

1999 Toyota RAV4

1999 TOYOTA RAV4

1999 TOYOTA**RAV4****BUZZERS, RELAYS & TIMERS****BUZZERS, RELAYS & TIMERS**

Component	Component Location
ABS Relay	On left front of engine compartment, behind radiator. See Fig. 1 .
ACC Relay	On instrument panel J/B.
Circuit Opening Relay	On driver side R/B.
Daytime Running Light Relay (Main)	Behind right side of dash. See Fig. 4 .
Daytime Running Light Relay No. 3	On passenger side R/B.
Daytime Running Light Relay No. 4	On passenger side R/B.
DIM Relay	On engine room R/B No. 2.
EFI Relay	On instrument panel J/B.
E/G MAIN Relay	On engine room R/B.
FAN No. 1 Relay	On engine room R/B No. 2.
FAN No. 2 Relay	On engine room R/B No. 2.
FAN No. 3 Relay	On engine room R/B No. 2.
H-LP Relay	On engine room R/B.
Heater Relay	On passenger side R/B.
IG1 Relay	On instrument panel J/B.
IG2 Relay	On engine room R/B No. 2.
Integration Relay	On instrument panel J/B. See Fig. 4 .
MG/C Relay	On engine room R/B No. 2.
Moon Roof Control Relay	On roof, in front of moon roof.
Power Relay	On instrument panel J/B.
ST Relay	On engine room R/B.
Taillight Relay	On driver side R/B.
Turn Signal Flasher	On driver side R/B.

CIRCUIT PROTECTION DEVICES**CIRCUIT PROTECTION DEVICES**

Component	Component Location
Driver Side R/B	At left kick panel. See Fig. 4 .
Engine Room R/B	On left front strut tower. See Fig. 1 .
Engine Room R/B No. 2	In front of left front strut tower. See Fig. 1 .
Fusible Link Block	On right side of engine compartment, near battery. See Fig. 1 .
Instrument Panel J/B	On lower left side of dash. See Fig. 4 .

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J/B No. 3	Behind center of dash. See Fig. 4 .
Passenger Side R/B	At right kick panel. See Fig. 4 .

CONTROL UNITS**CONTROL UNITS**

Component	Component Location
ABS ECU	Behind left kick panel. See Fig. 4 .
A/C Amplifier	Behind right side of dash. See Fig. 4 .
Center Air Bag Sensor Assembly	Under center console. See Fig. 4 .
Cruise Control ECU	Behind right side of dash. See Fig. 4 .
Engine Control Module	Under center of dash. See Fig. 4 .
Shift Lock ECU	Under center console. See Fig. 4 .

MOTORS**MOTORS**

Component	Component Location
ABS Actuator	On right side of engine compartment, in front of strut tower. See Fig. 3 .
A/C Condenser Fan Motor	On right front of engine compartment. See Fig. 3 .
Blower Motor	Behind right side of dash.
Cruise Control Actuator	On left rear of engine compartment. See Fig. 3 .
Front Washer Motor	On right front of engine compartment, in washer fluid reservoir. See Fig. 3 .
Front Wiper Motor	On left side of firewall. See Fig. 3 .
Fuel Sender Main & Fuel Pump	In fuel tank.
Moon Roof Motor & Limit Switch	On front center of roof.
Radiator Fan Motor	On left front of engine compartment. See Fig. 2 .
Rear Washer Motor	On right front of engine compartment, in washer fluid reservoir. See Fig. 2 .
Rear Wiper Motor	On center of back door, behind trim panel.

SENDING UNITS & SENSORS**SENDING UNITS & SENSORS**

Component	Component Location
ABS Deceleration Sensor	Under left side of dash, near accelerator pedal.
ABS Speed Sensor (Front Left)	On left front wheel hub/spindle assembly. See Fig. 3 .
ABS Speed Sensor (Front Right)	On right front wheel hub/spindle assembly. See Fig. 3 .
ABS Speed Sensor (Rear Left)	On left rear wheel hub/spindle assembly.

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ABS Speed Sensor (Rear Right)	On right rear wheel hub/spindle assembly.
A/C Magnetic Clutch & Lock Sensor (W/ A/C)	On right front of engine compartment, on A/C compressor. See Fig. 3 .
A/C Magnetic Clutch & Lock Sensor Connector (W/O A/C)	On right front of engine compartment. See Fig. 3 .
A/C Thermistor	Behind right side of dash.
Air Fuel Ratio Sensor (Bank 1 Sensor 1) (California)	On left side of engine, in center of engine compartment, in exhaust.
Camshaft Position Sensor	On front of engine.
Crankshaft Position Sensor	On left front of engine. See Fig. 3 .
Engine Coolant Temperature Sensor	On left rear of engine. See Fig. 3 .
Front Air Bag Sensor (Left)	Behind left side of front bumper.
Front Air Bag Sensor (Right)	Behind right side of front bumper.
Fuel Sender Main & Fuel Pump	In fuel tank.
Fuel Sender (Sub)	Under center rear of vehicle.
Heated Oxygen Sensor (Bank 1 Sensor 1) (Except California)	On left side of engine, in center of engine compartment, in exhaust. See Fig. 2 .
Heated Oxygen Sensor (Bank 1 Sensor 2)	In exhaust pipe on underside of vehicle. See Fig. 2 .
Intake Air Temperature Sensor	On left center of engine compartment. See Fig. 2 .
Knock Sensor	On right side of engine. See Fig. 2 .
Manifold Absolute Pressure Sensor	On center rear of engine compartment. See Fig. 2 .
Throttle Position Sensor	On throttle body assembly. See Fig. 2 .
Vapor Pressure Sensor	On left side of firewall. See Fig. 2 .
Vehicle Speed Sensor (Combination Meter)	On left center of engine compartment, on transmission. See Fig. 2 .
Vehicle Speed Sensor (Front)	On left center of engine compartment. See Fig. 2 .
Vehicle Speed Sensor (Rear)	On center of engine compartment. See Fig. 2 .
Washer Level Sensor	In washer fluid reservoir.
Water Temperature Sender	On left rear of engine. See Fig. 2 .

SOLENOIDS & SOLENOID VALVES**SOLENOIDS & SOLENOID VALVES**

Component	Component Location
Electronically Controlled Transmission Solenoid	On lower left front of engine compartment, on transmission. See Fig. 3 .
Idle Air Control Valve	On top right rear of engine. See Fig. 2 .
Key Interlock Solenoid	On left side of dash, near steering column.
Solenoid Valve SLD	On top left of engine. See Fig. 2 .
VSV (Center Differential Lock No. 1)	On center rear of engine compartment. See Fig. 2 .
VSV (Center Differential Lock No. 2)	On center rear of engine compartment. See Fig. 2 .
VSV (EGR)	On left side of engine. See Fig. 2 .

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VSV (EVAP)	On left side of engine compartment. See Fig. 2 .
VSV (Vapor Pressure Sensor)	On left side of engine compartment. See Fig. 2 .

SWITCHES**SWITCHES**

Component	Component Location
A/C Triple Pressure Switch (A/C Dual & Single Pressure Switch)	On left front corner of engine compartment. See Fig. 3 .
A/C Water Temperature Switch	On center front engine compartment, behind front bumper. See Fig. 3 .
A/T Fluid Temperature Switch	On left front of engine compartment, on transmission. See Fig. 3 .
Back-Up Light Switch (M/T)	On left side of engine compartment, on transmission. See Fig. 3 .
Brake Fluid Level Warning Switch	On left side of engine compartment, near strut tower. See Fig. 3 .
Center Differential Lock Warning Buzzer Switch	On center of engine compartment, near center differential lock. See Fig. 3 .
Clutch Start Switch (M/T)	Under left side of dash, at clutch pedal bracket.
Cruise Control Clutch Switch	Under left side of dash, at clutch pedal bracket.
Oil Pressure Switch	On lower left side of engine. See Fig. 2 .
Park/Neutral Position Switch (A/T)	On lower left front side of engine compartment, on transmission. See Fig. 2 .
Parking Brake Switch	Under console, on parking brake assembly.
Retractor Switch	In driver's side seat belt buckle.
Stoplight Switch	Under left side of dash, at brake pedal bracket.

MISCELLANEOUS**MISCELLANEOUS**

Component	Component Location
Blower Resistor	Behind right side of dash.
Data Link Connector (DLC) No. 1	On right side, middle of engine compartment. See Fig. 3 .
Data Link Connector (DLC) No. 3	Under center, left side of dash.
Ignition Coil & Ignitor No. 1	On left rear of engine. See Fig. 2 .
Ignition Coil & Ignitor No. 2	On left rear of engine.
Junction Connectors No. 1 & 2	Behind left kick panel.
Junction Connectors No. 3 & 4	Behind combination meter assembly.
Junction Connector No. 5	Under center top of dash.
Junction Connectors No. 6 & 7	Behind center of dash.
Junction Connectors No. 8, 9 & 10	Behind right side of dash.

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Junction Connector No. 11	Behind right kick panel.
Junction Connector No. 12	In left front door.
Junction Connectors No. 13 & 14	In right front door.
Junction Connectors No. 15 & 16	On left rear of luggage compartment.
Noise Filter (Ignition System)	On left rear of engine. See Fig. 2 .
Pretensioner (Left)	At left "B" pillar.
Pretensioner (Right)	At right "B" pillar.
Rheostat	Behind left upper side of dash.

CONNECTORS**CONNECTORS**

Component	Component Location
BK1 (Orange, 8 Pin)	Beside right rear combination light.
BK2 (Blue, 4 Pin)	Beside right rear combination light.
BM1 (White, 5 Pin)	At right center pillar.
BN1 (White, 5 Pin)	At left center pillar.
EA1 (White, 14 Pin)	Inside J/B No. 2. See Fig. 2 .
IB1 (White, 17 Pin)	At left kick panel.
IB2 (White, 20 Pin)	At right kick panel.
IB3 (Yellow, 2 Pin)	At left kick panel.
IB4 (Yellow, 2 Pin)	At right kick panel.
IC1 (White, 16 Pin)	At left kick panel.
ID1 (White, 12 Pin)	At left kick panel.
ID2 (Gray, 4 Pin)	At left kick panel.
IF1 (Black, 8 Pin)	At left kick panel.
IG1 (White, 12 Pin)	Under center of dash.
IG2 (Dark Gray, 19 Pin)	Under center of dash.
IH1 (Gray, 2 Pin)	At right kick panel.
II1 (Blue, 16 Pin)	At right kick panel.
IJ1 (White, 10 Pin)	At left kick panel.
IO1 (White, 5 Pin)	Below center of dash, at left dash brace.
IP1 (White, 1 Pin)	At right kick panel.

GROUND**GROUND**

Component	Component Location
BH (2 Door)	Under left center pillar.
BH (4 Door)	At left rear quarterpanel.
BI (2 Door)	Under right center pillar.

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BI (4 Door)	At right rear quarterpanel.
BJ	At left side of back door.
BK	At left side of roof.
EA	At right side of radiator. See Fig. 2 .
EB	At left side of radiator. See Fig. 2 .
EC	At intake manifold. See Fig. 2 .
ID	At left kick panel. See Fig. 4 .
IE	Below center of dash, at left dash brace. See Fig. 4 .
IF	Below center of dash, at right dash brace. See Fig. 4 .
IG	At right kick panel. See Fig. 4 .

SPLICES**SPLICES**

Component	Component Location
B1 (2 Door)	In body harness, at left side of windshield header.
B1 (4 Door)	In body harness, at top of left "A" pillar.
B2	In body harness, at left side of back door.
E1	In engine compartment harness, behind left headlight. See Fig. 2 .
I1	In dash harness, behind lower right side of dash.
I2	In dash harness, behind right side of dash.

COMPONENT LOCATION GRAPHICS

NOTE: Figures may show multiple component locations. Refer to appropriate table for proper figure references.

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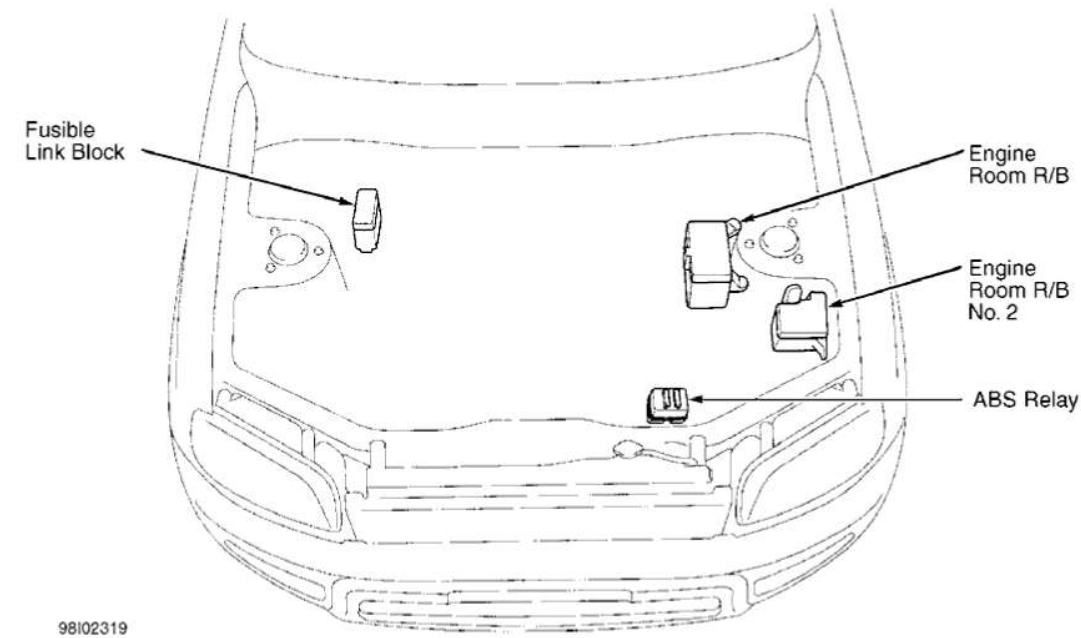
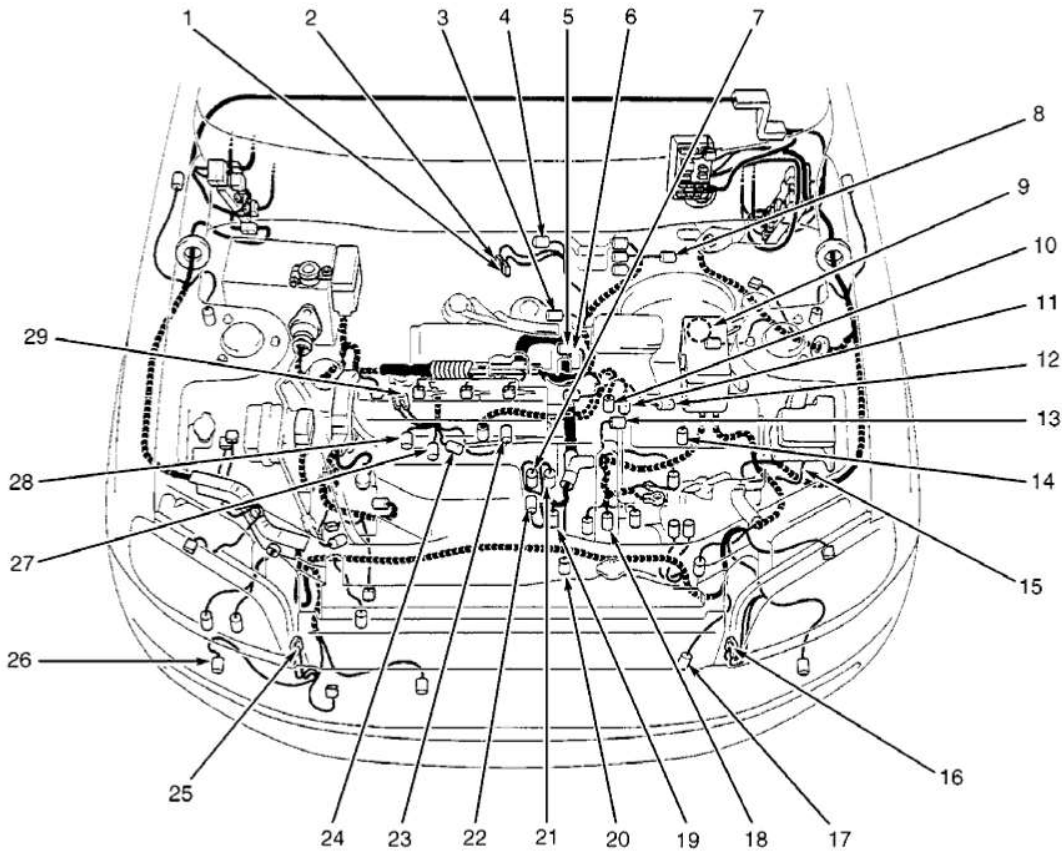


Fig. 1: Engine Compartment

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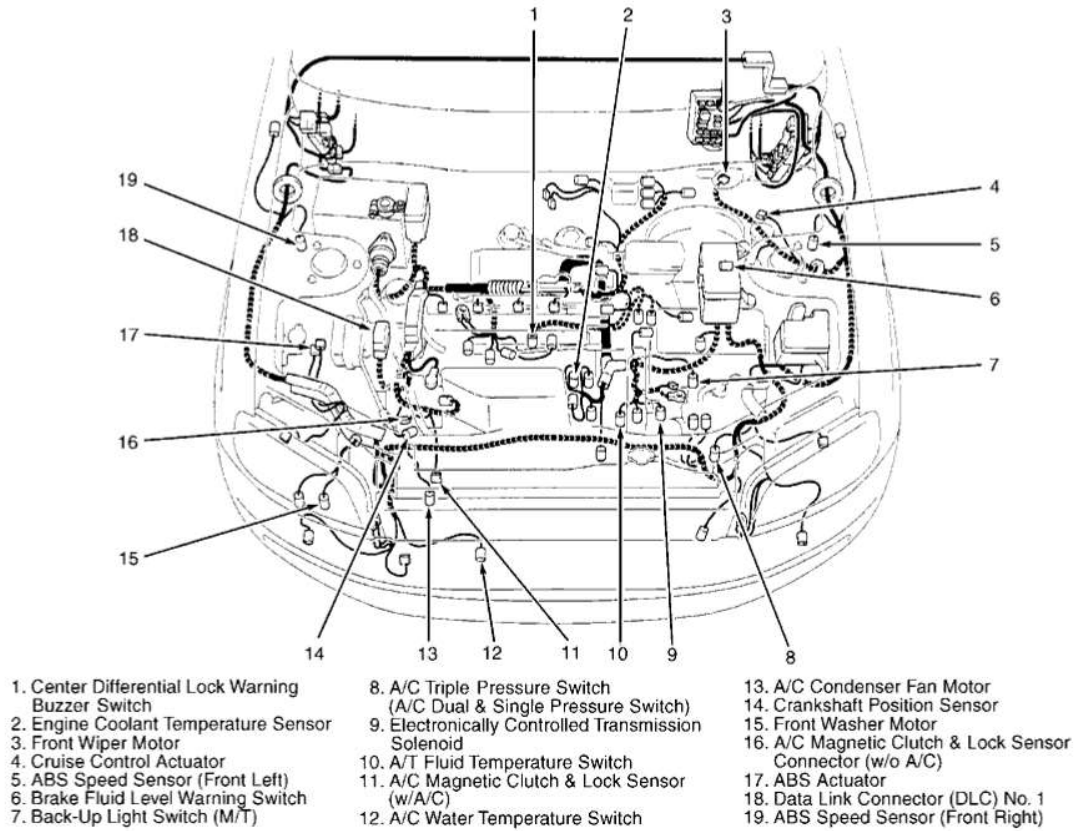
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|--|--|
| 1. VSV (Center Differential Lock No. 1) | 16. EB |
| 2. VSV (Center Differential Lock No. 2) | 17. Radiator Fan Motor |
| 3. Throttle Position Sensor | 18. Park/Neutral Position Switch (A/T) |
| 4. Manifold Absolute Pressure Sensor | 19. Heated Oxygen Sensor (Bank 1 Sensor 1) |
| 5. Idle Air Control Valve | 20. Heated Oxygen Sensor (Bank 1 Sensor 2) |
| 6. Ignition Coil & Ignitor No.1 | 21. Water Temperature Sender |
| 7. Noise Filter (Ignition System) | 22. Oil Pressure Switch |
| 8. Vapor Pressure Sensor | 23. Solenoid Valve SLD |
| 9. EA1 | 24. Vehicle Speed Sensor (Rear) |
| 10. Vehicle Speed Sensor (Combination Meter) | 25. EA |
| 11. Vehicle Speed Sensor (Front) | 26. Rear Washer Motor |
| 12. VSV (Vapor Pressure Sensor) | 27. VSV (EGR) |
| 13. Intake Air Temperature Sensor | 28. Knock Sensor |
| 14. VSV (EVAP) | 29. EC |
| 15. E1 | |

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Fig. 2: Engine Compartment

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Fig. 3: Engine Compartment

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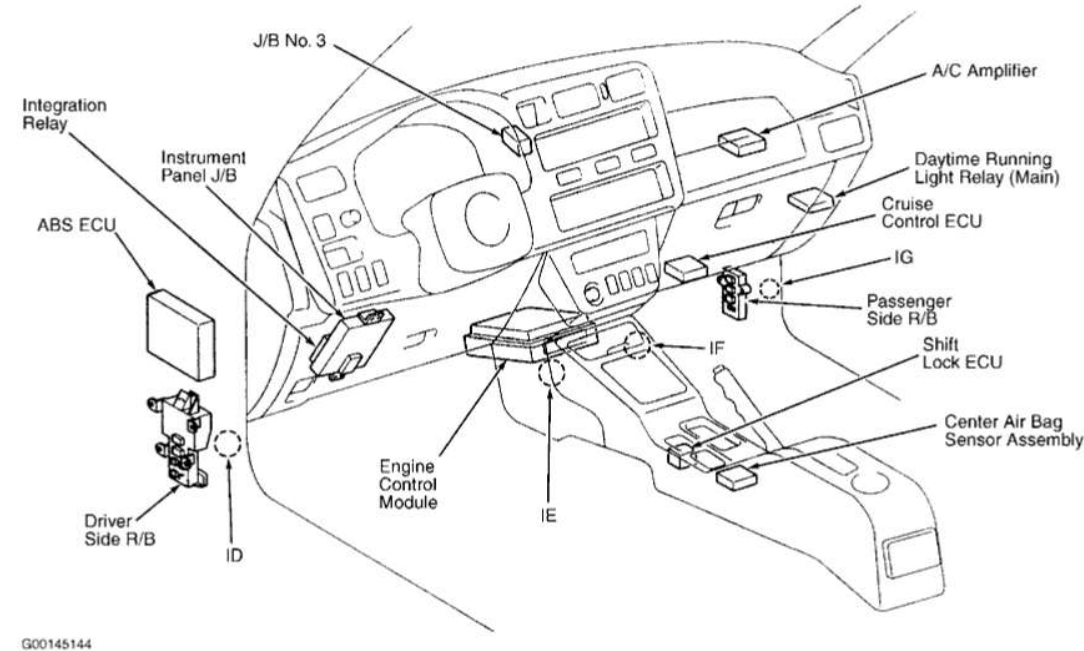


Fig. 4: Dash