36 (W/G)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)			
IG1	42	FLOOR NO. 1 WIRE AND INSTRUMENT PANEL WIRE			
IH1	40	EDON'T DOOD LILIMIDE AND INCTUINENT DANIEL MIDE			
IH2	42	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE			
IT1	44	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE			
IU1	44	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE			
BW1	46 (S/D)	REAR DOOR LH WIRE AND FLOOR NO. 1 WIRE			
DWI	50 (W/G)				
BY1	46 (S/D)	DEAD DOOD DILIWIDE AND ELOOD NO. 2 WIDE			
DY1	50 (W/G)	REAR DOOR RH WIRE AND FLOOR NO. 2 WIRE			

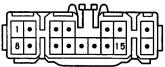
: GROUND POINTS

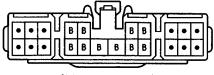
•		
CODE	SEE PAGE	GROUND POINTS LOCATION
IF	42	LEFT KICK PANEL
IG	42	INSTRUMENT PANEL BRACE LH

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	
13	44	INSTRUMENT PANEL WIRE	B1	46 (S/D)	FRONT DOOR LH WIRE	
124	44	INSTRUMENT PANEL WIRE		50 (W/G)	FRONT DOOR LH WIRE	

D 8 ORANGE J 2 J 3 P 9,P10,P11

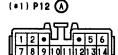








(HINT:SEE PAGE 7)

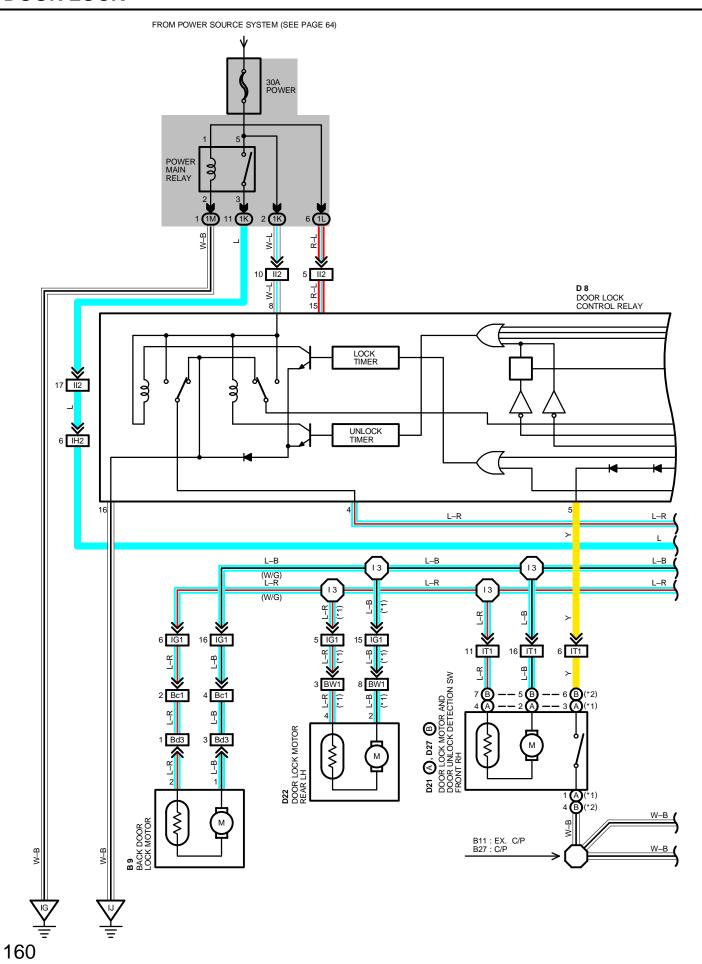




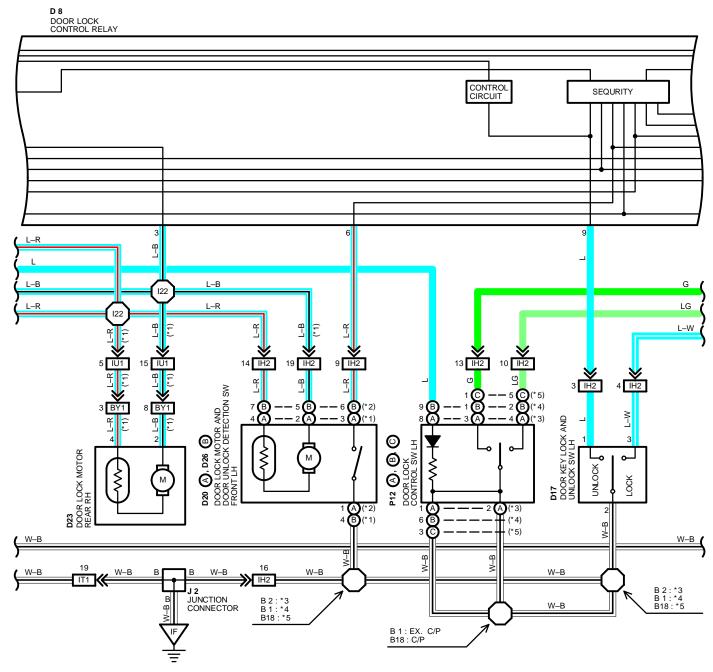


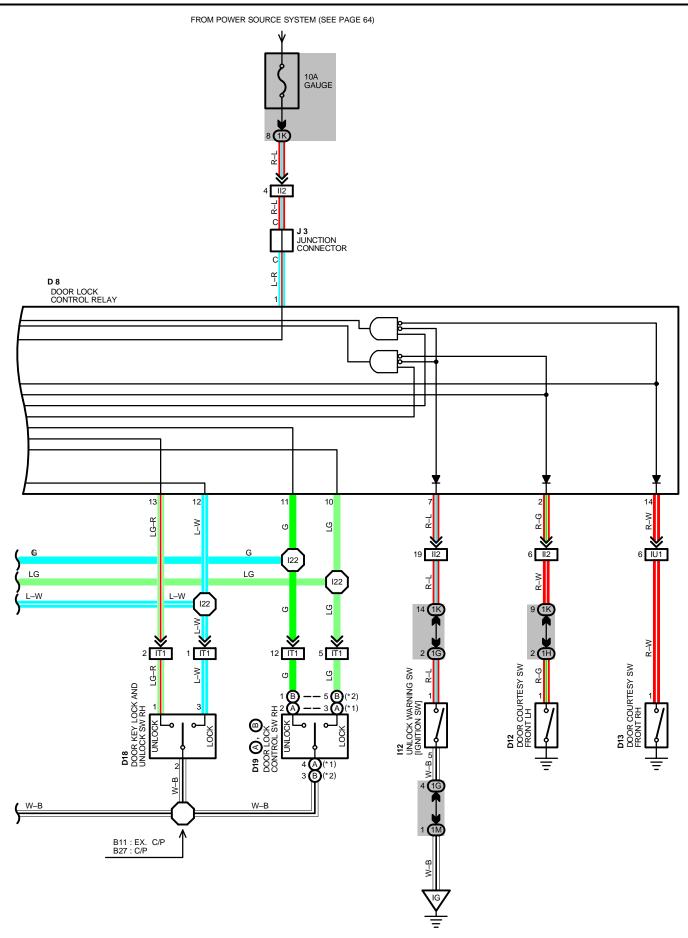


(S/D. W/G) P13. P14. P15. P16



*4 : W/ POWER WINDOW, C/P *5 : W/O POWER WINDOW





SYSTEM OUTLINE

CURRENT ALWAYS FLOWS TO TERMINAL 8 OF THE DOOR LOCK CONTROL RELAY THROUGH THE POWER FUSE.

WHEN THE IGNITION SW IS TURNED ON, THE CURRENT FLOWING THROUGH THE **GAUGE** FUSE 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 LH DOOR LOCK CONTROL SW, CAUSING THE INDICATOR LIGHT TO LIGHT UP.

1. MANUAL LOCK OPERATION

WHEN THE DOOR LOCK CONTROL SW AND KEY SW ARE PUSHED TO LOCK POSITION, A LOCK SIGNAL IS INPUT TO TERMINAL 10, 12 OF THE DOOR LOCK CONTROL RELAY AND CAUSES THE RELAY TO FUNCTION. CURRENT FLOWS FROM TERMINAL 8 OF THE RELAY \rightarrow TERMINAL 4 \rightarrow TERMINAL 4 OF THE DOOR LOCK MOTORS, (EX. C/P FRONT DOOR) OR TERMINAL 7 (C/P FRONT DOOR), OF THE DOOR LOCK MOTOR TERMINAL 2 OF THE BACK DOOR LOCK MOTOR \rightarrow TERMINAL 2 OF THE DOOR LOCK MOTORS, (EX. C/P FRONT DOOR) OR TERMINAL 5 (C/P FRONT DOOR) OF THE DOOR LOCK MOTOR TERMINAL 1 OF THE BACK DOOR LOCK MOTOR \rightarrow TERMINAL 3 OF THE RELAY \rightarrow TERMINAL 16 \rightarrow TO GROUND AND THE DOOR LOCK MOTOR CAUSES THE DOOR TO LOCK

2. MANUAL UNLOCK OPERATION

WHEN THE DOOR LOCK CONTROL SW AND KEY SW RH TO **UNLOCK** POSITION, AN UNLOCK SIGNAL IS INPUT TO **TERMINAL 11, 13** OF THE DOOR LOCK RELAY AND CAUSES THE RELAY TO FUNCTION. CURRENT FLOWS FROM **TERMINAL 8** OF THE RELAY \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 2** OF THE DOOR LOCK MOTORS, (EX. C/P FRONT DOOR) OR **TERMINAL 5** (C/P FRONT DOOR) OF THE DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE DOOR LOCK MOTOR, (EX. C/P FRONT DOOR) OR **TERMINAL 7** (C/P FRONT DOOR), OF THE DOOR LOCK MOTOR **TERMINAL 2** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE RELAY \rightarrow **TERMINAL 16** \rightarrow TO **GROUND** AND DOOR LOCK MOTORS CAUSES DOOR TO UNLOCK.

3. DOUBLE OPERATION UNLOCK OPERATION

WHEN THE DOOR LOCK KEY SW (DRIVER'S) IS TURNED TO THE UNLOCK SIDE, ONLY THE DRIVER'S DOOR IS MECHANICALLY UNLOCKED. TURNING THE DOOR LOCK KEY SW (DRIVER'S) TO THE UNLOCK SIDE CAUSES A SIGNAL TO BE INPUT TO **TERMINAL 9** OF THE RELAY, AND IF THE SIGNAL IS INPUT AGAIN WITHIN 3 SECONDS BY TURNING THE SW TO THE UNLOCK SIDE AGAIN, CURRENT FLOWS **TERMINAL 3** \rightarrow **TERMINAL 2** OF DOOR LOCK MOTORS, (EX. C/P FRONT DOOR) OR **TERMINAL 5** (C/P FRONT DOOR) OR **TERMINAL 5** (C/P FRONT DOOR), OF THE DOOR LOCK MOTORS, (EX. C/P FRONT DOOR) OR **TERMINAL 7** (C/P FRONT DOOR), OF THE DOOR LOCK MOTOR **TERMINAL 2** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE RELAY \rightarrow **TERMINAL 16** \rightarrow **GROUND**, CAUSING THE DOOR LOCK MOTORS TO OPERATE AND UNLOCK THE DOORS.

4. IGNITION KEY REMINDER OPERATION

* OPERATING DOOR LOCK KNOB (OPERATION OF DOOR LOCK MOTORS)

WITH IGNITION KEY IN CYLINDER (UNLOCK WARNING SW ON), WHEN THE DOOR IS OPENED AND LOCKED USING DOOR LOCK KNOB (DOOR LOCK MOTOR), THE DOOR IS LOCKED ONCE BUT EACH DOOR IS UNLOCKED SOON BY THE FUNCTION OF RELAY. AS A RESULT, THE CURRENT FLOWS FROM **TERMINAL 8** OF THE RELAY \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 2** OF THE DOOR LOCK MOTORS, (EX. C/P FRONT DOOR) OR **TERMINAL 5** (C/P FRONT DOOR) OF THE DOOR LOCK MOTOR **TERMINAL 2** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE DOOR LOCK MOTOR \rightarrow **TERMINAL 7** (C/P FRONT DOOR), OF THE DOOR LOCK MOTOR **TERMINAL 1** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE RELAY \rightarrow **TERMINAL 1** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE RELAY \rightarrow **TERMINAL 1** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE RELAY \rightarrow **TERMINAL 1** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE RELAY \rightarrow **TERMINAL 1** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE RELAY \rightarrow **TERMINAL 1** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE RELAY \rightarrow **TERMINAL 1** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 5** OF THE RELAY \rightarrow **TERMINAL 1** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 5** OF THE RELAY \rightarrow **TERMINAL 1** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 5** OF THE RELAY \rightarrow **TERMINAL 1** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 5** OF THE RELAY \rightarrow **TERMINAL 1** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 5** OF THE RELAY \rightarrow **TERMINAL 5** OR THE RELAY \rightarrow **TERMINAL 5**

* OPERATING DOOR LOCK CONTROL SW OR DOOR LOCK KEY SW

WITH IGNITION KEY IN CYLINDER (UNLOCK WARNING SW ON), WHEN THE DOOR IS OPENED AND LOCKED USING DOOR LOCK CONTROL SW OR KEY SW, THE DOOR IS LOCKED ONCE BUT EACH DOOR IS UNLOCK BY THE FUNCTION OF SW CONTAINED IN MOTORS, WHICH THE SIGNAL IS INPUT TO **TERMINAL 6** (DRIVER'S) OR **5** (PASSENGER'S) OF THE RELAY. ACCORDING TO THIS INPUT SIGNAL, THE CURRENT IN ECU FLOWS FROM **TERMINAL 8** OF THE RELAY \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 2** OF THE DOOR LOCK MOTORS, (EX. C/P FRONT DOOR) OR **TERMINAL 5** (C/P FRONT DOOR) OF THE DOOR LOCK MOTOR **TERMINAL 2** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE DOOR LOCK MOTORS, **TERMINAL 1** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 1** OF THE RELAY \rightarrow **TERMINAL 1** OF THE RELAY \rightarrow **TERMINAL 1** OF THE RELAY \rightarrow **TERMINAL 1** OF THE DOOR TO UNLOCK.

* IN CASE OF KEY LESS LOCK

WITH IGNITION KEY IN CYLINDER (UNLOCK WARNING SW ON), WHEN THE UNLOCK FUNCTION IS DISTURBED MORE THAN 0.2 SECONDS, FOR EXAMPLE PUSHING THE DOOR LOCK KNOB ETC., THE DOOR HOLDS ON LOCK CONDITION. CLOSING THE DOOR AFTER, DOOR COURTESY SW INPUTS THE SIGNAL INTO **TERMINAL 2** OR 14 OF THE RELAY. BY THIS INPUT SIGNAL, THE ECU WORKS AND CURRENT FLOWS FROM **TERMINAL 8** OF THE RELAY \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 2** OF THE DOOR LOCK MOTORS, (EX. C/P FRONT DOOR) OR **TERMINAL 5** (C/P FRONT DOOR) OF THE DOOR LOCK MOTOR **TERMINAL 1** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE DOOR LOCK MOTORS, (EX. C/P FRONT DOOR) OR **TERMINAL 7** (C/P FRONT DOOR), OF THE DOOR LOCK MOTOR **TERMINAL 2** OF THE BACK DOOR LOCK MOTOR \rightarrow **TERMINAL 4** OF THE RELAY \rightarrow **TERMINAL 16** \rightarrow TO **GROUND** AND CAUSES ALL THE DOORS TO UNLOCK.

SERVICE HINTS

D8 DOOR LOCK CONTROL RELAY

16-GROUND : ALWAYS CONTINUITY

2-GROUND : CONTINUITY WITH DRIVER'S DOOR OPEN

8-GROUND : ALWAYS APPROX. 12 VOLTS

3-GROUND : APPROX. 12 VOLTS 0.2 SECONDS WITH FOLLOWING OPERATION

*DOOR LOCK CONTROL SW UNLOCKED

*DOOR LOCK CONTROL SW LOCKED WITH IGNITION KEY IN CYLINDER AND DRIVER'S DOOR OPEN

(IGNITION KEY REMINDER FUNCTION)

*DOOR LOCK KNOB LOCKED WITH IGNITION KEY IN CYLINDER AND DRIVER'S DOOR OPEN

(IGNITION KEY REMINDER FUNCTION)

*UNLOCKING THE DRIVER'S, PASSENGER'S DOOR CYLINDER WITH KEY

4–GROUND : APPROX. 12 VOLTS 0.2 SECONDS WITH FOLLOWING OPERATION

*DOOR LOCK CONTROL SW LOCKED

*LOCKING THE DRIVER'S, PASSENGER'S DOOR CYLINDER WITH KEY

10-GROUND : **0** VOLTS WITH DOOR LOCK CONTROL SW LOCKED 14-GROUND : CONTINUITY WITH PASSENGER'S DOOR OPEN

6-GROUND : CONTINUITY WITH DRIVER'S DOOR LOCK KNOB UNLOCKED 5-GROUND : CONTINUITY WITH PASSENGER'S DOOR LOCK KNOB UNLOCKED

11-GROUND : 0 VOLTS WITH DOOR LOCK CONTROL SW UNLOCKED, PASSENGER'S DOOR LOCK CYLINDER UNLOCKED WITH KEY

13-GROUND : 0 VOLTS WITH PASSENGER'S DOOR LOCK CYLINDER UNLOCKED WITH KEY

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

9-GROUND : 0 VOLTS WITH DRIVER'S DOOR LOCK CYLINDER UNLOCKED WITH KEY

12-GROUND : 0 VOLTS WITH DRIVER'S, PASSENGER'S DOOR LOCK CYLINDER LOCKED WITH KEY

D12, D13 DOOR COURTESY SW

1-GROUND: CLOSED WITH EACH DOOR OPEN

D17, D18 DOOR KEY LOCK AND UNLOCK SW

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

1-2: CLOSED WITH DOOR LOCK CYLINDER UNLOCKED WITH KEY

D20, D21 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW (C/P)

1-3: CLOSED WITH UNLOCK POSITION

D20, D21 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW (EX. C/P)

6-4: CLOSED WITH UNLOCK POSITION

I12 UNLOCK WARNING SW [IGNITION SW]

1-5: CLOSED WITH IGNITION KEY IN CYLINDER

: PARTS LOCATION

CO	DE	SEE PAGE	CO	DE	SEE PAGE	CO	DE	SEE PAGE
В	9	36	D19	В	34 (S/D), 36 (W/G)	J	2	33
D	8	32	D20	Р20	34 (S/D), 36 (W/G)	J	3	33
D	12	34 (S/D), 35 (C/P), 36 (W/G)	D20	В	35 (C/P)		Α	34 (S/D), 36 (W/G)
D	13	34 (S/D), 35 (C/P), 36 (W/G)		21	34 (S/D), 35 (C/P), 36 (W/G)	P12	В	34 (S/D), 35 (C/P), 36 (W/G)
D	17	34 (S/D), 35 (C/P), 36 (W/G)	D22		34 (S/D), 35 (C/P), 36 (W/G)		С	35 (C/P)
D	18	34 (S/D), 35 (C/P), 36 (W/G)	D23		34 (S/D), 35 (C/P), 36 (W/G)			
D19	Α	34 (S/D), 36 (W/G)	l1	2	33			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)				
IG1	42	FLOOR NO. 1 WIRE AND INSTRUMENT PANEL WIRE				
IH2	42	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE				
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE				
IT1	44	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE				
IU1	44	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE				
BW1	46 (S/D)	REAR DOOR LH WIRE AND FLOOR NO. 1 WIRE				
DW1	50 (W/G)	REAR DOOR LIT WIRE AND FLOOR NO. 1 WIRE				
BY1	46 (S/D)	REAR DOOR RH WIRE AND FLOOR NO. 2 WIRE				
DII	50 (W/G)	REAR DOOR RH WIRE AND FLOOR NO. 2 WIRE				
Bc1	50 (W/G)	BACK DOOR NO. 1 WIRE AND FLOOR NO. 1 WIRE				
Bd3	Bd3 50 (W/G) BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE					

∇

: GROUND POINTS

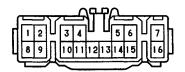
CODE	SEE PAGE	GROUND POINTS LOCATION
IF	42	LEFT KICK PANEL
IG	42	INSTRUMENT PANEL BRACE LH
IJ	42	RIGHT KICK PANEL

\bigcirc

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	
13	44	INSTRUMENT PANEL WIRE	B 2	50 (W/G)	FRONT DOOR LH WIRE	
122	44	INSTRUMENT PAINEL WIRE	D44	46 (S/D)	FRONT DOOR RH WIRE	
В1	46 (S/D)	/D) B11		50 (W/G)	TROM DOOK KIT WIKE	
БТ	50 (W/G)	FRONT DOOR LH WIRE	B18	48 (C/P)	FRONT DOOR LH WIRE	
B 2	46 (S/D)		B27	48 (C/P)	FRONT DOOR RH WIRE	





D 8 ORANGE



D12. D13





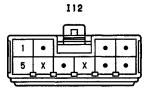


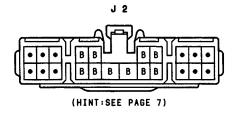
(S/D. W/G) D20 (A)

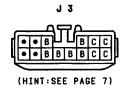


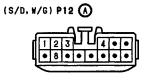














(C/P) P12 ©



BACK DOOR LOCK (W/G w/o POWER WINDOW)

SERVICE HINTS

B3 BACK DOOR LOCK CONTROL SW

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

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
В3	32	B 9	36 (W/G)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
IK	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)
IG1	38	FLOOR NO. 1 WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)
IT2	40	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)
Bc1	44 (W/G)	BACK DOOR NO. 1 WIRE AND FLOOR NO. 1 WIRE (LEFT QUARTER TRIM INNER)
Bd3	44 (W/G)	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE (BACK DOOR LEFT)

CODE	SEE PAGE	GROUND POINTS LOCATION
IJ	38	RIGHT KICK PANEL





SERVICE HINTS

POWER MAIN RELAY

5-3: CLOSED WITH IGNITION SW AT ON POSITION

M 2 MOON ROOF CONTROL RELAY

11-GROUND: ALWAYS CONTINUITY

6–GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT \mathbf{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.) IN THE BEFORE 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 3 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	CODE	SEE PAGE
Ī	D 8	32	M 2	34 (S/D), 35 (C/P), 36 (W/G)	M 4	34 (S/D), 35 (C/P), 36 (W/G)
	J 3	33	М 3	34 (S/D), 35 (C/P), 36 (W/G)	M 5	34 (S/D), 35 (C/P), 36 (W/G)

: 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) TMC MADE				
"	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL) TMM MADE				
1K						
1L	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)				
1M						
2E	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)				
2G	22	22 COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)				

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

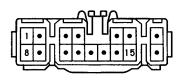
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE
IV1	44	ROOF WIRE AND COWL WIRE

7 : GROUND POINTS

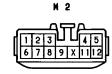
CODE	SEE PAGE	SROUND POINTS LOCATION		
IG	42	STRUMENT PANEL BRACE LH		
BV	46 (S/D)	ROOF LEFT		
BK	48 (C/P)	ROOF LEFT		
BP	50 (W/G)	BACK PANEL CENTER		

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
B 4	46 (S/D)		B31	50 (W/G)	ROOF WIRE
B 5	40 (3/D)	ROOF WIRE	B32	50 (W/G)	ROOF WIRE
B21	48 (C/P)				



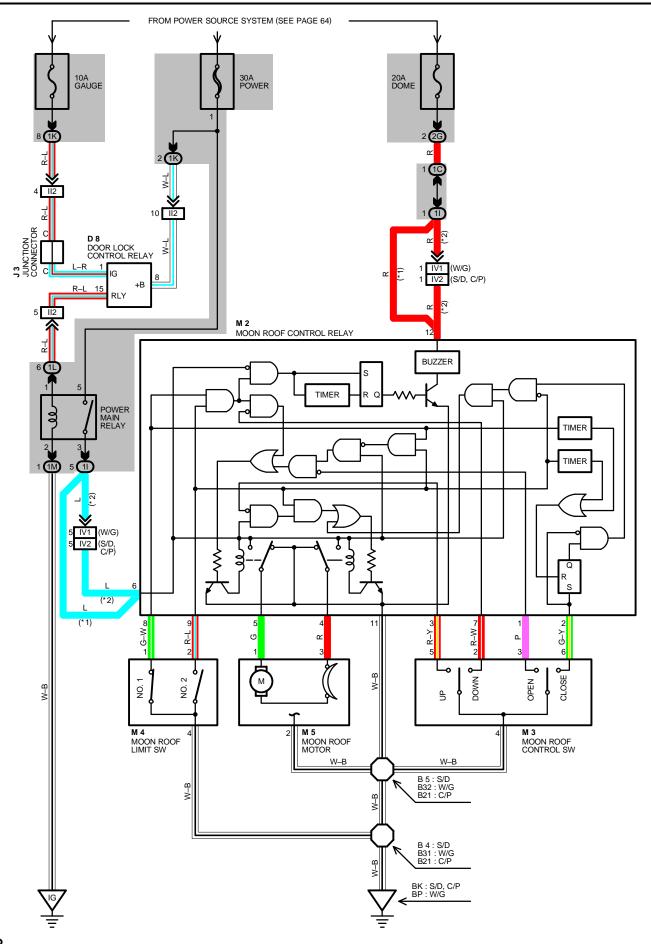












SYSTEM OUTLINE

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.

WITH THE IGNITION SW TURNED ON, THE CURRENT FLOWS FROM **TERMINAL 1** OF POWER MAIN RELAY \rightarrow **TERMINAL 2** \rightarrow TO **GROUND** THROUGH **GAUGE** 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. MOON ROOF LIMIT SW NO. 2 ON AT THIS TIME.

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 100 MM 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.

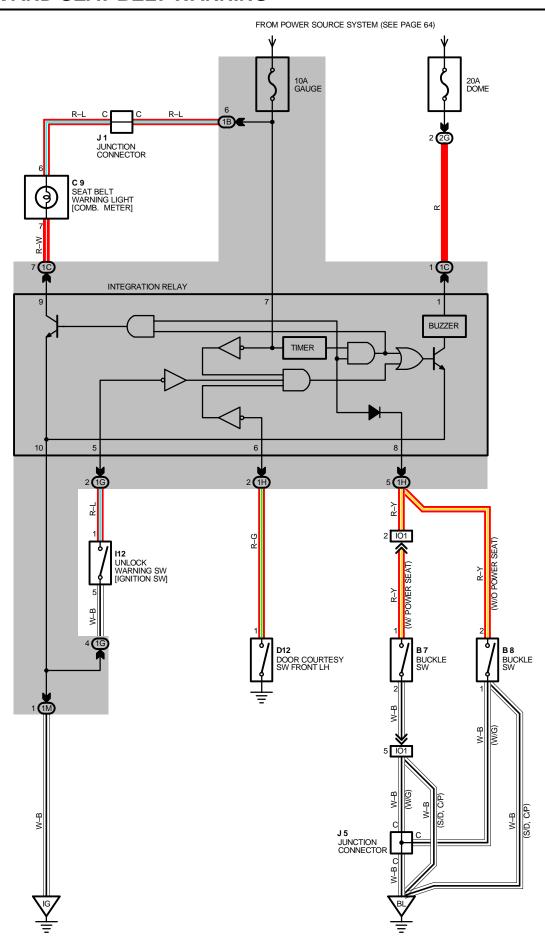
AS A RESULT, THE RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 6** OF RELAY FLOWS FROM **TERMINAL 5** OF RELAY \rightarrow **TERMINAL 1** OF MOON ROOF MOTOR \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 4** OF RELAY \rightarrow **TERMINAL 11** \rightarrow TO **GROUND** AND ROTATES THE MOTOR SO 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. TILT UP REMINDER SYSTEM

WHEN THE IGNITION SW IS TURNED FROM ON TO ACC OR OFF WITH THE MOON ROOF STILL TILTED UP THE CURRENT DOES NOT FLOW TO **TERMINAL 6** OF MOON ROOF CONTROL RELAY.

THIS IS RECEIVED BY THE RELAY AS A SIGNAL THAT THE IGNITION SW IS TURNED OFF. 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.



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, 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 8** 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 **TERMINAL 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

B7 B8 BUCKLESW

1-2: CLOSED WITH DRIVR'S LAP BELT IN USE

D12 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 WITH IGNITION SW ON AND BUCKLE SW OFF

1-GROUND : ALWAYS APPROX. 12 VOLTS

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

I12 UNLOCK WARNING SW [IGNITION SW]

1-5: CLOSED WITH IGNITION KEY IN CYLINDER

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
B 7	32	D12	34 (S/D), 35 (C/P), 36 (W/G)	J 5	36 (W/G)
B 8	32	l12	33		
C 9	32	J 1	33		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

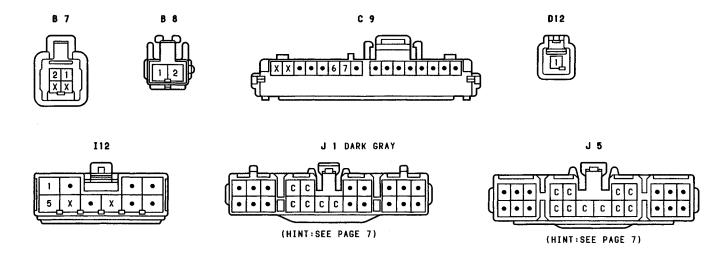
CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1B		
1C	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1G		
1H	20	FLOOR NO. 1 WIRE J/B NO. 1 (INSTRUMENT PANEL LEFT)
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
2E	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT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

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IO1	42	FLOOR NO. 1 WIRE AND SEAT WIRE

CODE	SEE PAGE	GROUND POINTS LOCATION			
IG	42	TRUMENT PANEL BRACE LH			
	46 (S/D)				
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR			
	50 (W/G)				

UNLOCK AND SEAT BELT WARNING



SERVICE HINTS -

HORN RELAY

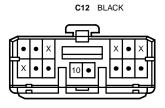
2-3: CLOSED WITH HORN SW ON

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C12	32	H 5	28 (1MZ-FE), 30 (5S-FE)	H 6	28 (1MZ-FE), 30 (5S-FE)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

C	CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
	2A	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
	2E	22	ENGINE ROOM MAIN WIRE AND 3/B NO. 2 (ENGINE COMPARTMENT LEFT)





SRS (SUPPLEMENTAL RESTRAINT SYSTEM)

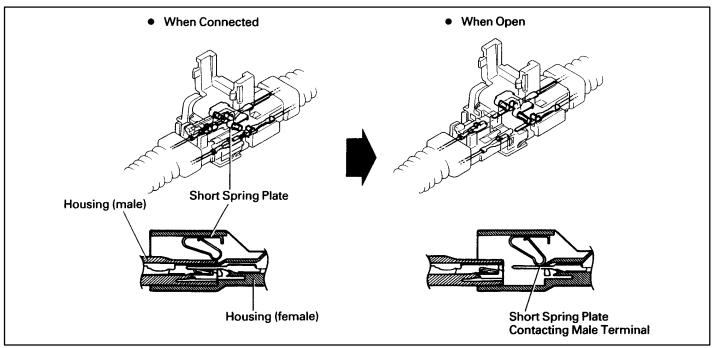
NOTICE: When inspecting or repairing the SRS (supplemental restraint system), perform the operation in accordance with the following precautionary instructions and the procedure and precautions in the Repair Manual for the applicable model year.

- ▼ 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 momorized 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 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 and engine 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.

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

1. SRS ACTIVATION PREVENTION MECHANISM

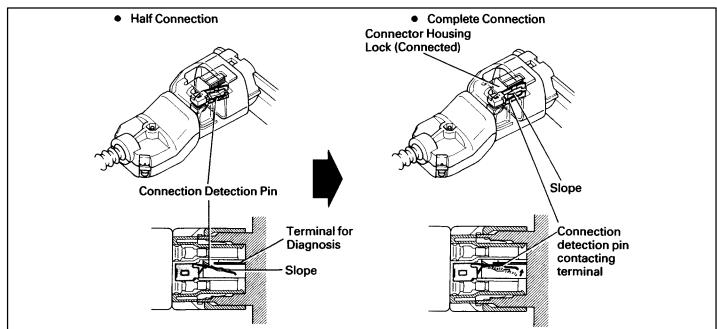
Each connector contains a short spring plate. When the connector is disconnected, the short spring plate automatically connects the power source and grounding terminals of the squib to preclude a potential difference between the terminals.



2. ELECTRICAL CONNECTION CHECK MECHANISM

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

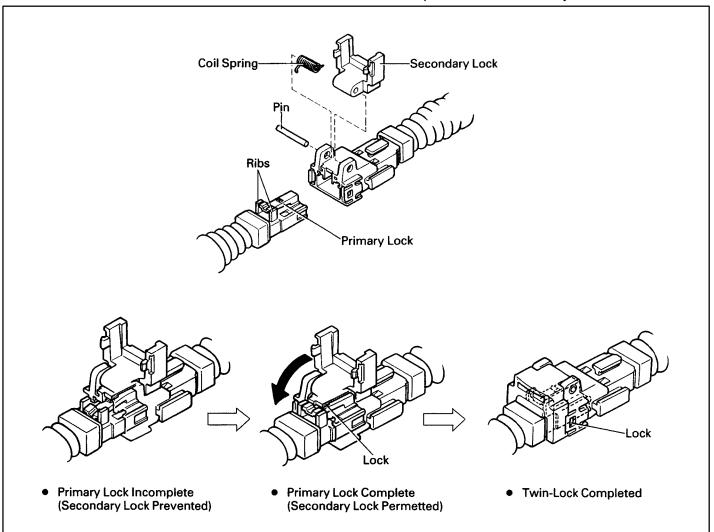
The electrical connection check mechanism is designed so that the connection detection pin connects with the diagnosis terminals when the connector housing lock is in the locked condition.

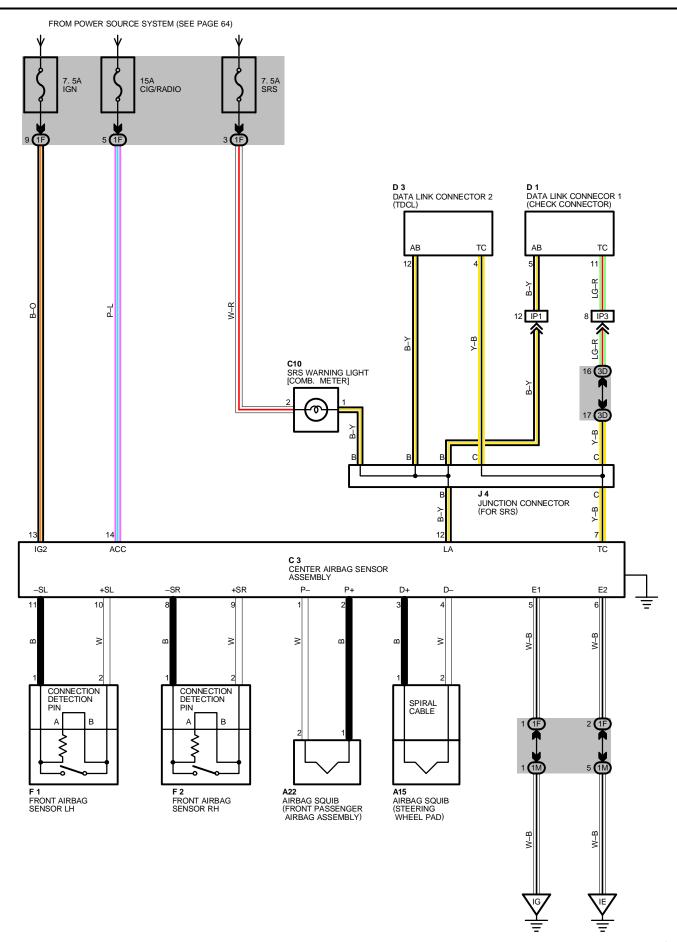


SRS (SUPPLEMENTAL RESTRAINT SYSTEM)

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 AND PASSENGER PROTECTION DEVICE WHICH HAS A SUPPLEMENTAL ROLE TO THE SEAT BELTS.

WHEN THE IGNITION SW IS TURNED TO ACC OR ON, CURRENT FROM THE **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 FLOW TO **TERMINAL 13**.

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/RADIO OR IGN FUSE FLOWS TO TERMINALS 2, 3 OF THE CENTER AIRBAG SENSOR ASSEMBLY \rightarrow TERMINAL 1 OF THE AIRBAG SQUIB \rightarrow SQUIB \rightarrow TERMINAL 2 \rightarrow TERMINALS 1, 4 OF CENTER AIRBAG SENSOR ASSEMBLY \rightarrow TERMINAL 6, TERMINAL 5 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 **TERMINALS 2**, **3** OF THE CENTER AIRBAG SENSOR ASSEMBLY \rightarrow **TERMINAL 1** OF THE AIRBAG SQUIB \rightarrow SQUIB \rightarrow **TERMINAL 2** \rightarrow **TERMINAL 3** OR 11 \rightarrow **TERMINAL 1** OF FRONT AIRBAG SENSOR \rightarrow **TERMINAL 2** \rightarrow **TERMINAL 9** OR 10 OF CENTER AIRBAG SENSOR ASSEMBLY \rightarrow **TERMINAL 6**, **TERMINAL 5** 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
A15	32	D1	28 (1MZ-FE), 30 (5S-FE)	F 2	28 (1MZ-FE), 30 (5S-FE)
C 3	32	D 3	32	J 4	33
C10	32	F1	28 (1MZ-FE), 30 (5S-FE)		

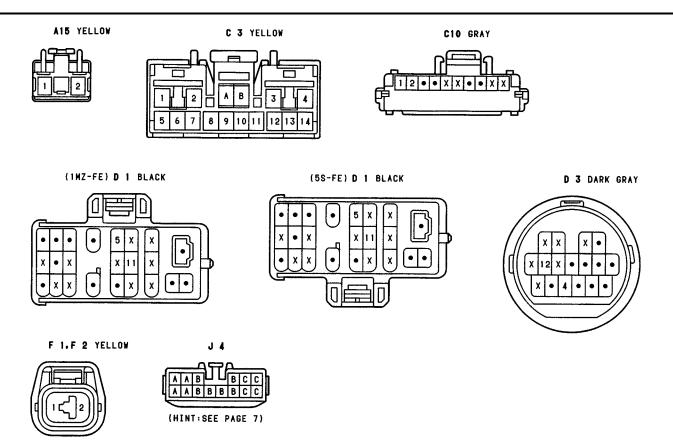
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

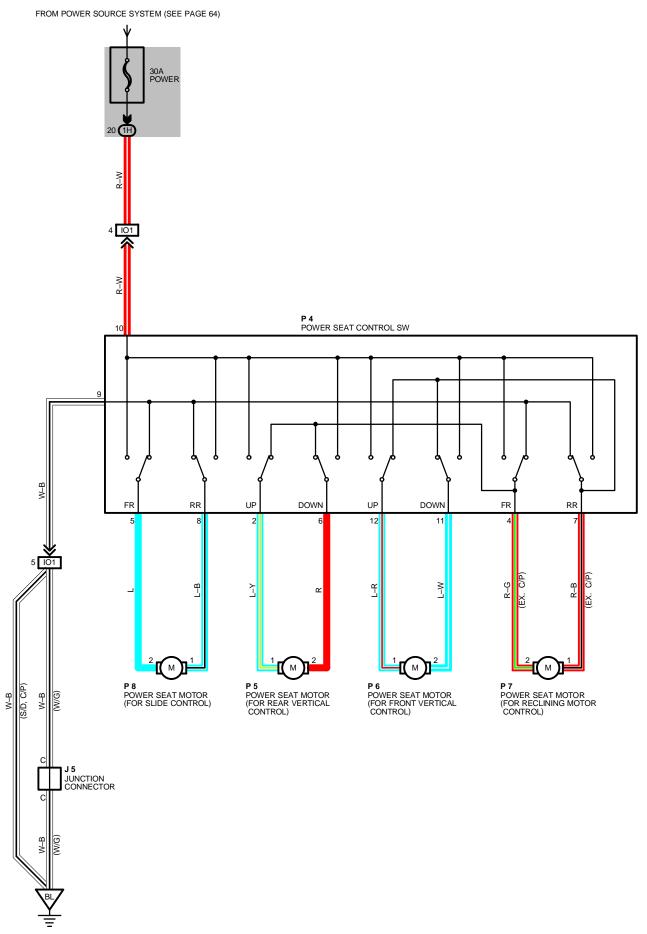
CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)			
1F	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1M	20	COWE WIRE AND 3/B NO. 1 (INSTRUMENT PANEL LEFT)			
3D	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)			

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)			
IP1	44	ENGINE WIRE AND COWL WIRE			
IP3	44	ENGINE WIRE AND COWL WIRE			

CODE	SEE PAGE	GROUND POINTS LOCATION
IE	42	LEFT KICK PANEL
IG	42	INSTRUMENT PANEL BRACE LH





SERVICE HINTS

P 4 POWER SEAT CONTROL SW

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

0

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
J 5	36 (W/G)	P 5	33	P 7	33
P 4	33	P 6	33	P 8	33

0

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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

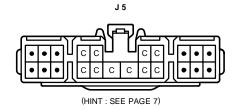
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

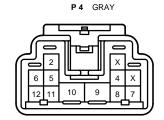
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)	
IO1	42	FLOOR NO. 1 WIRE AND SEAT WIRE	



: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION		
	46 (S/D)			
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR		
	50 (W/G)			







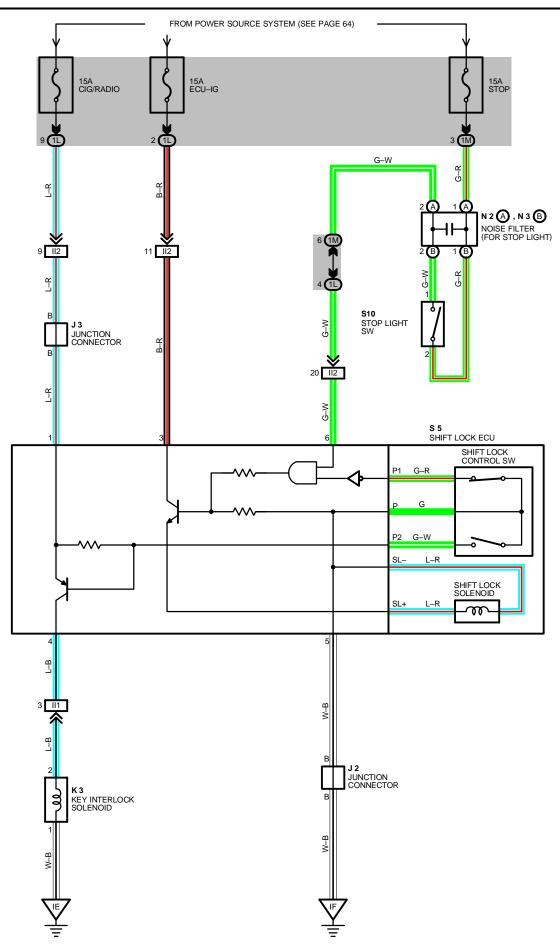




P 8 GREEN







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) IS INPUT TO THE ECU, THE ECU OPERATES AND CURRENT FLOWS FROM TERMINAL 3 OF THE ECU -> TERMINAL SL+ OF THE SHIFT LOCK SOLENOID o SOLENOID o TERMINAL SL- o TERMINAL 5 OF THE ECU o GROUND. THIS CAUSES THE SHIFT LOCK SOLENOID TO TURN ON (PLATE STOPPER DISENGAGES) AND THE SHIFT LEVER CAN SHIFT INTO OTHER POSITION 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 → KEYINTERLOCK SOLENOID IS CUT OFF. THIS CAUSES THE KEYINTERLOCK SOLENOID TO TURN OFF (LOCK LEVER DISENGAGES FROM LOCK POSITION) AND THE IGNITION KEY CAN BE TURNED FROM ACC TO LOCK POSITION.

SERVICE HINTS

S 5 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 SHIFT LEVER POSITION IN EXCEPT P POSITION

: PARTS LOCATION

CODE	SEE PAGE	CO	DE	SEE PAGE	CODE	SEE PAGE
J 2	33	N 2	Α	33	S10	33
J 3	33	N 3	В	33		
K 3	33	S	5	33		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

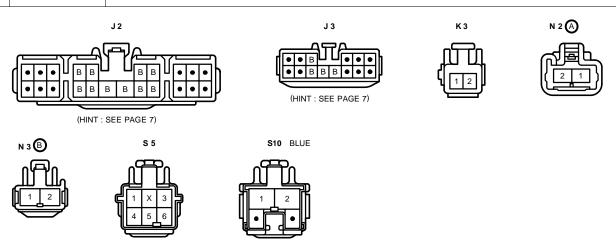
CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)	
1L	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)	
1M	20	COWL WIRE AND 3/6 NO. 1 (INSTRUMENT FANEL LEFT)	

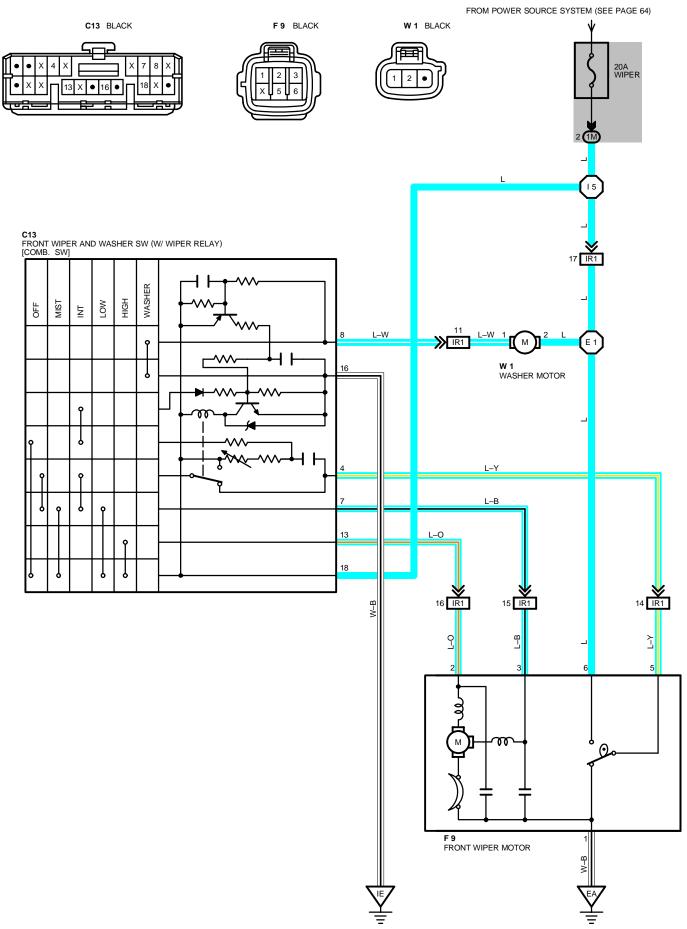
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE SEE PAGE JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)		
II1	42	COWL WIRE AND INSTRUMENT PANEL WIRE
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION	
IE	40	LEFT KICK PANEL	
IE	42	LEFT RICK PANEL	





WITH THE IGNITION SW TURNED ON, THE CURRENT FLOWS TO **TERMINAL 18** OF THE WIPER AND WASHER SW, **TERMINAL 2** OF THE WASHER MOTOR AND **TERMINAL 4** OF THE WIPER MOTOR THROUGH THE **WIPER** FUSE.

1. LOW SPEED POSITION

WITH WIPER SW TURNED TO LOW POSITION, THE CURRENT FLOWS FROM TERMINAL 18 OF THE WIPER AND WASHER SW \rightarrow TERMINAL 7 \rightarrow TERMINAL 3 OF THE WIPER MOTOR \rightarrow WIPER MOTOR \rightarrow TERMINAL 1 \rightarrow TO GROUND AND CAUSES TO THE WIPER MOTOR TO RUN AT LOW SPEED.

2. HIGH SPEED POSITION

WITH WIPER SW TURNED TO HIGH POSITION, THE CURRENT FLOWS FROM TERMINAL 18 OF THE WIPER AND WASHER SW \rightarrow TERMINAL 13 \rightarrow TERMINAL 2 OF THE WIPER MOTOR \rightarrow WIPER MOTOR \rightarrow TERMINAL 1 \rightarrow TO GROUND AND CAUSES TO THE WIPER MOTOR TO RUN AT HIGH SPEED.

3. INT POSITION

WITH WIPER SW TURNED TO INT POSITION, THE RELAY OPERATES AND THE CURRENT WHICH IS CONNECTED BY RELAY FUNCTION FLOWS FROM TERMINAL 18 OF THE WIPER AND WASHER SW \rightarrow TERMINAL 16 \rightarrow TO GROUND. THIS FLOW OF CURRENT OPERATES THE INTERMITTENT CIRCUIT AND THE CURRENT FLOWS FROM TERMINAL 18 OF THE WIPER AND WASHER SW \rightarrow TERMINAL 3 OF THE WIPER MOTOR \rightarrow TERMINAL 1 \rightarrow TO GROUND AND THE WIPER FUNCTIONS.

THE INTERMITTENT OPERATION IS CONTROLLED BY A CONDENSER'S CHARGED AND DISCHARGED FUNCTION INSTALLED IN RELAY AND THE INTERMITTENT TIME IS CONTROLLED BY A TIME CONTROL SW TO CHANGE THE CHARGING TIME OF THE CONDENSER.

4. WASHER CONTINUOUS OPERATION

WITH WASHER SW TURNED TO ON, THE CURRENT FLOWS FROM **TERMINAL 2** OF THE WASHER MOTOR \rightarrow **TERMINAL 1** \rightarrow **TERMINAL 8** OF THE WIPER AND WASHER SW \rightarrow **TERMINAL 16** \rightarrow TO **GROUND** AND CAUSES TO THE WASHER MOTOR TO RUN AND WINDOW WASHER TO JET. THIS CAUSES THE CURRENT TO FLOW TO WASHER CONTINUOUS OPERATION CIRCUIT IN **TERMINAL 18** OF THE WIPER AND WASHER SW \rightarrow **TERMINAL 7** \rightarrow **TERMINAL 3** OF THE WIPER MOTOR \rightarrow **TERMINAL 1** \rightarrow TO **GROUND** AND THE WIPER FUNCTION.

SERVICE HINTS

C13 FRONT WIPER AND WASHER SW (W/ WIPER RELAY) [COMB. SW]

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 12 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

F 9 FRONT WIPER MOTOR

5-6: CLOSED UNLESS WIPER MOTOR AT STOP POSITION

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C13	32	F 9	28 (1MZ-FE), 30 (5S-FE)	W 1	28 (1MZ-FE), 30 (5S-FE)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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

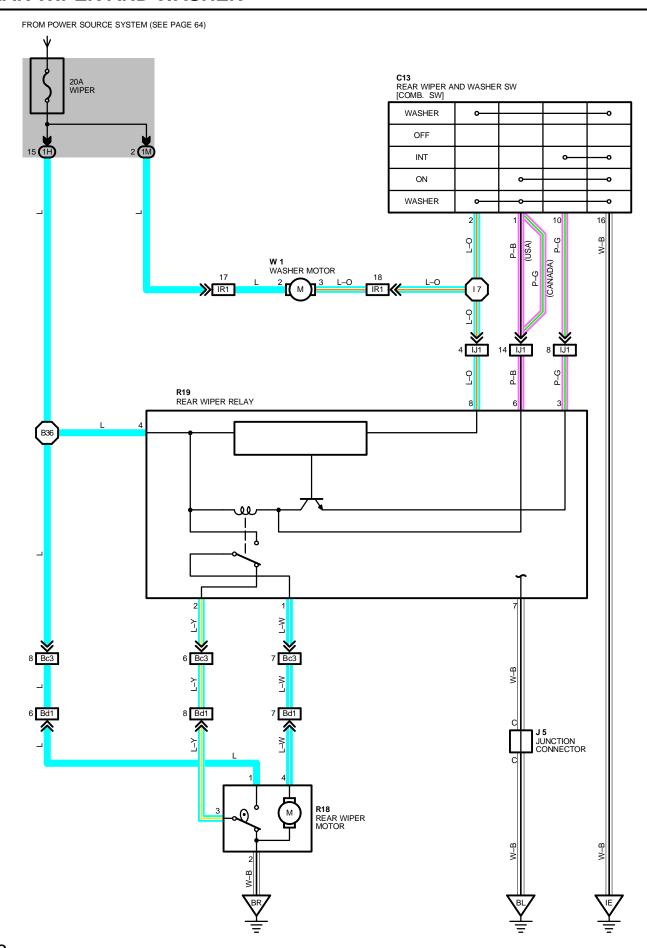
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)	
IR1	44	ENGINE ROOM MAIN WIRE AND COWL WIRE	

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION	
ΕA	38 (1MZ-FE)	FRONT RIGHT FENDER	
EA	40 (5S-FE)	FRONT RIGHT FENDER	
IE	42	LEFT KICK PANEL	

_					
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 4	38 (1MZ-FE)	ENGINE ROOM MAIN WIRE	15	44	COWL WIRE
E 1	40 (5S-FE)	ENGINE ROOM MAIN WIRE			



WHEN THE IGNITION SW IS TURNED ON, CURRENT FLOWS TO **TERMINAL 2** OF WASHER MOTOR, **TERMINAL 4** OF REAR WIPER RELAY AND **TERMINAL 1** OF REAR WIPER MOTOR THROUGH THE **WIPER** FUSE.

1. REAR WIPER NORMAL OPERATION

WITH THE IGNITION SW TURNED ON AND REAR WIPER AND WASHER SW TURNED ON, THE CURRENT FLOWING TO **TERMINAL 4** OF REAR WIPER RELAY FLOWS TO **TERMINAL 6** OF RELAY \rightarrow **TERMINAL 1** OF REAR WIPER AND WASHER SW \rightarrow **TERMINAL 16** \rightarrow TO **GROUND**. THUS, THE RELAY COIL IS ACTIVATED AND THE CURRENT TO **TERMINAL 4** OF RELAY FLOWS TO **TERMINAL 1** \rightarrow **TERMINAL 4** OF REAR WIPER MOTOR \rightarrow MOTOR \rightarrow **TERMINAL 2** \rightarrow TO **GROUND** AND CAUSES THE MOTOR TO OPERATE THE WIPER.

2. REAR WIPER INTERMITTENT OPERATION

WITH THE IGNITION SW TURNED ON AND REAR WIPER AND WASHER SW TURNED TO INT POSITION, THE CURRENT FLOWING TO TERMINAL 4 OF REAR WIPER RELAY FLOWS TO TERMINAL 3 OF RELAY \rightarrow TERMINAL 10 OF WIPER SW \rightarrow TERMINAL 16 \rightarrow TO GROUND. AS A RESULT, THE RELAY OPERATES AND CURRENT FLOWS FROM TERMINAL 4 OF RELAY \rightarrow TERMINAL 1 \rightarrow TERMINAL 4 OF REAR WIPER MOTOR \rightarrow MOTOR \rightarrow TERMINAL 2 \rightarrow TO GROUND, CAUSING THE MOTOR TO ROTATE TO OPERATE THE WIPER. AT THIS TIME THE CONTACT IN THE WIPER MOTOR CLOSED AND THE CURRENT FLOWS FROM TERMINAL 1 OF REAR WIPER MOTOR \rightarrow TERMINAL 3 \rightarrow TERMINAL 2 OF REAR WIPER RELAY \rightarrow TERMINAL 1 \rightarrow TERMINAL 4 OF REAR WIPER MOTOR \rightarrow TERMINAL 2 \rightarrow TO GROUND.

THUS, THE INTERMITTENT-STOP CIRCUIT OPERATES, THE CONDENOR IN THE CIRCUIT CHARGES AND THE WIPER CONTINUES TO OPERATE UNTIL REACHING THE STOP POSITION. AFTER THE WIPER STOPS, CURRENT DOES NOT FLOW TO THE INTERMITTENT-STOP CIRCUIT FROM **TERMINAL 2** OF RELAY, BUT THE CONDENSER DISCHARGES CURRENT INTO THE INTERMITTENT CIRCUIT AND THE CIRCUIT OPERATES UNTIL THE CONDENSER DISCHARGE ENDS. AS A RESULT, THIS DISCHARGE INTERVAL BECOMES THE INTERMITTENT TIME.

WHEN THE CURRENT IS DISCHARGED COMPLETELY, THE CURRENT FLOWING TO **TERMINAL 4** OF RELAY FLOWS TO **TERMINAL 3** \rightarrow **TERMINAL 10** OF REAR WIPER AND WASHER SW \rightarrow **TERMINAL 16** \rightarrow TO **GROUND**.

THEN, THE CURRENT IN **TERMINAL 4** OF RELAY FLOWS FROM **TERMINAL 1** \rightarrow **TERMINAL 4** OF MOTOR \rightarrow MOTOR \rightarrow TERMINAL 2 \rightarrow TO **GROUND** AND ROTATES THE MOTOR. THROUGH REPEITION OF THIS PROCESS, INTERMITTENT OPERATION OF THE REAR WIPER OCCURS.

3. WASHER OPERATION

WITH THE IGNITION SW ON AND THE REAR WIPER AND WASHER SW IS TURNED STRONGLY (WASHER SW ON), CURRENT FLOWS FROM **TERMINAL 2** OF WASHER MOTOR \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 2** OF REAR WIPER AND WASHER SW \rightarrow **TERMINAL 16** \rightarrow TO **GROUND** SO THAT THE WASHER MOTOR ROTATES AND WINDOW WASHER EJECTS THE SPRAY, ONLY THE WHILE THE REAR WASHER SW IS TURNED, WHEN THE REAR WIPER SW IS OFF, AND THE REAR WIPER AND WASHER SW IS THEN TURNED IN THE OFF DIRECTION. WASHER LIQUID WILL ALSO SPLAY.

SERVICE HINTS -

R19 REAR WIPER RELAY

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

7-GROUND : ALWAYS CONTINUITY

1-4 : POINTS CHANGES EVERY APPROX. 9-15 SECONDS INTERMITTENTLY WITH IGNITION SW ON AND WIPER SW AT

INT POSITION

W 1 WASHER MOTOR

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

3-GROUND: CONTINUITY WITH WASHER SW TURNED ON

REAR WIPER AND WASHER

\bigcirc

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C13	32	R18	36 (W/G)	W 1	29 (1MZ-FE), 30 (5S-FE)
J 5	36 (W/G)	R19	36 (W/G)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

ſ	CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
Ī	1H	20	FLOOR NO. 1 WIRE J/B NO. 1 (INSTRUMENT PANEL LEFT)
Ī	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)
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE
IR1	44	ENGINE ROOM MAIN WIRE AND COWL WIRE
Bc1	50 (W/G)	BACK DOOR NO. 1 WIRE AND FLOOR NO. 1 WIRE
Bd1	50 (W/G)	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE

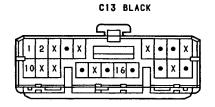


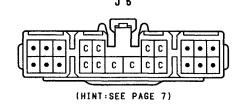
: GROUND POINTS

CODE	SEE PAGE	DUND POINTS LOCATION						
IE	42	FT KICK PANEL						
	46 (S/D)							
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR						
	50 (W/G)							
BR	50 (W/G)	ACK DOOR CENTER						



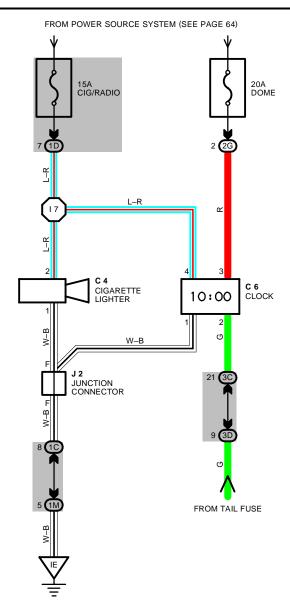
	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
ſ	17	44	COWL WIRE	B36	50 (W/G)	FLOOR NO. 1 WIRE











SERVICE HINTS -

C4 CIGARETTE LIGHTER

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

1-GROUND : ALWAYS CONTINUITY

C 6 CLOCK

3-GROUND : ALWAYS APPROX. 12 VOLTS (POWER FOR

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

ACC OR ON POSITION

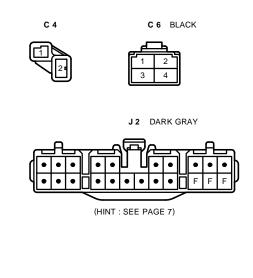
(POWER FOR INDICATION)

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

APPROX. 12 VOLTS WITH ENGINE RUNNING AND PARKING BRAKE RELEASED

(CANADA)

1-GROUND : ALWAYS CONTINUITY



: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 4	32	C 6	32	J 2	33

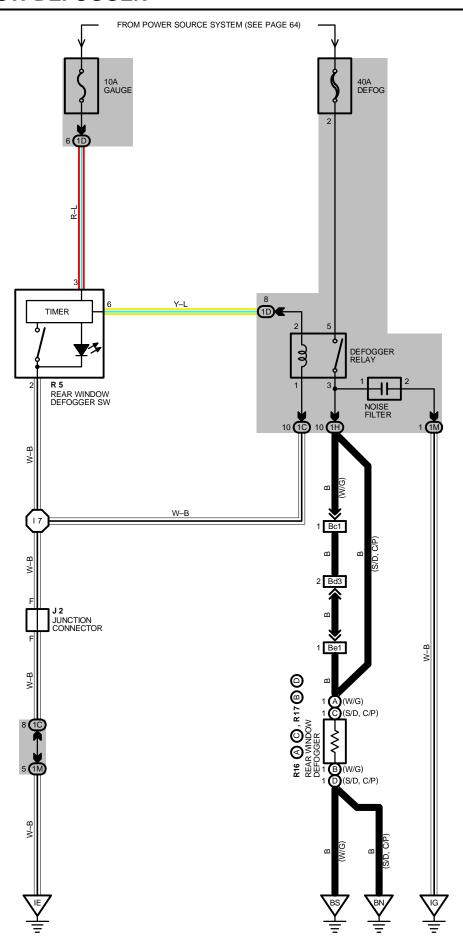
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)			
1B					
1C	20	OWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1D	20	COWL WIRE AND 3/B NO. 1 (INSTROMENT PANEL LEFT)			
1M					
2E	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)			

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IE	42	LEFT KICK PANEL

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
17	44	COWL WIRE			



SERVICE HINTS

DEFOGGER RELAY

5-3: CLOSED WITH IGNITION SW ON, DEFOGGER SW ON

R 5 REAR WINDOW DEFOGGER SW

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

2-GROUND: ALWAYS CONTINUITY

3-6: CONTINUITY WITH DEFOGGER SW ON

: PARTS LOCATION

CODE	SEE PAGE	CO	DE	SEE PAGE	CODE		SEE PAGE
J 2	33	R16	Α	34 (S/D), 35 (C/P), 36 (W/G)	R17	В	34 (S/D), 35 (C/P), 36 (W/G)
R 5	33	KIO	С	34 (S/D), 35 (C/P), 36 (W/G)	K17	D	34 (S/D), 35 (C/P), 36 (W/G)

: 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	COVIL WIRE AIND J/B NO. I (INSTRUMENT FANEL LEFT)			
1H	20	FLOOR NO. 1 WIRE J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1 M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

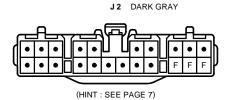
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
Bc1	50 (W/G)	BACK DOOR NO. 1 WIRE AND FLOOR NO. 1 WIRE
Bd3	50 (W/G)	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE
Be1	50 (W/G)	REAR WINDOW NO. 1 WIRE AND BACK DOOR NO. 2 WIRE

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION					
IE	42	FT KICK PANEL					
IG	42	NSTRUMENT PANEL BRACE LH					
BN	46 (S/D)	UNDER THE RIGHT QUARTER PILLAR					
DIN	48 (C/P)	UNDER THE RIGHT QUARTER PILLAR					
BS	50 (W/G)	ACK DOOR RIGHT					

: SPLICE POINTS

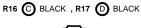
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
17	44	COWL WIRE			

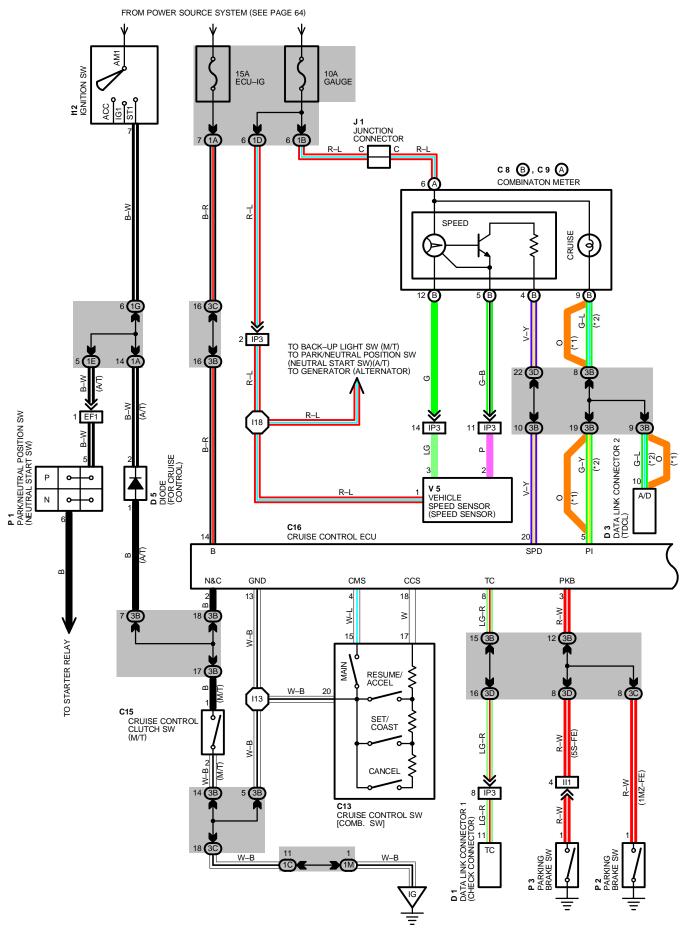


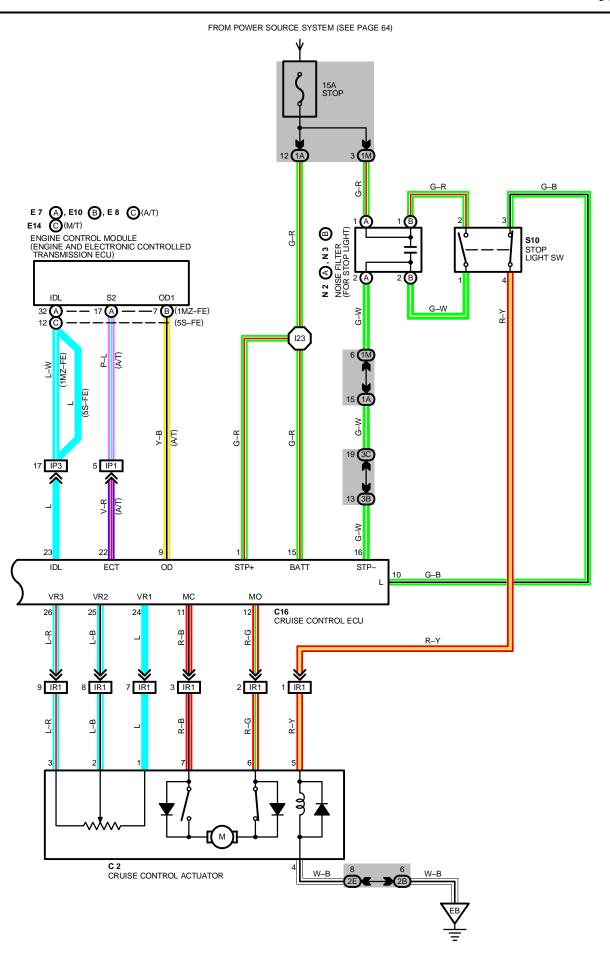




R16 (A), R17 (B)







CRUISE CONTROL

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: PARTS LOCATION

CC	DE	SEE PAGE	CC	DE	SEE PAGE	CO	DE	SEE PAGE
C	C 2 28 (1MZ–FE), 30 (5S–FE) D 5 32		N 3	В	33			
C 8	В	32 I		Α	32	Р	1	29 (1MZ-FE), 31 (5S-FE)
C 9	Α	32	E 8	С	32	Р	2	33
С	13	32	E10	В	32	Р	3	33
С	15	32	E14	С	32	S	10	33
С	16	32	I1	12	33	V	5	29 (1MZ-FE), 31 (5S-FE)
D 1		28 (1MZ-FE), 30 (5S-FE)	J	1	33			
D	3	32	N 2	Α	33			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1A		
1B		
1C	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1D		
1E		
1G		
1M		
2B	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
2E	22	ENGINE ROOM MAIN WIRE AND JIB NO. 2 (ENGINE COMPARTMENT LETT)
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)			
EF1	38 (1MZ-FE)	ENGINE WIRE AND COWL WIRE			
EFI	40 (5S-FE)	ENGINE WIRE AND COWL WIRE			
II1	42	OWL WIRE AND INSTRUMENT PANEL WIRE			
IP1	44	ENCINE WIDE AND COWI WIDE			
IP3	44	ENGINE WIRE AND COWL WIRE			
IR1	44	ENGINE ROOM MAIN WIRE AND COWL WIRE			

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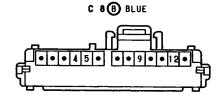
: GROUND POINTS

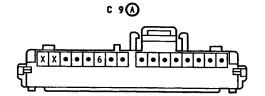
CODE	SEE PAGE	GROUND POINTS LOCATION			
EB	38 (1MZ-FE)	RONT LEFT FENDER			
EB	40 (5S-FE)	FRONT LEFT FEINDER			
IG	42	ISTRUMENT PANEL BRACE LH			

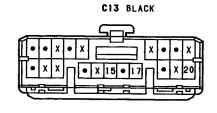
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CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I13	44	COWL WIRE	123	44	COWL WIRE
I18	44	ENGINE WIRE			

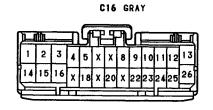


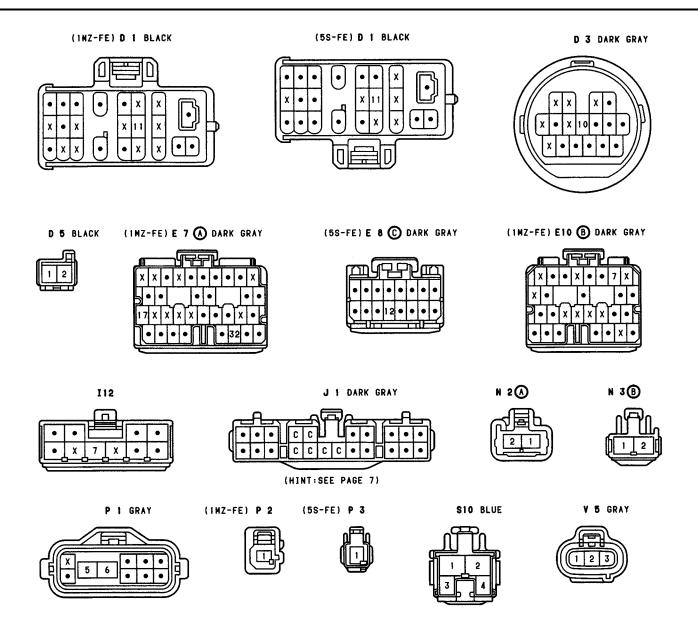












CRUISE CONTROL

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 ON 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, PUSHING 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 TURNS OFF AND THE MOTOR ROTATES TO CLOSE THE THROTTLE VALVE AND THE CRUISE CONTROL IS RELEASED.

- * PLACING THE SHIFT LEVER IN "N" POSITION (PARK/NEUTRAL POSITION SW (NEUTRAL START SW ON). "SIGNAL INPUT TO **TERMINAL 2** OF ECU" (A/T)
- * DEPRESSING THE CLUTCH PEDAL (CLUCH SW ON). "SIGNAL INPUT TO TERMINAL 2 OF THE ECU" (M/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 PARKING BRAKE PEDAL (PARKING BRAKE SW ON). "SIGNAL INPUT TO TERMINAL 3 OF ECU" (3VZ-FE)
- * PULLING THE PARKING BRAKE LEVER (PARKING BRAKE SW ON). "SIGNAL INPUT TO TERMINAL 3 OF THE ECU" (5S-FE)

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 TRANSISTOR 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 (25 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 —

C 2 CRUISE CONTROL ACTUATOR

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

C13 CRUISE CNTROL 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

C16 CRUISE CONTROL ECU

14–GROUND : APPROX. 12 VOLTS WITH IGNITION SW AT \mathbf{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

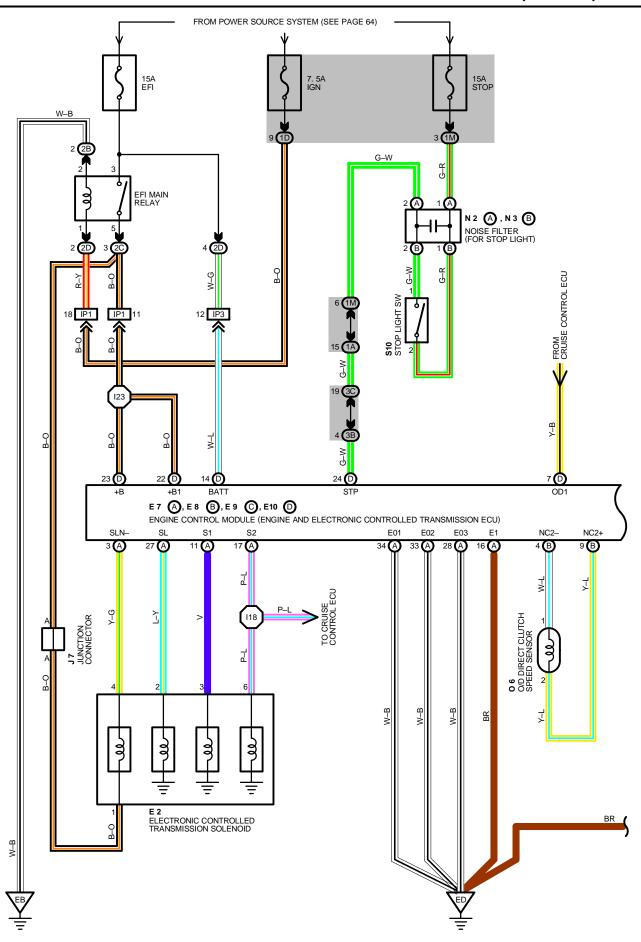
18-GROUND : APPROX. 418 WITH CANCEL SW ON IN CONTROL SW

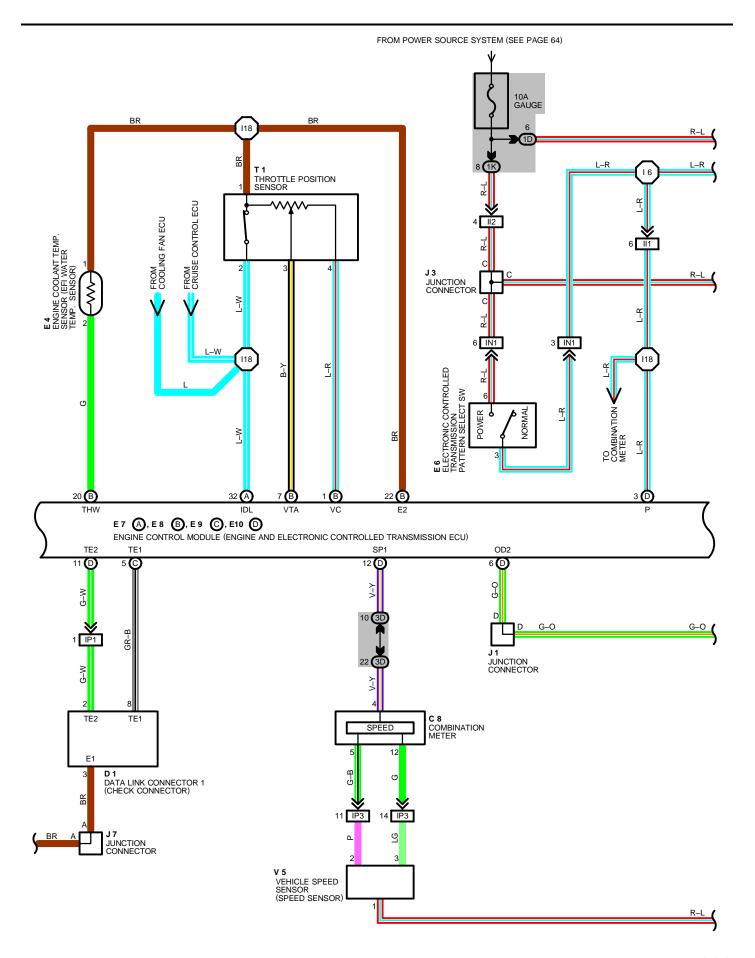
APPROX. **68** WITH RES/ACC SW ON IN CONTROL SW APPROX. **198** WITH SET/COAST SW ON IN CONTROL SW

13-GROUND : ALWAYS CONTINUITY

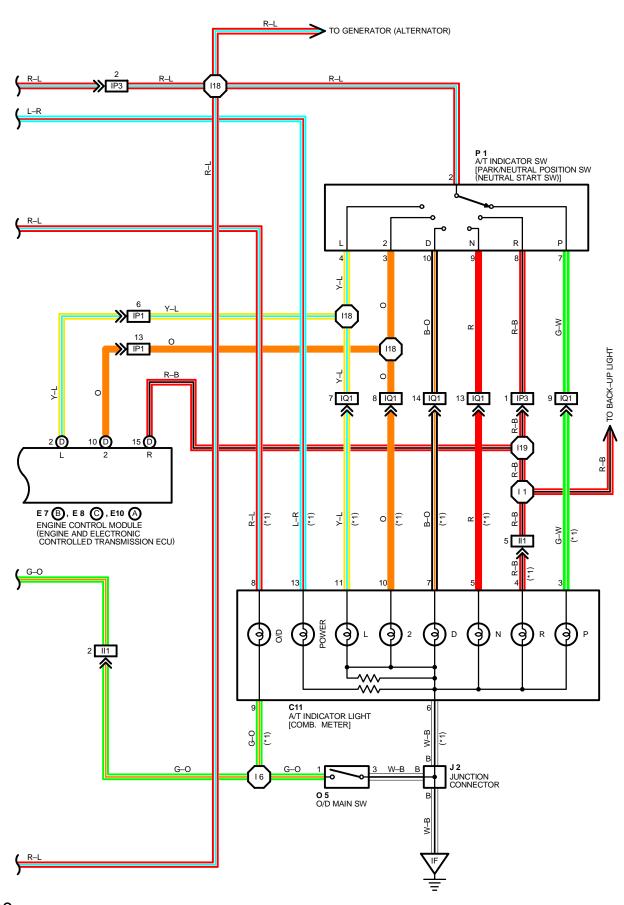
2-GROUND : CONTINUITY WITH SHIFT LEVER AT N POSITION (A/T) OR CLUTCH PEDAL DEPRESSED (M/T)

ELECTRONIC CONTROLLED TRANSMISSION AND A/T INDICATOR (1MZ-FE)





*1 : W/ A/T INDICATOR LIGHT



PREVIOUS AUTOMATIC TRANSMISSIONS HAVE SELECTED EACH GEAR SHIFT USING MECHANICALLY CONTROLLED THROTTLE HYDRAULIC PRESSURE, GOVERNOR HYDRAULIC PRESSURE AND LOCK-UP HYDRAULIC PRESSURE. THE ELECTRONIC CONTROLLED TRANSMISSION, HOWEVER, ELECTRICALLY CONTROLS THE LINE PRESSURE AND LOCK-UP PRESSURE ETC., THROUGH THE SOLENOID VALVE. ENGINE CONTROL MODULE (ENGINE AND ELECTRONIC CONTROLLED TRANSMISSION ECU) CONTROL OF THE SOLENOID VALVE BASED ON THE INPUT SIGNALS FROM EACH SENSOR MAKES SMOOTH DRIVING POSSIBLE BY SHIFT SELECTION FOR EACH GEAR WHICH IS MOST APPROPRIATE TO THE DRIVING CONDITIONS AT THAT TIME.

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 (ECU), AND ALSO THE INPUT SIGNALS TO **TERMINAL NC2+** OF THE ENGINE CONTROL MODULE (ECU) FROM THE VEHICLE SPEED SENSOR (SPEED SENSOR) DEVOTED TO THE ELECTRONIC CONTROLLED TRANSMISSION. 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 SOLENOIDS \rightarrow **GROUND**, AND CONTINUITY TO THE NO. 1 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 STP** 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 OVERDIRVE.

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.

ELECTRONIC CONTROLLED TRANSMISSION AND A/T INDICATOR (1MZ-FE)

SERVICE HINTS

E 7(B), E 8 (C), E10(A) ENGINE CONTROL MODULE (ENGINE AND ELECTRONIC CONTROLLED TRANSMISSION ECU) (TURN ON THE IGNTION 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
R- E1 : 7.5–14.0 VOLTS WITH SHIFT LEVER AT R POSITION
STP- E1 : 9.0–14.0 VOLTS WITH BRAKE PEDAL DEPRESSED

THW- E2 : 0.2-1.0 VOLTS WITH 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 CLOSED

3.2–4.9 VOLTS WITH THROTTLE VALVE FULLY OPENED

VC- E2 : 4.5-5.5 VOLTS WITH IGNITION SW AT ON POSITION
OD1- E1 : 4.5-5.5 VOLTS WITH IGNITION SW AT ON POSITION
OD2- E1 : 9.0-14.0 VOLTS WITH O/D MAIN SW TURNED OFF
0-3.0 VOLTS WITH O/D MAIN SW TURNED ON
CSW E4 : 0.0.440 VOLTS WITH IGNITION SW AT ON POSITION

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

E 2 ELECTRONIC CONTROLLED TRANSMISSION SOLENOID

1, 2, 6–GROUND : EACH **11–15** Ω

O 5 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	CC	DE	SEE PAGE	CODE	SEE PAGE
С	8	32	E 9	С	32	O 5	33
С	11	32	E10	D	32	06	29
D	1	28	J	1	33	P1	29
E	2	28	J	2	33	S10	33
E	4	28	J	3	33	T 1	29
E	6	32	J	7	33	V 5	29
E 7	Α	32	N 2	Α	33		
E 8	В	32	N 3	В	33		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)					
1A							
1D	20	COMMUNICATION OF A CONTRACT PARTY PARTY PARTY					
1K	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)					
1 M	1M						
2B	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 WIRE AND 3/B NO. 2 (ENGINE CONFARTIMENT LET 1)					
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)
II1	42	COWL WIRE AND INSTRUMENT PANEL WIRE
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE
IN1	42	INSTRUMENT PANEL WIRE AND SWITCH WIRE
IP1	- 44	ENGINE WIRE AND COWL WIRE
IP3	44	ENGINE WIRE AND COWL WIRE
IQ1	44	ENGINE WIRE AND INSTRUMENT PANEL WIRE

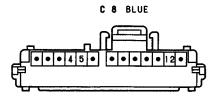
: GROUND POINTS

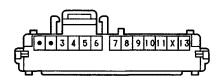
CODE	SEE PAGE	GROUND POINTS LOCATION
EB	38 (1MZ-FE)	FRONT LEFT FENDER
ED	38 (1MZ-FE)	INTAKE MANIFOLD LH
IF	42	LEFT KICK PANEL



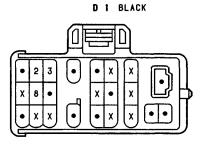
: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
11	44	COWL WIRE	l19	44	COWL WIRE
16	44	INSTRUMENT PANEL WIRE	123	44	COWL WIRE
I18	44	ENGINE WIRE			





C11 BROWN



E 2 GRAY

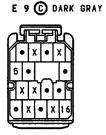




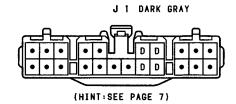
E 6 BLACK

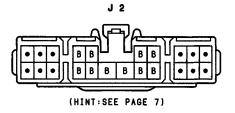


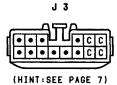














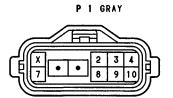


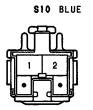
N 3(B)



0 5 BLUE

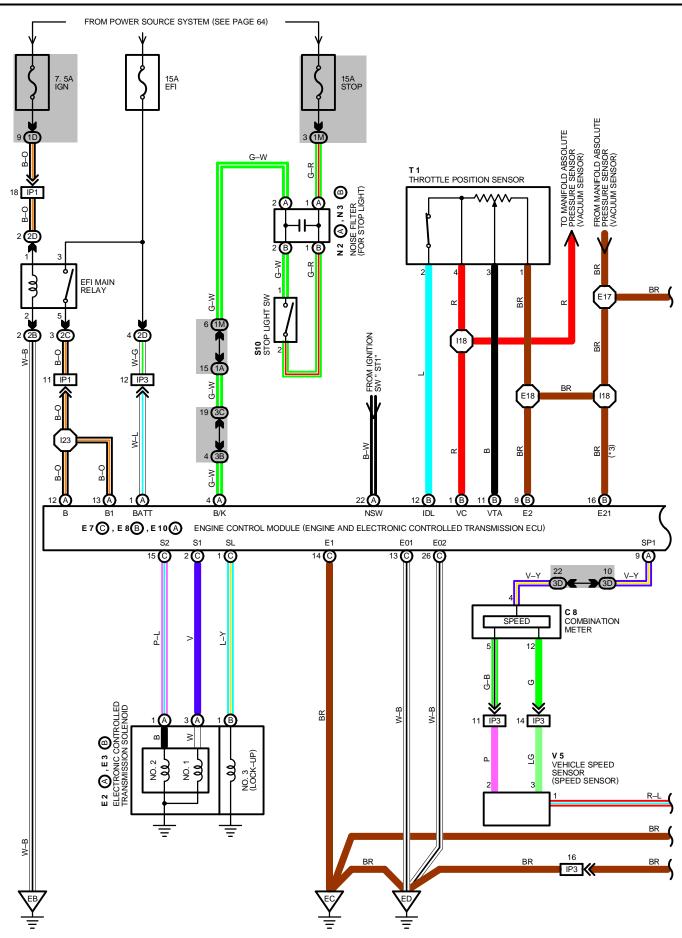




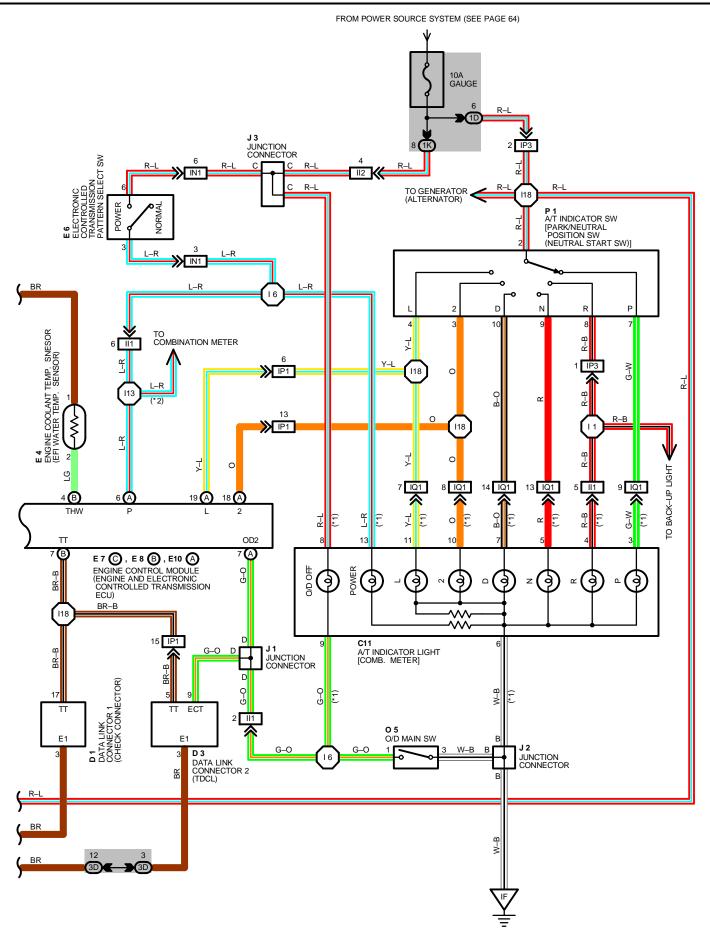


T 1 BLACK





*3 : EX. CALIFORNIA



ELECTRONIC CONTROLLED TRANSMISSION AND A/T INDICATOR (5S-FE)

SYSTEM OUTLINE

PREVIOUS AUTOMATIC TRANSMISSIONS HAVE SELECTED EACH GEAR SHIFT USING MECHANICALLY CONTROLLED THROTTLE HYDRAULIC PRESSURE, GOVERNOR HYDRAULIC PRESSURE AND LOCK-UP HYDRAULIC PRESSURE. THE ELECTRONIC CONTROLLED TRANSMISSION, HOWEVER, ELECTRICALLY CONTROLS THE LINE PRESSURE AND LOCK-UP PRESSURE ETC., THROUGH THE SOLENOID VALVE. ENGINE CONTROL MODULE (ENGINE AND ELECTRONIC CONTROLLED TRANSMISSION ECU) CONTROL OF THE SOLENOID VALVE BASED ON THE INPUT SIGNALS FROM EACH SENSOR MAKES SMOOTH DRIVING POSSIBLE BY SHIFT SELECTION FOR EACH GEAR WHICH IS MOST APPROPRIATE TO THE DRIVING CONDITIONS AT THAT TIME.

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 (ECU), AND ALSO THE INPUT SIGNALS TO **TERMINAL SP1** OF THE ENGINE CONTROL MODULE (ECU) FROM THE VEHICLE SPEED SENSOR (SPEED SENSOR) DEVOTED TO THE ELECTRONIC CONTROLLED TRANSMISSION. 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 (A)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 (A)3** OF THE ELECTRONIC CONTROLLED TRANSMISSION SOLENOIDS \rightarrow **GROUND**, AND FROM **TERMINAL S2** OF THE ENGINE CONTROL MODULE (ECU) \rightarrow **TERMINAL (A)1** OF THE ELECTRONIC CONTROL 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 (B)1** 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 B/K** 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.

SERVICE HINTS

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

R-E1: 7.5-14.0 VOLTS WITH SHIFT LEVER AT R POSITION
B/K-E1: 9.0-14.0 VOLTS WITH BRAKE PEDAL DEPRESSED

THW- E2 : 0.2-1.0 VOLTS WITH 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

SERVICE HINTS

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 **OD2- E1** : 9.0-14.0 VOLTS WITH O/D MAIN SW TURNED ON

0–3.0 VOLTS WITH O/D MAIN SW TURNED OFF

 $\textbf{IGSW-E1} \hspace{0.2cm} : \hspace{0.2cm} \textbf{9.0-14.0} \hspace{0.1cm} \textbf{VOLTS} \hspace{0.1cm} \textbf{WITH} \hspace{0.1cm} \textbf{IGNITION} \hspace{0.1cm} \textbf{SW} \hspace{0.1cm} \textbf{AT} \hspace{0.1cm} \textbf{ON} \hspace{0.1cm} \textbf{POSITION}$

+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

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

E 2(A), E 3(B) ELECTRONIC CONTROLLED TRANSMISSION SOLENOID

(A)1, (A)3, (B)1–GROUND : EACH 11–15 Ω

O 5 O/D MAIN SW

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

: PARTS LOCATION

CODE		SEE PAGE	CODE		SEE PAGE	CODE		SEE PAGE
С	8	32	Е	6	32	N 2	Α	33
С	11	32	E 7	С	32	N 3	В	33
D	1	30	E 8	В	32 O 5		5	33
D	3	32	E10	Α	32	Р	1	31
E 2	Α	30	J	1	33	S	10	33
E 3	В	30	J	2	33	Т	1	31
Е	4	30	J	3	33	V 5		31

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)			
1A					
1D	20	COMI MIDE AND 1/D NO. 1 (INSTRUMENT DANIEL LEET)			
1K	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1M					
2B	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)			
2C	22	ENCINE WIRE AND 1/2 NO. 2 (ENCINE COMPARTMENT LEET)			
2D	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					

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

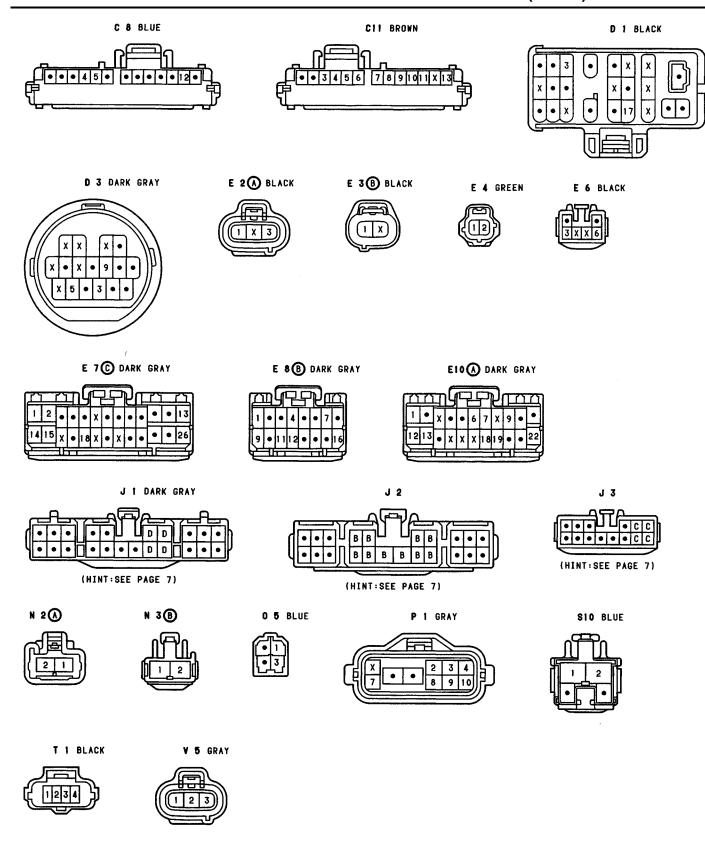
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
II1	42	COWL WIRE AND INSTRUMENT PANEL WIRE
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE
IN1	42	INSTRUMENT PANEL WIRE AND SWITCH WIRE
IP1	44	ENGINE WIRE AND COWL WIRE
IP3	44	ENGINE WIRE AND COWL WIRE
IQ1	44	ENGINE WIRE AND INSTRUMENT PANEL WIRE

: GROUND POINTS

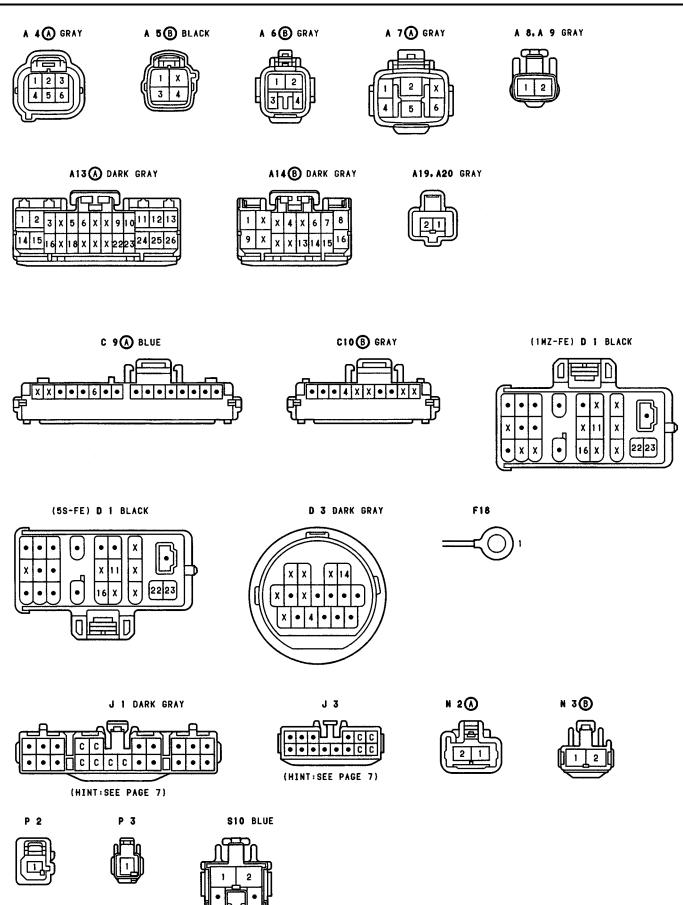
•		
CODE	SEE PAGE	GROUND POINTS LOCATION
EB	40 (5S-FE)	FRONT LEFT FENDER
EC	40 (5S-FE)	INTAKE MANIFOLD RH
ED	40 (5S-FE)	INTAKE MANIFOLD LH
IF	42	LEFT KICK PANEL

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E17	40 (5S-FE)	ENGINE WIRE	l13	44	COWL WIRE
E18	40 (55-FE)	ENGINE WIRE	I18	44	ENGINE WIRE
11	44	COWL WIRE	123	44	COWL WIRE
16	44	INSTRUMENT PANEL WIRE			

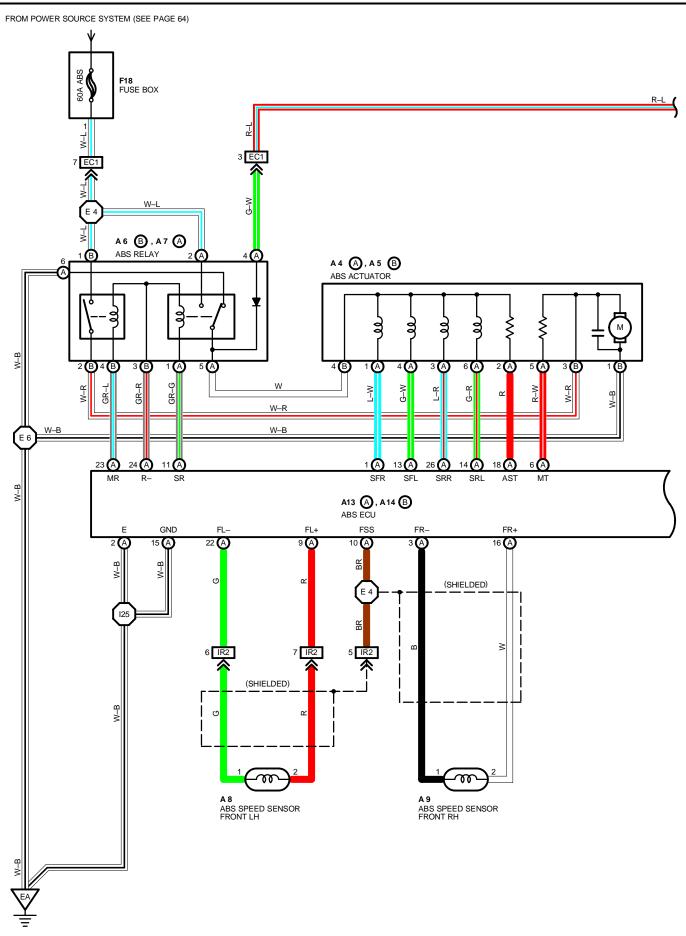
ELECTRONIC CONTROLLED TRANSMISSION AND A/T INDICATOR (5S-FE)

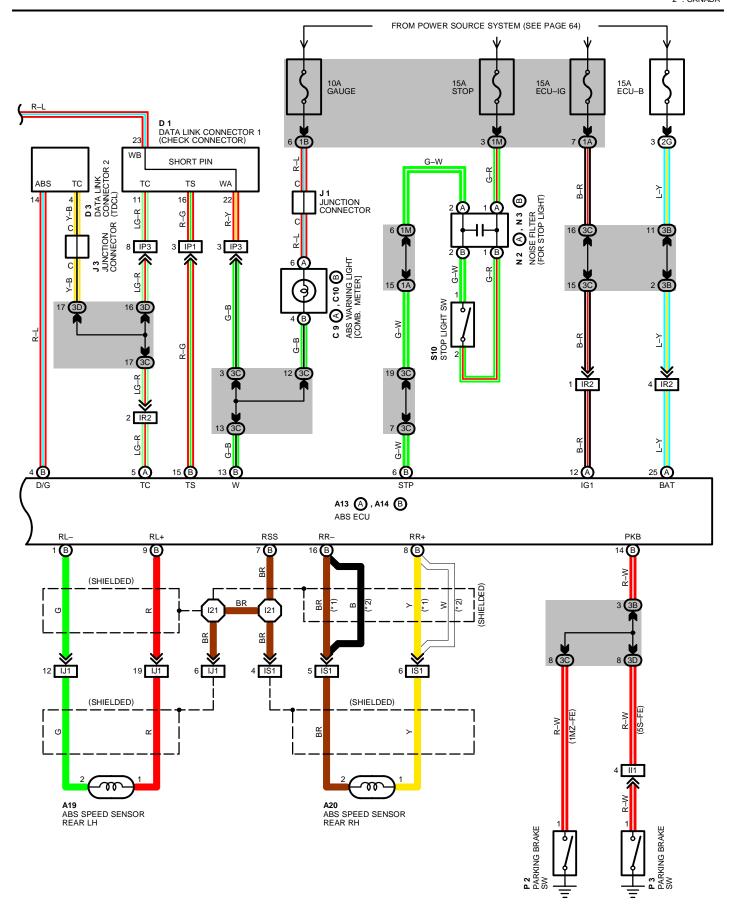


ABS (ANTI-LOCK BRAKE SYSTEM) (TMC MADE)



ABS (ANTI-LOCK BRAKE SYSTEM) (TMC MADE)





ABS (ANTI-LOCK BRAKE SYSTEM) (TMC MADE)

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 BRAKEING.

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 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 BRAKEING 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 REPLATED TO MAINTAIN VEHICLE STABILITY AND TO IMPROVE STEERBILITY DURING SUDDEN BRAKING.

SERVICE HINTS

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

(A)1, (A)3, (A)4, (A)6 – (A)2 : APPROX. 6 Ω

(A)2-GROUND : APPROX. 5 Ω

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

(A)1–(B) 3 : 60 Ω –100 Ω

(A)4–(B) 3 : 60 Ω –100 Ω

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

(A)6-GROUND: APPROX. 12 VOLTS

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

1-2: **0.8** K-**1.3** KΩ

A19, A20 ABS SPEED SENSOR REAR LH, RH

1-2 : **1.1** K-**1.5** KΩ

A13(A), A14(B) ABS ECU

(CONNECT THE ECU CONNECTORS)

- (A) 5-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION AND DATA LINK CONNECTOR 1 (CHECK CONNECTOR) TS-EI NOT CONNECTED
- (B)15-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION AND DATA LINK CONNECTOR 1 (CHECK CONNECTOR) TS-EI NOT CONNECTED
- (A) 1-GROUND, (A) 13-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION AND ABS WARNING LIGHT GOES OFF (A)14-GROUND, (A) 1-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION AND ABS WARNING LIGHT GOES OFF
- (A)26-GROUND, (A) 18-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION AND ABS WARNING LIGHT GOES OFF
- (A) 2-GROUND: ALWAYS CONTINUITY
- (A)15-GROUND: ALWAYS CONTINUITY
- (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

: PARTS LOCATION

CO	DE	SEE PAGE	CODE	SEE PAGE	CO	DE	SEE PAGE
A 4	Α	28 (1MZ-FE), 30 (5S-FE)	A19	34	J 3		33
A 5	В	28 (1MZ-FE), 30 (5S-FE)	A20	34	N 2	Α	33
A 6	В	28 (1MZ-FE), 30 (5S-FE)	C9 A	32	N 3	В	33
A 7	Α	28 (1MZ-FE), 30 (5S-FE)	C10 B	32	Р	2	33
Α	8	28 (1MZ-FE), 30 (5S-FE)	D 1	28 (1MZ-FE), 30 (5S-FE)	Р	3	33
Α	9	28 (1MZ-FE), 30 (5S-FE)	D 3	32	S1	10	33
A13	Α	32	F10	28 (1MZ-FE), 30 (5S-FE)			
A14	В	32	J 1	33			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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

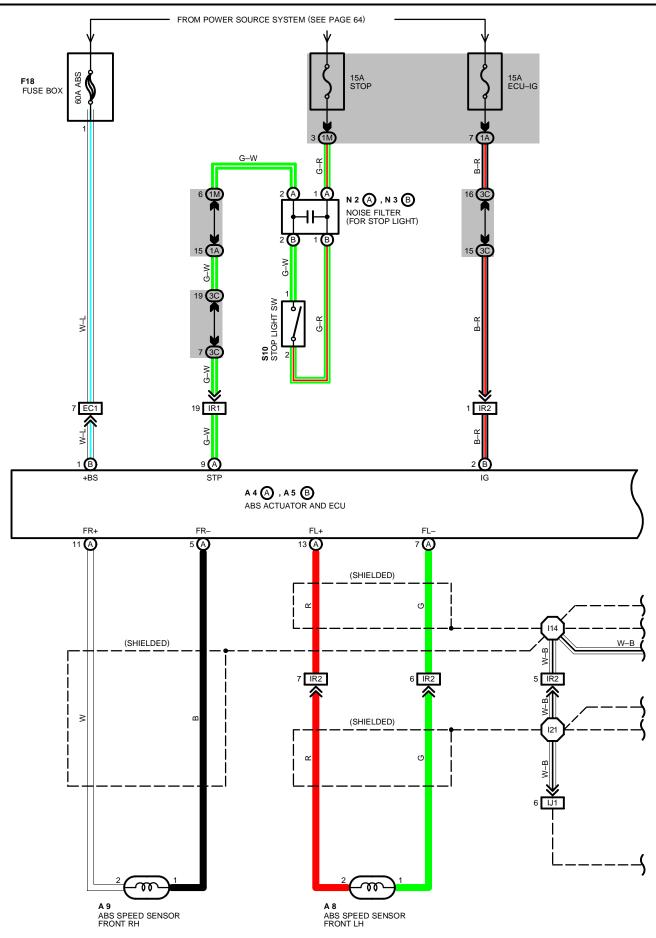
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EC1	38 (1MZ-FE)	ENGINE WIRE AND ENGINE ROOM MAIN WIRE
ECI	40 (5S-FE)	ENGINE WIRE AND ENGINE ROOM MAIN WIRE
II1	42	COWL WIRE AND INSTRUMENT PANEL WIRE
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE
IP3	44	ENGINE WIRE AND COWL WIRE
IR2	44	ENGINE ROOM MAIN WIRE AND COWL WIRE
IS1	44	FLOOR NO. 2 WIRE AND COWL WIRE

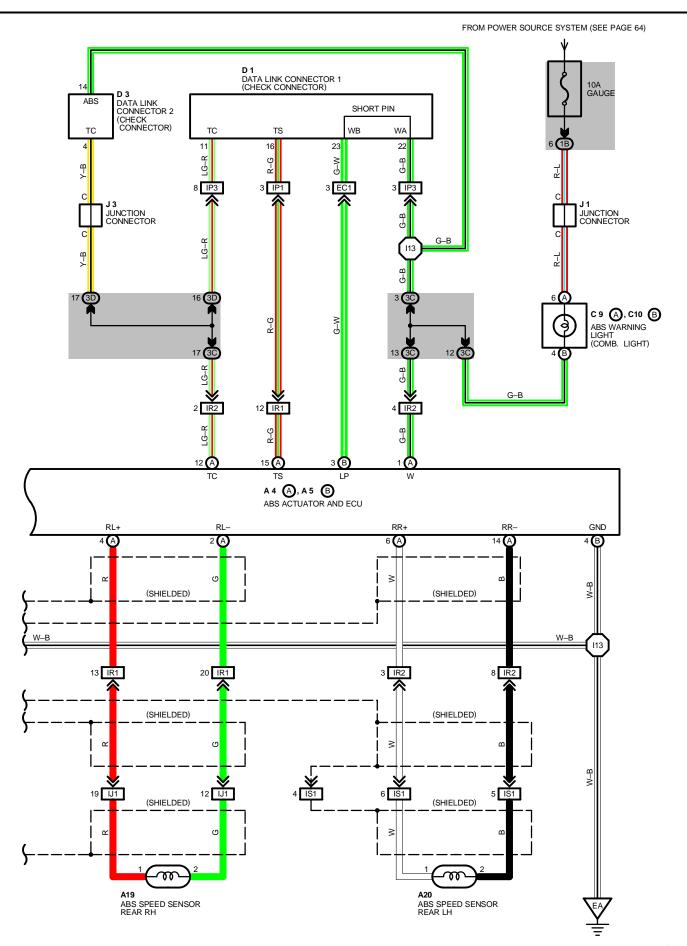
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EA	38 (1MZ-FE)	FRONT RIGHT FENDER
	40 (5S-FE)	FRONT RIGHT FENDER

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 4	38 (1MZ-FE)		E 6	40 (5S-FE)	ENGINE ROOM MAIN WIRE
E 4	40 (5S-FE)	ENGINE ROOM MAIN WIRE	I21	44	COWL WIRE
E 6	38 (1MZ-FE)		125	44	ENGINE ROOM MAIN WIRE

ABS (ANTI-LOCK BRAKE SYSTEM) (TMM MADE)





ABS (ANTI-LOCK BRAKE SYSTEM) (TMM MADE)

: PARTS LOCATION

CC	DDE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE	
A 4	Α	28 (1MZ-FE), 30 (5S-FE)	C 9 A	32	J 3	33	
A 5	В	28 (1MZ-FE), 30 (5S-FE)	C10 B	32	N 2 A	33	
	8	28 (1MZ-FE), 30 (5S-FE)	D 1	28 (1MZ-FE), 30 (5S-FE)	N 3 B	33	
	. 9	28 (1MZ-FE), 30 (5S-FE)	D 3	32	S10	33	
Α	19	34 (S/D), 35 (C/P), 36 (W/G)	F18	28 (1MZ-FE), 30 (5S-FE)			
Α	20	34 (S/D), 35 (C/P), 36 (W/G) J 1		33			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)		
1A				
1B	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)		
1M				
3C	24	COMI MURE AND UD NO 2 (RELUND COMBINATION METER)		
3D	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)		

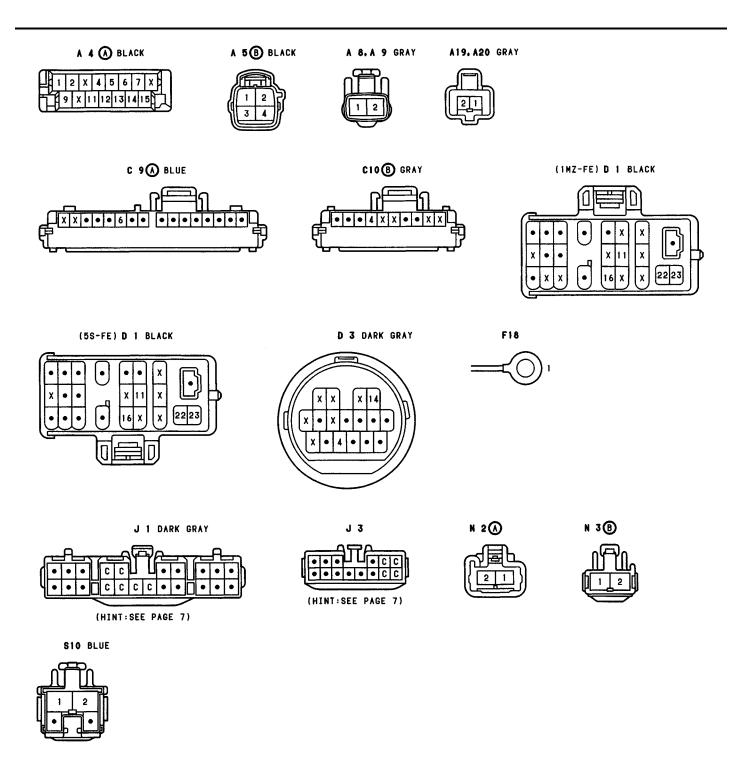
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

	A. Control of the Con			
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)		
EC1	38 (1MZ-FE)	ENGINE WIRE AND ENGINE ROOM MAIN WIRE		
	40 (5S-FE)			
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE		
IP1	44	ENGINE WIRE AND COWL WIRE		
IP3	- 44			
IR1	- 44	ENCINE DOOM MAIN WIDE AND COMI MIDE		
IR2		ENGINE ROOM MAIN WIRE AND COWL WIRE		
IS1	44	FLOOR NO. 2 WIRE AND COWL WIRE		

: GROUND POINTS

CO	DE	SEE PAGE	GROUND POINTS LOCATION
_		38 (1MZ-FE)	FRONT RIGHT FENDER
EA	А	40 (5S-FE)	FRONT RIGHT FENDER

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I13	- 44	COWL WIRE	I21	44	COWL WIRE
I14					



ABS (ANTI-LOCK BRAKE SYSTEM) (TMM MADE)

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 BRAKEING.

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 BRAKE PEDAL IS OPERATED.

2. SYSTEM OPERATION

DURING SUDDEN BRAKEING 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 REPLATED TO MAINTAIN VEHICLE STABILITY AND TO IMPROVE STEERBILITY DURING SUDDEN BRAKING.

SERVICE HINTS

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

1–2 : 0.8 K–1.3 K Ω

A19, A20 ABS SPEED SENSOR REAR LH, RH

1–2 : **1.1** K–**1.5** KΩ

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

(CONNECT THE ECU CONNECTORS)

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

TS-EI NOT CONNECTED

(A)15-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION AND DATA LINK CONNECTOR 1 (CHECK CONNECTOR)

TS-EI NOT CONNECTED

(B) 4-GROUND : ALWAYS CONTINUITY

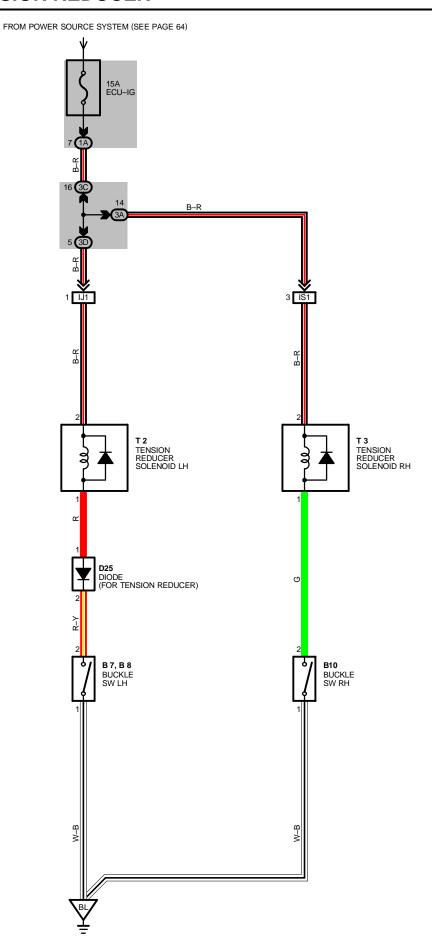
(B) 2-GROUND : APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

(A) 9-GROUND : APPROX. 12 VOLTS WITH BRAKE PEDAL DEPRESSED

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

ABS (ANTI – LOCK BRAKE SYSTEM) (TMM MADE)

-Memo



B7, B8 BUCKLE SW LH

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

B10 BUCKLE SW RH

1-2: CLOSED WITH PASSENGER'S LAP BELT IN USE

T 2, T 3 TENSION REDUCER SOLENOID LH, RH

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

0 : PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
В7	32	B10	32	T 2	35
B 8	32	D25	32	Т3	35

: 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	COMI MIDE AND UD NO 2 (PELIND COMBINATION METER)	
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)		JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)	
Ī	IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE
Ī	IS1	44	FLOOR NO. 2 WIRE AND COWL WIRE

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
	46 (S/D)	
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR
	50 (W/G)	

(*1) B7



(*2) B8

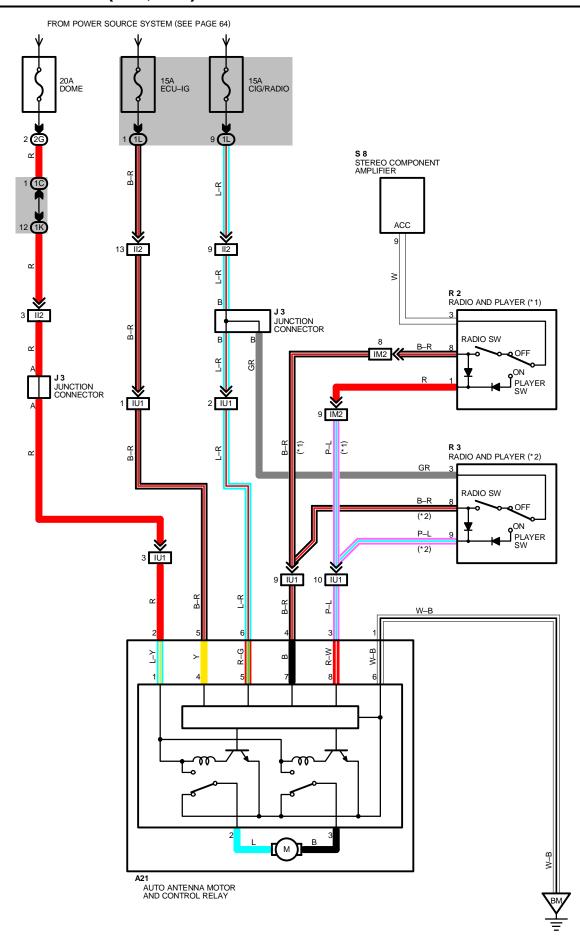




D25 BLACK







A21 AUTO ANTENNA MOTOR AND RELAY

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

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

7-GROUND: ALWAYS APPROX. 12 VOLTS

8--GROUND : APPROX. 12 VOLTS WITH IGNITION SW AT \boldsymbol{ACC} OR \boldsymbol{ON} POSITION AND RADIO SW ON

3-GROUND: CONTINUITY (UPPER LIMIT SW ON) UNLESS ANTENNA AT **UP** STOP 2-GROUND: CONTINUITY (DOWN LIMIT SW ON) UNLESS ANTENNA AT **DOWN** STOP

4-3 : CLOSED WITH IGNITION SW AT **ACC** OR **ON** POSITION AND RADIO SW ON AND PLAYER SW OFF UNTIL ANTENNA AT **UPPERMOST** POSITION

1-2 : CLOSED WITH IGNITION SW AT **ACC** OR **ON** POSITION AND RADIO SW OFF AND PLAYER SW OFF UNTIL ANTENNA AT **LOWERMOST** POSITION

1-2: CLOSED WITH IGNITION SW OFF UNTIL ANTENNA AT LOWERMOST POSITION

: PARTS LOCATION

ſ	CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
	A21	34 (S/D), 35 (C/P)	R 2	33	S 8	33
Ī	J 3	33	R 3	33		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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

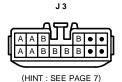
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

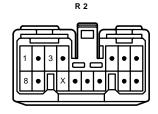
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE
IM2 42 INSTRUMENT PANEL WIRE AND CONSOLE BOX WIRE		INSTRUMENT PANEL WIRE AND CONSOLE BOX WIRE
IU1	44	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE

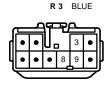
: GROUND POINTS

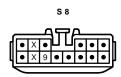
CODE	SEE PAGE	GROUND POINTS LOCATION
ВМ	46 (S/D)	UNDER THE LEFT QUARTER PILLAR
DIVI	48 (C/P)	

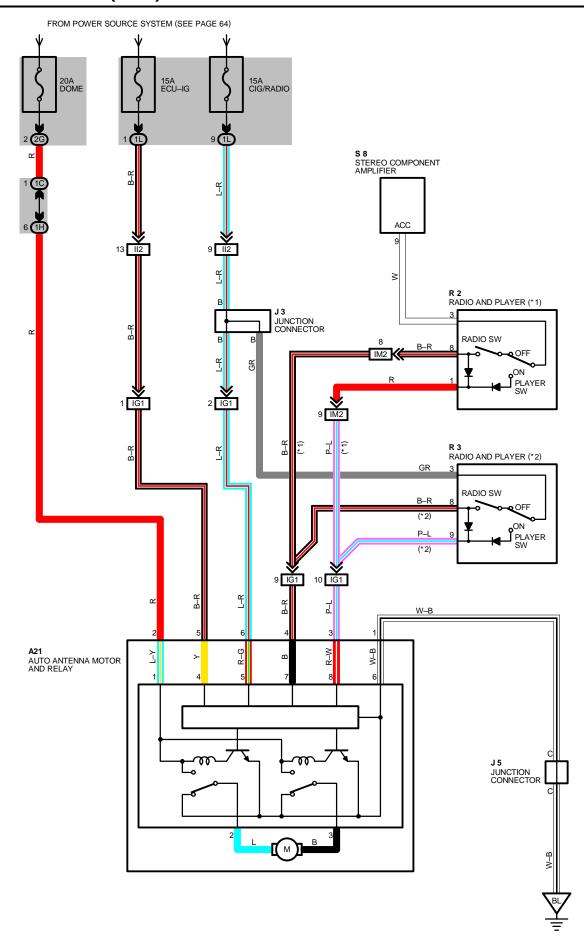












A21 AUTO ANTENNA MOTOR AND RELAY

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

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

7-GROUND: ALWAYS APPROX. 12 VOLTS

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

3-GROUND: CONTINUITY (UPPER LIMIT SW ON) UNLESS ANTENNA AT UP STOP 2-GROUND: CONTINUITY (DOWN LIMIT SW ON) UNLESS ANTENNA AT DOWN STOP

4-3 : CLOSED WITH IGNITION SW AT ACC OR ON POSITION AND RADIO SW ON AND PLAYER SW OFF UNTIL ANTENNA AT **UPPERMOST** POSITION

1-2 : CLOSED WITH IGNITION SW AT ACC OR ON POSITION AND RADIO SW OFF AND PLAYER SW OFF UNTIL ANTENNA

AT LOWERMOST POSITION

1-2 : CLOSED WITH IGNITION SW OFF UNTIL ANTENNA AT LOWERMOST POSITION

: PARTS LOCATION

ſ	CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
	A21	36 (W/G)	J 5	36 (W/G)	R 3	33
	J 3	33	R 2	33	S 8	33

: 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)
1H	20	FLOOR NO. 1 WIRE J/B NO. 1 (INSTRUMENT PANEL LEFT)
1L	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
2G	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)

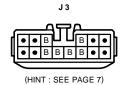
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

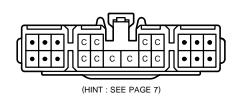
CODE SEE PAGE JOINING WIRE HARNE		JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE
IM2	42	INSTRUMENT PANEL WIRE AND CONSOLE BOX WIRE
IG1	42	FLOOR NO. 1 WIRE AND INSTRUMENT PANEL WIRE

: GROUND POINTS

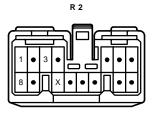
CODE	SEE PAGE	GROUND POINTS LOCATION
	46 (S/D)	
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR
	50 (W/G)	

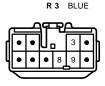


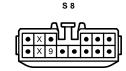




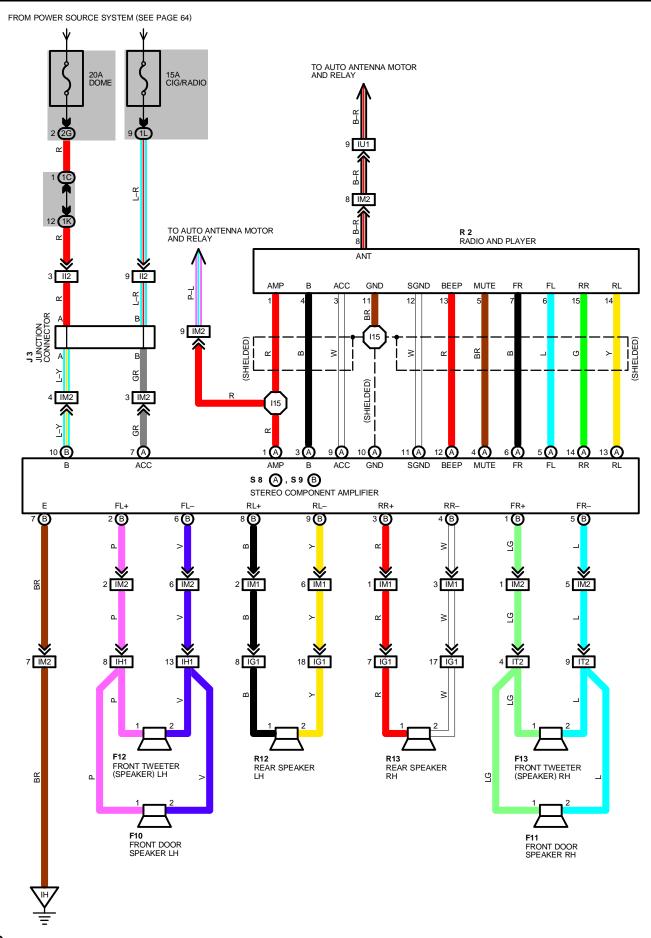
J 5







RADIO AND PLAYER (S/D, C/P 6 SPEAKER)



S 8(A), S 9(B) STEREO COMPONENT AMPLIFIER

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

(B) 7-GROUND : ALWAYS CONTINUITY
(B) 10-GROUND : ALWAYS APPROX. 12 VOLTS

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CC	DE	SEE PAGE
F10	28 (1MZ-FE), 30 (5S-FE)	J 3	33	S 8	Α	33
F11	34 (S/D), 35 (C/P)	R 2	33	S 9	В	33
F12	34 (S/D), 35 (C/P)	R12	34 (S/D), 35 (C/P)			
F13	34 (S/D), 35 (C/P)	R13	34 (S/D), 35 (C/P)			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

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

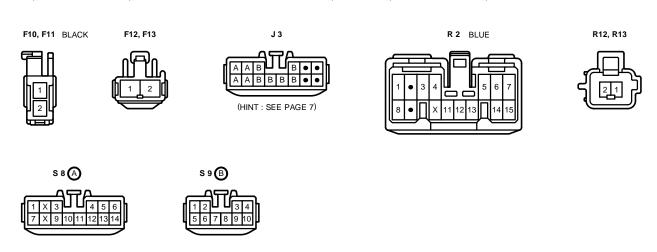
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

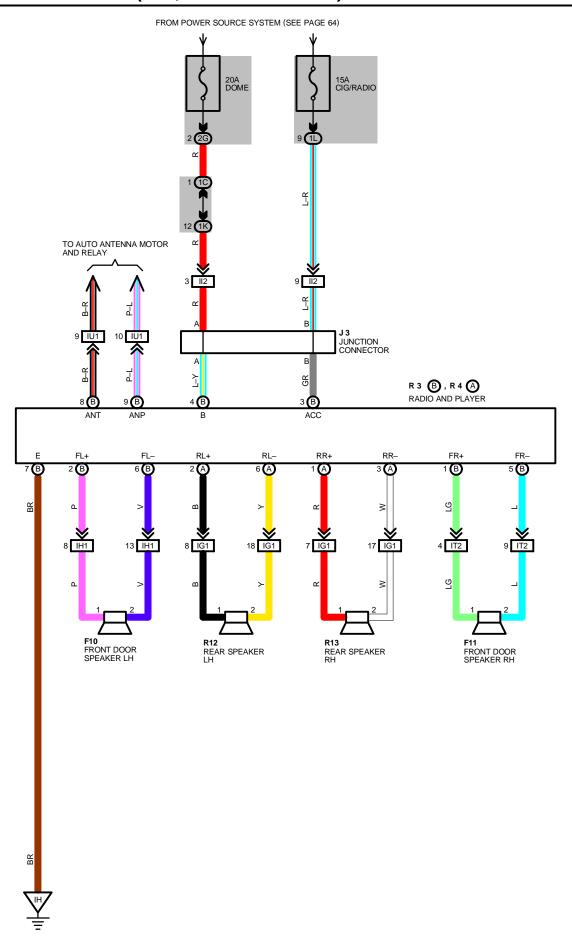
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IG1	42	FLOOR NO. 1 WIRE AND INSTRUMENT PANEL WIRE
IH1	42	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE
IM1	42	INSTRUMENT PANEL WIRE AND CONSOLE BOX WIRE
IM2	42	INSTRUMENT PANEL WIRE AND CONSOLE BOX WIRE
IT2	44	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE
IU1	44	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IH	42	INSTRUMENT PANEL BRACE RH

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I15	44	CONSOLE BOX WIRE			





R 3(B) RADIO AND PLAYER

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

(B) 4-GROUND : ALWAYS APPROX. 12 VOLTS

(B) 7-GROUND : ALWAYS CONTINUITY

: PARTS LOCATION

CODE	SEE PAGE	CODE		SEE PAGE	CODE	SEE PAGE
F10	28 (1MZ-FE), 30 (5S-FE)	R 3	В	33	R13	34 (S/D), 35 (C/P)
F11	34 (S/D), 35 (C/P)	R 4	Α	33		
J 3	33	R	12	34 (S/D), 35 (C/P)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

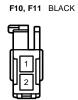
CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1C		
1K	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1L		
2G	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)

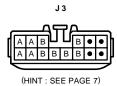
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

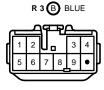
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IG1	42	FLOOR NO. 1 WIRE AND INSTRUMENT PANEL WIRE
IH1	42	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE
IT2	44	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE
IU1	44	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE

7 : GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IH	42	INSTRUMENT PANEL BRACE RH



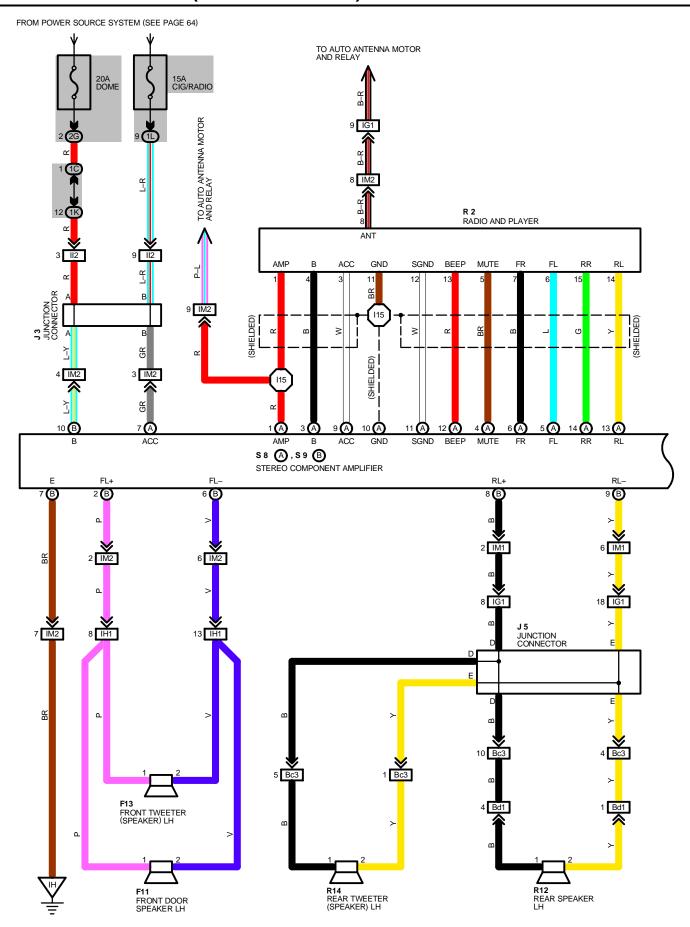


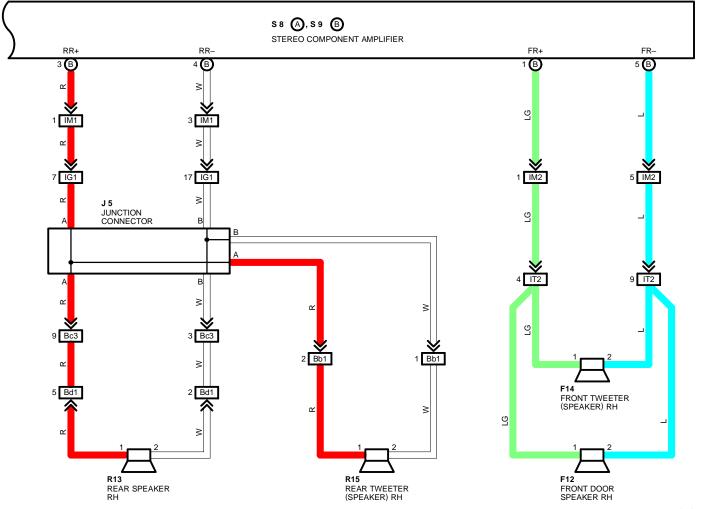






RADIO AND PLAYER (W/G 8 SPEAKER)





RADIO AND PLAYER (W/G 8 SPEAKER)

SERVICE HINTS

S 8(A), S 9(B) STEREO COMPONENT AMPLIFIER

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

(B) 7-GROUND : ALWAYS CONTINUITY

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

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE		SEE PAGE
F11	36 (W/G)	J 5	36	R'	15	36 (W/G)
F12	36 (W/G)	R 2	33	S 8	Α	33
F13	36 (W/G)	R12	36 (W/G)	S 9	В	33
F14	36 (W/G)	R13	36 (W/G)			
J 3	33	R14	36 (W/G)			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1C		
1K	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1L		
2G	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	42	FLOOR NO. 1 WIRE AND INSTRUMENT PANEL WIRE
IH1	42	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE
IM1	IM1 IM2 42	INSTRUMENT PANEL WIRE AND CONSOLE BOX WIRE
IM2		INSTRUMENT FAINLE WIRL AND CONSOLE BOX WIRL
IT2	44	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE
Bb1	50 (W/G)	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE
Bc3	50 (W/G)	BACK DOOR NO. 1 WIRE AND FLOOR NO. 1 WIRE
Bd1	50 (W/G)	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE

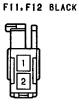
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: GROUND POINTS

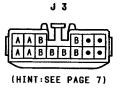
CODE	SEE PAGE	GROUND POINTS LOCATION
IH	42	INSTRUMENT PANEL BRACE RH

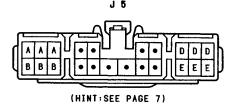
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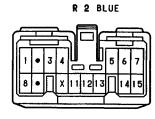
CODE	CODE SEE PAGE WIRE HARNESS WITH SPLICE P		CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I15	44	CONSOLE BOX WIRE			



















RADIO AND PLAYER (W/G 6 SPEAKER)

SERVICE HINTS

R 3(B) RADIO AND PLAYER

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

(B) 4-GROUND : ALWAYS APPROX. 12 VOLTS

(B) 7-GROUND : ALWAYS CONTINUITY

: PARTS LOCATION

CODE	SEE PAGE	CO	DE	SEE PAGE	CODE	SEE PAGE
F11	36 (W/G)	R 3	В	33	R14	36 (W/G)
F12	36 (W/G)	R 4	Α	33	R15	36 (W/G)
J 3	33	R	12	36 (W/G)		
J 5	36	R	13	36 (W/G)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

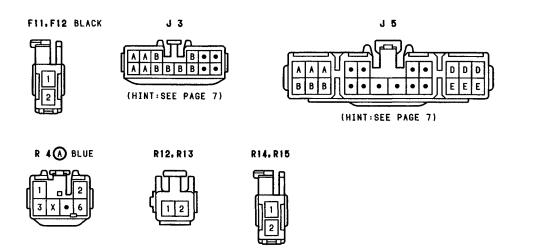
CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)		
1C				
1K	20 COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1L				
2G	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)		

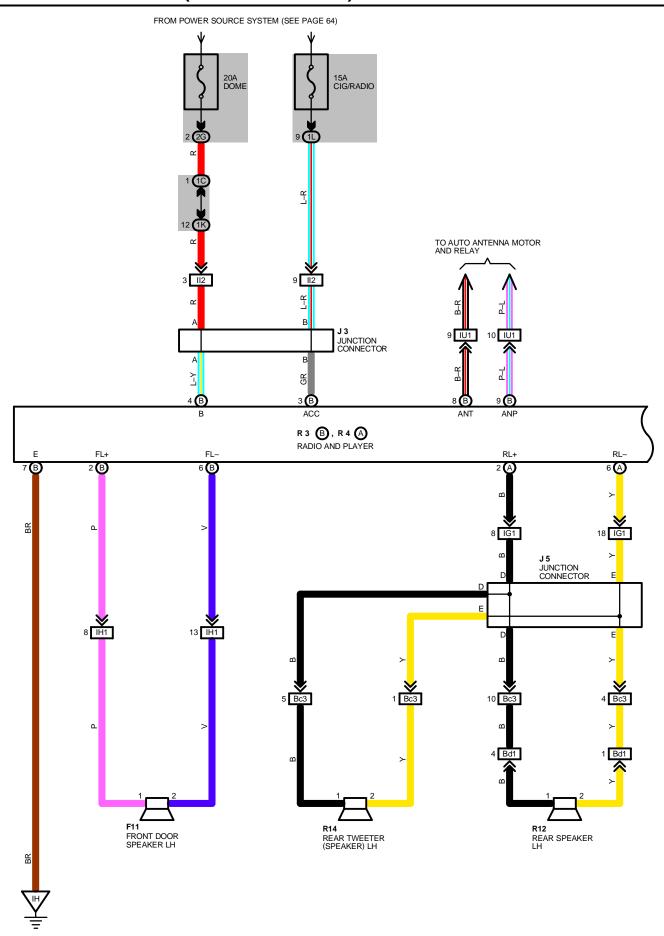
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

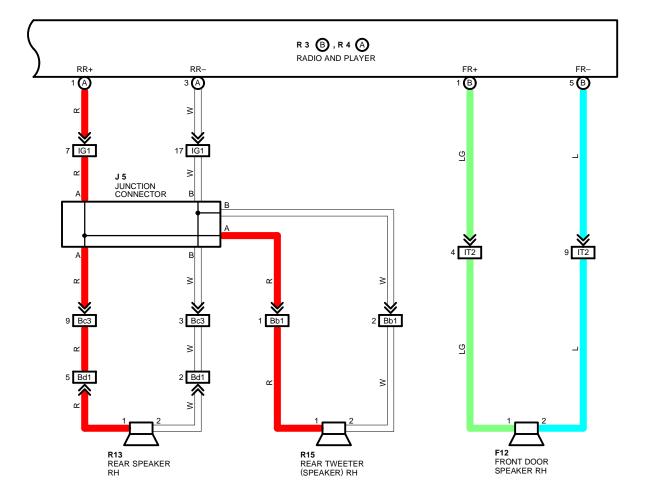
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IG1	42	FLOOR NO. 1 WIRE AND INSTRUMENT PANEL WIRE
IH1	42	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE
II2	42	INSTRUMENT PANEL WIRE AND COWL WIRE
IT2	44	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE
IU1	44	FLOOR NO. 2 WIRE AND INSTRUMENT PANEL WIRE
Bb1	50 (W/G)	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE
Bc3	50 (W/G)	BACK DOOR NO. 1 WIRE AND FLOOR NO. 1 WIRE
Bd1	50 (W/G)	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE

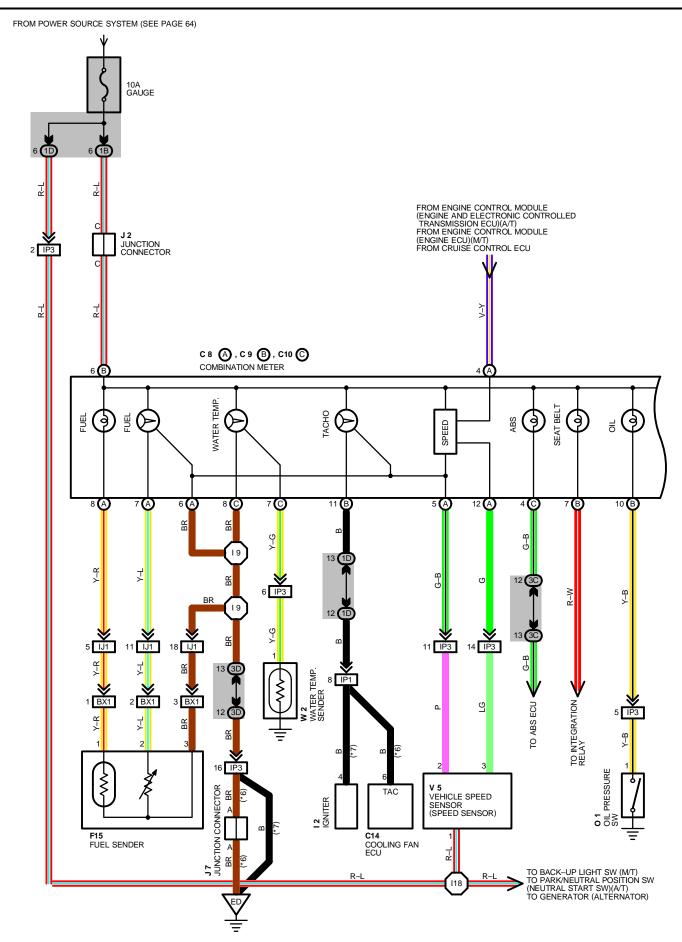
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IH	42	INSTRUMENT PANEL BRACE RH

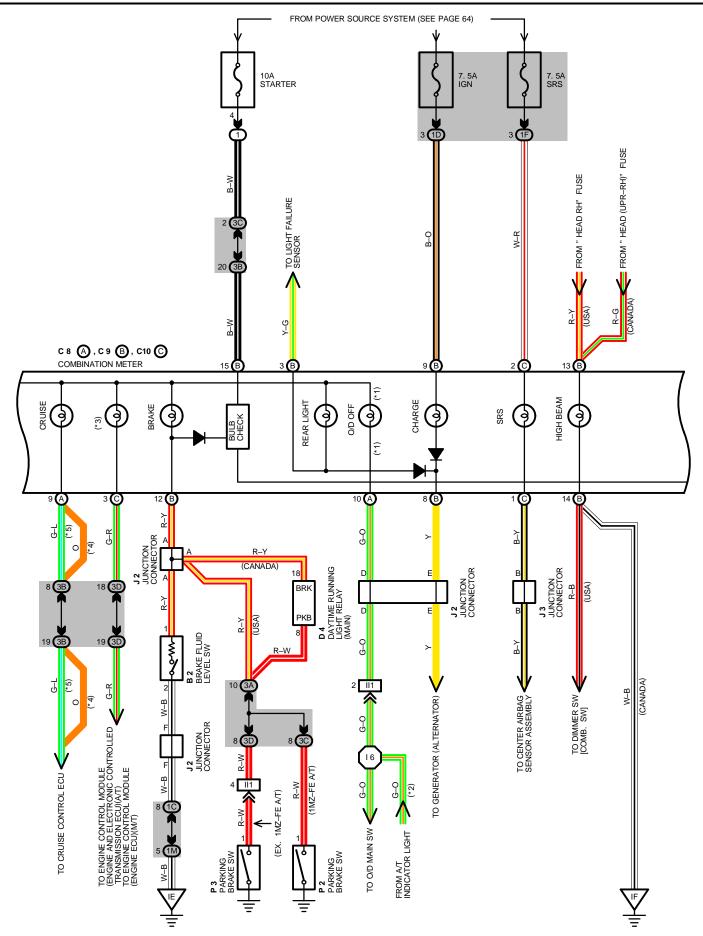


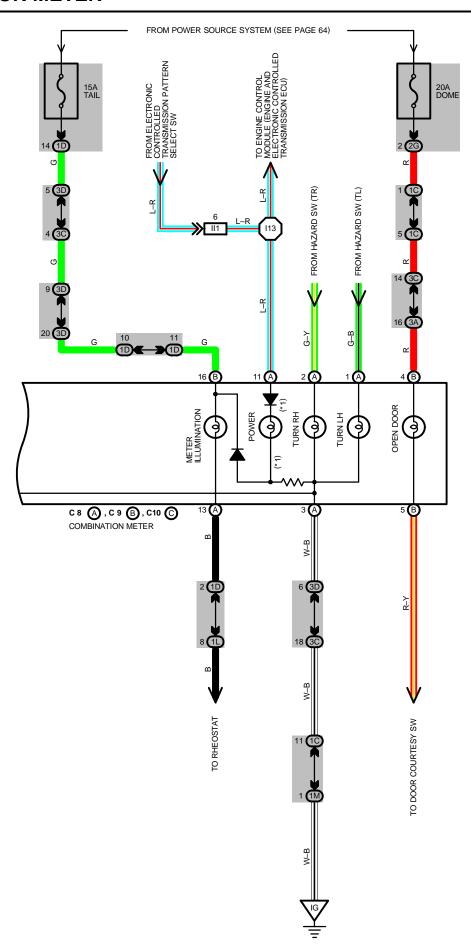






*4 : TMC MADE *5 : TMM MADE *6 : 1MZ-FE *7 : 5S-FE





B2 BRAKE FLUID LEVEL SW

1-2 : CLOSED WITH FLOAT DOWN

C 8(A), C 9(B), C10(C) COMBINATION METER

(A)2, (B)6, (B)9-GROUND : APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION

(A)3, (B)14, (C)8-GROUND : ALWAYS CONTINUITY

F15 FUEL SENDER

2–3 : APPROX. **3** WITH FUEL FULL APPROX. **110.0** WITH FUEL EMPTY

01 OIL PRESSURE SW

1-GROUND: CLOSED WITH OIL PRESSURE BELOW 0.2 KG/CM2 (2.84 PSI, 19.61 KPA)

P 2 PARKING BRAKE SW (1MZ-FE A/T)

1-GROUND: CLOSED WITH PARKING BRAKE PEDAL DEPRESSED

P 3 PARKING BRAKE SW (EX. 1MZ-FE A/T)

1-GROUND: CLOSED WITH PARKING BRAKE LEVER PULLED UP

: PARTS LOCATION

CC	DDE	SEE PAGE	SEE PAGE CODE		CODE	SEE PAGE	
B 2		28 (1MZ-FE), 30 (5S-FE)	D 4	32	P 2	33	
C 8	Α	32	F15	34 (S/D), 35 (C/P), 36 (W/G)	P 3	33	
C 9	В	32	12	28 (1MZ-FE), 30 (5S-FE)	V 5	28 (1MZ-FE), 30 (5S-FE)	
C10	С	32	J 2	33	W 2	28 (1MZ-FE), 30 (5S-FE)	
C	14	32	01	28 (1MZ-FE), 30 (5S-FE)			

: RELAY BLOCKS

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

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1B		
1C		
1D	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1F	20	COWE WIRE AND 3/B NO. 1 (INSTRUMENT PANEL LEFT)
1L		
1M		
2G	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)
3A		
3B	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)
3C	24	COME WHILE AND 3/D NO. 3 (DETHIND COMBINATION WETER)
3D		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

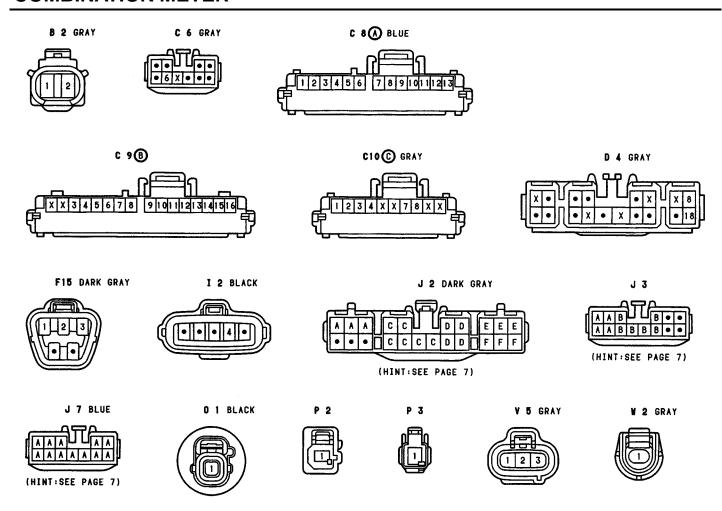
CODE	OFF DAGE	IOINING WIDE LIADNESS AND WIDE HADNESS (CONNECTOD LOCATION)			
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)			
II1	42	COWL WIRE AND INSTRUMENT PANEL WIRE			
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE			
IP1	44	ENGINE WIRE AND COWL WIRE			
IP3	44	ENGINE WIRE AND COWL WIRE			
	46 (S/D)				
BX1	48 (C/P)	FUEL GAUGE WIRE AND FLOOR NO. 1 WIRE			
	50 (W/G)				

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
ED	38 (1MZ-FE)	INTAKE MANIFOLD LH
ED	40 (5S-FE)	INTAKE MANIFOLD LIT
IE	40	LEFT KICK PANEL
IF	42	
IG	42	INSTRUMENT PANEL BRACE LH

CODE	CODE SEE PAGE WIRE HARNESS WITH SPLICE POINTS		CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
16	44	INSTRUMENT PANEL WIRE	l13	44	COWL WIRE
19	44	COWL WIRE	I18	44	ENGINE WIRE

COMBINATION METER



RADIATOR FAN AND CONDENSER FAN (5S-FE)

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
A 1	30	E 5	30 (5S-FE)		
A 2	30 (5S-FE)	R 1	30 (5S-FE)		

: 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)		
1A	1A 20 COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)		
2B	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)	
2E	22	ENGINE ROOM MAIN WIRE AND 3/B NO. 2 (ENGINE COMPARTMENT LEFT)	
3A	0.4	COMULATION AND UD NO 2 (DELINIO COMPINATION METER)	
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)	

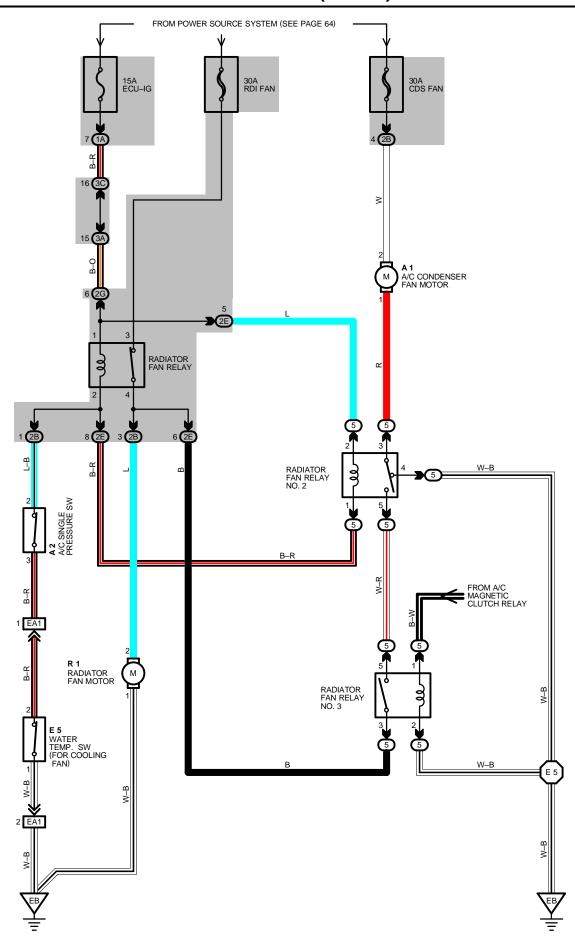
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EA1	40 (5S-FE)	ENGINE ROOM MAIN WIRE AND ENGINE ROOM NO. 3 WIRE

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EB	40 (5S-FE)	FRONT LEFT FENDER

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 5	40 (5S-FE)	ENGINE ROOM MAIN WIRE			



SYSTEM OUTLINE

FAN MOTOR OPERATION

WITH THE IGNITION SW IS TURNED ON, CURRENT FLOWS FROM **ECU-IG** FUSE TO RADIATOR FAN RELAY NO. 1 (COIL SIDE) AND RADIATOR FAN RELAY NO. 2 (COIL SIDE) \rightarrow **TERMINAL 2** OF THE A/C SINGLE PRESSURE SW \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 2** OF THE WATER TEMP. SW \rightarrow **TERMINAL 1** \rightarrow **GROUND**, AND RADIATOR FAN RELAY NO. 1 AND NO. 2 ARE TURNED ON.

* RADIATOR FAN MOTOR OPERATION

WHEN THE IGNITION SW IS TURNED ON, RADIATOR FAN RELAY NO. 1 IS TURNED ON. IF AT THIS TIME THE ENGINE COOLANT TEMPERATURE IS APPROX. 90°C (194°F) OR HIGHER, THE WATER TEMP. SW IS TURNED OFF, RADIATOR FAN RELAY NO. 1 IS TURNED OFF.

AS A RESULT, CURRENT FROM THE **RDI FAN** FUSE TO RADIATOR FAN RELAY NO. 1 (POINT SIDE) \rightarrow **TERMINAL 2** OF THE RADIATOR FAN MOTOR \rightarrow **TERMINAL 1** \rightarrow **GROUND**, THUS ACTIVATING THE ROTATION OF THE RADIATOR FAN MOTOR.

* LOW SPEED OPERATION

WHEN THE IGNITION SW IS TURNED ON AND THE A/C ACTIVATED, RADIATOR FAN RELAY NO. 1 AND RADIATOR FAN RELAY NO. 2 ARE TURNED ON, CURRENT FLOWS FROM A/C MAGNETIC CLUTCH RELAY (POINT SIDE) TO RADIATOR FAN RELAY NO. 3 (COIL SIDE) \rightarrow **GROUND**, AND RADIATOR FAN RELAY NO. 3 IS TURNED ON.

AS A RESULT, CURRENT FLOWS FROM **CDS FAN** FUSE TO **TERMINAL 2** OF THE A/C CONDENSER FAN MOTOR \rightarrow **TERMINAL 1** \rightarrow RADIAOTR FAN RELAY NO. 2 (POINT SIDE) \rightarrow RADIATOR FAN RELAY NO. 3 (POINT SIDE) \rightarrow **TERMINAL 2** OF THE RADIATOR FAN MOTOR \rightarrow **TERMINAL 1** \rightarrow **GROUND**, FLOWING TO EACH FAN MOTOR IN SERIES, CAUSING THE FAN TO AT LOW SPEED.

* HIGH SPEED OPERATION OF THE FAN MOTOR DUARING A/C OPERATION

WHEN THE A/C OPERATION, THE REFRIGERRANT PRESSURE BECOME HIGHER THAN OR DINARY LEVEL (APPROX. 15.58 KG/CM² (221.2 PSI, 1527 KPA)) THE A/C SINGLE PRESSURE SW IS TURNED OFF. AS A RESULT, RADIATOR FAN RELAY NO. 1 AND RADIATOR FAN RELAY NO. 2 ARE TURNED OFF, AND CURRENT FLOWS FROM RDI FUSE TO RADIATOR FAN RELAY NO. 1 (POINT SIDE) \rightarrow TERMINAL 2 OF THE RADIATOR FAN MOTOR \rightarrow TERMINAL 1 \rightarrow GROUND, AND CURRENT FLOWS FROM CDS FAN FUSE TO TERMINAL 2 OF THE A/C CONDENSER FAN MOTOR \rightarrow TERMINAL 1 \rightarrow RADIATOR FAN RELAY NO. 2 (POINT SIDE) \rightarrow GROUND, AND TO EACH FAN MOTOR IN PARALLEL, THUS CAUSING THE FAN MOTORS OPERATE HIGH SPEED.

NOTE THAT, BECAUSE THE CURRENT FLOWS IN THE SAME MENNER EVEN IF THE ENGINE COOLANT TEMPERATURE IS APPROX. 90°C (194°F) OR HIGHER, THE FAN MOTOR OPERATE AT HIGH SPEED.

SERVICE HINTS

A 2 A/C SINGLE PRESSURE SW

2–3: OPEN ABOVE APPROX. **15.58** KG/CM² (**221.2** PSI, **1527** KPA) CLOSE BELOW APPROX. **15.56** KG/CM² (**178.4** PSI, **1231** KPA)

A 1 BLACK

1 2

A 2 BLACK



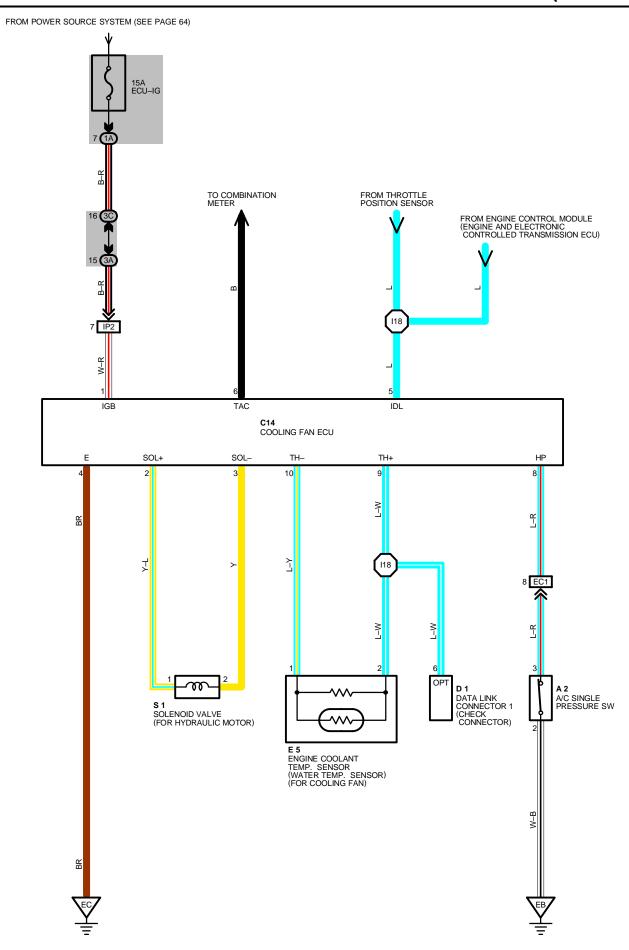
E 5



R 1 GRAY



ELECTRONICALLY CONTROLLED HYDRAULIC COOLING FAN (1MZ-FE)



SYSTEM OUTLINE

THE COOLING FAN ECU RECEIVES VARIOUS SIGNAL, I.E., THE ENGINE RPM SIGNAL FROM THE IGNITER, COOLANT TEMPERATURE SIGNAL FROM THE ENGINE COOLANT TEMP. SENSOR (WATER TEMP. SENSOR), A/C REFRIGERANT PRESSURE SIGNAL FROM A/C SINGLE PRESSURE SW.

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

FAIL-SAFE FUNCTION

WHEN THE MALFANCTION IS DETECTED BY THE ENGINE COOLANT TEMP. SENSOR (WATER TEMP. SENSOR) OR SOLENOID VALVE, THE FAIL-SAFE FUNCTION OF THE COOLING FAN ECU JUDGES THE SITUATION TO ALLOWS THE COOLING SYSTEM TO CONTINUE OPERATION.

SERVICE HINTS

A 2 A/C SINGLE PRESSURE SW

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

C14 COOLING FAN ECU

1-GROUND: APPROX. 12 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 (CLOSE)

4-GROUND: ALWAYS CONTINUITY

E 5 ENGINE COOLANT TEMP. SENSOR (WATER TEMP. SENSOR) (FOR COOLING FAN)

1-2: 1.5K 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
C14	32	E 5	30		

: 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	COMI MURE AND UR NO 2 (RELINID COMPINATION METER)				
3C	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)
EC1	38 (1MZ-FE)	ENGINE WIRE AND ENGINE ROOM MAIN WIRE
IP2	44	ENGINE WIRE AND COWL WIRE

: GROUND POINTS

•		
CODE	SEE PAGE	GROUND POINTS LOCATION
EB	38 (1MZ-FE)	FRONT LEFT FENDER
EC	38 (1MZ-FE)	INTAKE MANIFOLD RH

: SPLICE POINTS

CODE SEE PAGE		WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I18	44	ENGINE WIRE			

A 2 BLACK

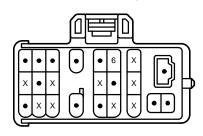
C14 GRAY

D 1 BLACK

E 5 BROWN



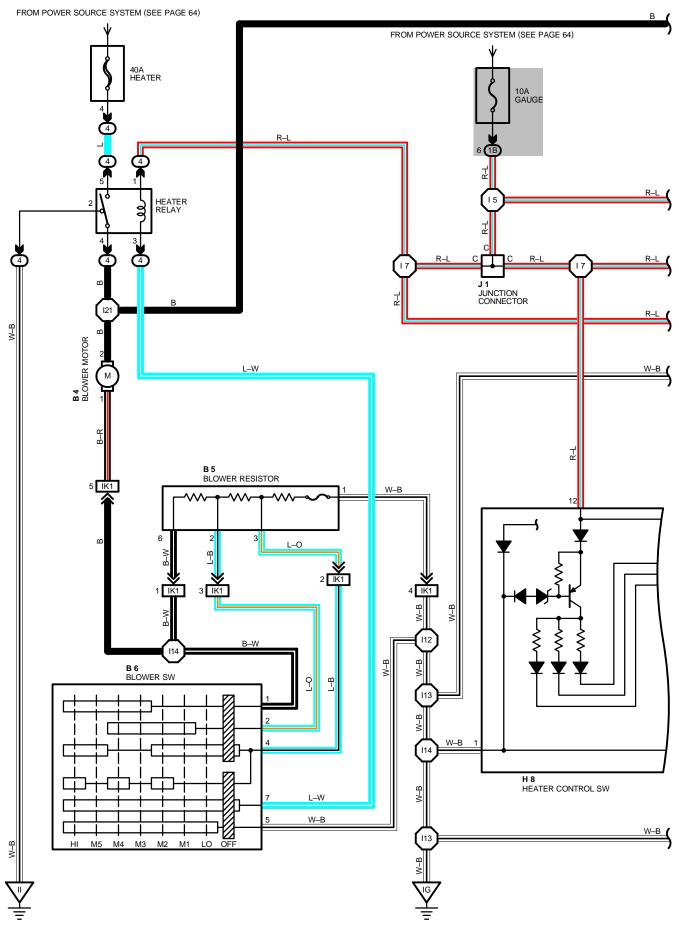


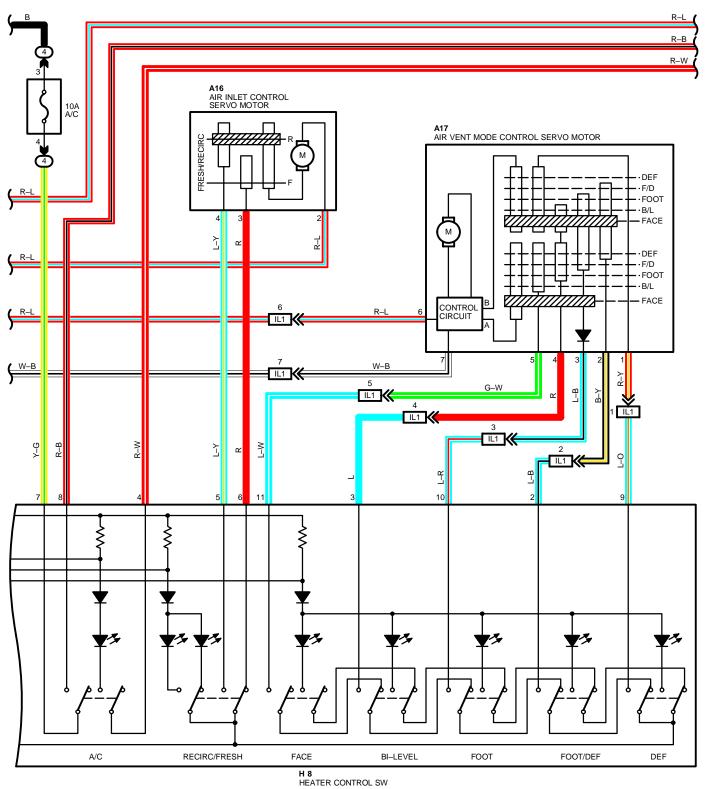




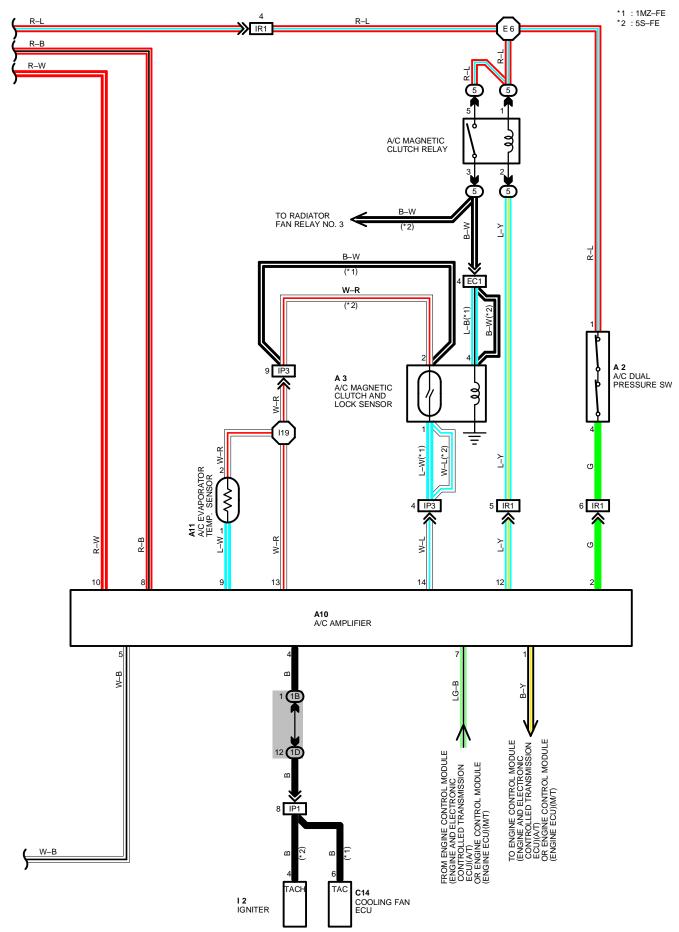


AIR CONDITIONING (PUSH CONTROL SW TYPE)





AIR CONDITIONING (PUSH CONTROL SW TYPE)



SYSTEM OUTLINE

1. AIR INLET CONTROL SERVO MOTOR OPERATION (FOR PUSH SW TYPE)

(SWITCHING FROM FRESH TO RECIRC)

WITH THE IGNITION SW ON, CURRENT FROM THE **GAUGE** FUSE FLOWS TO **TERMINAL 1** OF THE SERVO MOTOR. WHEN THE RECIRC SW IS TURNED ON, THE CURRENT FLOWS FROM SERVO MOTOR \rightarrow **TERMINAL 3** \rightarrow **TERMINAL 5** OF THE HEATER CONTROL SW \rightarrow **TERMINAL 1** \rightarrow **GROUND**, THE MOTOR ROTATES AND THE DAMPER MOVES TO THE RECIRC SIDE. WHEN IT IS IN THE RECIRC POSITION, THE CIRCUIT IS CUT INSIDE THE SERVO MOTOR AND THE DAMPER STOPS IN THAT POSITION.

WHEN THE CIRCUIT FOR THE INDICATOR LIGHT, CURRENT FLOWS FROM THE **GAUGE** FUSE \rightarrow **TERMINAL 12** OF THE HEATER CONTROL SW \rightarrow INDICATOR LIGHT \rightarrow **TERMINAL 1** \rightarrow GROUND AND THE INDICATOR LIGHT CONTINUES TO LIGHT UP WHILE THE RECIRC SW IS ON.

(SWITCHING FROM RECIRC TO FRESH)

WHEN THE IGNITION IS ON AND THE FRESH SW IS TURNED ON, CURRENT FLOWS FROM **TERMINAL 2** OF THE SERVO MOTOR \rightarrow **TERMINAL 6** OF THE HEATER CONTROL SW \rightarrow **TERMINAL 1** \rightarrow **GROUND**, THE MOTOR ROTATES AND THE DAMPER MOVES TO THE FRESH SIDE. WHEN THE DAMPER IS IN THE FRESH POSITION, THE CIRCUIT IS CUT INSIDE THE SERVO MOTOR AND THE DAMPER STOPS IN THAT POSITION.

2. OPERATION OF AIR VENT MODE CONTROL SERVO MOTOR

WHEN THE IGNITION SW ON, CURRENT FLOWS FROM THE GAUGE FUSE TO TERMINAL 12 OF THE HEATER CONTROL SW, TERMINAL 6 OF THE AIR VENT MODE CONTROL SERVO MOTOR.

WHEN THE DAMPER IS IN FACE POSITION AND THE BI-LEVEL OF THE HEATER CONTROL SW IS THEN TURNED ON, CURRENT FLOWS FROM **TERMINAL 3** OF THE HEATER CONTROL SW \rightarrow **TERMINAL 4** OF THE AIR VENT MODE CONTROL SERVO MOTOR SO THAT A SINGAL THAT THE GROUND CIRCUIT IS ACTIVATED IS INPUT TO **TERMINAL "B"** OF THE CONTROL CIRCUIT INSIDE THE AIR VENT MODE CONTROL SERVO MOTOR.

SIMULTANEOUSLY, A SIGNAL THAT THE GROUND CIRCUIT IS NOT ACTIVATED IS INPUT TO **TERMINAL** "A" OF THE CONTROL CIRCUIT INSIDE THE SERVO MOTOR. THESE TWO SIGNALS ACTIVATE THE CONTROL CIRCUIT SO THAT CURRENT FROM THE **GAUGE** FUSE TO THE SERVO MOTOR, CAUSING THE SERVO MOTOR TO OPERATE AND THE DAMPER TO MOVE TO BI-LEVEL POSITION. WHEN THE DAMPER REACHES BI-LEVEL POSITION, A GROUND CUT SIGNAL IS INPUT TO **TERMINAL** "B" OF THE CONTROL CIRCUIT, THE CONTROL CIRCUIT OPERATES, THE SERVO MOTOR STOPS ROTATING AND THE DAMPER STOPS AT BI-LEVEL.

WHEN ANOTHER MODE POSITION IS SWITCHED TO, INPUT OF SIGNALS TO **TERMINAL "A"** AND **TERMINAL "B"** OF THE CONTROL CIRCUIT THAT GROUND IS MADE OR GROUND IS NOT MADE (AS EXPLAINED ABOVE) ACTIAVTES THE CONTROL CIRCUIT AND MOVES THE SERVO MOTOR TO THE DESIRED POSITION.

3. AIR CONDITIONING OPERATION

WHEN THE IGNITION SW ON, CURRENT FLOWS FROM **GAUGE** FUSE TO **TERMINAL 12** OF THE HEATER CONTROL SW, **TERMINAL 6** OF THE AIR VENT MODE CONTROL SERVO MOTOR.

WHEN THE BLOWER SW IS ON, CURRENT FLOWS FROM THE **GAUGE** FUSE \rightarrow HEATER RELAY (COIL SIDE) \rightarrow **TERMINAL 7** OF THE BLOWER SW \rightarrow **TERMINAL 5** \rightarrow **GROUND**, ACTIVATING THE HEATER RELAY. THIS CAUSES CURRENT TO FLOW FROM THE **HEATER** FUSE TO THE HEATER RELAY (POINT SIDE) \rightarrow **A/C** FUSE \rightarrow **TERMINAL 7** OF THE HEATER CONTROL SW (A/C SW). IF THE HEATER CONTROL (A/C SW) IS THEN TURNED ON AT THIS TIME, A SIGNAL IS INPUT TO THE A/C AMPLIFIRE. THIS ACTIVATES THE A/C AMPLIFIER AND A/C MAGNETIC CLUTCH RELAY SO THAT CURRENT FLOWS FROM THE **GAUGE** FUSE TO THE A/C MAGNETIC CLUTCH RELAY (POINT SIDE) \rightarrow A/C MAGNETIC CLUTCH, CAUSING THE COMPRESSOR TO OPERATE. THE VSV (FOR A/C IDLE-UP) IS TURNED ON SIMULTANEOUSLY TO PREVENT A DECREASE IN ENGINE SPEED DUE TO A/C OPERATION.

SERVICE HINTS -

HEATER RELAY

(4)5-(4)4: CLOSED WITH THE IGNITION SW ON AND BLOWER SW ON

A/C MAGNETIC CLUTCH RELAY

(4)5-(4)3: CLOSED WITH THE IGNITION SW ON AND BLOWER SW ON AND A/C SW ON

A 2 A/C DUAL PRESSURE SW

1-4: OPEN WITH PRESSURE 2.1 KG/CM (30 PSI, 206 KPA) OR ABOVE 27 KG/CM (384 PSI, 2646 KPA)

B 5 BLOWER RESISTOR

6–2 : APPROX. **1.12** Ω 2–3 : APPROX. **0.5** Ω 3–1 : APPROX. **0.2** Ω

AIR CONDITIONING (PUSH CONTROL SW TYPE)

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
A 2	28 (1MZ-FE), 30 (5S-FE)	A17	32	H 8	33
A 3	28 (1MZ-FE), 30 (5S-FE)	B 4	32	12	30 (5S-FE)
A10	32	B 5	32	J 1	33
A11	32	В6	32		
A16	32	C14	32		

: 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	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)
1D	20	COWL WIRE AND J/B NO. I (INSTRUMENT FANEL LEFT)

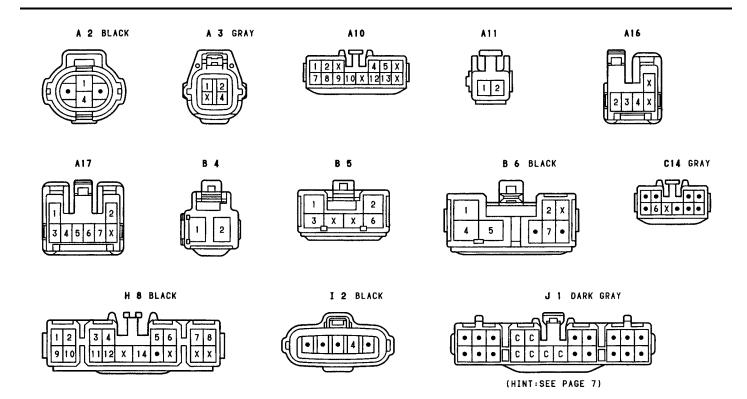
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)	
EC1	38 (1MZ-FE)	ENGINE WIRE AND ENGINE ROOM MAIN WIRE	
ECI	40 (5S-FE)		
IK1	42	COWL WIRE AND A/C SUB WIRE	
IL1	42 COWL WIRE AND SERVO MOTOR SUB WIRE		
IP1	44	ENGINE WIRE AND COWL WIRE	
IP3	44	ENGINE WIRE AND COWL WIRE	
IR1	44	ENGINE ROOM MAIN WIRE AND COWL WIRE	

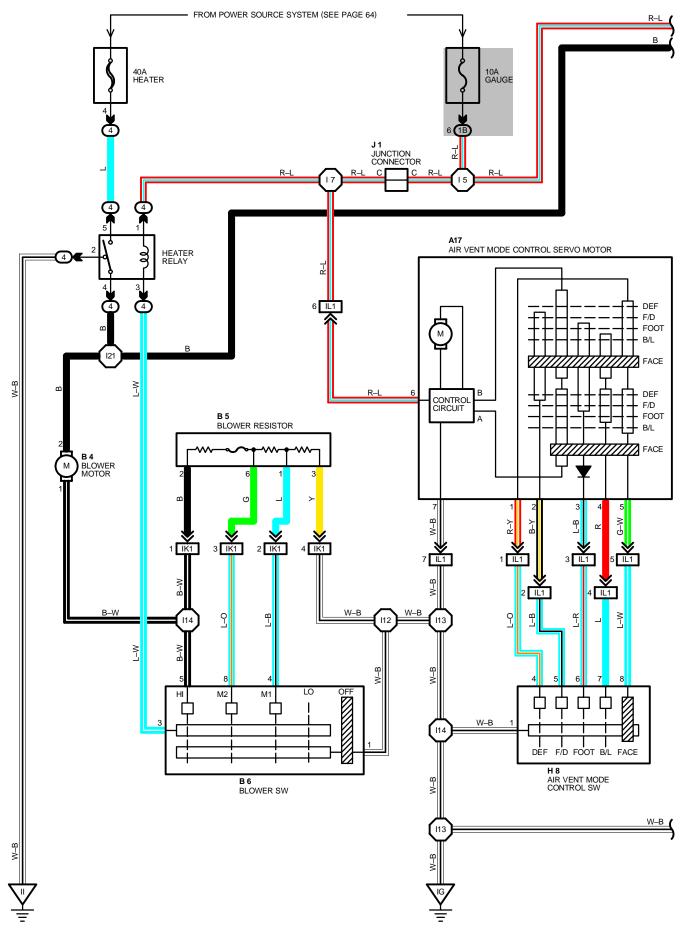
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IG	42	INSTRUMENT PANEL BRACE LH
II	42	RIGHT KICK PANEL

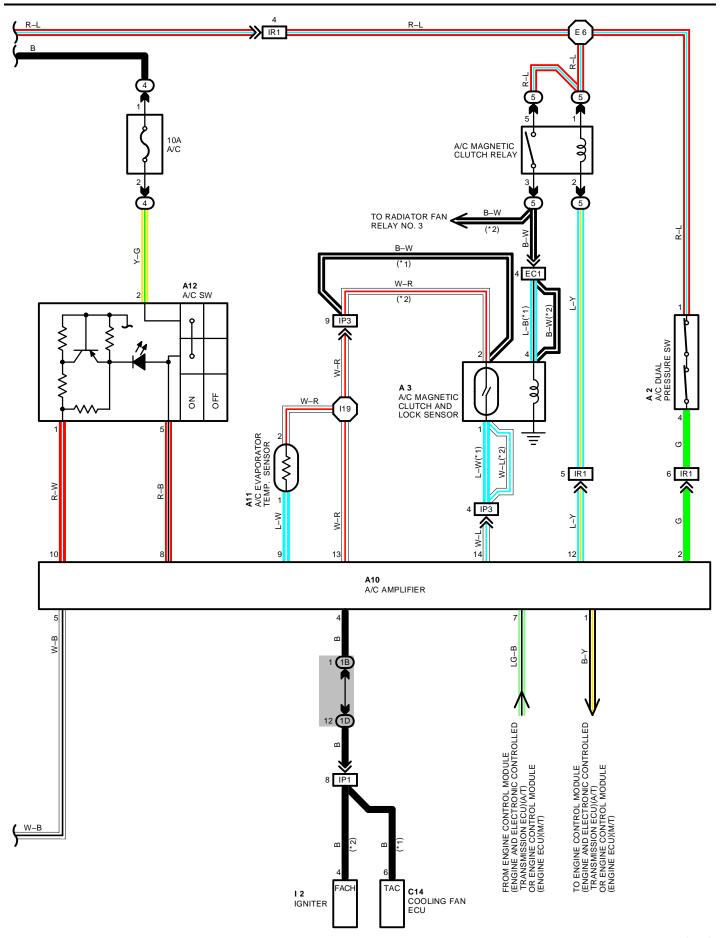
(CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 6	E 6	38 (1MZ-FE)	ENGINE ROOM MAIN WIRE	l12	- 44	COWL WIRE
	E 0	40 (5S-FE)		I13		
	15	44	COWL WIRE	l14		
	17			I19		



AIR CONDITIONING (LEVER CONTROL SW TYPE)



252



AIR CONDITIONING (LEVER CONTROL SW TYPE)

SYSTEM OUTLINE

CURRENT ALWAYS FLOWS FROM THE **HEATER** FUSE TO **TERMINAL 5** OF THE HEATER RELAY. WHEN THE IGNITION SW IS TURNED ON, CURRENT FLOWS FROM **GAUGE** FUSE TO **TERMINAL 2** OF THE AIR VENT MODE CONTROL SERVO MOTOR AND A/C MAGNETIC CLUTCH RELAY (COIL SIDE) \rightarrow **TERMINAL 12** OF THE A/C AMPLIFIER, **TERMINAL 1** OF THE A/C DUAL PRESSURE SW \rightarrow **TERMINAL 4** \rightarrow **TERMINAL 2** OF THE A/C AMPLIFIER, HEATER RELAY (COIL SIDE) \rightarrow **TERMINAL 3** OF THE BLOWER SW.

1. OPERATION OF AIR VENT MODE CONTROL SERVO MOTOR

WHEN THE DAMPER IS IN **FACE** POSITION AND THE BI-LEVEL OF THE AIR VENT MODE CONTROL SW IS THEN TURNED ON, CURRENT FLOWS FROM **TERMINAL 7** OF THE AIR VENT MODE CONTROL SERVO MOTOR SO THAT A SIGNAL THAT THE GROUND CIRCUIT IS ACTIVATED IS INPUT TO **TERMINAL "B"** OF THE CONTROL CIRCUIT INSIDE THE AIR VENT MODE CONTROL SERVO MOTOR. SIMULTANEOUSLY, A SIGNAL THAT THE GROUND CIRCUIT IS NOT ACTIVATED IS INPUT TO **TERMINAL "A"** OF THE CONTROL CIRCUIT INSIDE THE SERVO MOTOR. THESE TWO SIGNALS ACTIVATE THE CONTROL CIRCUIT SO THAT CURRENT FROM THE **GAUGE** FUSE TO THE SERVO MOTOR, CAUSING THE SERVO MOTOR TO OPERATE AND THE DAMPER TO MOVE TO BI-LEVEL POSITION. WHEN THE DAMPER REACHES BI-LEVEL POSITION. A GROUND CUT SIGNAL IS INPUT TO **TERMINAL "B"** OF THE CONTROL CIRCUIT, THE CONTROL CIRCUIT OPERATES, THE SERVO MOTOR STOPS ROTATING AND THE DAMPER STOPS AT BI-LEVEL.

WHEN ANOTHER MODE POSITION IS SWITCHED TO, INPUT OF SIGNALS TO **TERMINAL "A"** AND **TERMINAL "B"** OF THE CONTROL CIRCUIT THAT GROUND IS NOT MADE (AS EXPLAINED ABOVE) ACTIVATES THE CONTROL CIRCUIT AND MOVES THE SERVO MOTOR TO THE DESIRED POSITION.

2. AIR CONDITIONING OPERATION

WHEN THE BLOWER SW IS ON, CURRENT FLOWS THE **GAUGE** FUSE \rightarrow HEATER RELAY (COIL SIDE) \rightarrow **TERMINAL 3** OF THE BLOWER SW \rightarrow **TERMINAL 1** \rightarrow **GROUND**, ACTIVATING THE HEATER RELAY. THIS CAUSES CURRENT TO FLOW FROM THE **HEATER** FUSE TO THE HEATER RELAY (POINT SIDE) \rightarrow **A/C** FUSE \rightarrow **TERMINAL 2** OF THE A/C SW. IF THE A/C SW IS THEN TURNED ON AT THIS TIME. A SIGNAL IS INPUT TO THE A/C AMPLIFIER. THIS ACTIVATES THE A/C AMPLIFER AND A/C MAGNETIC CLUTCH RELAY SO THAT CURRENT FLOWS FROM THE **GAUGE** FUSE TO THE A/C MAGNETIC CLUTCH RELAY (POINT SIDE) \rightarrow A/C MAGNETIC CLUTCH. CAUSING THE COMPRESSOR TO OPERATE. THE VSV (FOR A/C IDLE-UP) IS TURNED ON SIMULTANEOUSLY TO PREVENT A DECREASE IN ENGINE SPEED DUE TO A/C OPERATION.

SERVICE HINTS —

HEATER RELAY

(4)5-(4)4: CLOSED WITH THE IGNITION SW ON AND BLOWER SW ON

A/C MAGNETIC CLUTCH RELAY

(5)5-(5)3: CLOSED WITH THE IGNITION SW ON AND BLOWER SW ON AND A/C SW ON

A 2 A/C DUAL PRESSURE SW

1-4: OPEN WITH PRESSURE 2.1 KG/CM (30 PSI, 206 KPA) OR ABOVE 27 KG/CM (384 PSI, 2646 KPA)

B 5 BLOWER RESISTOR6–1: APPROX. **3.17** Ω
6–3: APPROX. **1.38** Ω
2–6: APPROX. **0.38** Ω

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
A 2	28 (1MZ-FE), 30 (5S-FE)	A17	32	H 8	33
A 3	28 (1MZ-FE), 30 (5S-FE)	B 4	32	12	30 (5S-FE)
A10	32	B 5	32	J 1	33
A11	32	B 6	32		
A12	32	C14	32		

: RELAY BLOCKS

CODE	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

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

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

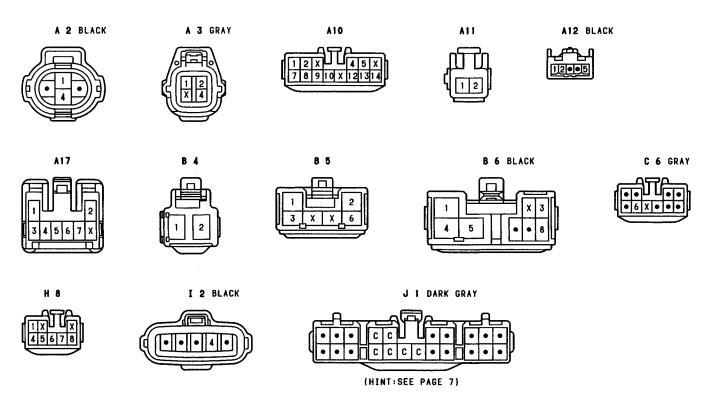
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)			
EC1	38 (1MZ-FE)	ENGINE WIRE AND ENGINE ROOM MAIN WIRE			
ECI	40 (5S-FE)				
IK1	42	COWL WIRE AND A/C SUB WIRE			
IL1	42	COWL WIRE AND SERVO MOTOR SUB WIRE			
IP1	44	ENGINE WIRE AND COWL WIRE			
IP3 44 ENGINE WIRE AND COWL WIRE		ENGINE WIRE AND COWL WIRE			
IR1	44	ENGINE ROOM MAIN WIRE AND COWL WIRE			

: GROUND POINTS

	CODE	SEE PAGE	GROUND POINTS LOCATION
	IG	42	INSTRUMENT PANEL BRACE LH
Ī	II	42	RIGHT KICK PANEL

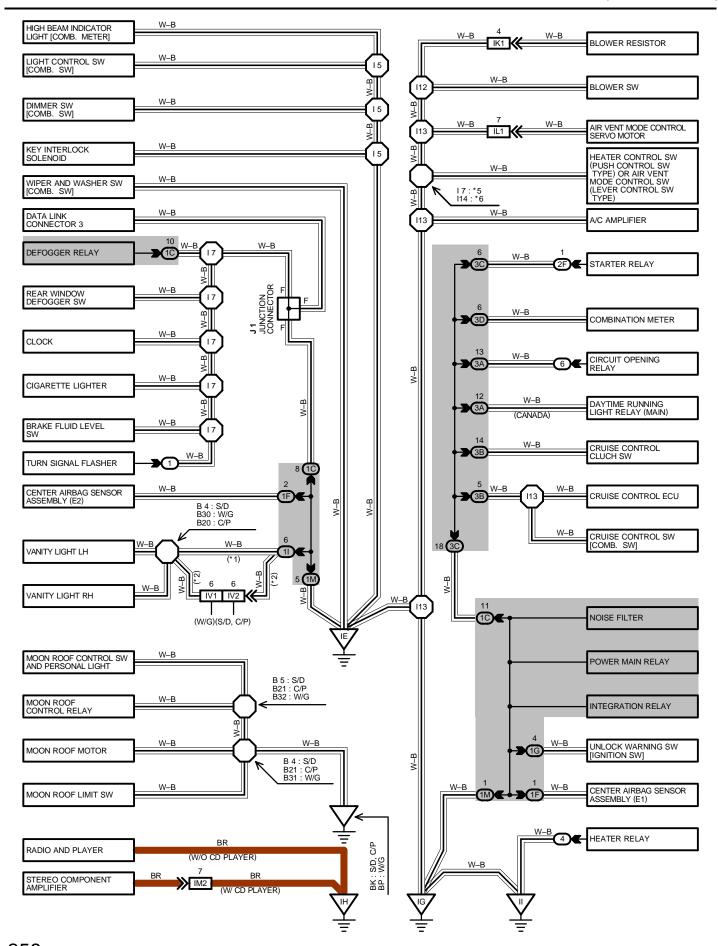
: SPLICE POINTS

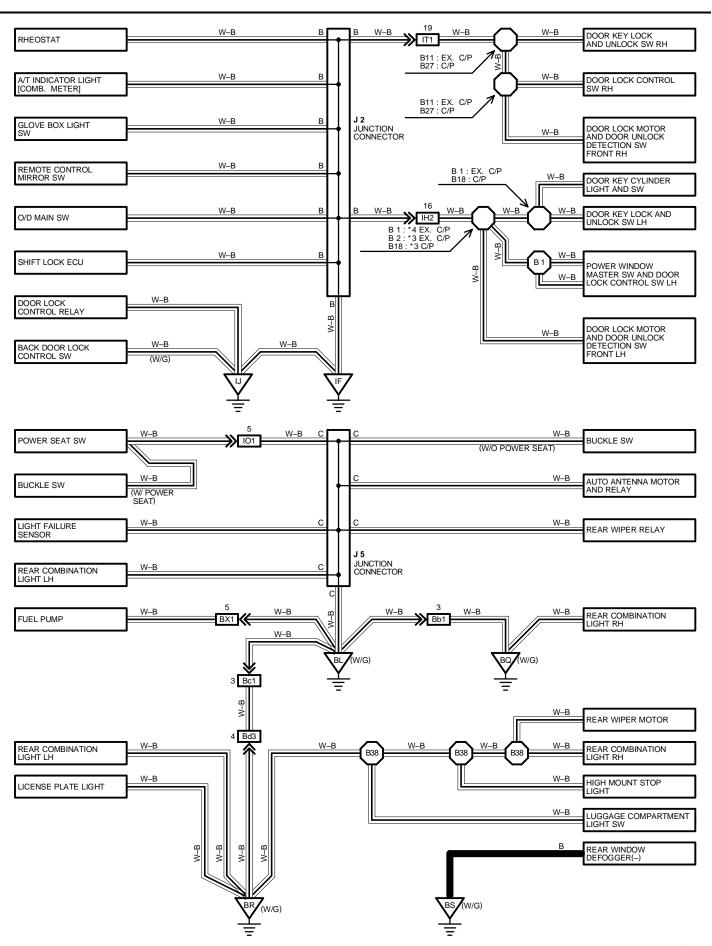
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 6	38 (1MZ-FE)	ENGINE ROOM MAIN WIRE	I13	44	COWL WIRE
_ E 0	40 (5S-FE)	ENGINE ROOM MAIN WIRE	l14		
15	44	COMI MIDE	l19		
17	44	COWL WIRE			



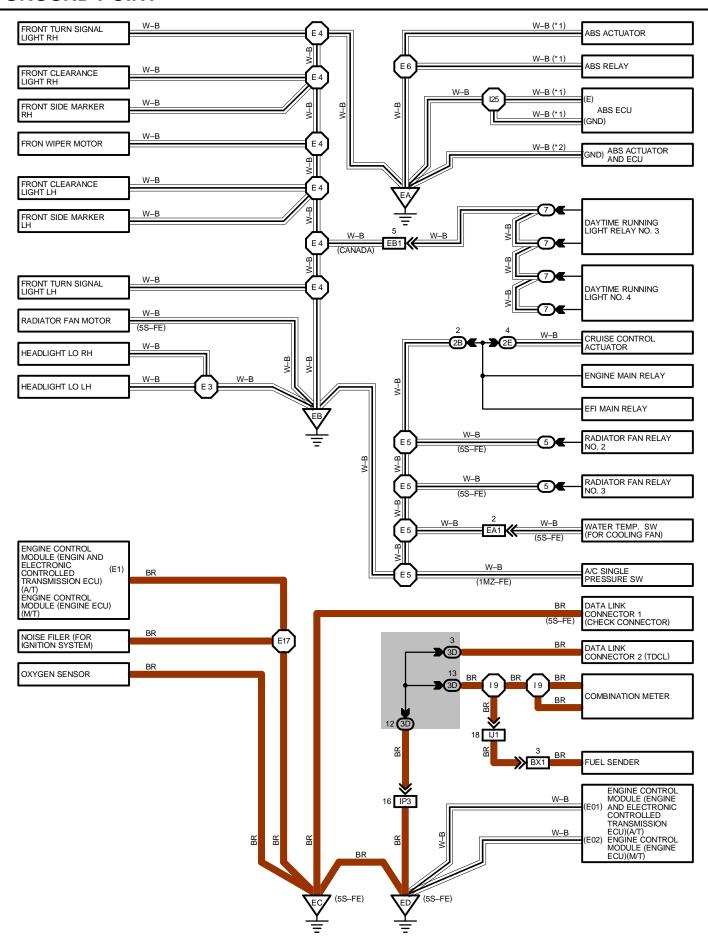
GROUND POINT

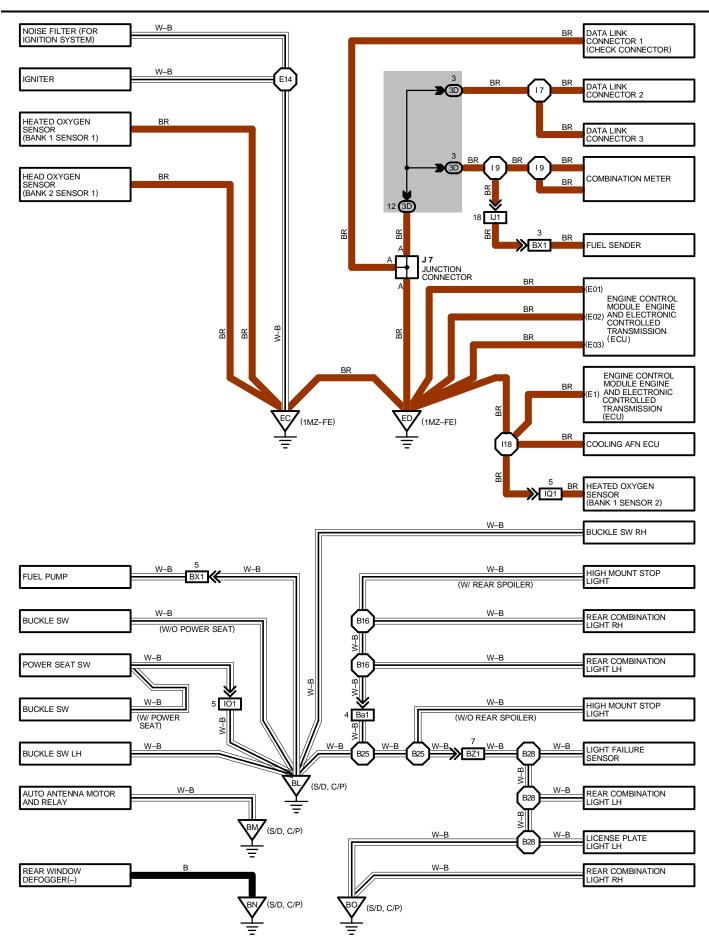
- *1 : TMC MADE *2 : TMM MADE
- *3 : W/ POWER WINDOW
- *4 : W/O POWER WINDOW *5 : AIR CONDITIONING (PUSH CONTROL SW TYPE)
- *6 : AIR CONDITIONING (LEVER CONTROL SW TYPE)





GROUND POINT





: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
J 1	33	J 5	36 (W/G)		
J 2	33	J7	33		

: 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)			
1C					
1F	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
1G					
11	20 (*1)	ROOF WIRE AND J/B NO. 1 (INSTRUMENT PANEL) TMC MADE			
11	20 (*2)	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL) TMM MADE			
1M	20	COWL WIRE AND J/B NO. 1 (INSTRUMENT PANEL LEFT)			
2B	22	ENGINE ROOM MAIN WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)			
2E	22				
2F	22	COWL WIRE AND J/B NO. 2 (ENGINE COMPARTMENT LEFT)			
3A					
3B	24	COM/ MIDE AND 1/D NO 2 (PELIND COMBINATION METER)			
3C	24	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)			
3D					

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

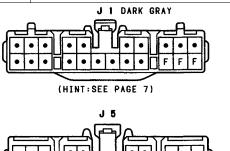
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)			
EA1	38 (1MZ-FE)	ENGINE ROOM MAIN WIRE AND ENGINE ROOM NO. 3 WIRE			
EB1	38 (1MZ-FE)	ENGINE ROOM MAIN WIRE AND RELAY WIRE			
EDI	40 (5S-FE)	ENGINE ROOM MAIN WIRE AND RELAT WIRE			
IH2	42	FRONT DOOR LH WIRE AND INSTRUMENT PANEL WIRE			
IJ1	42	FLOOR NO. 1 WIRE AND COWL WIRE			
IK1	42	COWL WIRE AND A/C SUB WIRE			
IL1	42	COWL WIRE AND SERVO MOTOR SUB WIRE			
IM2	42	INSTRUMENT PANEL WIRE AND CONSOLE BOX WIRE			
IO1	42	FLOOR NO. 1 WIRE AND SEAT WIRE			
IP3	44	ENGINE WIRE AND COWL WIRE			
IQ1	44	ENGINE WIRE AND INSTRUMENT PANEL WIRE			
IT1	44	FRONT DOOR RH WIRE AND INSTRUMENT PANEL WIRE			
IV1	44	ROOF WIRE AND COWL WIRE			
IV2	44	ROOF WIRE AND COWL WIRE MADE IN USA			
	46 (S/D)	FUEL GAUGE WIRE AND FLOOR NO. 1 WIRE			
BX1	48 (C/P)				
	50 (W/G)				
BZ1	46 (S/D)	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE			
BZ1	48 (C/P)	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE			
Ba1	46 (S/D)	FLOOR NO. 1 WIRE AND LUGGAGE ROOM NO. 2 WIRE			
Ват	48 (C/P)	FLOOR NO. 1 WIRE AND LUGGAGE ROOM NO. 2 WIRE			
Bb1	50 (W/G)	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE			
Bc1	50 (W/G)	BACK DOOR NO. 1 WIRE AND FLOOR NO. 1 WIRE			
Bd3	50 (W/G)	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE			

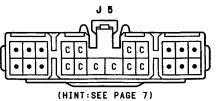
: GROUND POINTS

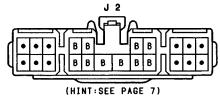
CODE	SEE PAGE	GROUND POINTS LOCATION				
EA	38 (1MZ-FE)	FRONT RIGHT FENDER				
EA	40 (5S-FE)	FRONT RIGHT FENDER				
EB	38 (1MZ-FE)	FRONT LEFT FENDER				
EB	40 (5S-FE)	FRONT LEFT FENDER				
EC	38 (1MZ-FE)	INTAKE MANIFOLD RH				
EC	40 (5S-FE)	INTAKE MANIFOLD RE				
ED	38 (1MZ-FE)	INTAKE MANIFOLD LH				
ED	40 (5S-FE)	HANE MANIFULU LIT				
IE	42	LEFT KICK PANEL				
IF	42	LEFT NOR PANEL				
IG	42	INSTRUMENT PANEL BRACE LH				
IH	42	INSTRUMENT PANEL BRACE RH				
II	42	RIGHT KICK PANEL				
IJ	42	RIGHT RICK PANEL				
вк	46 (S/D)	ROOF LEFT				
Dr.	48 (C/P)	AOOI LLI I				
	46 (S/D)					
BL	48 (C/P)	UNDER THE LEFT QUARTER PILLAR				
	50 (W/G)					
ВМ	46 (S/D)					
DIVI	48 (C/P)					
BN	46 (S/D)	UNDER THE RIGHT QUARTER PILLAR				
DIA	48 (C/P)	UNDER THE RIGHT QUARTER FILLAR				
во	46 (S/D)	LEFT QUARTER PILLAR				
ВО	48 (C/P)	LLI I QUAINTEN FILLAN				
BP	50 (W/G)	BACK PANEL CENTER				
BQ	50 (W/G)	LOWER BACK PANEL CENTER				
BR	50 (W/G)	BACK DOOR CENTER				
BS	50 (W/G)	BACK DOOR RIGHT				

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
E 3	38 (1MZ-FE)		B 2	46 (S/D)	FRONT DOOR LH WIRE
E 3	40 (5S-FE)		B 2	50 (W/G)	FRONT DOOR LIN WIRE
E 4	38 (1MZ-FE)		B 4	40 (0/D)	POOF WIPE
E 4	40 (5S-FE)	ENICINE DOOM MAIN WIDE	B 5	46 (S/D)	ROOF WIRE
E 5	38 (1MZ-FE)	ENGINE ROOM MAIN WIRE	D44	46 (S/D)	EDON'T DOOD DILIMIDE
E 5	40 (5S-FE)		B11	50 (W/G)	FRONT DOOR RH WIRE
E 6	38 (1MZ-FE)		B16	46 (S/D)	LUGGAGE ROOM NO. 2 WIRE
E 6	40 (5S-FE)		B18	48 (C/P)	FRONT DOOR LH WIRE
E14	38 (1MZ-FE)	ENONE WIDE	B21	48 (C/P)	ROOF WIRE
E17	40 (5S-FE)	ENGINE WIRE	B25	40 (O(D)	FLOOD NO. 4 WIDE
15			B26	48 (C/P)	FLOOR NO. 1 WIRE
17			B27	48 (C/P)	FRONT DOOR RH WIRE
19	44	COWL WIRE	B28	48 (C/P)	LUGGAGE ROOM NO. 1 WIRE
I13			B30	50 (W/G)	ROOF WIRE
l14	_		B31		
I18	44	ENGINE WIRE	B32		
B 1	46 (S/D)	FRONT DOOR LH WIRE	B38	50 (W/G)	BACK DOOR NO. 2 WIRE
B 1	50 (W/G)	FRONT DOOR LE WIRE			

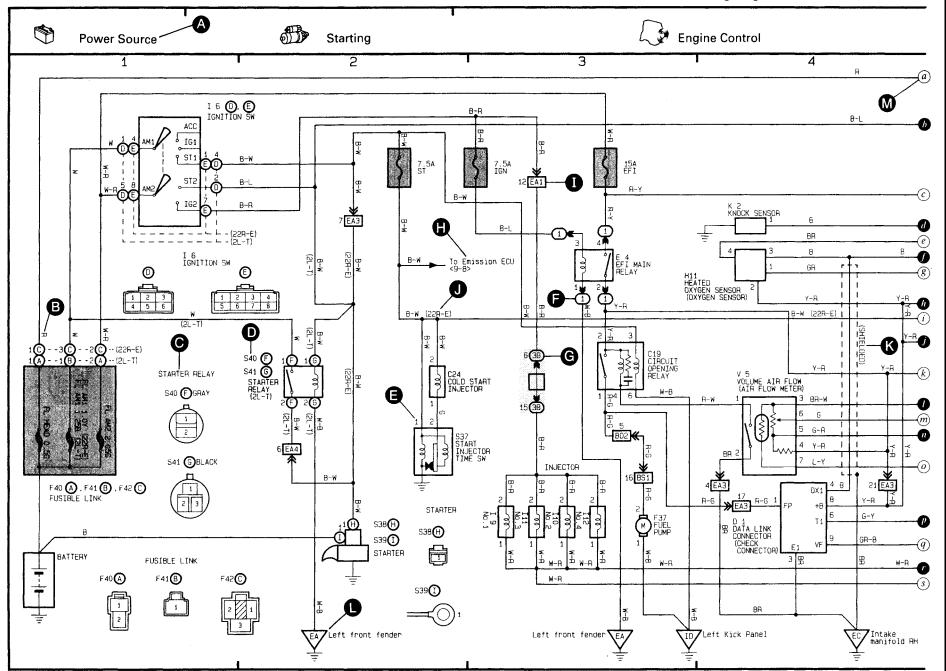








* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the wiring diagram section.

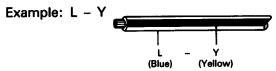


- A: System Title
- B: Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B = Black 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.).

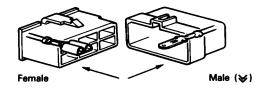
Example:



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

- (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.

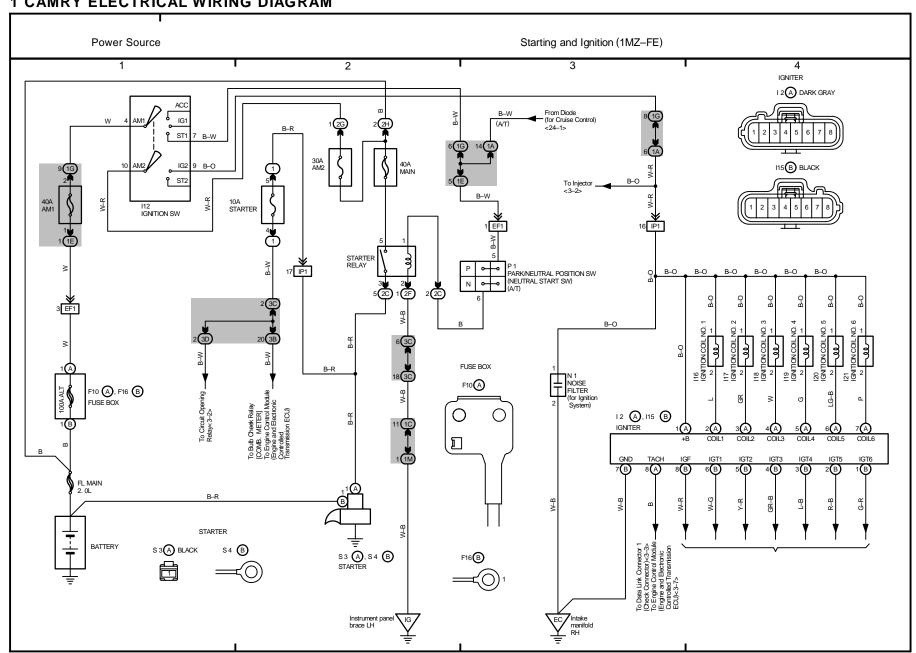


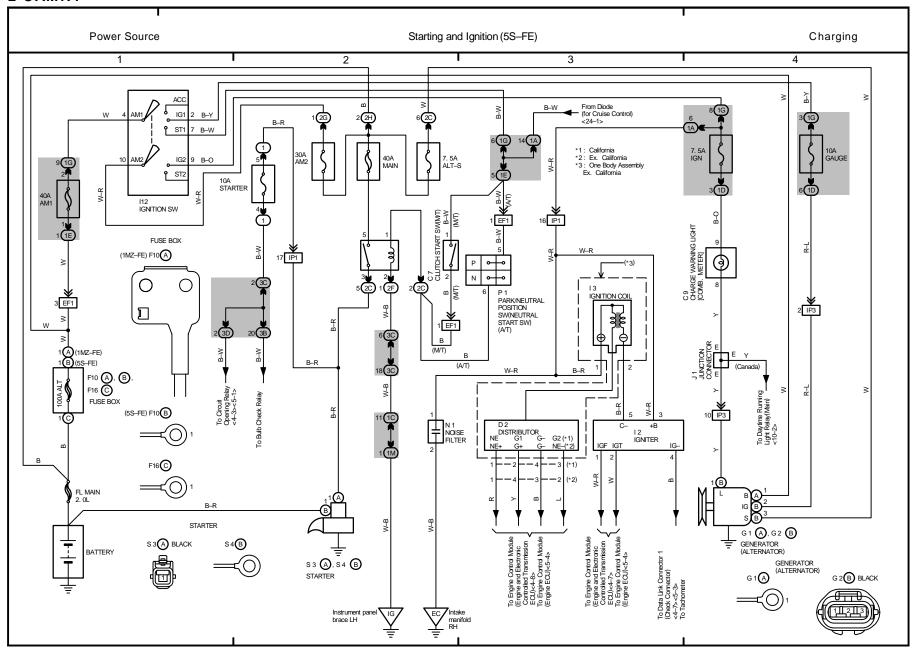
- Indicates and located on ground point.
- The same code occurring on the next page indicates that the wire harness is continuous.

SYSTEMS	LOCATION	SYSTEMS	LOCATION	SYSTEMS	LOCATION
ABS (Anti-Lock Brake System)	25-2 (TMC Made) 26-2 (TMM Made)	Engine Control	3–1 (1MZ–FE) 4–1 (5S–FE A/T and California M/T) 5–1 (5S–FE Ex. A/T and California M/T)	Rear Window Defogger	24–4 (W/G) 28–1 (S/D,C/P)
Air Conditioning	35–1(Lever Con– trol SW Type) 36–1(Push Con–	Front Wiper and Washer	18–2	Rear Wiper and Washer	22–2
Auto Antenna	trol SW Type) 27–3 (W/G)	Headlight	8–3 (for USA) 10–1 (for Canada)	Remote Control Mirror	20–1
Back–Up Light	28–3 (S/D,C/P) 6–7 (1MZ–FE)	Horn	18–4	Shift Lock	23–2
	7–7 (5S–FE) [*]	Illumination	15–2	SRS (Supplemental Restraint System)	23–3
Back Door Lock (w/o Power Window)	22-4 (W/G)		11–1 (S/D, C/P w/ Key Illuminated Entry) 12–1 (W/G w/ Key	Starting and Ignition	1–2 (1MZ–FE) 2–2 (5S–FE)
Charging	2–4	Interior Light	Illuminated Entry) 13–1 (S/D, C/P w/o Key Illuminated Entry) 14–1 (W/G w/o Key Illuminated Entry)	Stop Light	8–1 (W/G) 9–1 (S/D, C/P)
Cigarette Lighter and Clock	22–3	Light Auto Turn Off	34–2	Taillight	16–1 (S/D, C/P) 17–1 (W/G)
Combination Meter	33–1	Moon Roof	21–1	Torre Circuit and Harrard	,
Cruise Control	24–2	Power Seat	21–3	Turn Signal and Hazard Warning Light	9–3 (S/D, C/P) 18–2 (W/G)
Door Lock	19–1	Power Source	1~36–1	Unlock and Seat Belt Warning	34–1
Electrical Controlled Transmission and A/T Indicator	6-2 (1MZ-FE) 7-2 (5S-FE)	Power Window	20–2		
Electrically Controlled Hydraulic Cooling Fan	27–2 (1MZ–FE)	Radiator Fan and Condenser Fan	34-3 (5S-FE)		
Electric Tension Reducer	36–7	Radio and Player	29-1(S/D, C/P 6 Speaker) 30-1(W/G 8 Speaker) 31-1(S/D, C/P 4 Speaker) 32-2(W/G 6 Speaker)		

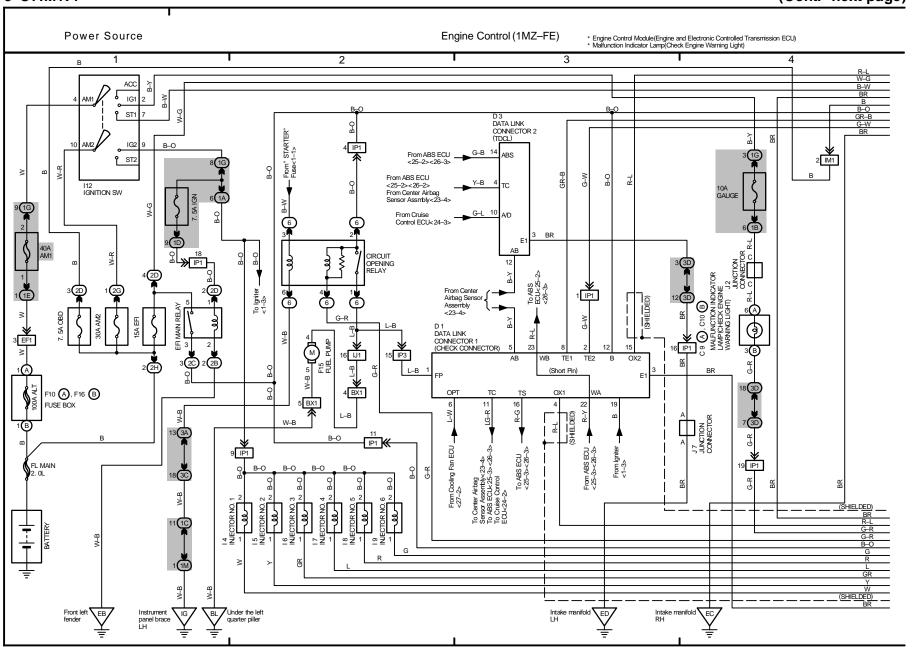
ELECTRICAL WIRING DIAGRAM

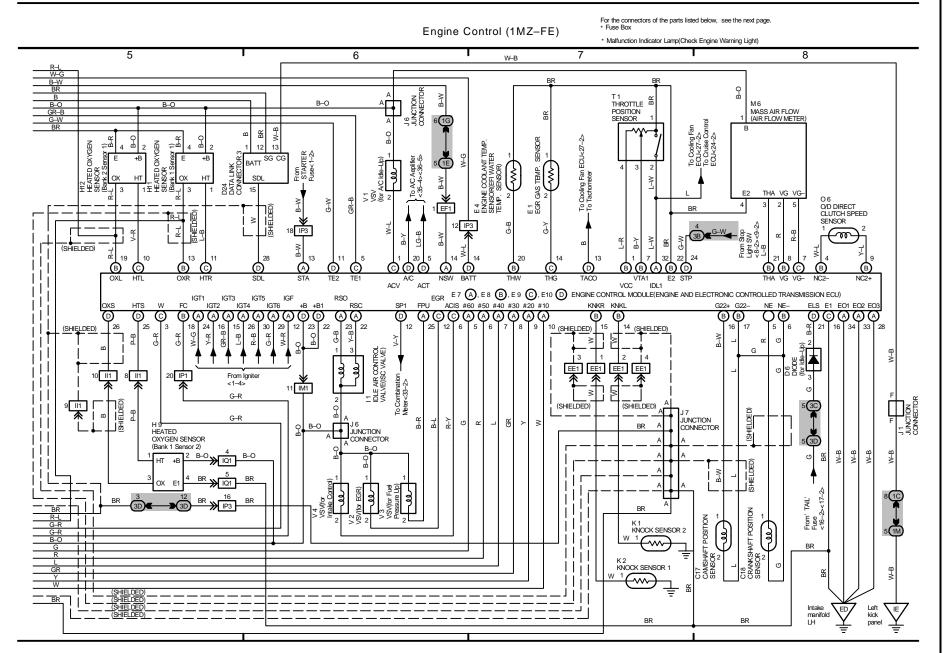
1 CAMRY ELECTRICAL WIRING DIAGRAM

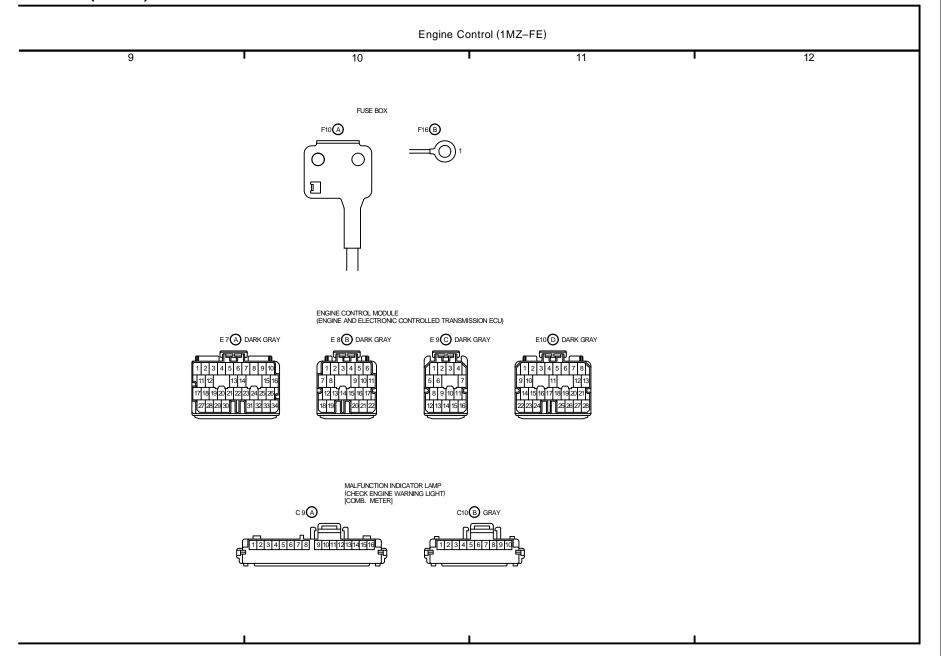




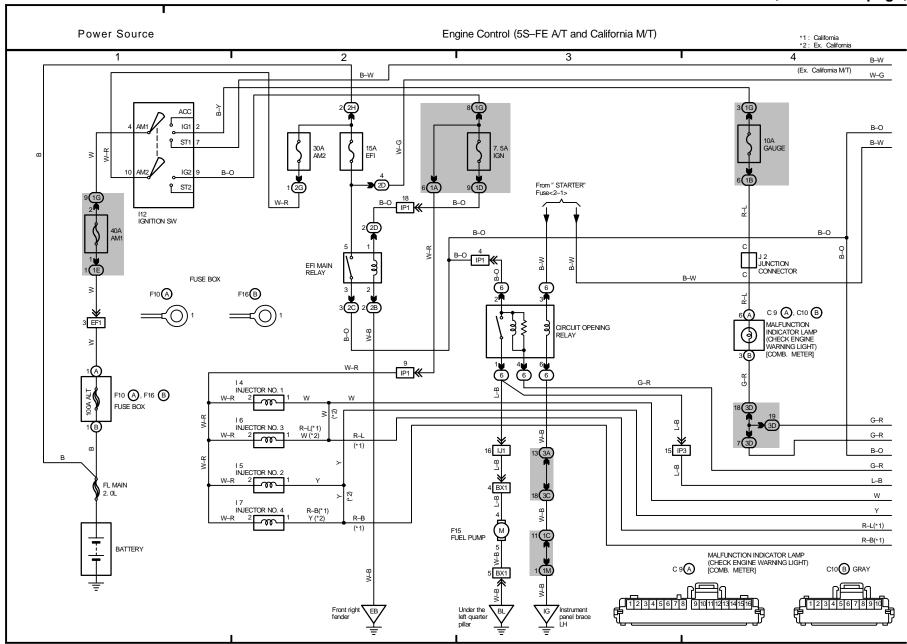
3 CAMRY (Cont. next page)

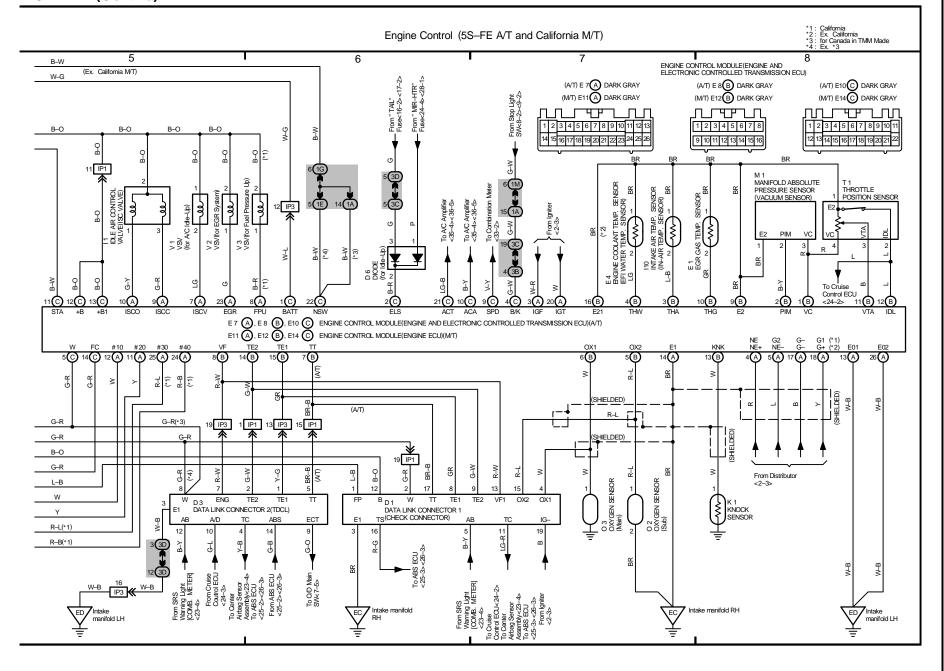






4 CAMRY (Cont. next page)





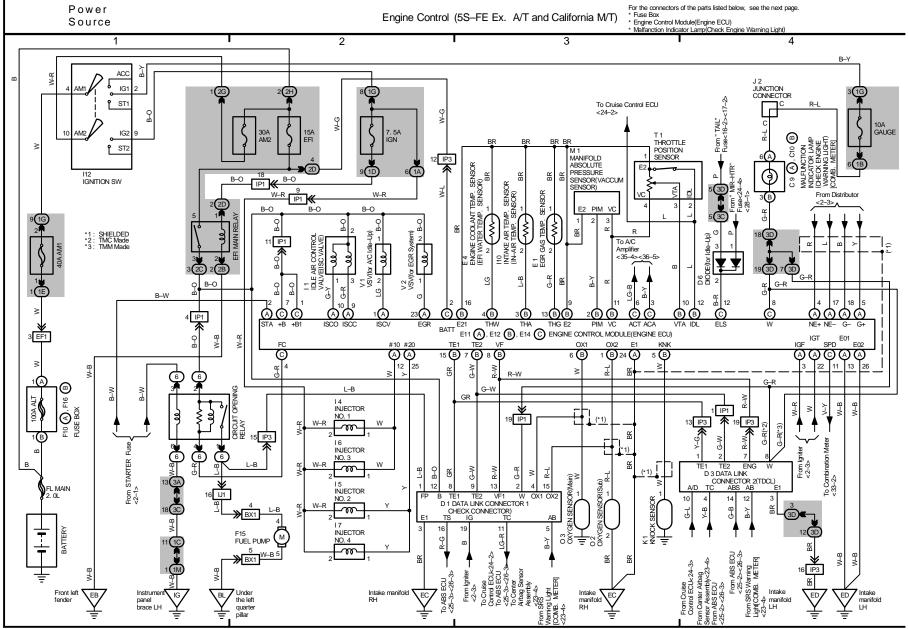
For the connectors of the parts listed below, see the next page.

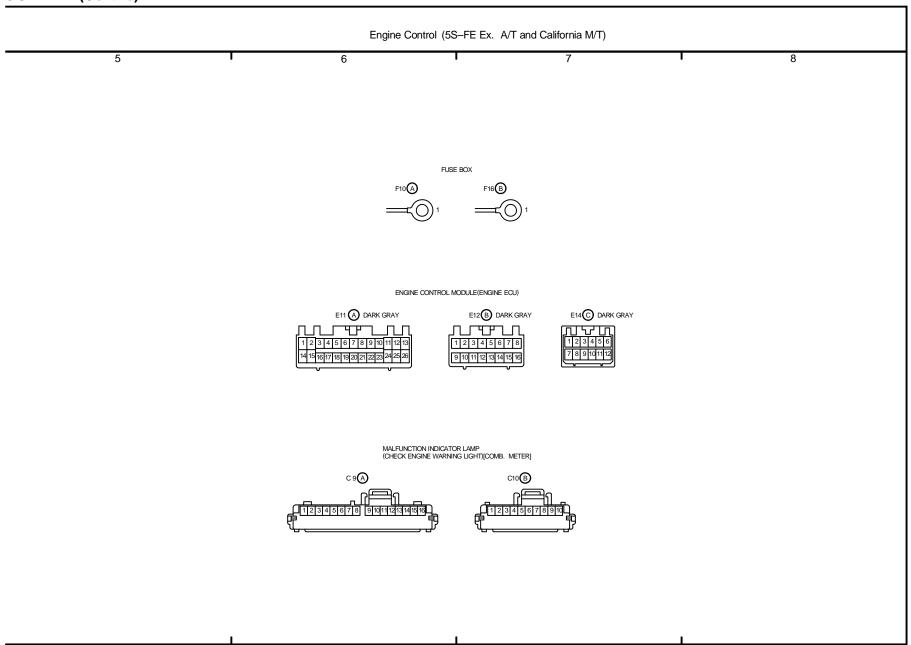
Power Source

Engine Control (5S-FE Ex. A/T and California M/T)

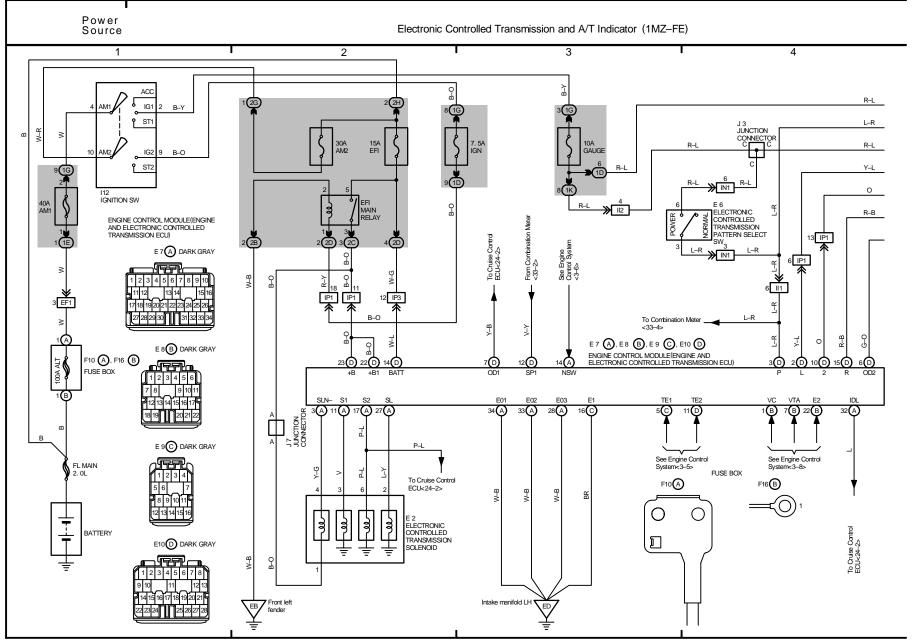
For the connectors of the parts listed below, see the next page.

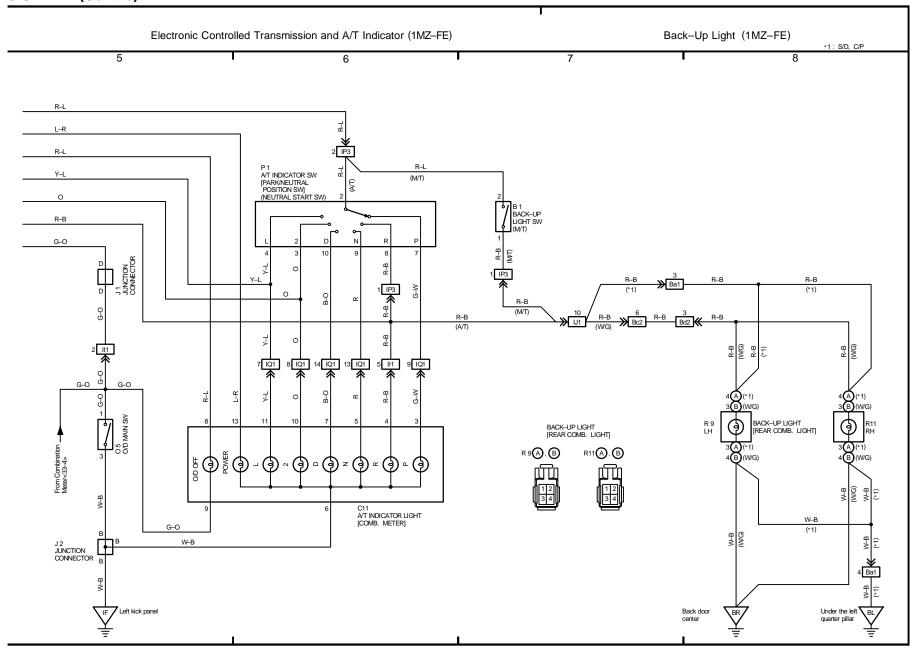
* Fuse Box
Engine Control Module(Engine ECU)
* Malfanction Indicator Lamp(Check Engine Warning Light)



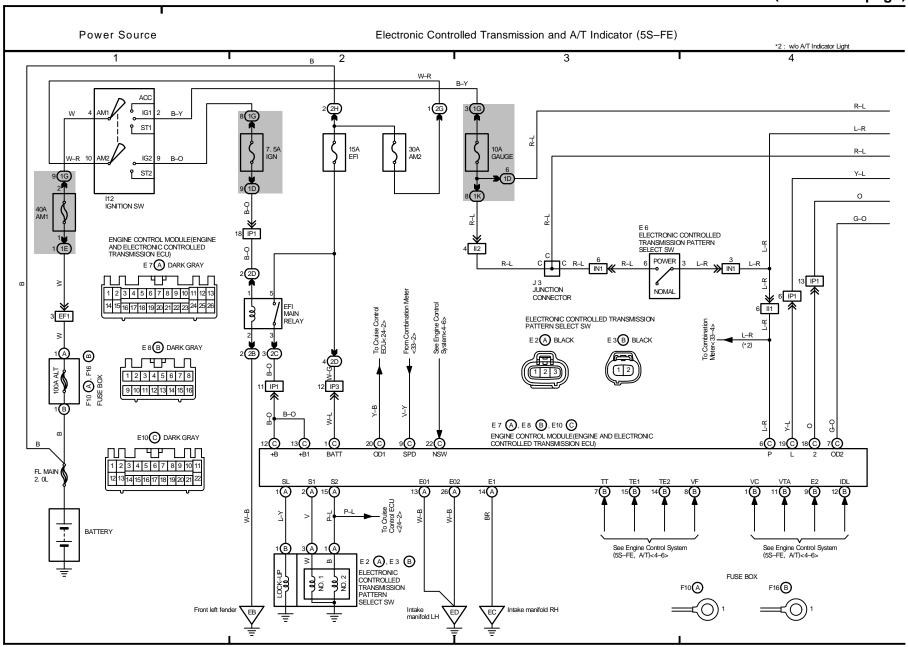


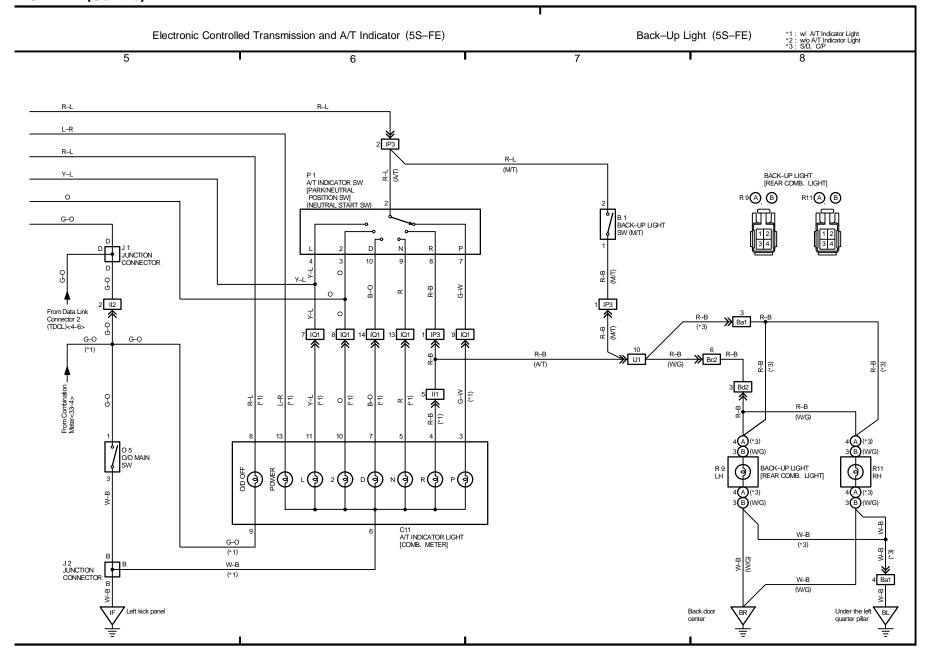
6 CAMRY (Cont. next page)

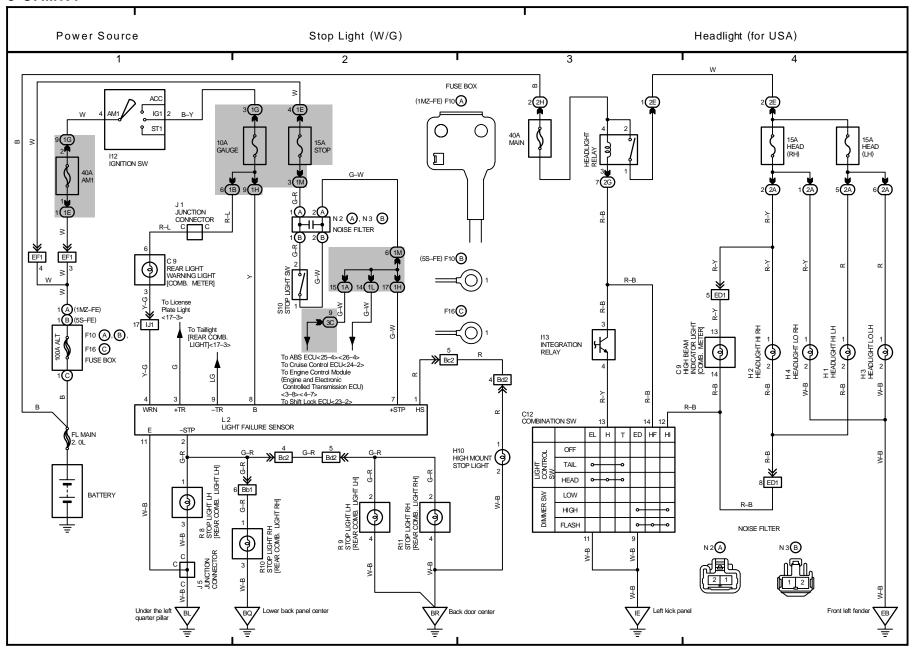


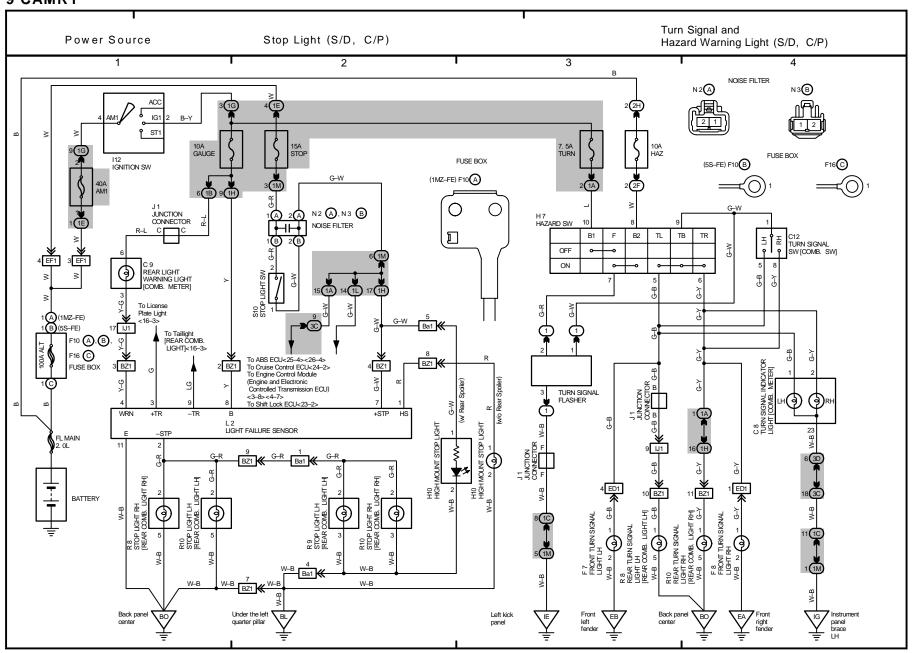


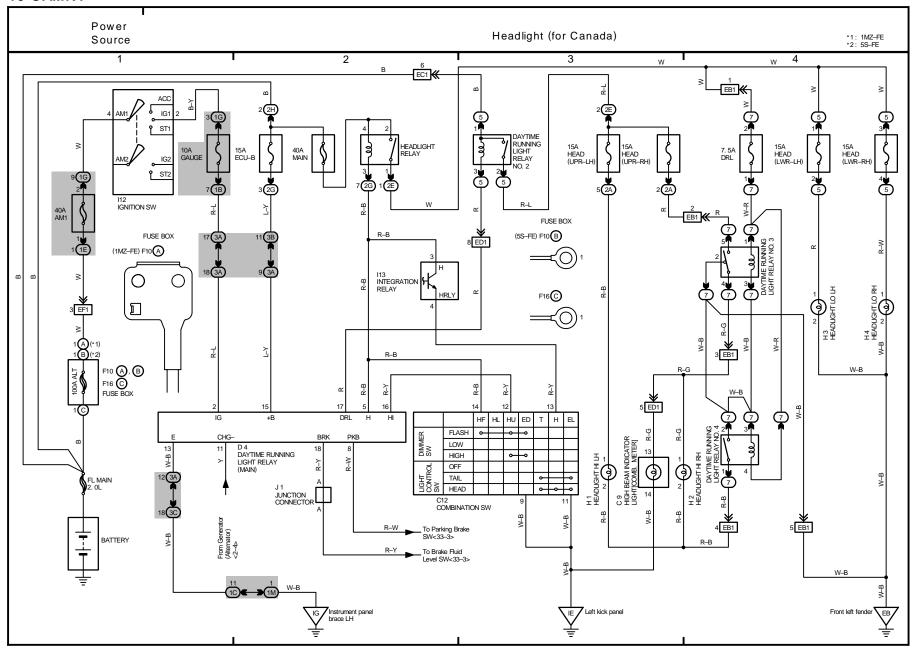
7 CAMRY (Cont. next page)

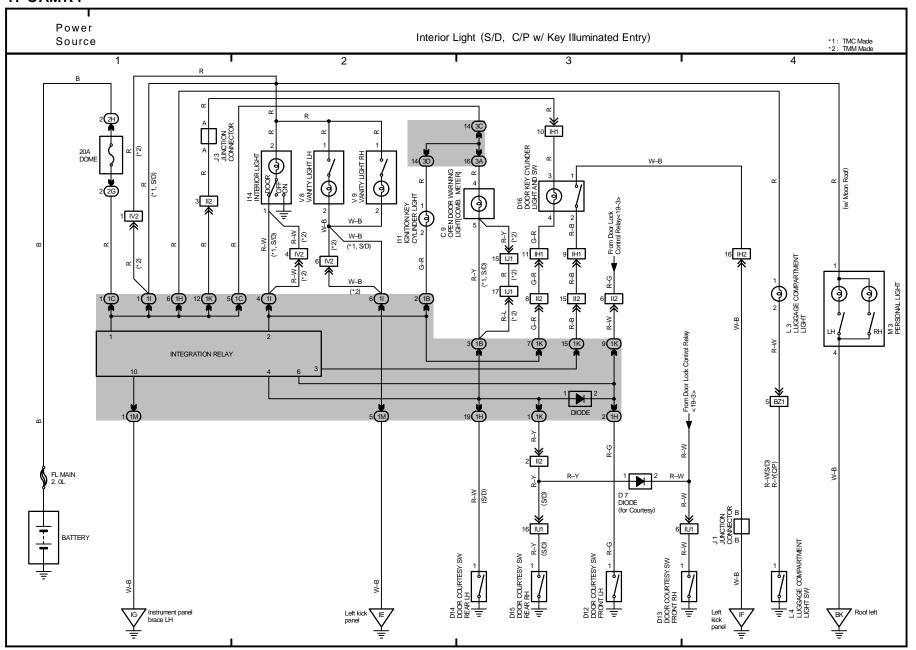


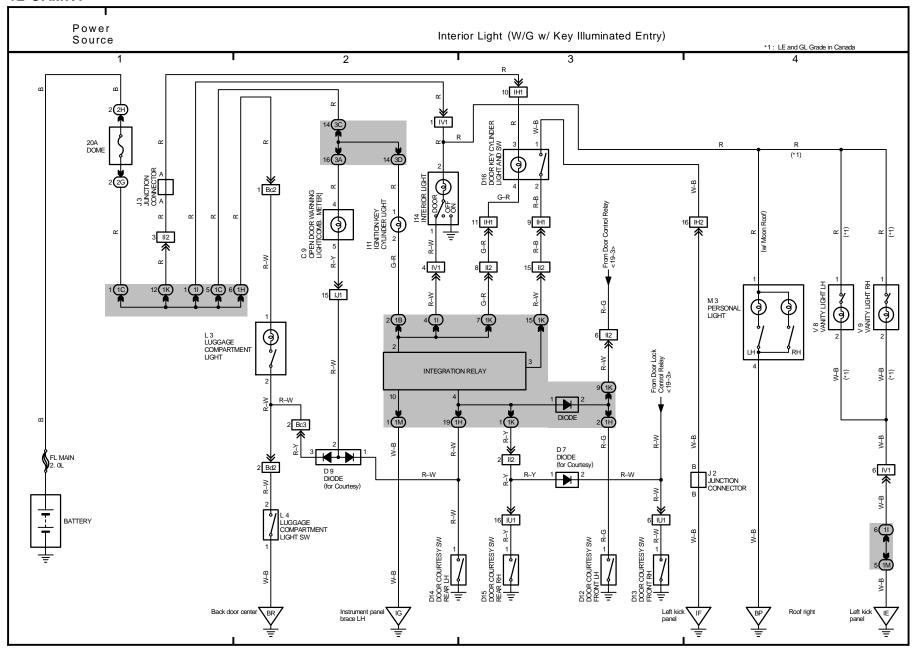


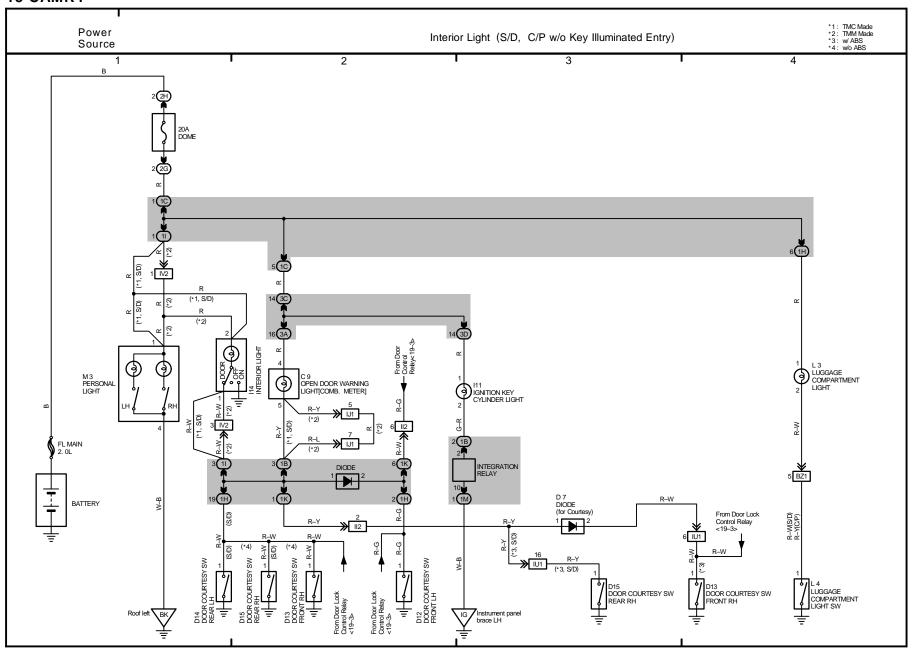


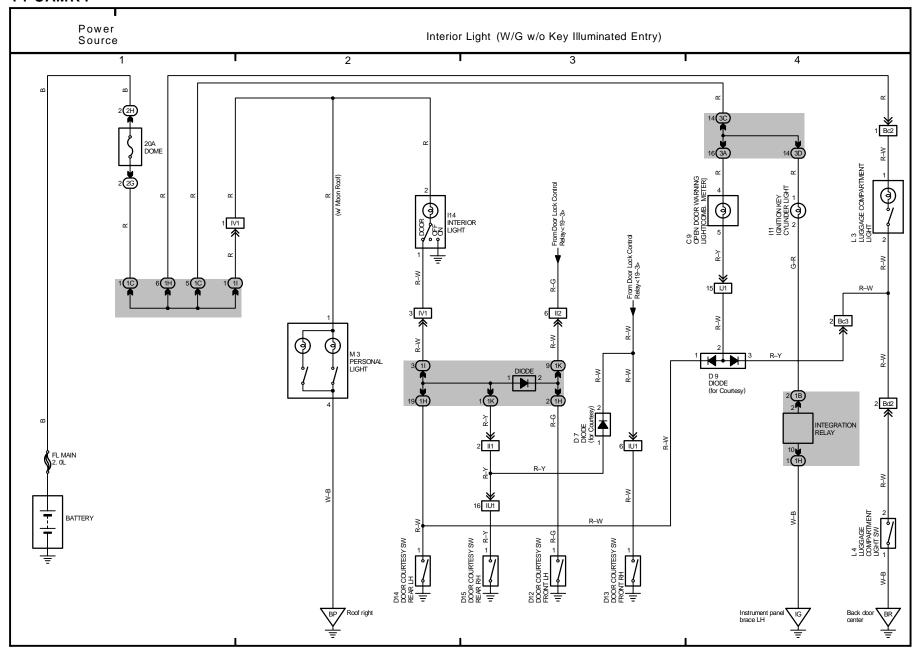


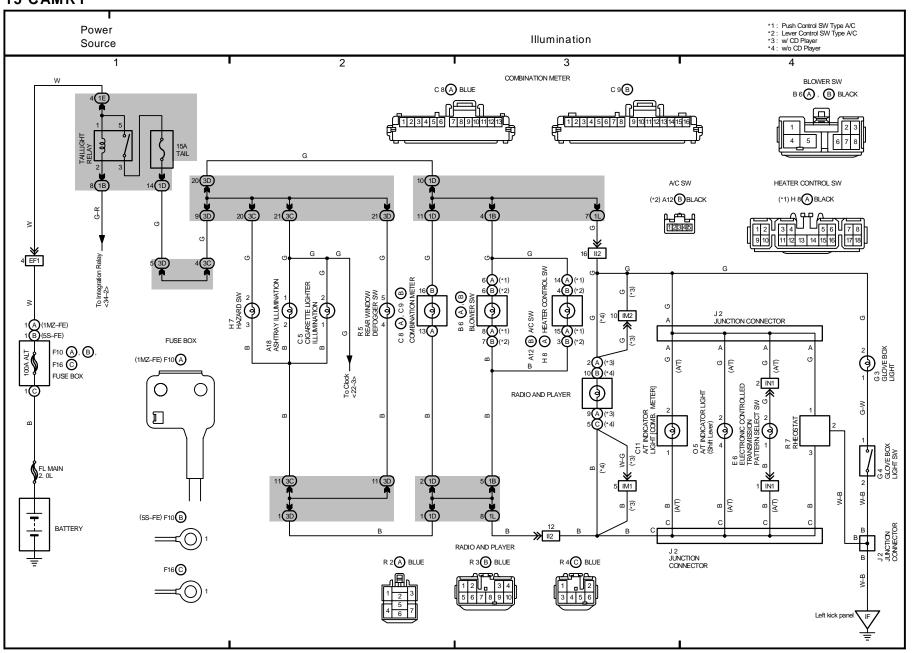


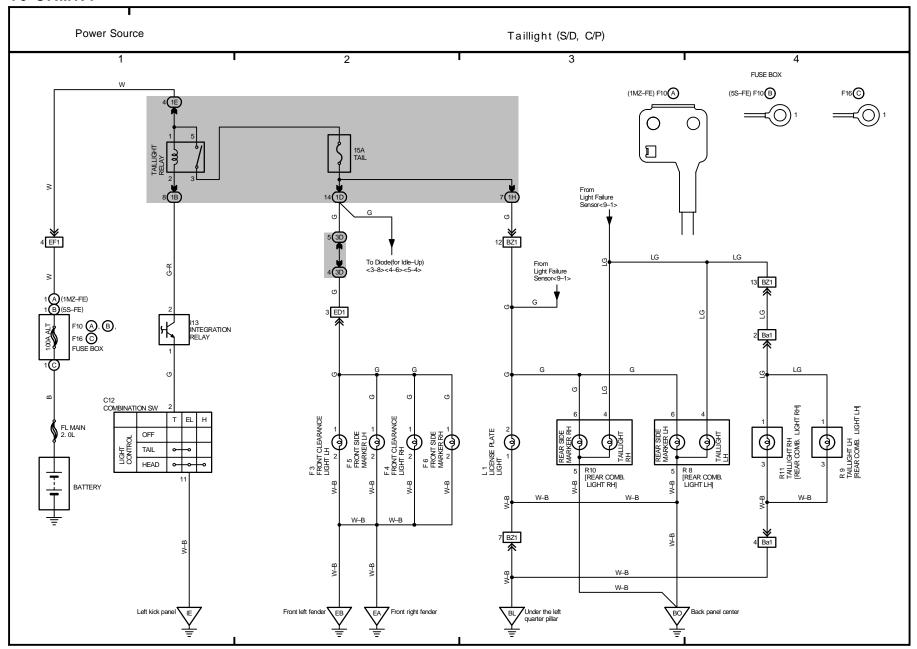


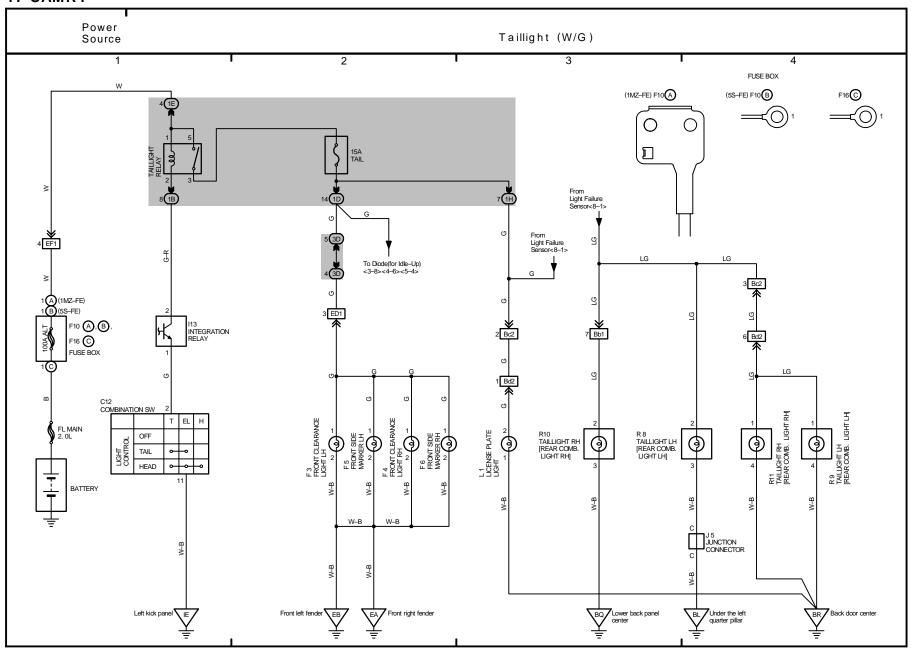




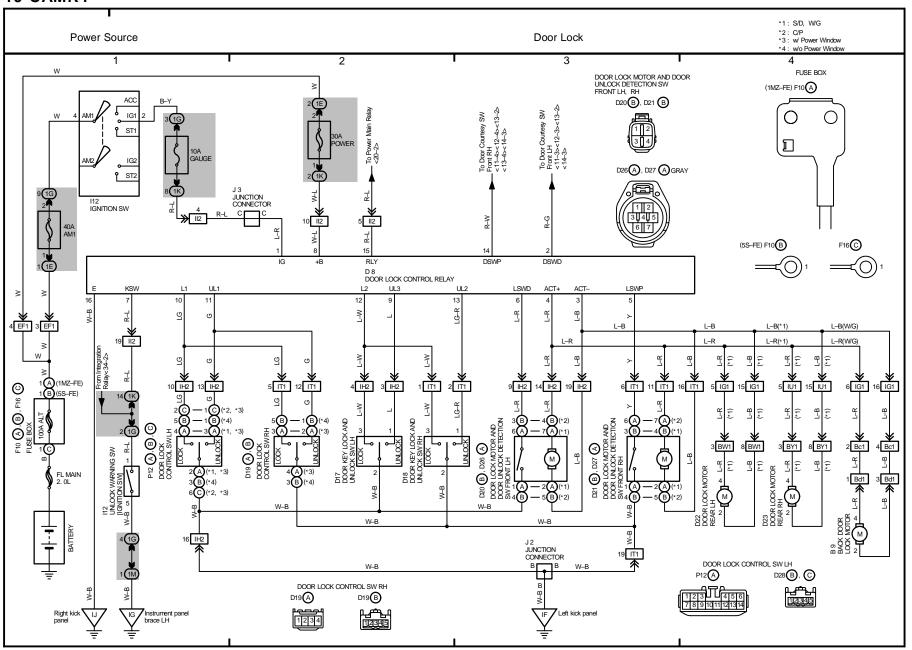




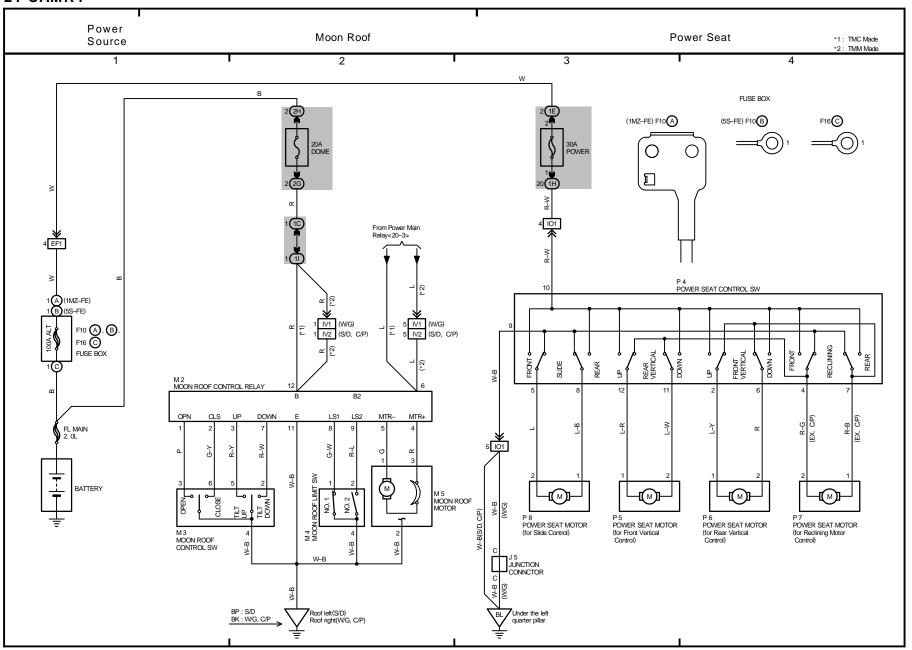


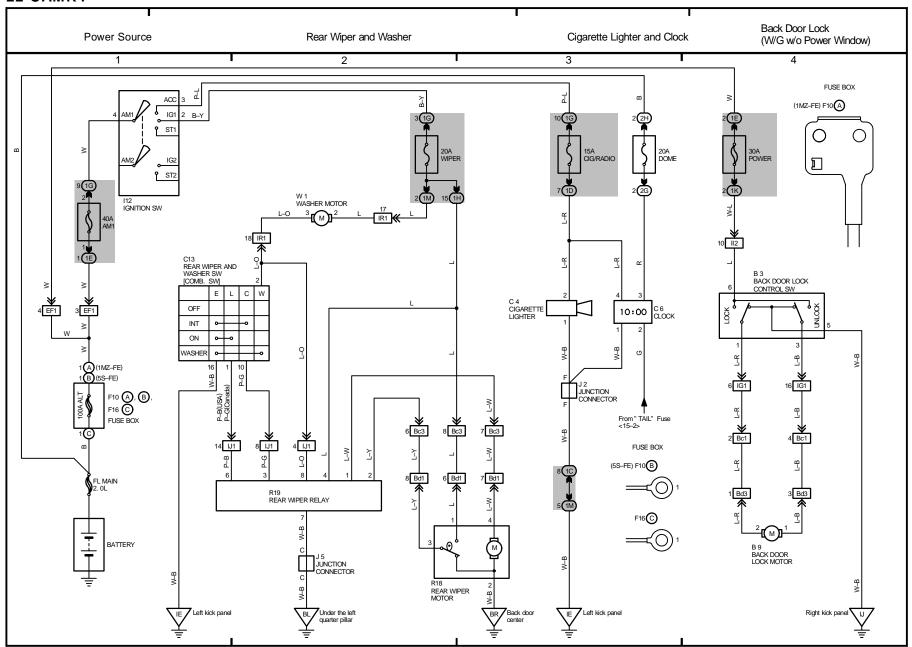


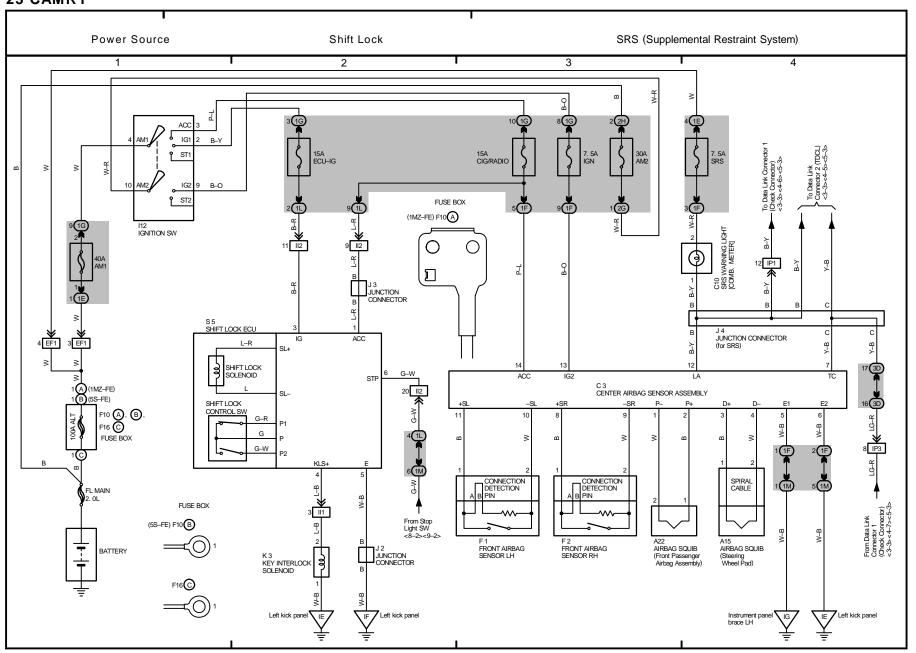
18 CAMRY Front Wiper and Washer Turn Signal and Hazard Warning Light (W/G) Power Source Horn FUSE BOX (5S-FE) F10B В-Ү ST1 15A HORN 10A HAZ W 9**1**G C13 FRONT WIPER AND WASHER SW [COMB. SW] I12 IGNITION SW IR1 **≪** G-W H 7 HAZARD SW HORN RELAY B1 B2 TL TB C12 TURN SIGNAL SW [COMB. SW] OFF MIST ON W 1 WASHER MOTOR INT LOW HIGH WASHER WIPER RELAY 1 (A) (1MZ-FE) 1 (B) (5S-FE) 11 R1 ₩₽ F10 (A), (B), F16 (C) L-W TURN SIGNAL FLASHER 4 FUSE BOX JUNCTION CONNECTOR 14 IR1 15 IR1 16 IR1 J 1 JUNCTION CONNECTOR FL MAIN 2. 0L FUSE BOX (1MZ-FE) F10(A) BATTERY J 5 JUNCTION CONNECTOR F 9 FRONT WIPER MOTOR Lower back panel center **7** Front right fender Front right fender Left kick panel Front left fender 7 Instrument panel brace LH Under the left quarter pillar

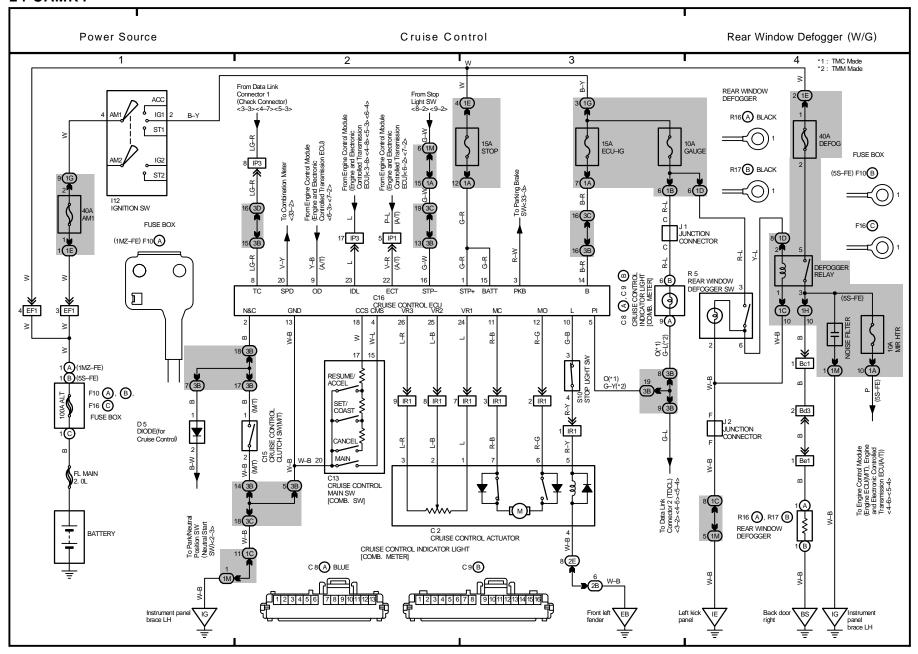


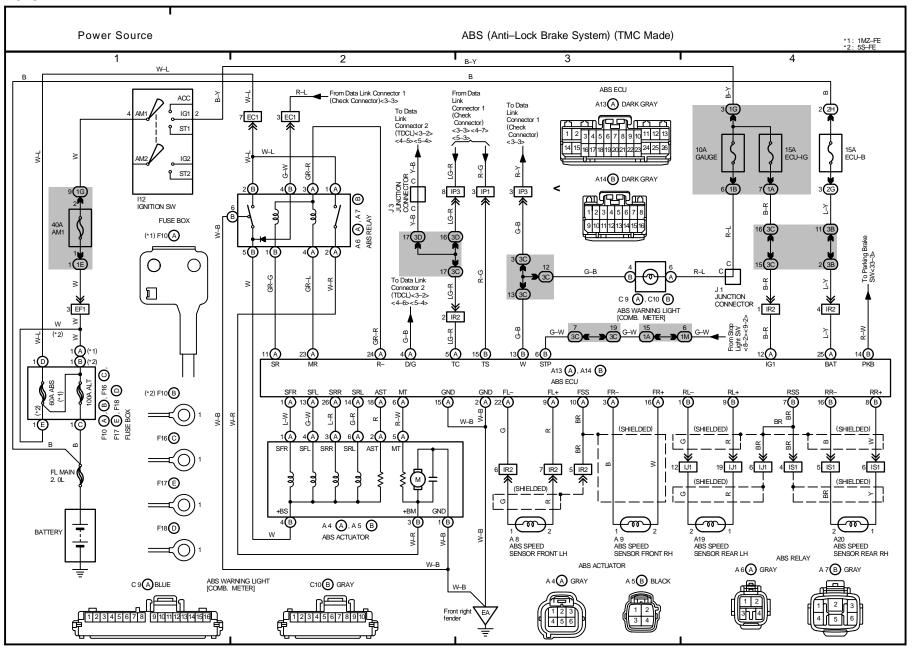
20 CAMRY Power *1: TMC Made *4: S/D, W/G Remote Control Mirror Power Window *2: TMM Made *3: C/P *5: 1MZ-FE Source *6: 5S-FE P-L REMOTE CONTROL MIRROR LH, RH POWER WINDOW MASTER SW (*2) R20(A), R21 (A) (*1) R20(B), R21 (B) P12(A) P12(B) 6(1L) 2(1E) FUSE BOX 123 12 34 5678910 (*6) F10B ST1 15A CIG/RADIO 30A POWER POWER MAIN RELAY I12 IGNITION SW **≫** II2 FUSE BOX J 3 JUNCTION CONNECTOR To Moon Roof Control Relay (*5) F10(A) L-R B B L-R 1 (1M) IH2 ₩ 10 (1K) R 6 REMOTE CONTROL MIRROR SW P12 (A), (B) POWER WINDOW MASTER SW E H1 V1 C V2 H2 18 II2 4 EF1 3 EF1 ≥ DOWN RH RIGHT POWER WINDOW LEFT LOCK SW RELAY 11(A)—14(A) UP DOWN RIGHT 2 IH2 F10 (A), (B), 12 IH2 LEFT F16 (C) FUSE BOX 4 IU1 12 IU1 13 IG1 5 H2 M-5 10 IT1 1 H2 W T1 W T1 7 BY1 9 ₩ 6 BY1 5 BW1 FL MAIN 5 BY1 9 IT1 16 H2 5 H1 4 IH1 7 IT2 6 IT2 IH1 BATTERY N N N J 2 JUNCTION ❿ \bigcirc \bigcirc CONNECTOR R20 (A), (B) R21 (A), (B) Left kick IF \IG / Left kick P15 POWER WINDOW MOTOR POWER WINDOW MOTOR REMOTE CONTROL MIRROR LH REMOTE CONTROL MIRROR RH panel brace LH panel POWER WINDOW MOTOR FRONT LH POWER WINDOW MOTOR FRONT RH REAR RH REAR LH

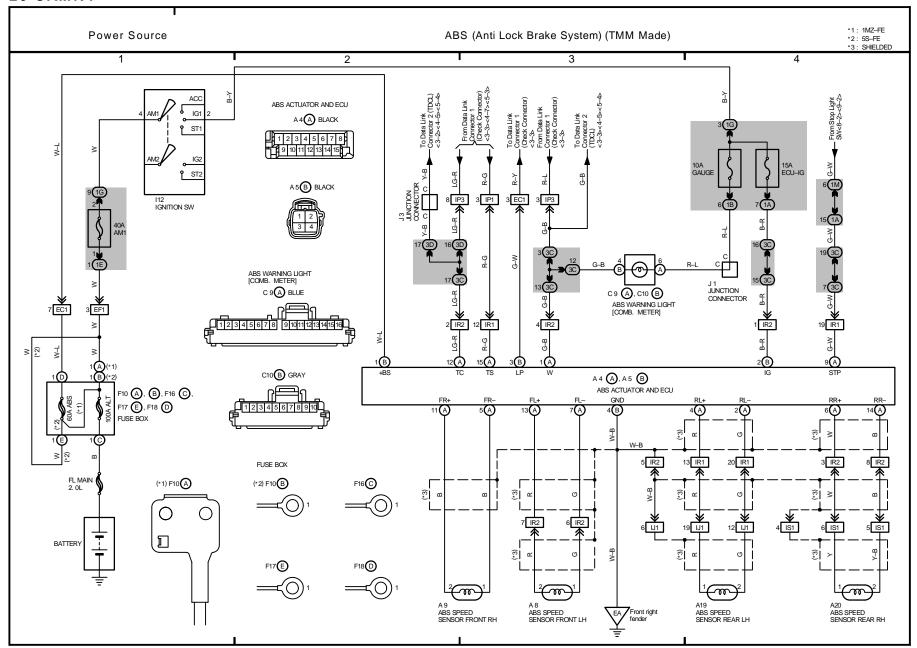


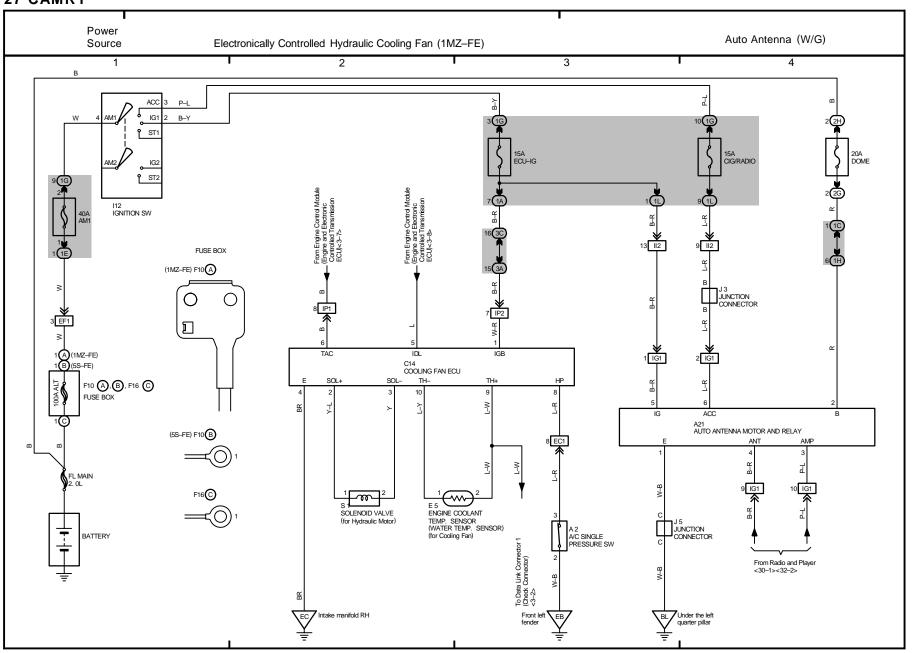


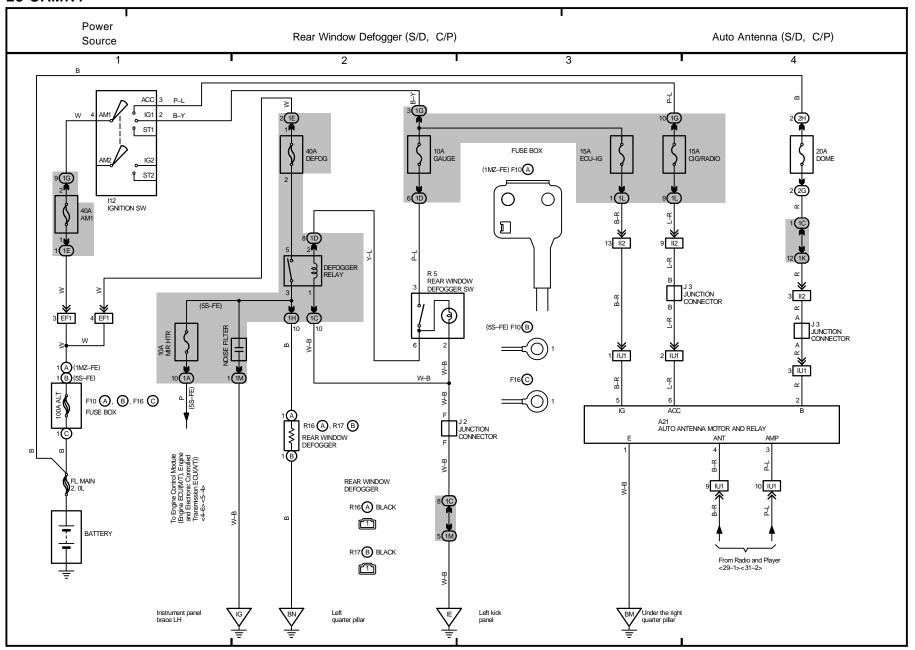


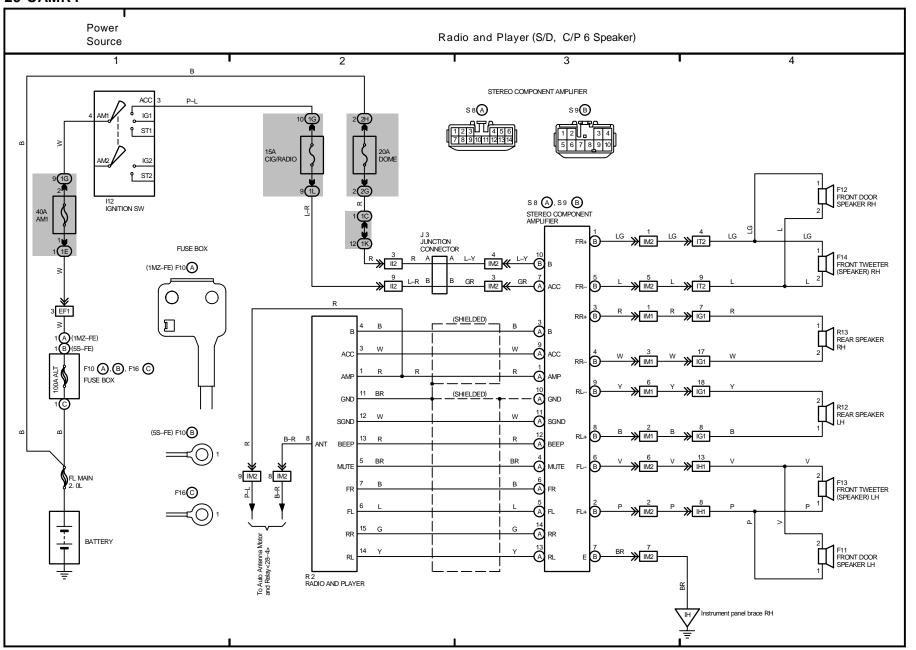


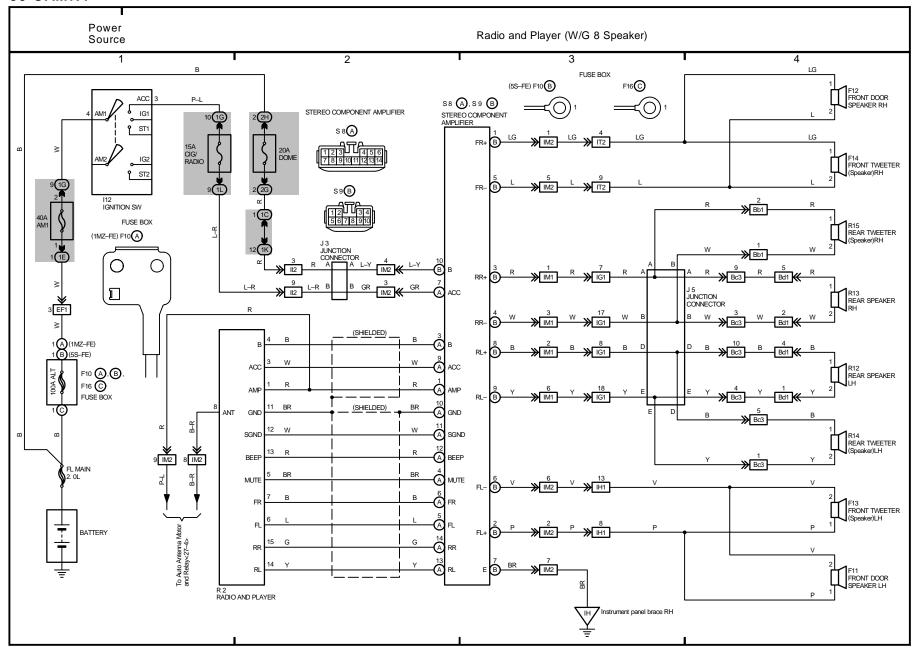


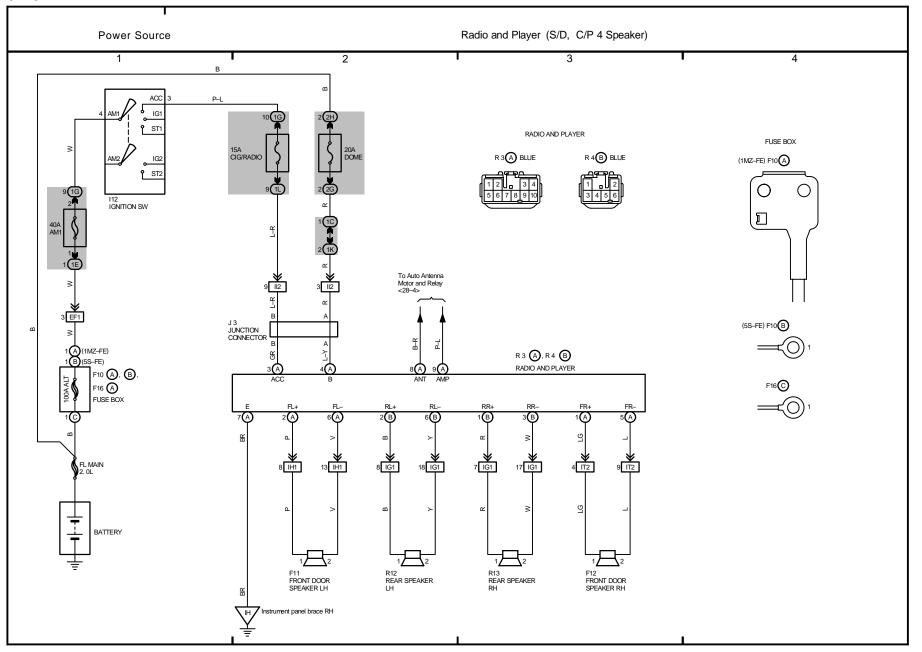


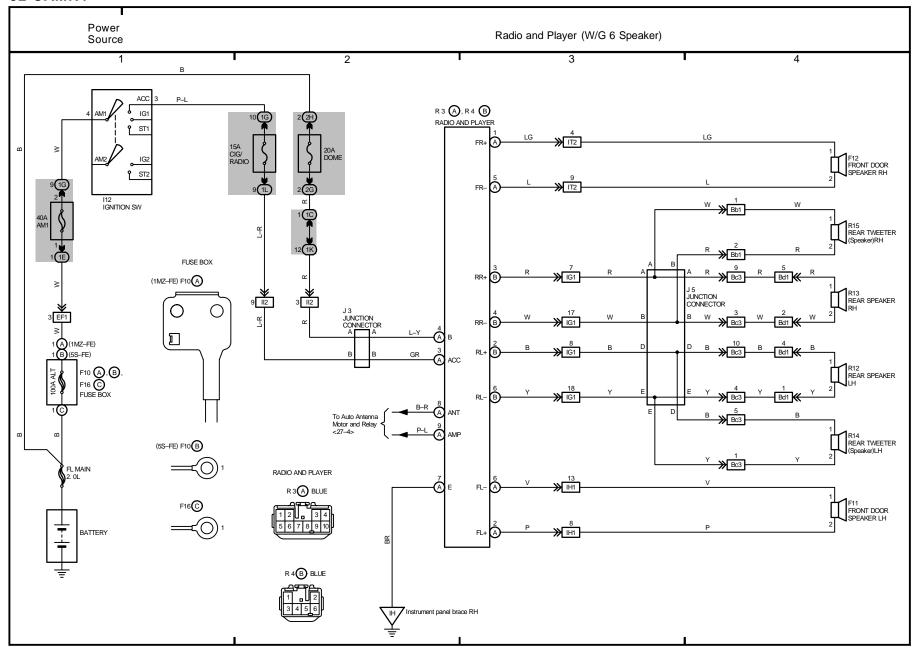


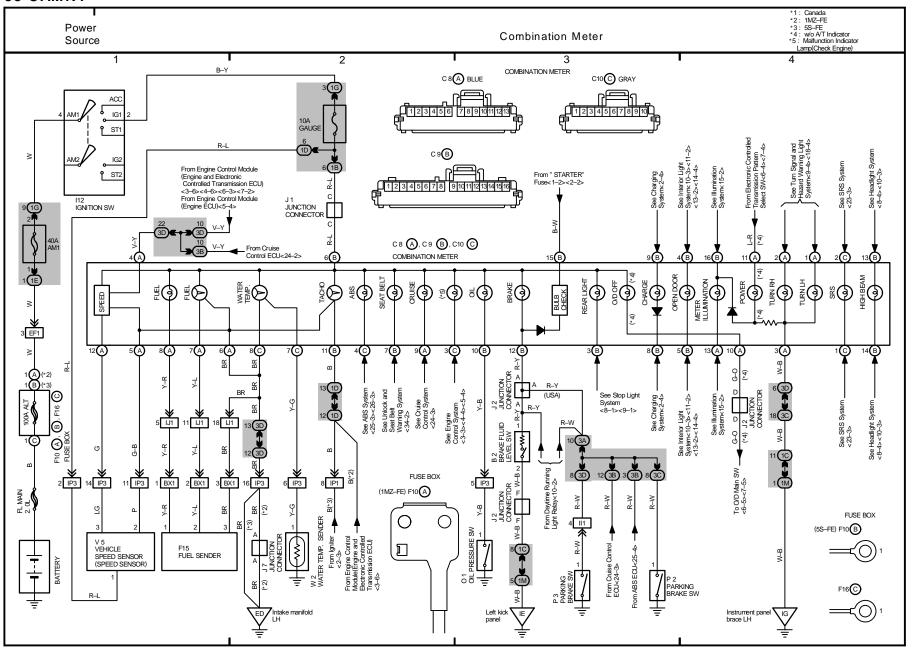


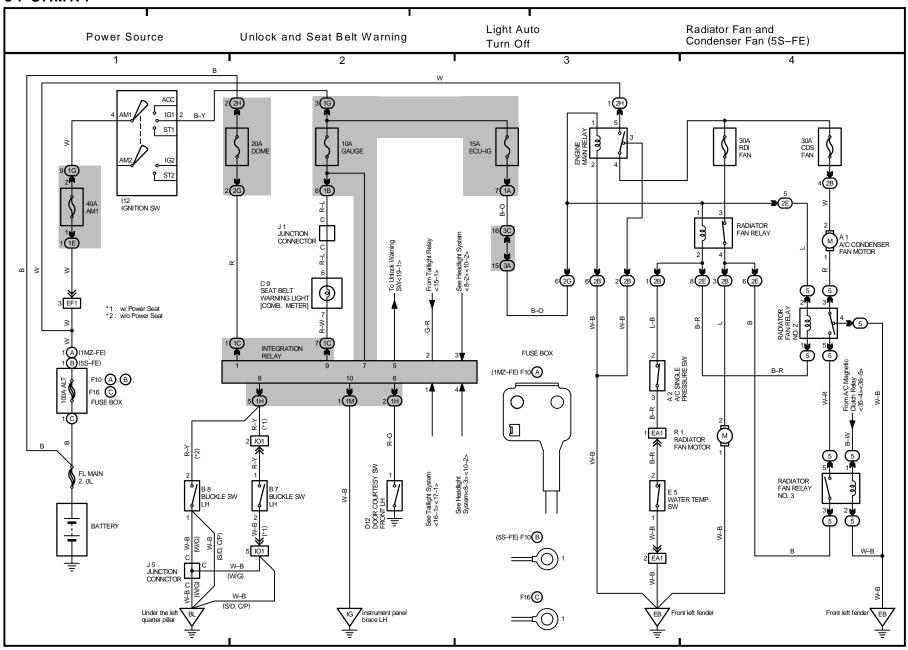


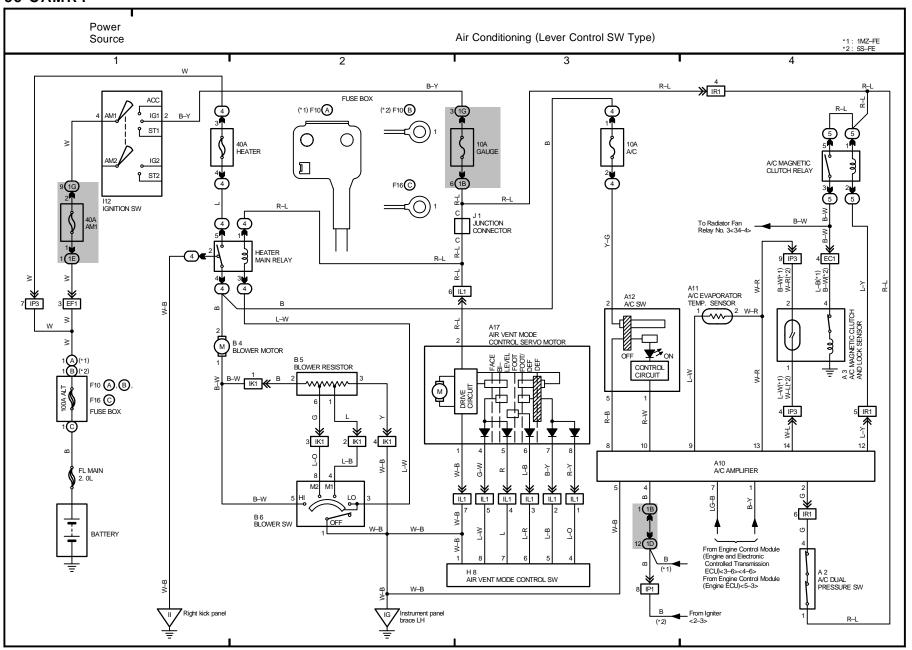












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