

2004 ELECTRICAL**Fuses & Circuit Breakers - RAV4****IDENTIFICATION**

WARNING: Vehicle is equipped with air bag supplemental restraint system. Before attempting ANY repairs involving steering column, instrument panel or related components, see **SERVICE PRECAUTIONS and DISABLING & ACTIVATING AIR BAG SYSTEM** in **TOYOTA - AIR BAG RESTRAINT SYSTEMS** article.

CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See appropriate section under appropriate **COMPUTER RELEARN PROCEDURES** article in **GENERAL INFORMATION** before disconnecting battery.

ENGINE ROOM JUNCTION & RELAY BLOCKS

NOTE: Numerous junction, relay and fusible link blocks are located in the engine room. See **Fig. 1** For identification of current flow, see **Fig. 2** .

Component Location

- Anti-lock Brake System (ABS) relay block is located at left side of engine room. See **Fig. 1** . ABS relay block contains fuses and relays. For identification of ABS relay block components, see **Fig. 3** . For identification of ABS relay block fuse components, see **Fig. 3** . The ABS relay block is the connection point for various wiring harnesses. For wiring diagrams of ABS relay block circuit components, see appropriate **SYSTEM WIRING DIAGRAMS** article in **ELECTRICAL**.
- Engine room fusible link block is located at right rear of engine room. See **Fig. 1** . Engine room fusible link block contains fuses. For identification of engine room fusible link block fuse components, see **Fig. 4** . The engine room fusible link block is the connection point for various wiring harnesses. For wiring diagrams of engine room fusible link block circuit components, see appropriate **SYSTEM WIRING DIAGRAMS** article in **ELECTRICAL**.
- Engine room junction block is located at left side of engine room. See **Fig. 1** . For identification of engine room junction block components, see **Fig. 5** . Engine room junction block contains relays and fuses. For identification of engine room junction block fuse components, see **Fig. 6** . The engine room junction block is the connection point for various wiring harnesses. For wiring diagrams of engine room junction block circuit components, see appropriate **SYSTEM WIRING DIAGRAMS** article in **ELECTRICAL**.
- Engine room relay block is located at left side of engine room. See **Fig. 1** . Engine room relay block contains fuses and relays. For identification of relay block components, see **Fig. 7** . For identification of engine room relay block fuse components, see **Fig. 8** . The engine room relay block is the connection point for various wiring harnesses. For wiring diagrams of engine room relay block circuit components, see appropriate **SYSTEM WIRING DIAGRAMS** article in **ELECTRICAL**.

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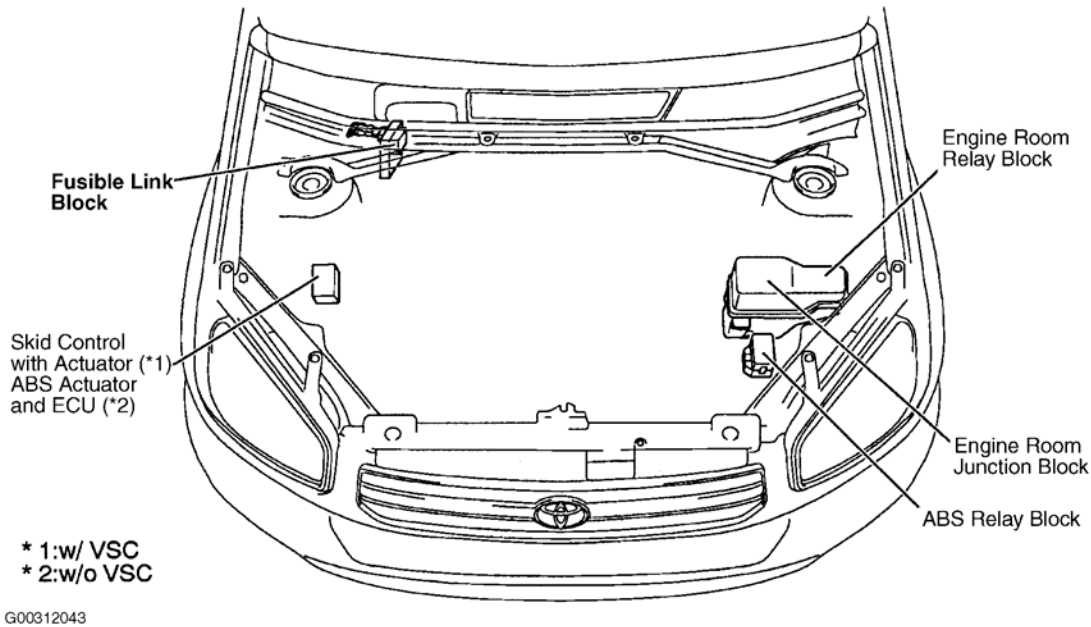


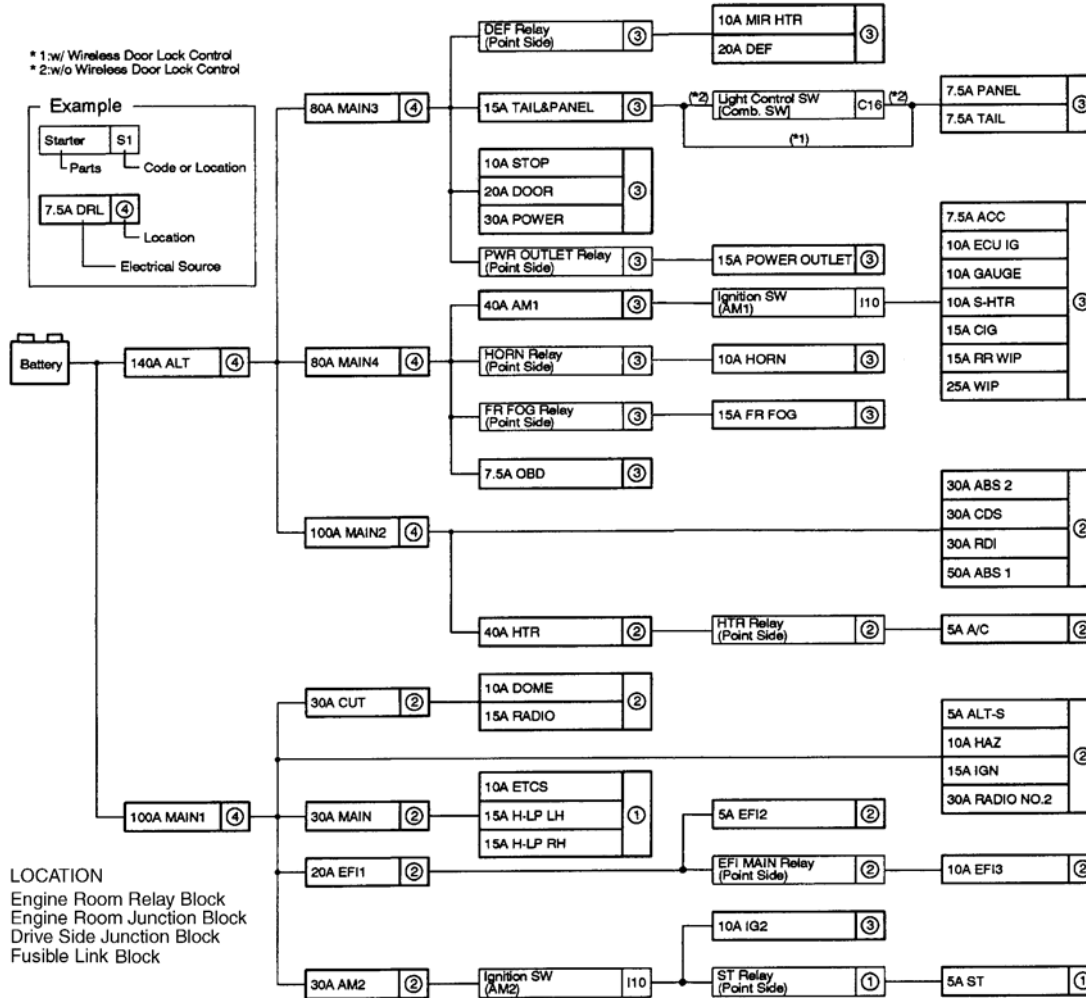
Fig. 1: Locating Engine Room Fusible Link, Junction & Relay Blocks
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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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.



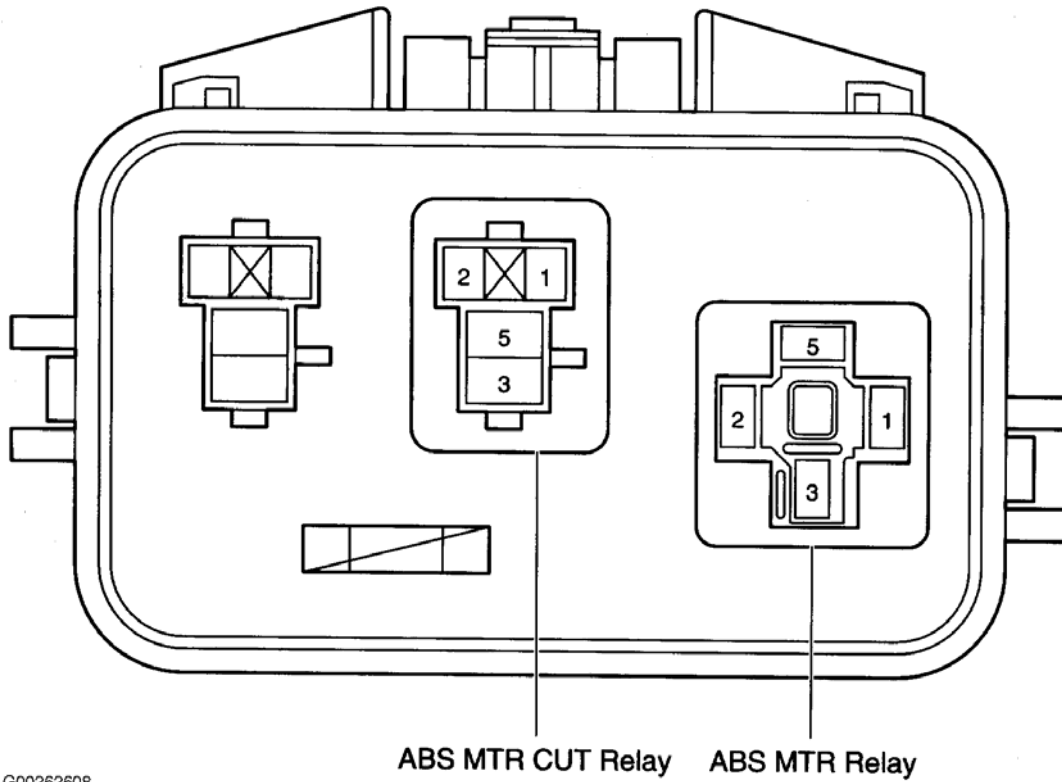
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Fig. 2: Current Flow Chart

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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Fig. 3: ABS Relay Block Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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FUSE COMPONENTS

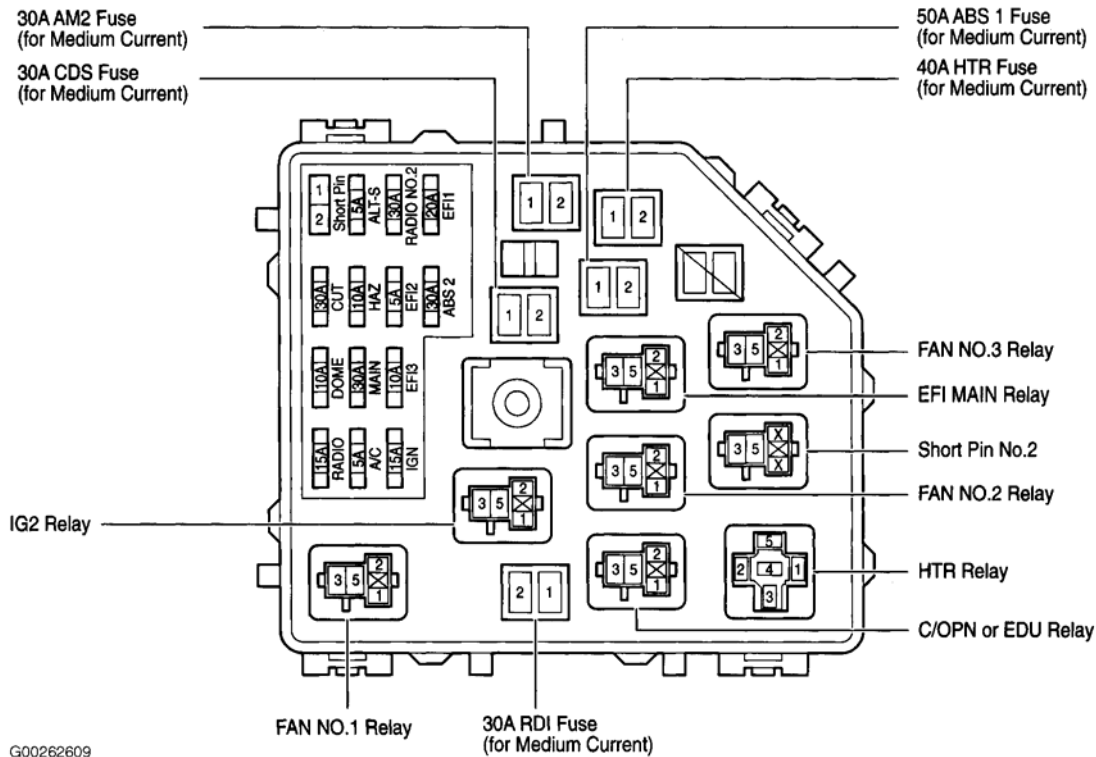
Fuse		System
80A	MAIN3	Front Fog Light Rear Window Defogger and Mirror Heater
80A	MAIN4	Front Fog Light Horn Rear Window Defogger and Mirror Heater Wireless Door Lock Control
100A	MAIN1	Electronically Controlled Transmission and A/T Indicator Engine Control Starting and Ignition
140A	ALT	Charging Front Fog Light Horn Rear Window Defogger and Mirror Heater Wireless Door Lock Control

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Fig. 4: Identifying Fusible Link Block Fuse Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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Fig. 5: Identifying Engine Room Junction Block Components
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Engine Room Junction Block Fuse Components

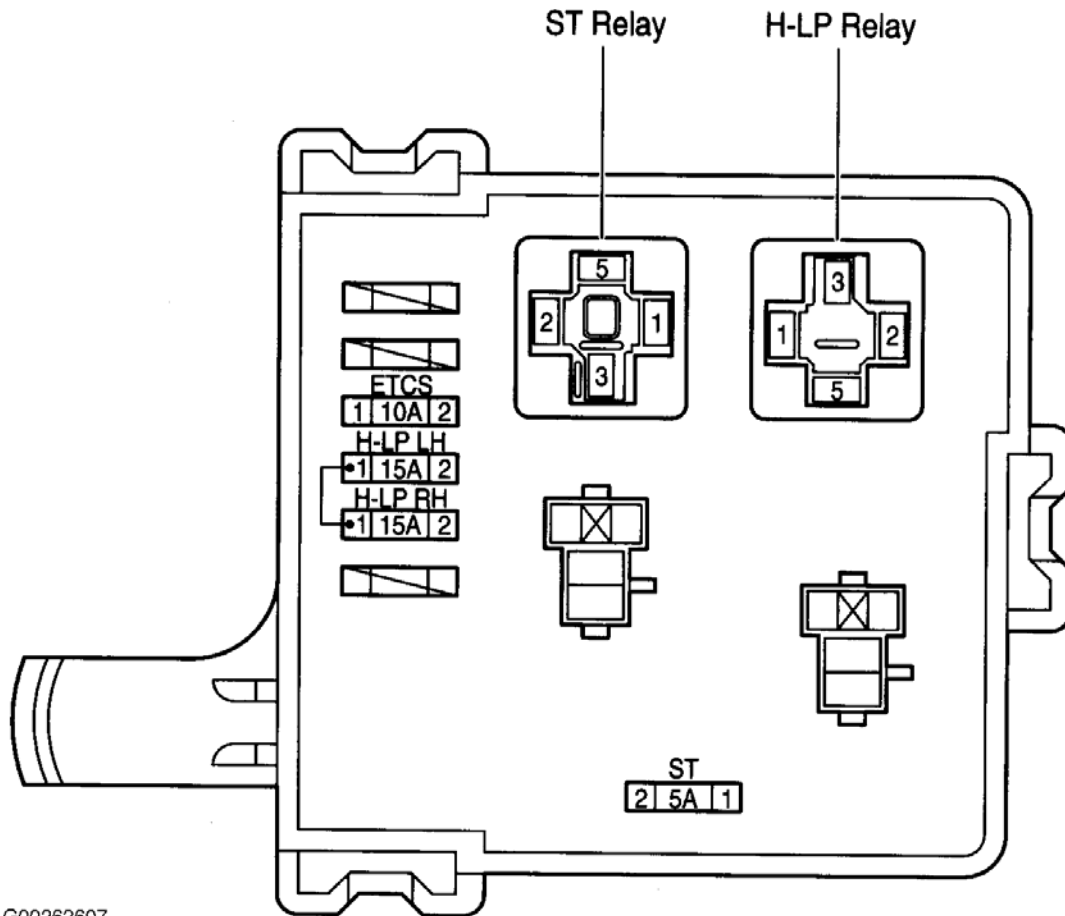
Fuse		System
5A	A/C	Air Conditioning
5A	ALT-S	Charging
5A	EFI2	Cruise Control Electronically Controlled Transmission and A/T Indicator Engine Control
10A	DOME	Clock Combination Meter Door Lock Control Engine Immobiliser System Garage Door Opener Headlight Illumination Interior Light Key Reminder and Light Reminder Buzzer Moon Roof Multiplex Communication System (CAN) Power Window Seat Belt Warning Taillight VSC and Tire Pressure Warning System (w/ VSC) Wireless Door Lock Control
10A	EFI3	Engine Control
10A	HAZ	Turn Signal and Hazard Warning Light
15A	IGN	Engine Control Starting and Ignition
15A	RADIO	Radio and Player (Except JBL) Radio and Player (JBL)
20A	EFI1	Cruise Control Electronically Controlled Transmission and A/T Indicator Engine Control
30A	ABS 2	ABS and Tire Pressure Warning System (w/o VSC) VSC and Tire Pressure Warning System (w/ VSC)
30A	AM2	Electronically Controlled Transmission and A/T Indicator Engine Control Starting and Ignition
30A	CDS	Radiator Fan and Condenser Fan
30A	RADIO NO.2	Radio and Player (JBL)
30A	RDI	Radiator Fan and Condenser Fan
40A	HTR	Air Conditioning
50A	ABS 1	ABS and Tire Pressure Warning System (w/o VSC) VSC and Tire Pressure Warning System (w/ VSC)

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Fig. 6: Identifying Engine Room Junction Block Fuse Components
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Fig. 7: Identifying Engine Room Relay Block Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Engine Room Relay Block Fuse Components

Fuse		System
5A	ST	Electronically Controlled Transmission and A/T Indicator Engine Control Starting and Ignition
10A	ETCS	Cruise Control Electronically Controlled Transmission and A/T Indicator Engine Control
15A	H-LP LH	Headlight
15A	H-LP RH	Headlight

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Fig. 8: Identifying Engine Room Relay Block Fuse Components

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTRUMENT PANEL JUNCTION & RELAY BLOCKS

NOTE: Numerous junction, relay and fusible link blocks are located in the instrument panel and passenger room area. See [Fig. 9](#) . For identification of current flow, see [Fig. 2](#) .

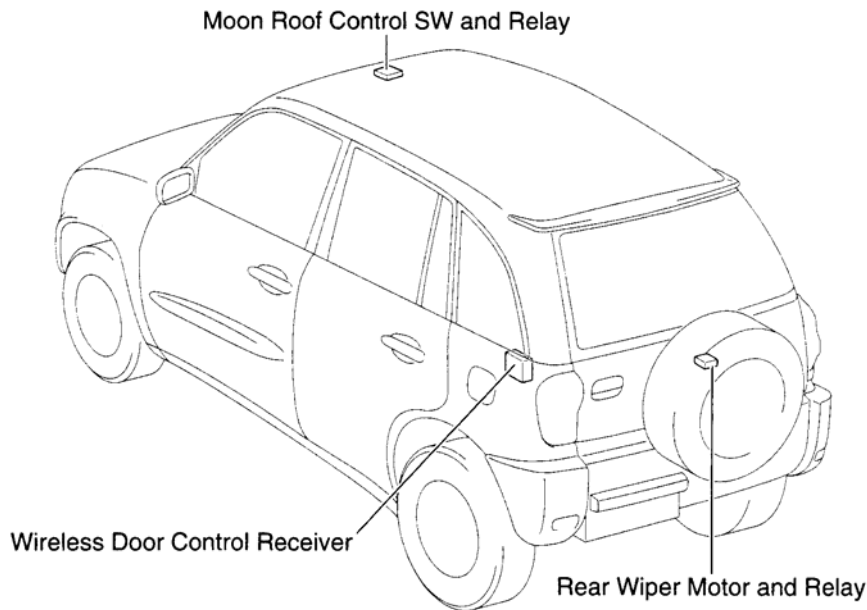
Component Location

- The drivers side junction block is located behind left side of dash. See [Fig. 9](#) . For identification of drivers side junction block components, see [Fig. 10](#) and [Fig. 11](#) . The drivers side junction block contains fuses, and relays. For drivers side junction block fuse components, see [Fig. 12](#) , [Fig. 13](#) and [Fig. 14](#) . The drivers side junction block is the connection point for various wiring harnesses. For wiring diagrams of drivers side junction block circuit components, see appropriate SYSTEM WIRING DIAGRAMS article in ELECTRICAL.
- The moon roof control relay is located above headliner on top front center of roof. See [Fig. 9](#) . For wiring diagram of moon roof control relay circuit components, see POWER TOP/SUNROOF in SYSTEM WIRING DIAGRAMS article in ELECTRICAL.
- The rear wiper motor and relay is located on the tailgate. See [Fig. 9](#) . For wiring diagram of rear wiper motor and relay circuit components, see WIPER/WASHER in SYSTEM WIRING DIAGRAMS article in ELECTRICAL.
- The tail light relay is located behind left side of dash, right of steering column. See [Fig. 9](#) . For wiring diagram of tail light relay circuit components, see EXTERIOR LIGHTS in SYSTEM WIRING DIAGRAMS article in ELECTRICAL.
- The turn signal flasher relay is located behind left side of dash, right of steering column. See [Fig. 9](#) . For wiring diagram of turn signal flasher relay circuit components, see EXTERIOR LIGHTS in SYSTEM

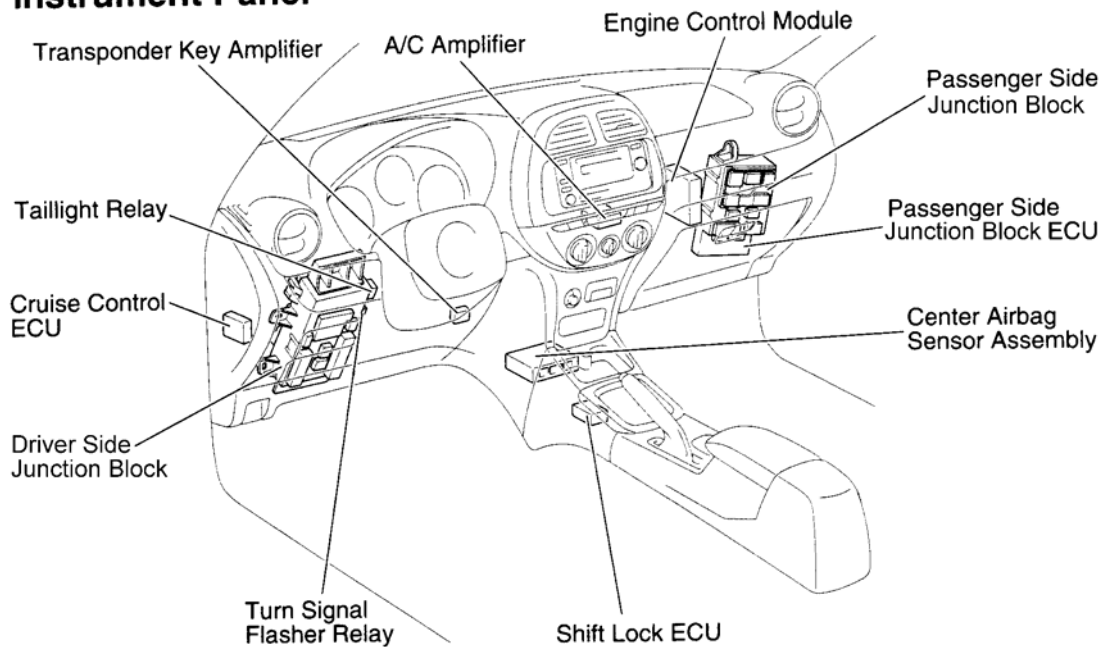
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WIRING DIAGRAMS article in ELECTRICAL.



Instrument Panel

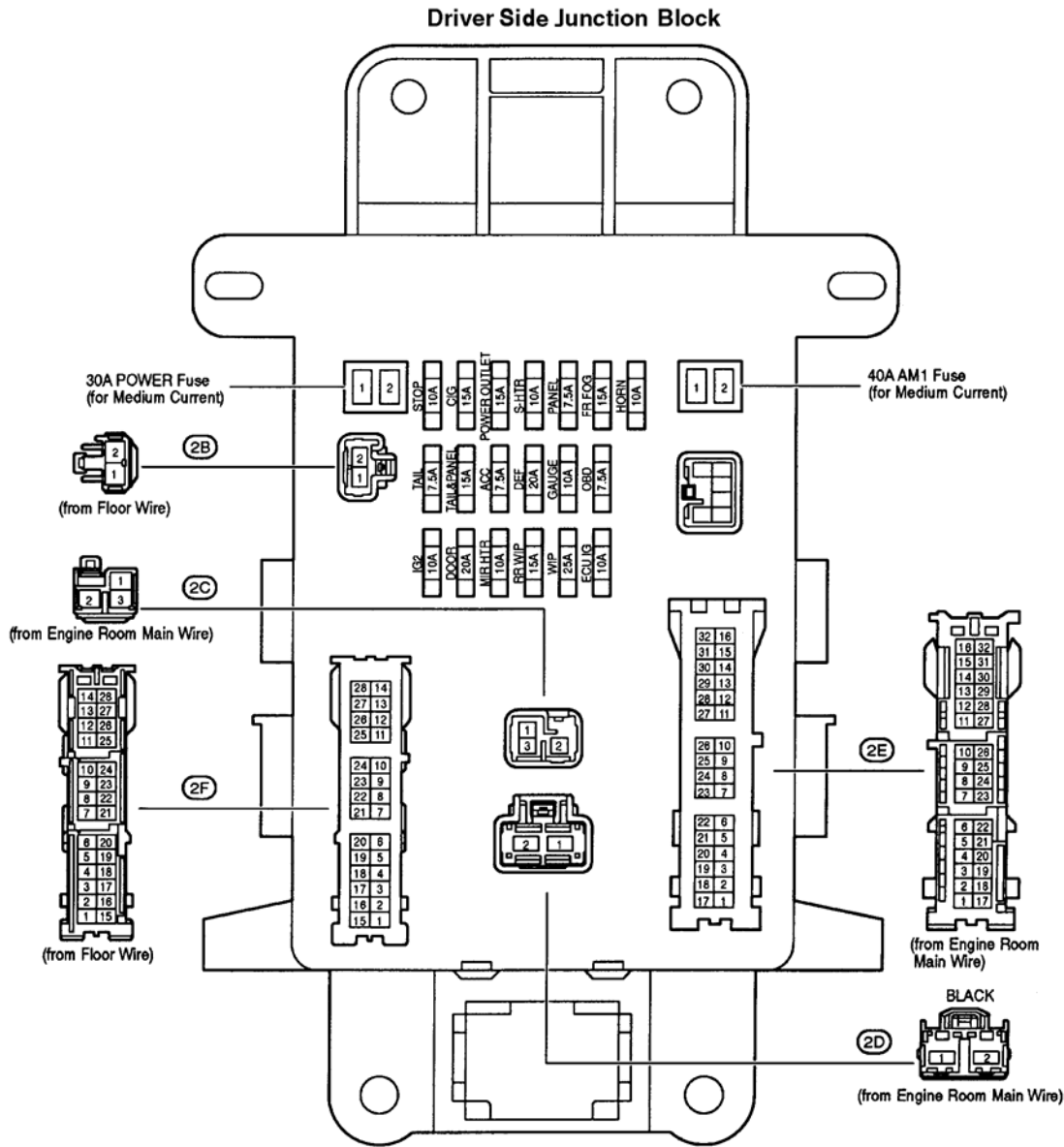


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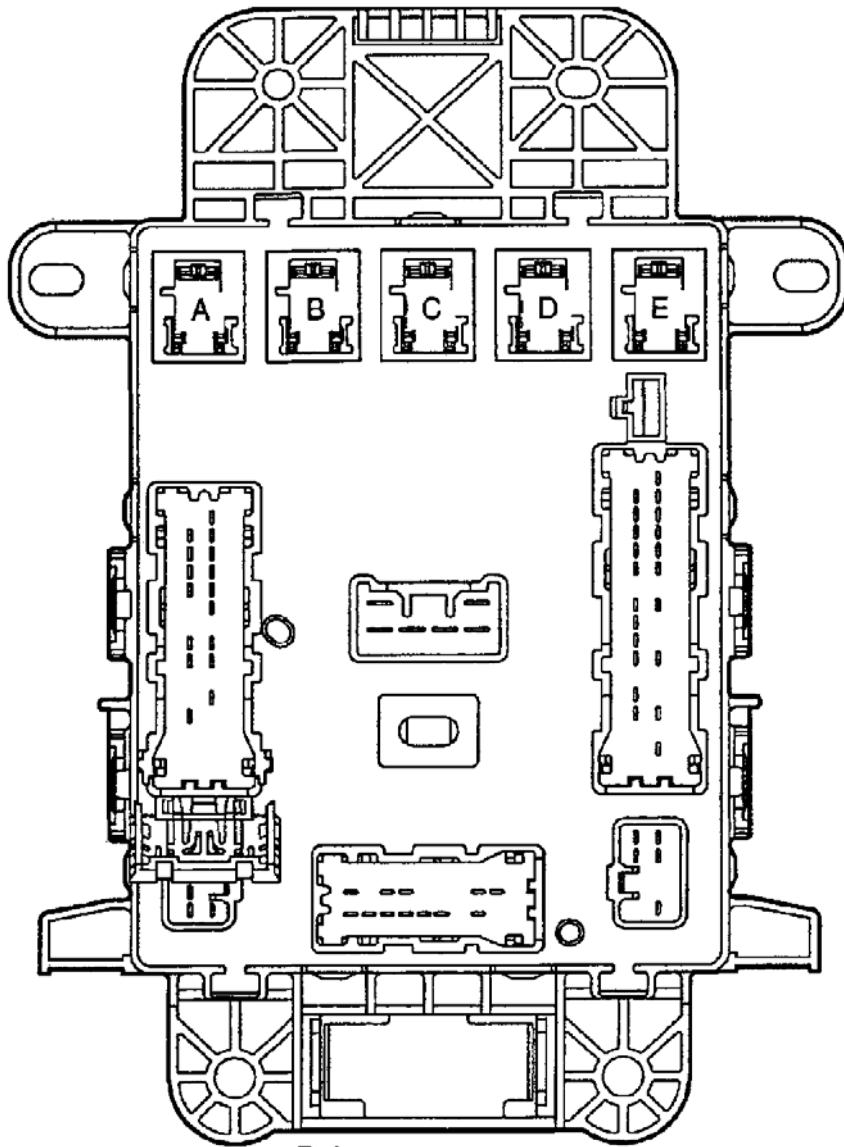
Fig. 9: Locating Passenger Room Fuse, Relay & Junction Blocks
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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Driver Side Junction Block (Rear View)



Relays

- A. Horn Relay
- B. Front Fog Light Relay
- C. Defogger Relay
- D. Power Outlet Relay
- E. Power Relay

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Fig. 11: Identifying Drivers Side Junction Block Components - Rear View
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Driver Side Junction Block Fuse Components Part 1

Fuse		System
7.5A	ACC	Air Conditioning Clock Door Lock Control Interior Light Radio and Player (Except JBL) Radio and Player (JBL) Remote Control Mirror Shift Lock Wireless Door Lock Control
7.5A	OBD	Engine Control
7.5A	PANEL	Air Conditioning Clock Combination Meter Front Fog Light Illumination Key Reminder and Light Reminder Buzzer Rear Window Defogger and Mirror Heater Taillight
7.5A	TAIL	Engine Control Taillight
10A	ECU IG	ABS and Tire Pressure Warning System (w/o VSC) Air Conditioning Automatic Glare-Resistant EC Mirror Combination Meter Cruise Control Engine Control Key Reminder and Light Reminder Buzzer Multiplex Communication System (CAN) Power Window Rear Window Defogger and Mirror Heater

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Fig. 12: Identifying Drivers Side Junction Block Fuse Components (1 Of 3)
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Driver Side Junction Block Fuse Components Part 2

Fuse		System
10A	ECU IG	Seat Belt Warning
		Shift Lock
		SRS
		Turn Signal and Hazard Warning Light
		VSC and Tire Pressure Warning System (w/ VSC)
10A	GAUGE	ABS and Tire Pressure Warning System (w/o VSC)
		Air Conditioning
		Back-Up Light
		Charging
		Combination Meter
		Cruise Control
		Door Lock Control
		Electronically Controlled Transmission and A/T Indicator
		Engine Control
		Headlight
		Illumination
		Interior Light
		Moon Roof
		Power Window
		Radiator Fan and Condenser Fan
		Taillight
		VSC and Tire Pressure Warning System (w/ VSC)
		Wireless Door Lock Control
10A	HORN	Horn
10A	IG2	ABS and Tire Pressure Warning System (w/o VSC)
		Charging
		Combination Meter
		Cruise Control
		Electronically Controlled Transmission and A/T Indicator
		Engine Control
		Engine Immobiliser System
		SRS
10A	MIR HT	Starting and Ignition
		VSC and Tire Pressure Warning System (w/ VSC)
10A	S-HTR	Rear Window Defogger and Mirror Heater
10A	S-HTR	Seat Heater
10A	STOP	ABS and Tire Pressure Warning System (w/o VSC)
		Cruise Control
		Electronically Controlled Transmission and A/T Indicator
		Engine Control
		Shift Lock
		Stop Light
15A	CIG	VSC and Tire Pressure Warning System (w/ VSC)
		Cigarette Lighter

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Fig. 13: Identifying Drivers Side Junction Block Fuse Components (2 Of 3)

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Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Drivers Side Junction Block Fuse Components Part 3

Fuse		System
15A	FR FOG	Front Fog Light
15A	POWER OUTLET	Power Outlet
15A	RR WIP	Rear Wiper and Washer
15A	TAIL & PANEL	Air Conditioning Clock Front Fog Light Illumination Key Reminder and Light Reminder Buzzer Rear Window Defogger and Mirror Heater Taillight
20A	DEF	Engine Control Rear Window Defogger and Mirror Heater
20A	DOOR	Door Lock Control Interior Light Moon Roof Power Window Wireless Door Lock Control
25A	WIP	Front Wiper and Washer
30A	POWER	Moon Roof Power Window
40A	AM1	Rear Window Defogger and Mirror Heater

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Fig. 14: Identifying Drivers Side Junction Block Fuse Components (3 Of 3)

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