

SYSTEM OUTLINE

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

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

HOLDING MANUAL SW (DRIVER'S) ON "UP" POSITION LOCATED IN POWER WINDOW MASTER SW, THE CURRENT FLOWS TO **TERMINAL 5** OF THE POWER WINDOW CONTROL RELAY. THUS THE CURRENT INSIDE THE RELAY FLOWS FROM **TERMINAL 2** OF THE RELAY **TERMINAL 1 TERMINAL 2** OF THE POWER WINDOW MOTOR \rightarrow **TERMINAL 1 TERMINAL 4** OF THE RELAY **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 \rightarrow **TERMINAL 8** AND 9 TO OPERATE THE RELAY. THUS THE CURRENT INSIDE THE POWER WINDOW CONTROL RELAY FLOWS FROM **TERMINAL 2** OF THE RELAY \rightarrow **TERMINAL 4** \rightarrow **TERMINAL 1** OF THE POWER WINDOW MOTOR \rightarrow **TERMINAL 2** \rightarrow **TERMINAL 1** OF THE RELAY \rightarrow **TERMINAL 3** \rightarrow TO **GROUND**. THE MOTOR CONTINUES THE ROTATION ENABLING TO DESCENT THE WINDOW.

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

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

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

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

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

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

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



SERVICE HINTS

P 2 POWER WINDOW CONTROL RELAY

3-GROUND: ALWAYS CONTINUITY

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

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

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

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

P 4 POWER WINDOW MASTER SW

4-GROUND: ALWAYS CONTINUITY

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

WINDOW LOCK SW

OPEN WITH THE WINDOW LOCK SW AT LOCK POSITION



: PARTS LOCATION

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



: RELAY BLOCKS

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



: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

ŀ	CODE	4.4	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION) J/B NO. 3 AND COWL WIRE (INSTRUMENT PANEL LEFT SIDE)
Į	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)
Ī	IH1	26	FRONT DOOR LH WIRE AND COWL WIRE (LEFT KICK PANEL)



: GROUND POINTS

CODE	SEE PAGE	GROUND POINT LOCATION
IC	24	COWL LEFT

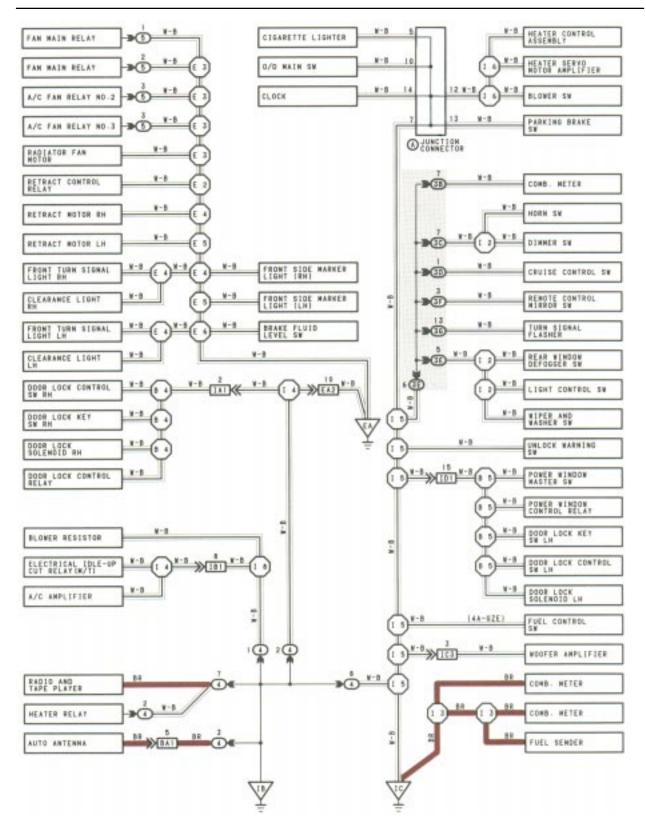


: SPLICE POINTS

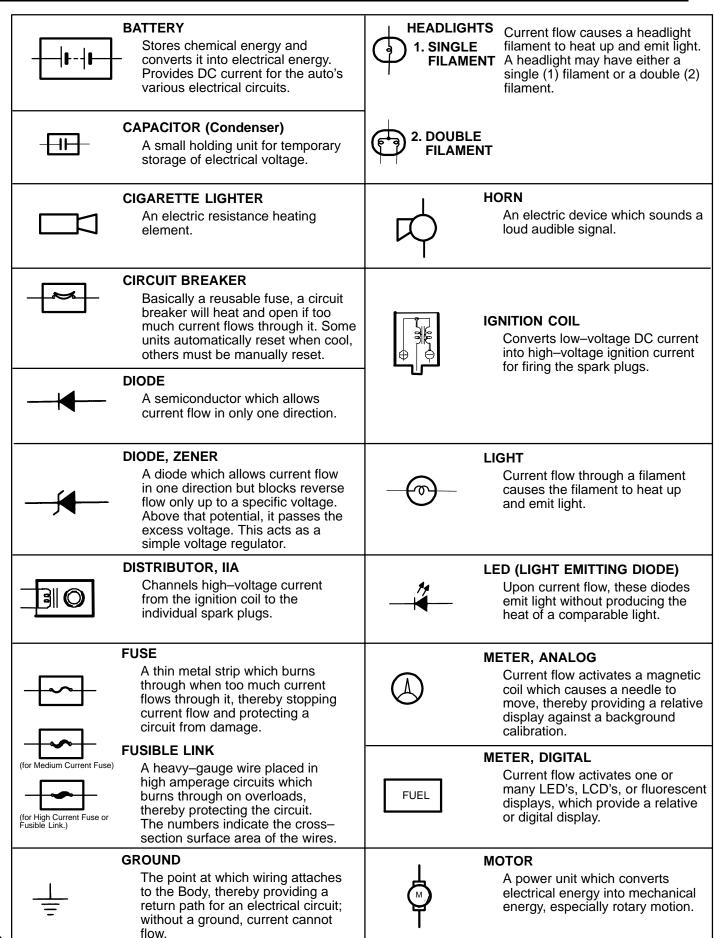
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
15	24	COWL WIRE

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.

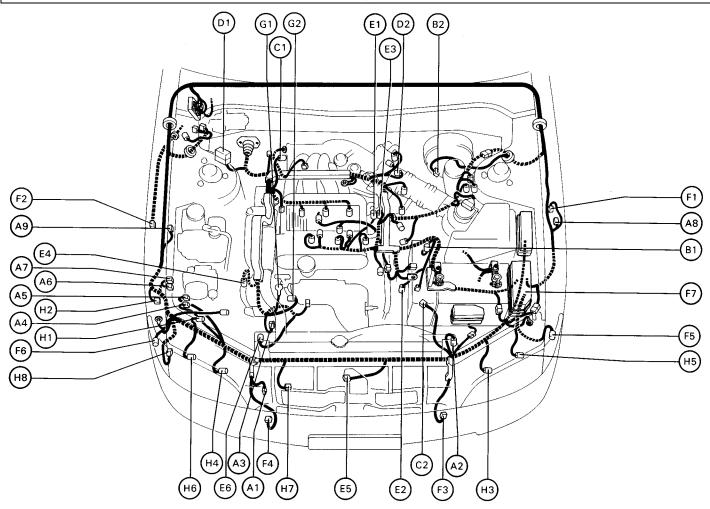
GROUND POINT



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



Position of Parts in Engine Compartment



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

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

POWER SOURCE (Current Flow Chart)

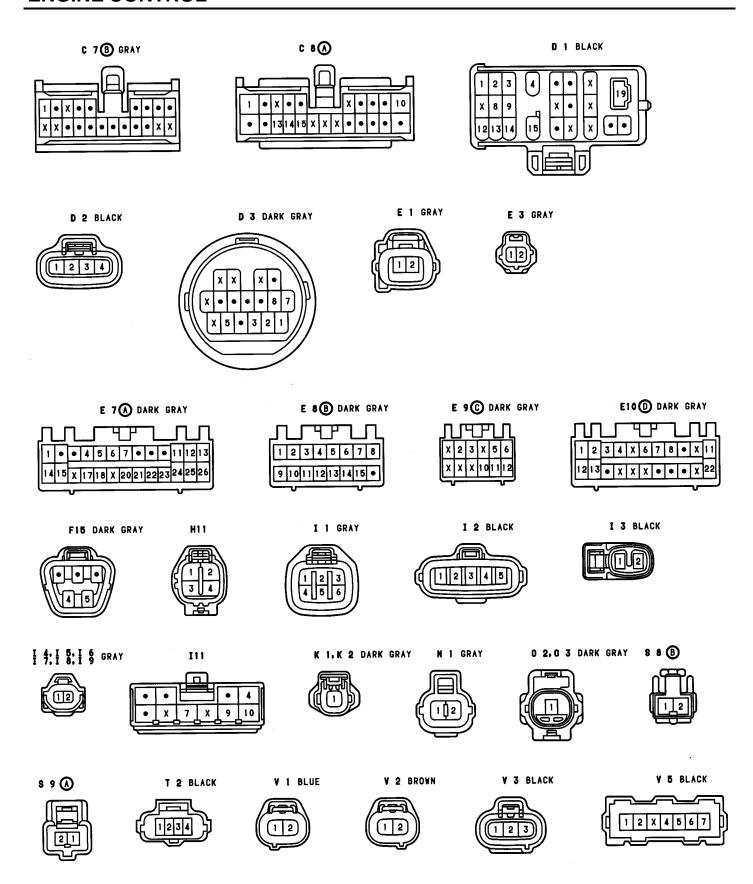
	*Page Nos. of Related Systems Parts Code or Location		198	1	58	170 198	94 169 198	198	15	58	198	182	106	192	198	60	163	94 169	158	150	64	192	86	163
Location			A/C Magnetic Clutch and Lock Sensor	ABS Actuator	ABS Relay	A/C Control Assembly		A/C Power Transistor	ABS ECU		Air Vent Mode Control Servo Motor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

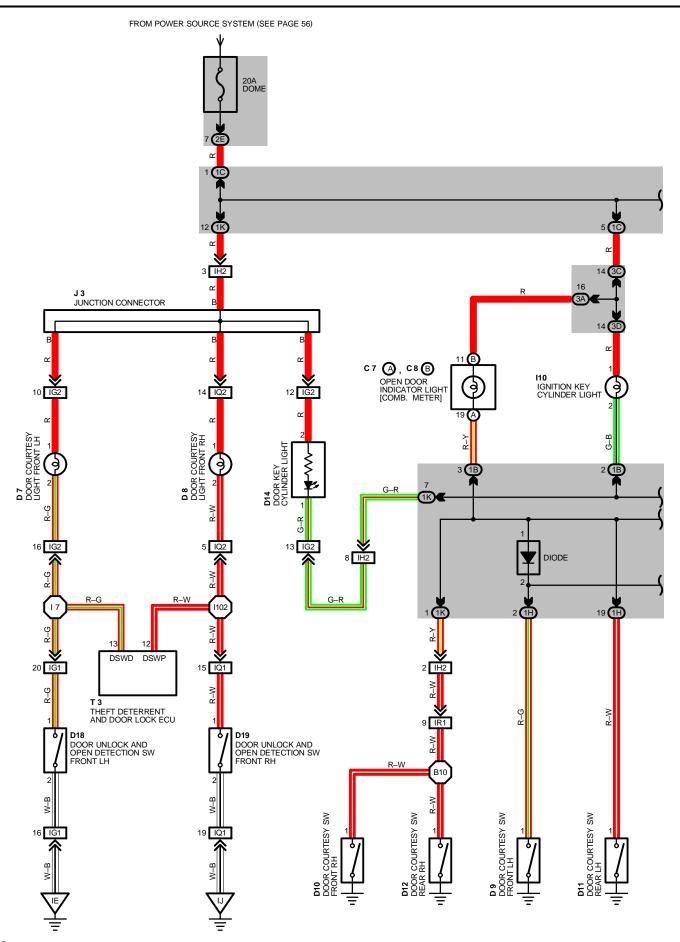
^{*} These are the page numbers of the first page on which the related system is shown.

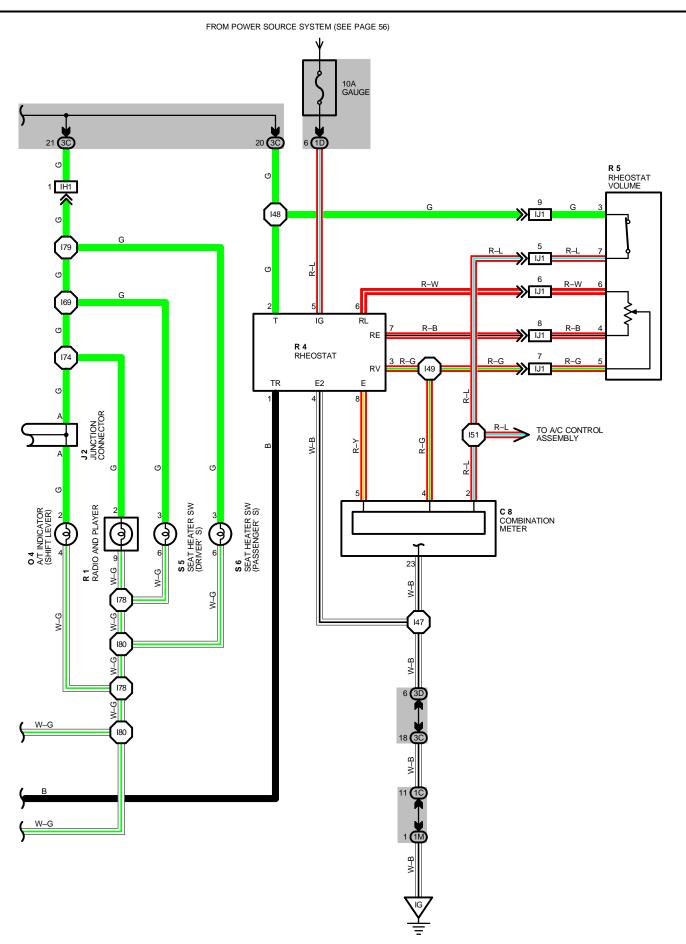
The part indicated is located somewhere in the system, not necessarily on the page indicated here.

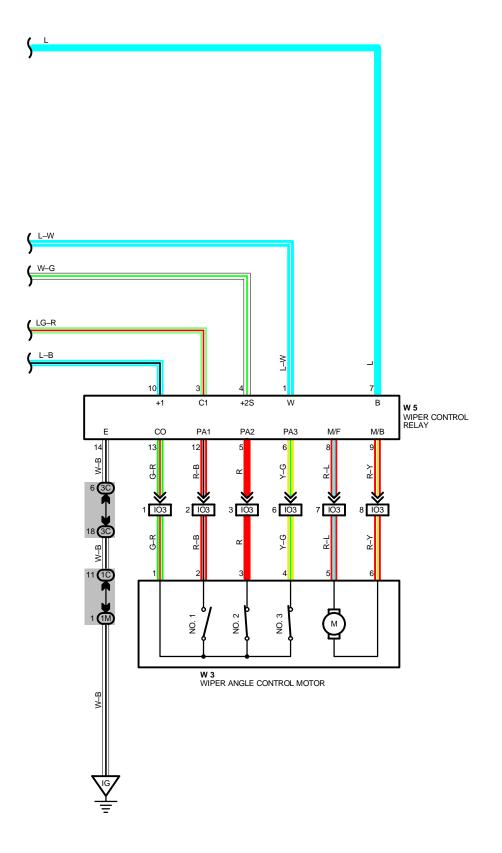
[LOCATION] (1) : J/B No. 1 (See page 20) (2) : J/B No. 2 (See page 22) (3) : R/B No. 1 (See page 25)

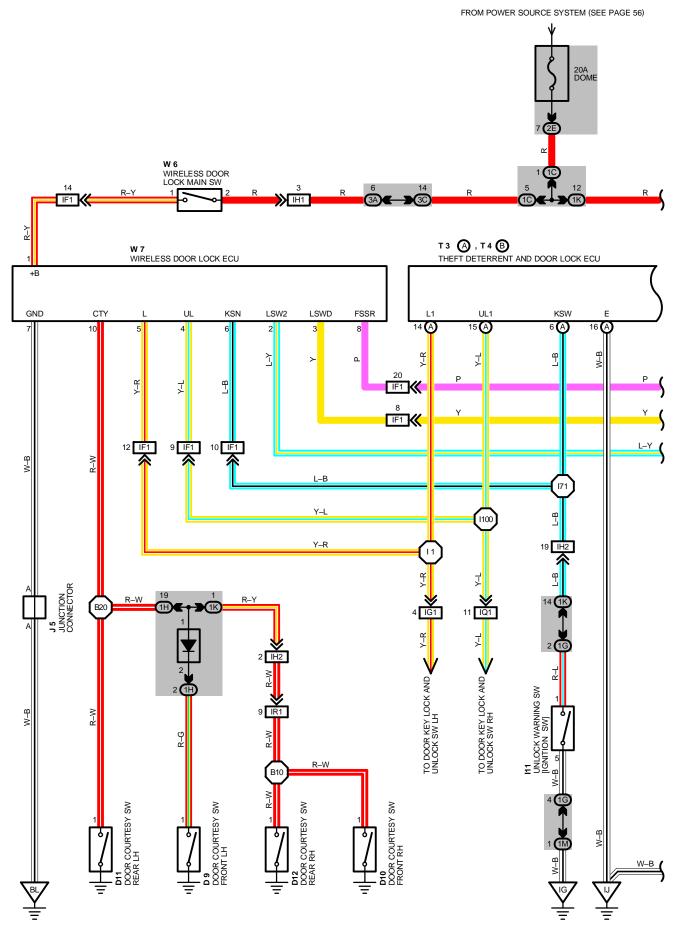
(7) : R/B No. 7 (See page 27) (8) : Fuse Box (F7 See on page 28)

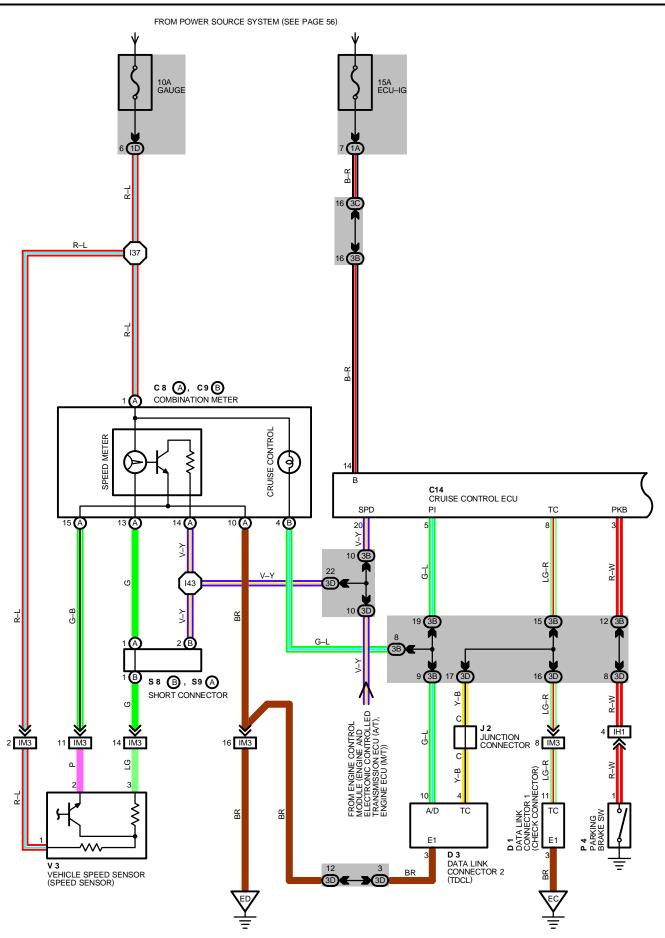










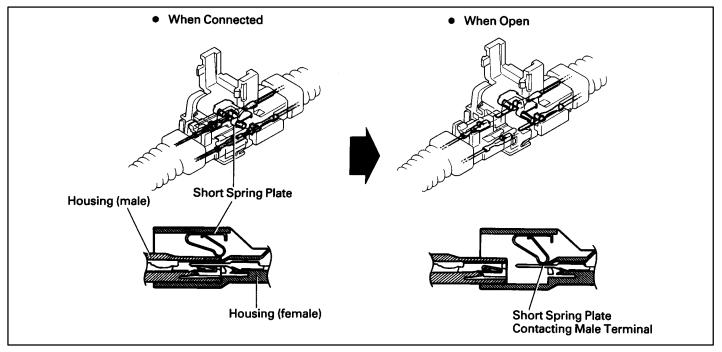


SRS (SUPPLEMENTAL RESTRAINT SYSTEM)

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

1. SRS ACTIVATION PREVENTION MECHANISM

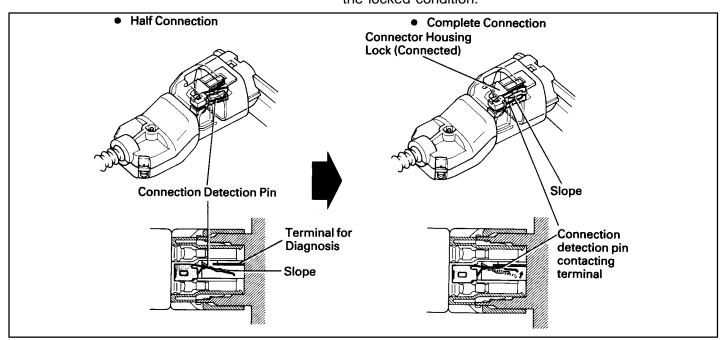
Each connector contains a short spring plate. When the connector is disconnected, the short spring plate automatically connects the power source and grounding terminals of the squib to preclude a potential difference between the terminals.

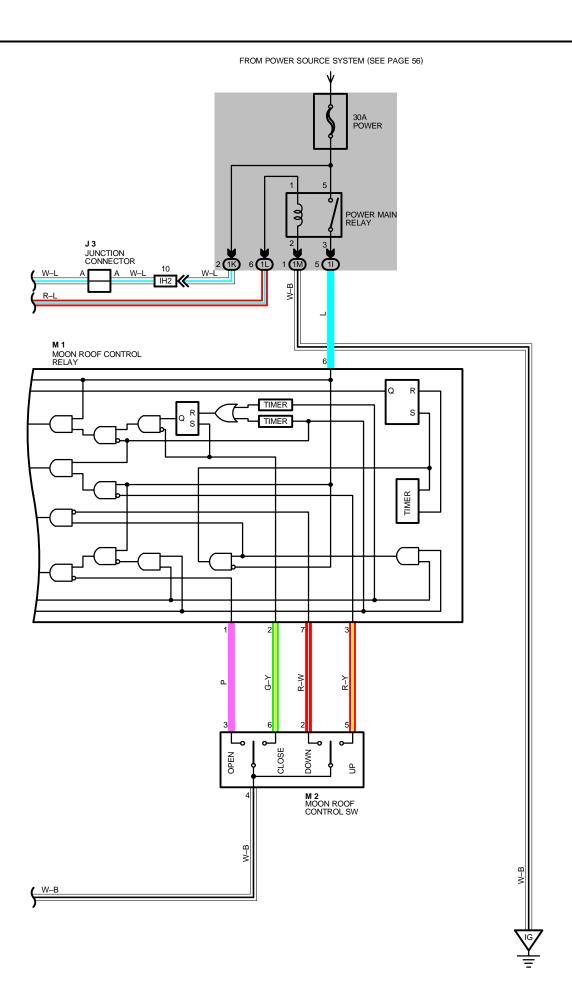


2. ELECTRICAL CONNECTION CHECK MECHANISM

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

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





RADIO AND PLAYER (w/o CD CHANGER)

