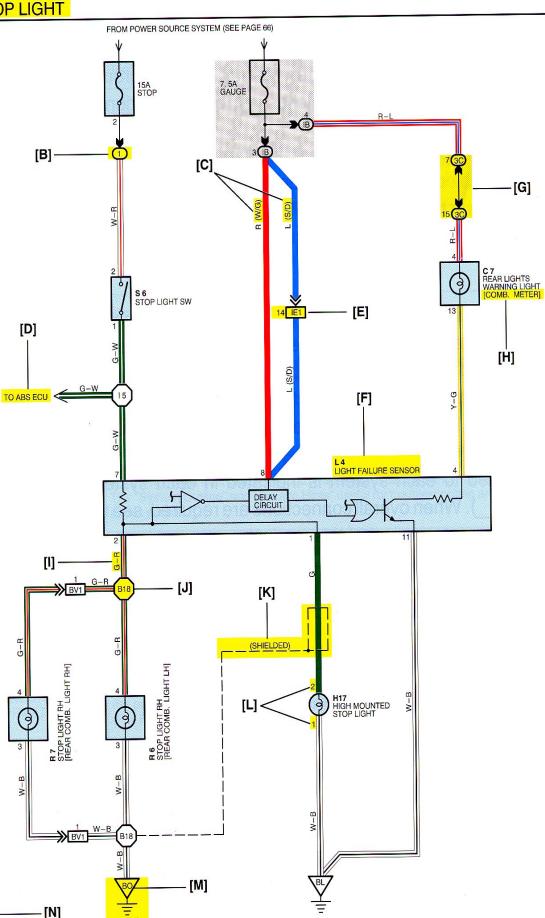
B HOW TO USE THIS MANUAL



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

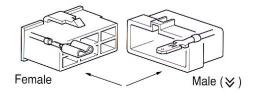


- [A] : System Title
- [B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

Example: 1 Indicates Relay Block No.1

- [C] : () is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.
- [D] : Indicates related system.
- [E] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (⋈).

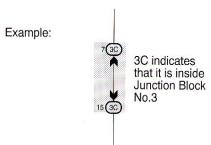
Outside numerals are pin numbers.



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

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

- [F] : Represents a part (all parts are shown in sky blue). The code is the same as the code used in parts position.
- [G] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.



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

[I] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

 $B = Black \quad W = White \quad BR = Brown$

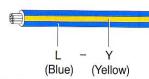
L = Blue V = Violet SB = Sky Blue R = Red G = Green LG = Light Green

P = Pink Y = Yellow GR = Gray

O = Orange

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

Example: L - Y



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



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

[K]: Indicates a shielded cable.

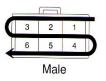


[L] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example: Numbered in order from upper left to lower right

bered in order upper left to right Numbered in order from upper right to lower left





[M] : Indicates a ground point.

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

[N] : Page No.

To Ignition SW IG Terminal Fuse [A] SW 1 Voltmeter Relay Solenoid

VOLTAGE CHECK

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

Example:

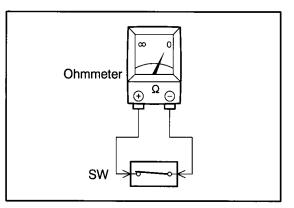
[A] - Ignition SW on

[B] - Ignition SW and SW 1 on

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

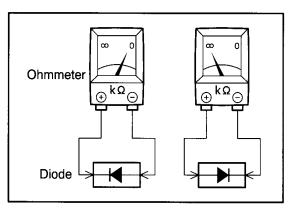
(b) Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal.

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



CONTINUITY AND RESISTANCE CHECK

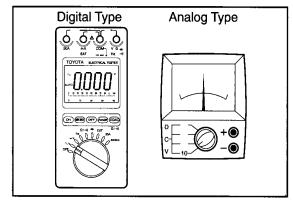
- (a) Disconnect the battery terminal or wire so there is no voltage between the check points.
- (b) Contact the two leads of an ohmmeter to each of the check points.



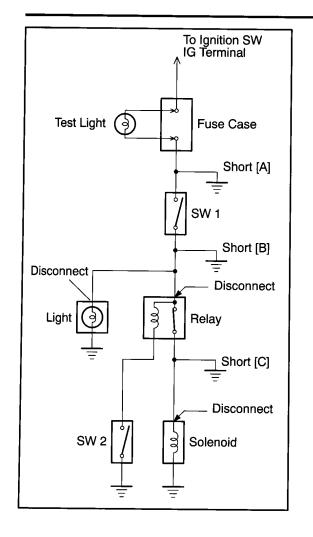
If the circuit has diodes, reverse the two leads and check again.

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

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



(c) Use a volt/ohmmeter with high impedance (10 $k\Omega/V$ 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:

[A] - Ignition SW on

[B] - Ignition SW and SW 1 on

[] - Ignition SW, SW 1 and Relay on (Connect the Relay) and SW 2 off (or Disconnect SW 2)

(d) Disconnect and reconnect the connectors while watching the test 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.

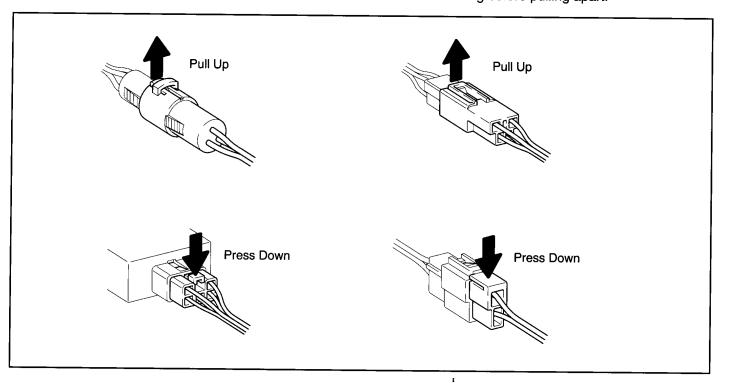
CAUTION:

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

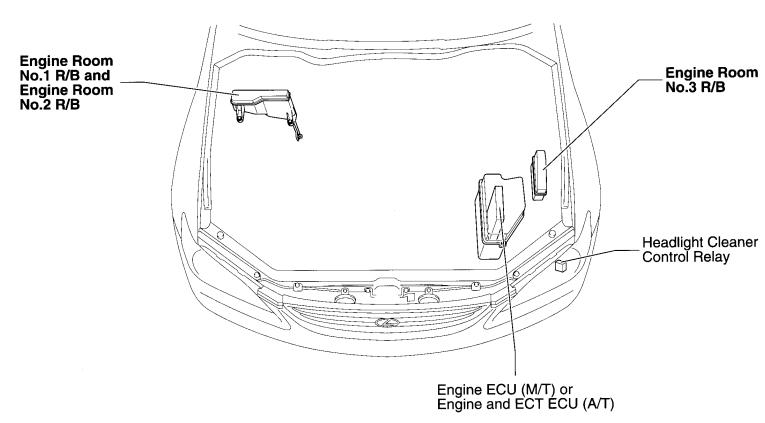
DISCONNECTION OF MALE AND FEMALE CONNECTORS

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

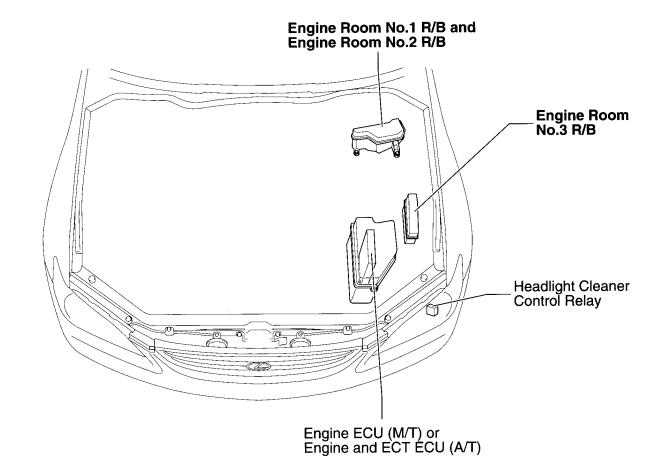
HINT: Check to see what kind of connector you are disconnecting before pulling apart.



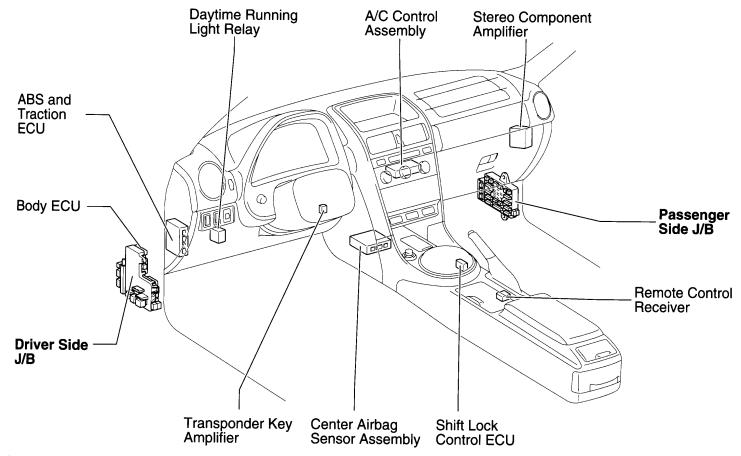
[Engine Compartment] (LHD)



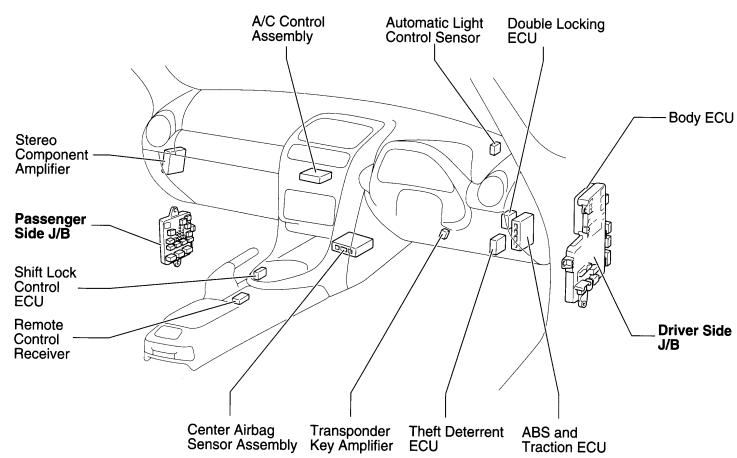
(RHD)



[Instrument Panel] (LHD)



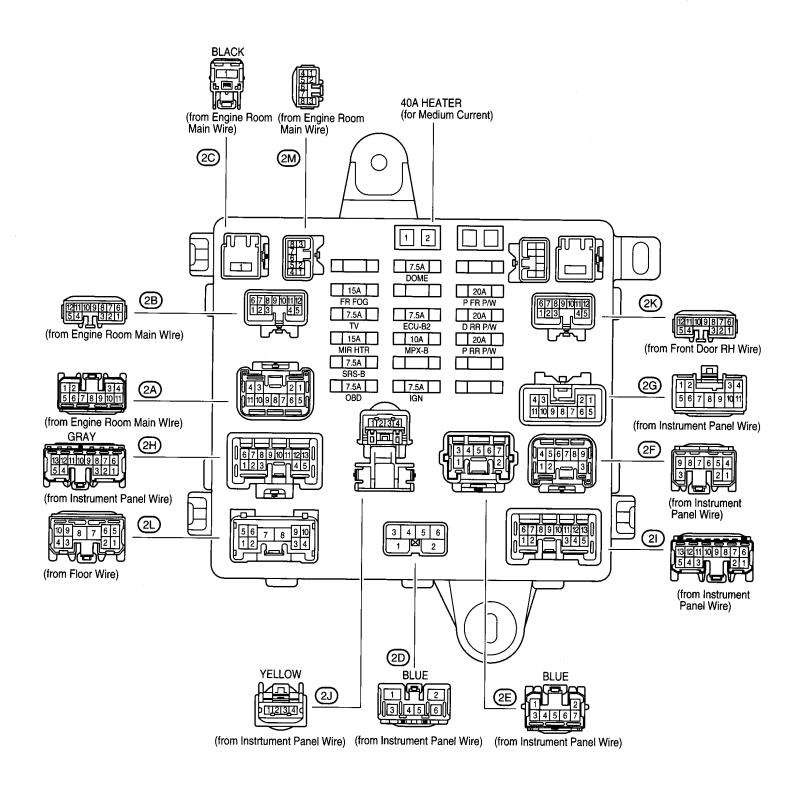
(RHD)

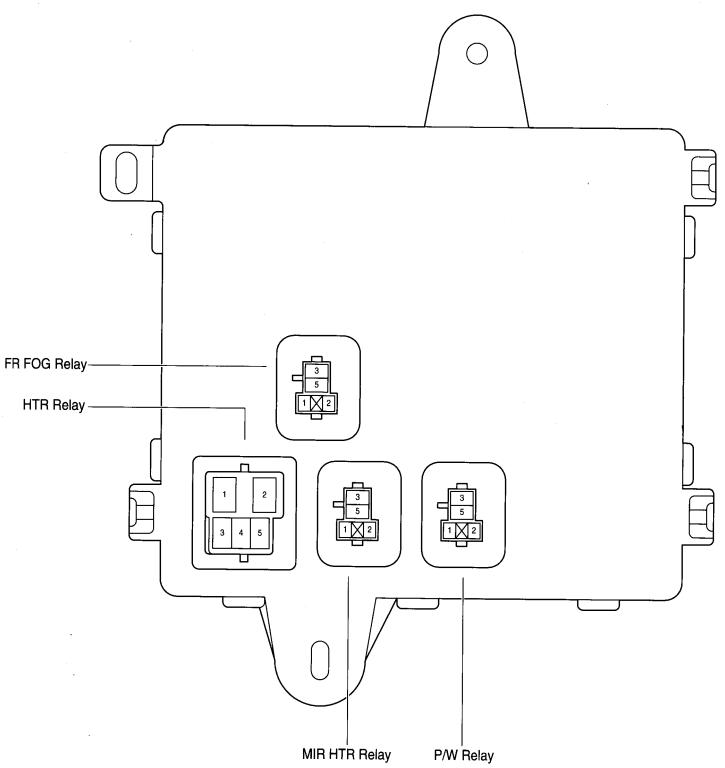


(Inner Circuit : See Page 87)

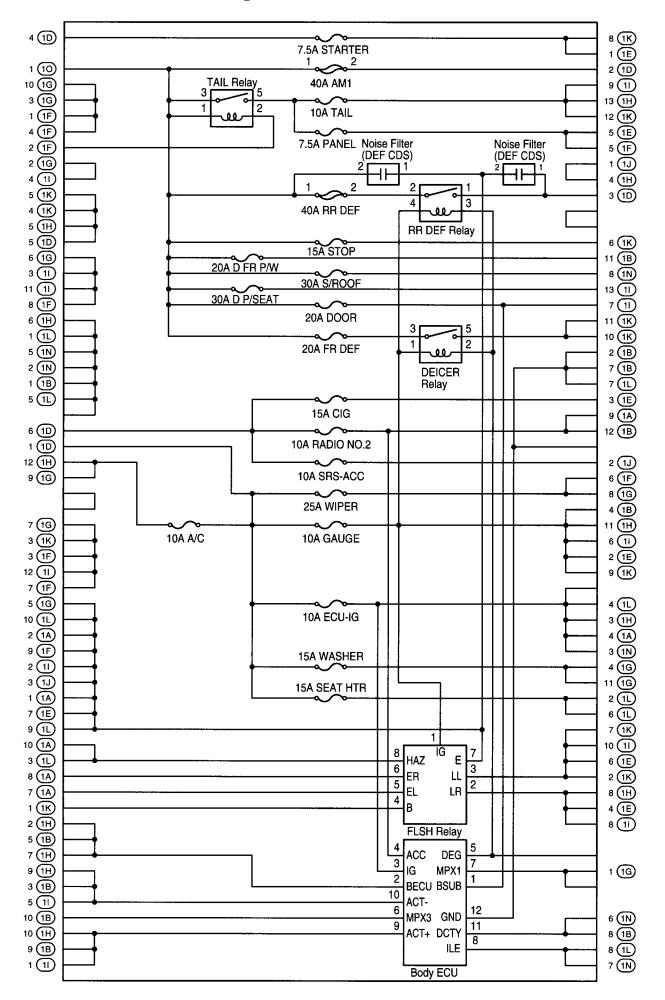
: Passenger Side J/B Right Kick Panel (See Page 77)

[LHD]

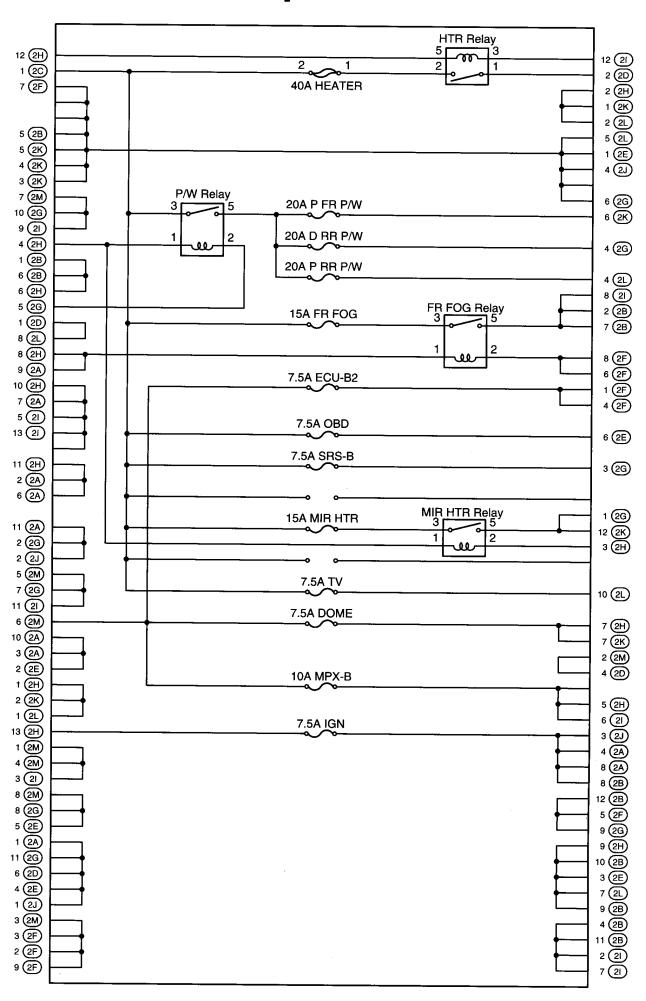




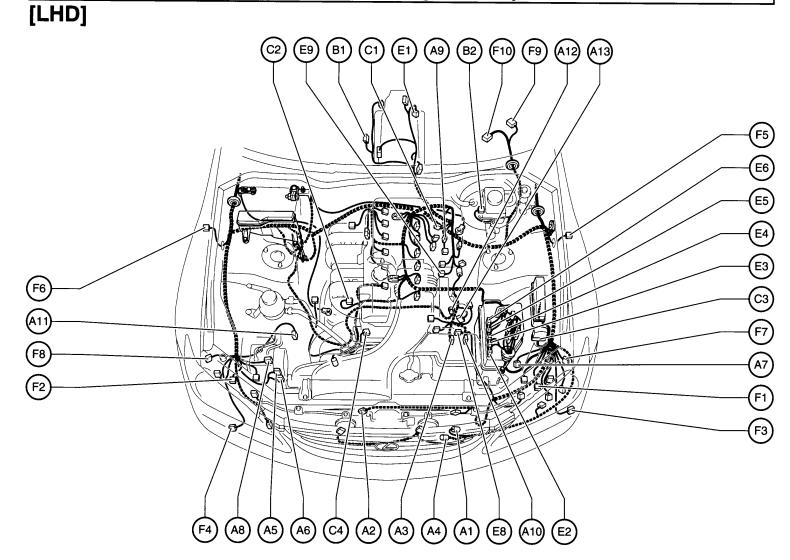
[Driver Side J/B Inner Circuit]



[Passenger Side J/B Inner Circuit]



Position of Parts in Engine Compartment

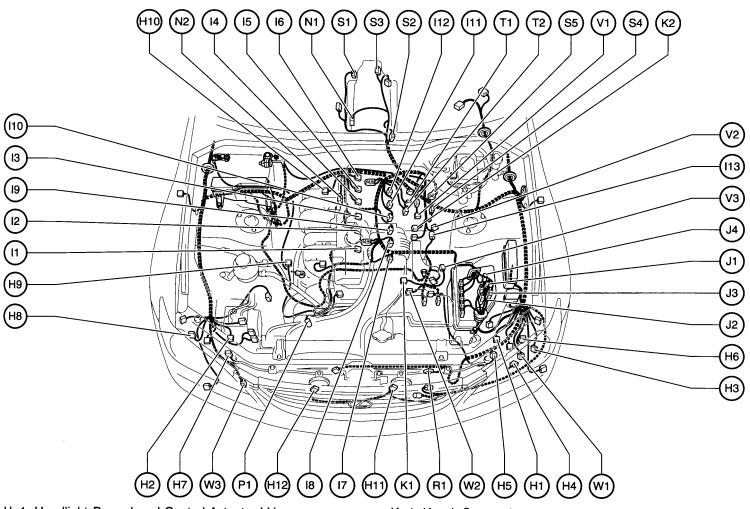


- A 1 A/C Ambient Temp. Sensor
- A 2 A/C Condenser Fan Motor
- A 3 A/C Magnetic Clutch
- A 4 A/C Triple Pressure SW (A/C Dual and Single Pressure SW)
- A 5 ABS and Traction Actuator
- A 6 ABS and Traction Actuator
- A 7 ABS Speed Sensor Front LH
- A 8 ABS Speed Sensor Front RH
- A 9 Accel Position Sensor
- A10 Airbag Sensor Front LH
- A 11 Airbag Sensor Front RH
- A12 Alternator
- A13 Alternator
- B 1 Back-Up Light SW
- B 2 Brake Fluid Level Warning SW
- C 1 Camshaft Position Sensor
- C 2 Camshaft Timing Oil Control Valve
- C 3 Check Connector
- C 4 Crankshaft Position Sensor

- E 1 ECT Solenoid
- E 2 Engine ECU (M/T) or Engine and ECT ECU (A/T)
- E 3 Engine ECU (M/T) or Engine and ECT ECU (A/T)
- E 4 Engine and ECT ECU
- E 5 Engine ECU (M/T) or Engine and ECT ECU (A/T)
- E 6 Engine ECU (M/T) or Engine and ECT ECU (A/T)
- E 8 Engine Oil Level Sensor
- E 9 Engine Oil Pressure SW
- F 1 Front Clearance Light LH
- F 2 Front Clearance Light RH
- F 3 Front Fog Light LH
- F 4 Front Fog Light RH
- F 5 Front Side Turn Signal Light LH
- F 6 Front Side Turn Signal Light RH
- F 7 Front Turn Signal Light LH
- F 8 Front Turn Signal Light RH
- F 9 Front Window Deicer
- F10 Front Wiper Motor

Position of Parts in Engine Compartment

[LHD]



- H 1 Headlight Beam Level Control Actuator LH
- H 2 Headlight Beam Level Control Actuator RH
- H 3 Headlight Cleaner Control Relay
- H 4 Headlight Cleaner Motor
- H 5 Headlight LH (High) H 6 Headlight LH (Low)

- H 7 Headlight RH (High) H 8 Headlight RH (Low)
- H 9 Heated Oxygen Sensor (Bank 1 Sensor 1) H10 Heated Oxygen Sensor (Bank 2 Sensor 1)
- H11 Horn LH
- H12 Horn RH
- I Ignition Coil and Igniter No.1
 I 2 Ignition Coil and Igniter No.2
 I 3 Ignition Coil and Igniter No.3

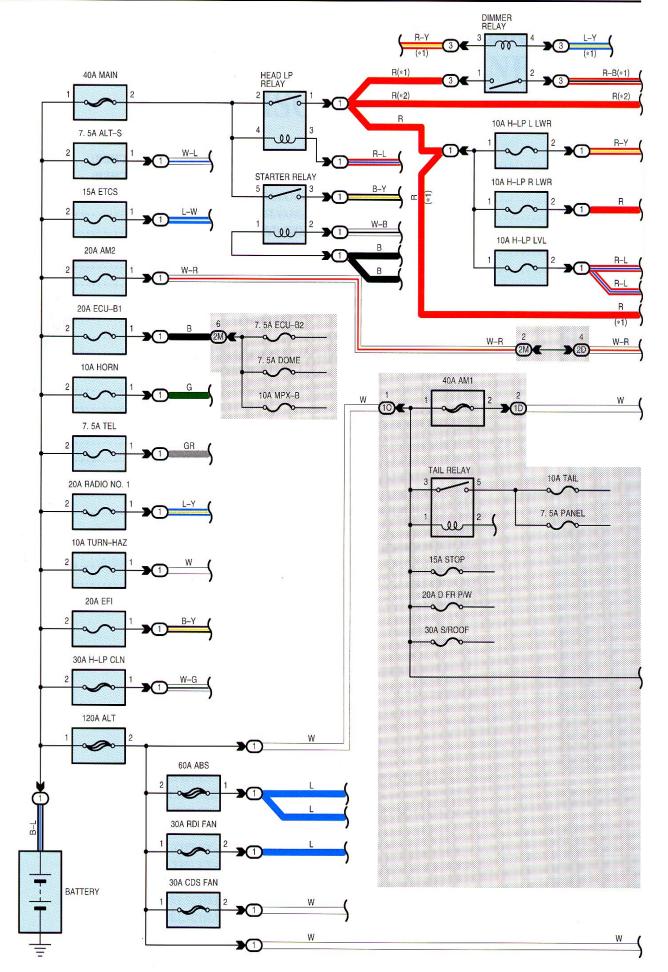
- 4 Ignition Coil and Igniter No.4 5 Ignition Coil and Igniter No.5 6 Ignition Coil and Igniter No.6
- 7 Injector No.1
- 8 Injector No.2
- 9 Injector No.3 I 10 Injector No.4
- I 11 Injector No.5
- I 12 Injector No.6
- I 13 Intake Air Temp. Sensor
- J 1 Junction Connector
- J 2 Junction Connector
- J 3 Junction Connector

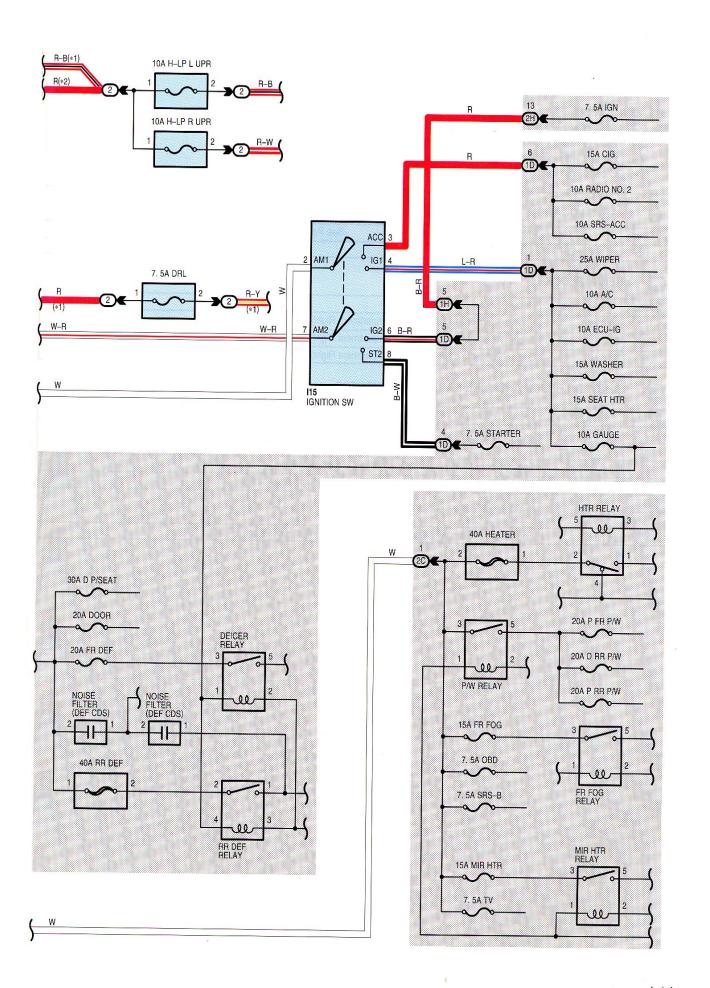
- K 1 Knock Sensor 1 K 2 Knock Sensor 2
- N 1 Neutral Start SW
- N 2 Noise Filter (Ignition)
- P 1 Power Steering Oil Pressure SW
- R 1 Radiator Fan Motor
- Speed Sensor (Combination Meter)
- S 2 Speed Sensor (Transmission Input)
- S 3 Speed Sensor (Transmission Output)
- S 4 Starter
- S 5 Starter
- T 1 Throttle Control Motor
- T 2 Throttle Position Sensor
- V 1 Vacuum Sensor
- V 2 VSV (ACIS)
- V 3 VSV (EVAP)
- W 1 Washer Motor
- W 2 Water Temp. Sensor W 3 Water Temp. SW

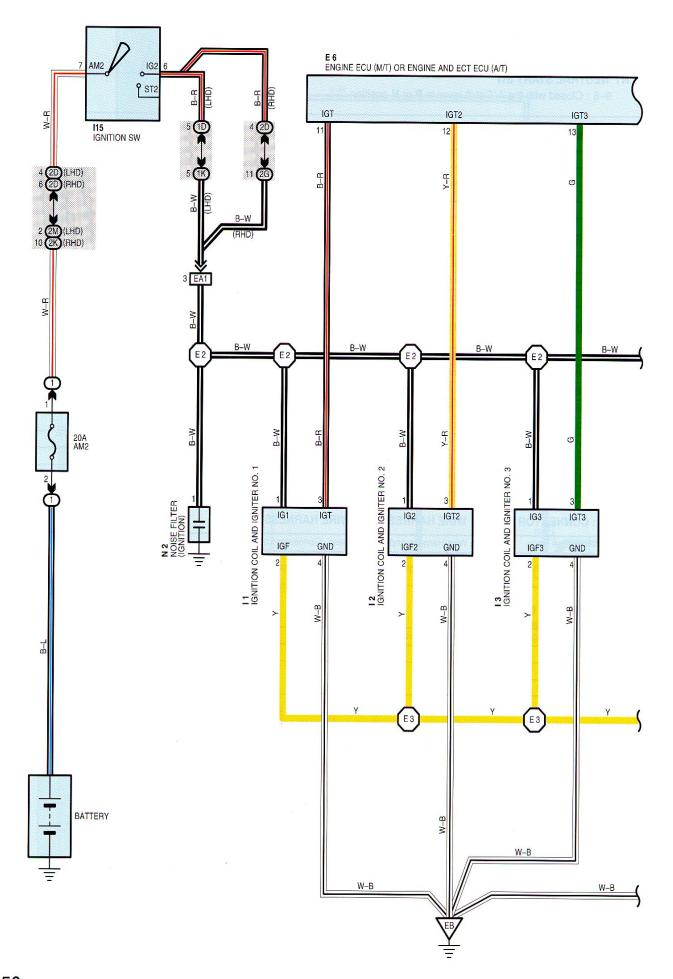
J 4 Junction Connector

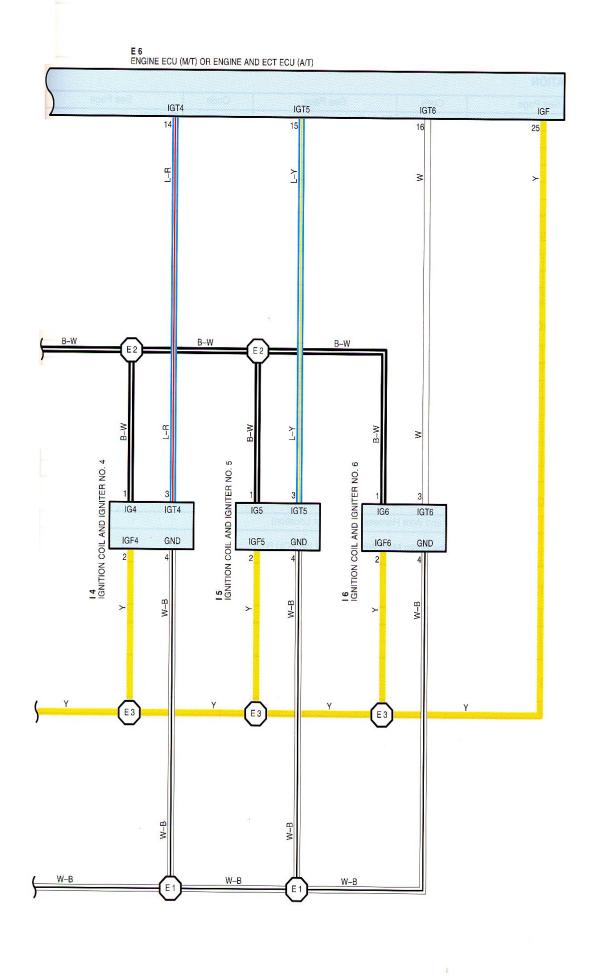
POWER SOURCE (LHD)

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









IGNITION

- SERVICE HINTS

115 IGNITION SW

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

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
E6	96 (LHD)	13	97 (LHD)	10	97 (LHD)
	104 (RHD)		105 (RHD)	- 16	105 (RHD)
	97 (LHD)	14	97 (LHD)	145	99 (LHD)
''	105 (RHD)	14	105 (RHD)	115	107 (RHD)
12	97 (LHD)	15	97 (LHD)	NO	97 (LHD)
,,,	105 (RHD)		105 (RHD)	N2	105 (RHD)

: RELAY BLOCKS

	Code	See Page	Relay Blocks (Relay Block Location)
ſ	1	80 (LHD)	Engine Room No.1 R/B (Engine Compartment Right)
	'	81 (RHD)	Engine Room No.1 R/B (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)	
1D	82 (LHD)	Instrument Panel Wire and Driver Side J/B (Left Kick Panel)	
1K	82 (LHD)	Engine Room Main Wire and Driver Side J/B (Left Kick Panel)	
2D	84 (LHD)	Instrument Panel Wire and Passenger Side J/B (Right Kick Panel)	
20	90 (RHD)	Instrument Panel Wire and Passenger Side J/B (Left Kick Panel)	
2G	90 (RHD)	Engine Room Main Wire and Passenger Side J/B (Left Kick Panel)	
2K	30 (I II ID)	Linguile noom ivially value and rassenger side 5/B (Leit Nick Pariet)	
2M	84 (LHD)	Engine Room Main Wire and Passenger Side J/B (Right Kick Panel)	

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

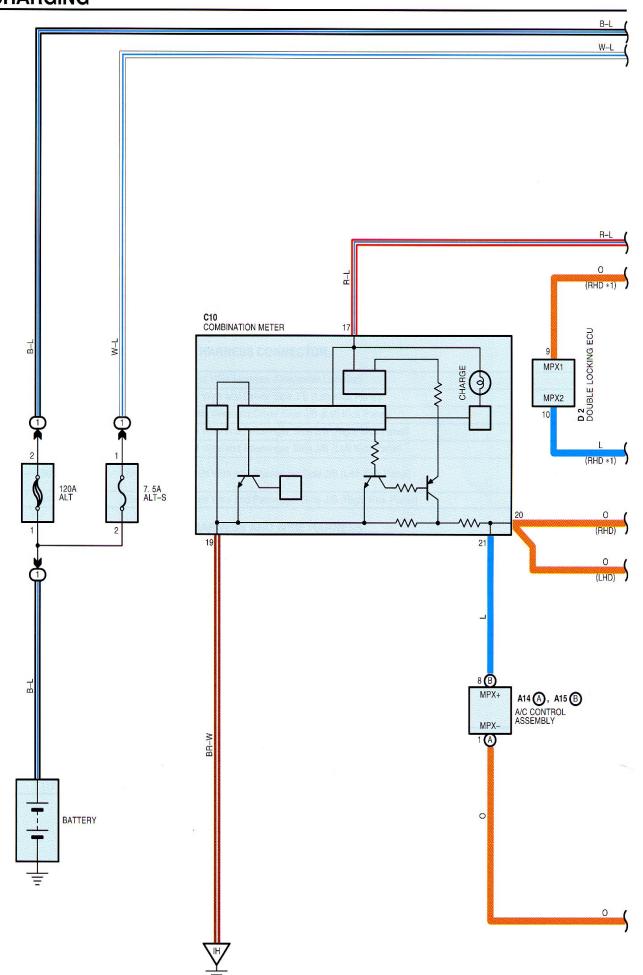
	Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
	EA1	112 (LHD)	Engine Wire and Engine Room Main Wire (Inside of the ECLI Box)
ĺ	LAI	Engine Wire and Engine Room Main Wire (Inside of the ECU Box)	Linguie valle and Engine Room Main valle (inside of the ECO Box)

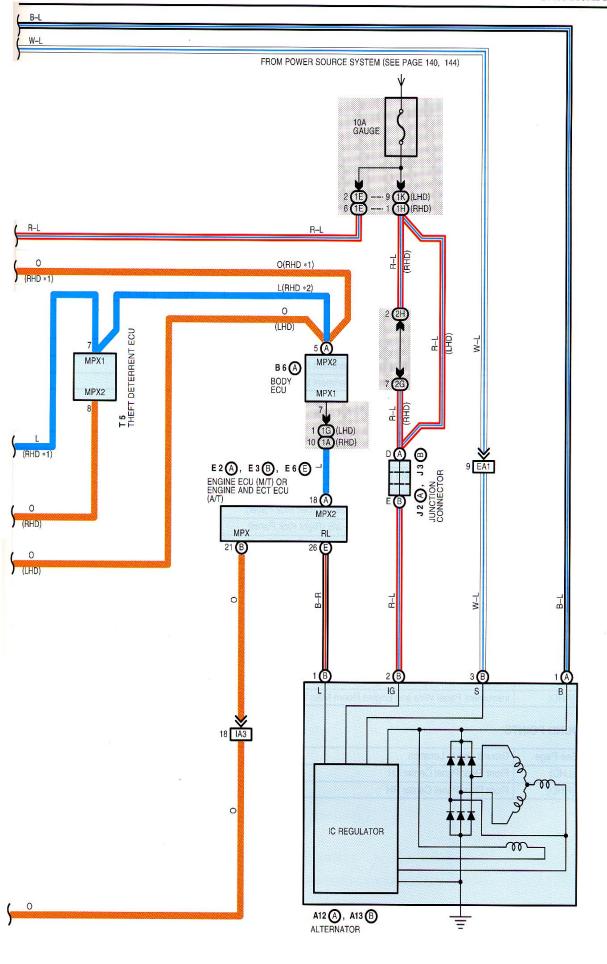
: GROUND POINTS

Code	See Page	Ground Points Location
EB	112 (LHD)	Rear Side of Cylinder Head
6	122 (RHD)	- Near Side of Cylinder Head

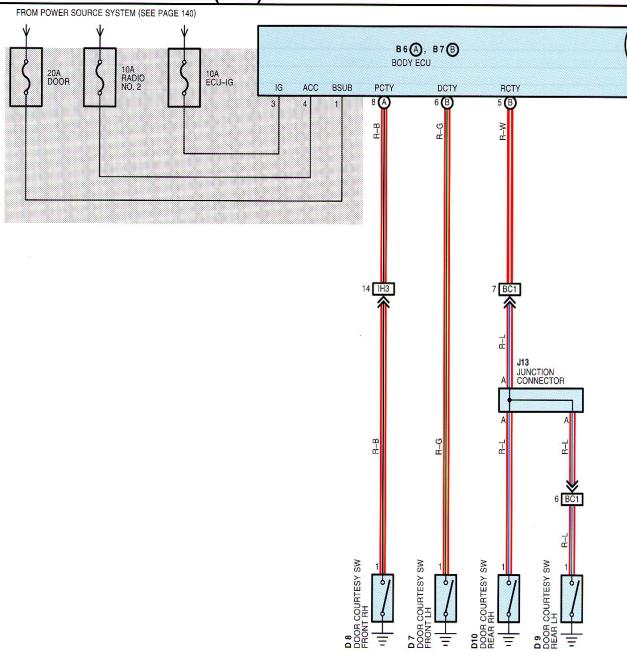
: SPLICE POINTS

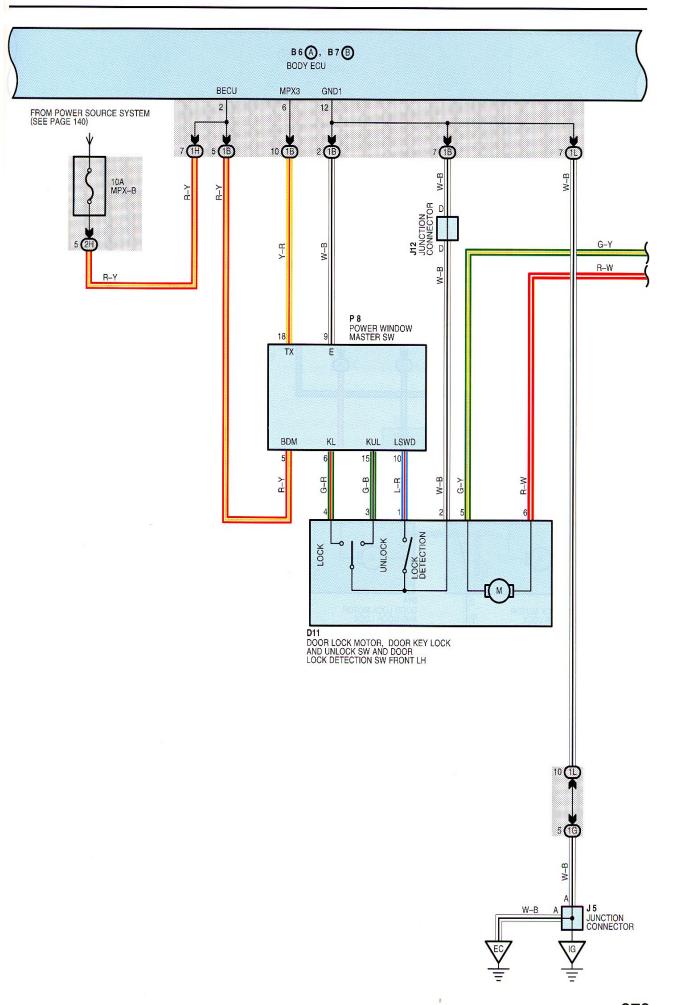
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	112 (LHD)		E2	122 (RHD)	
	122 (RHD)	Engine Wire	E3	112 (LHD)	Engine Wire
E2	112 (LHD)		=3	122 (RHD)	7

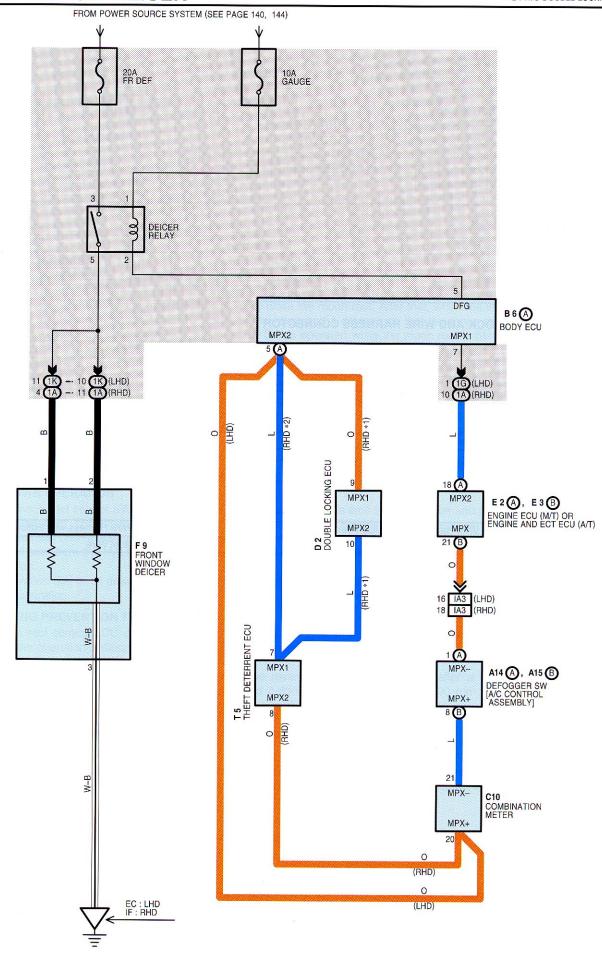




DOOR LOCK CONTROL (LHD)







- SERVICE HINTS

DEICER RELAY

3-5: Closed with ignition SW at ${
m ON}$ position and defogger SW [A/C control assembly] on

O : PARTS LOCATION

Code		See Page	Co	ode	See Page	See Page Co		See Page
A14 A		98 (LHD)		C10 98 (LHD)		E3	В	104 (RHD)
	106 (RHD)		10	106 (RHD)			96 (LHD)	
A15	В	98 (LHD))2	106 (RHD)	—	9	104 (RHD)
A13 B	"	106 (RHD)	F0		96 (LHD)	Т	5	107 (RHD)
Be	B6 A	98 (LHD)	E2	A	104 (RHD)			
БО		106 (RHD)	E3	В	96 (LHD)	-		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	88 (RHD)	Engine Room Main Wire and Driver Side J/B (Right Kick Panel)
1G	82 (LHD)	Engine Poom Main Wire and Driver Cide I/D (Left Viels Denet)
1K	02 (LI ID)	Engine Room Main Wire and Driver Side J/B (Left Kick Panel)

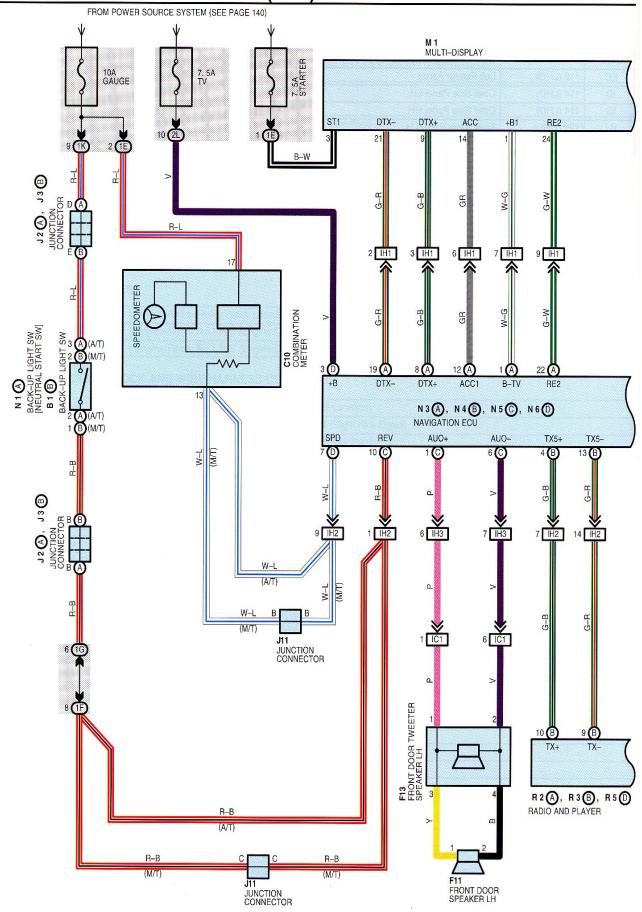
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

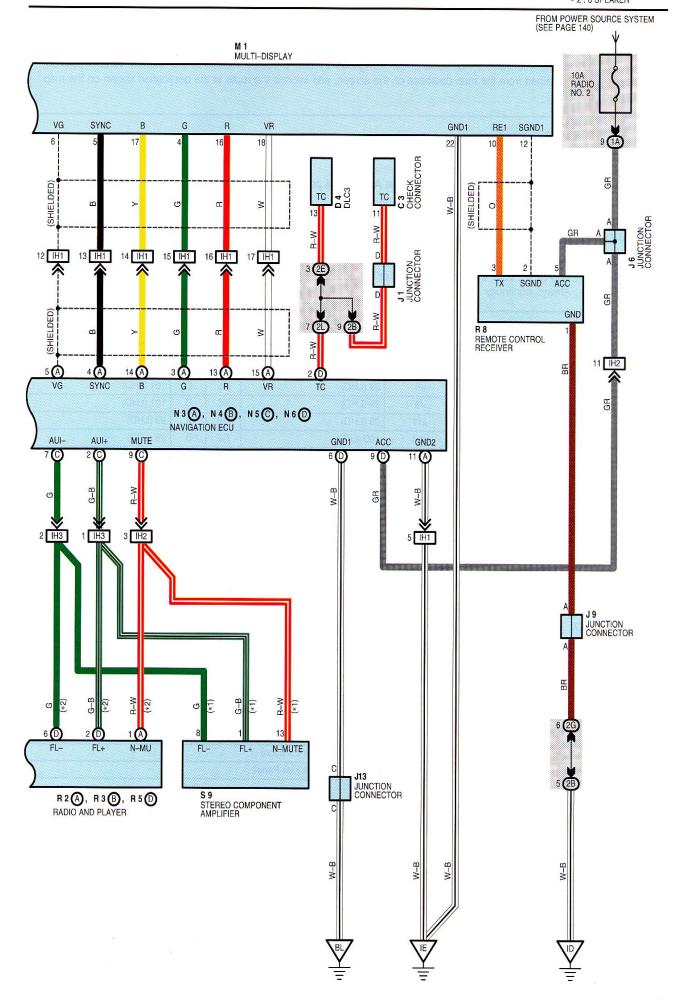
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA3	114 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Near the Driver Side J/B)
17.0	124 (RHD)	Instrument Panel Wire and Engine Room Main Wire (Near the Passenger Side J/B)

: GROUND POINTS

Code	See Page	Ground Points Location
EC	112 (LHD)	Left Fender Apron
IF	124 (RHD)	Cowl Side Panel RH







1 IS 200 (LHD) ELECTRICAL WIRING DIAGRAM Starting and Ignition Charging Power Source 3 2 W-L B-L IG1 IG2 Ф B-W 9 EA1 ₹ I15 □ IGNITION SW 10A GAUGE 7.6A STARTER To Engine ECU(M/T) or Engine and ECT ECU(A/T) <2-11> (TK) To Engine ECU(M/T) or Engine and ECT ECU(A/T) <2-10><2-11> 2 EA1 B-W I 1 1 IG1 IGNITION COIL . IGNITER NO. 1 B-W IGNITION COI I 2 T = I = I GNITION COIL / IGNITER NO. 2 \bigcirc 1 N 1 NEUTRAL START SW E 2(A), E 6(E) ENGINE ECU(M/T) OR ENGINE AND ECT ECU(A/T) N COIL NO. 3 N COIL IG5 IGT5 IGT6 IGT4 IG3 IGT3 IGT IG2 IGT2 GND GND GND IGF3 GND GND 8 EA1 JUNCTION CONNECTOR N 2 NOISE FILTER (Ignition) S4A, S5B STARTER \mathbb{H} W-B BATTERY A12(A), A13(B) W-B W-B ALTERNATOR Cowl side panel LH Rear side of cylinder head

