

2002 TOYOTA**RAV4****BUZZERS, RELAYS & TIMERS****BUZZERS, RELAYS & TIMERS LOCATION**

Component	Component Location
A/F Relay	In engine room J/B.
C/OPN Relay	In engine room J/B.
DEF Relay	On driver side J/B.
EFI Main Relay	In engine room J/B.
Fan No. 1 Relay	In engine room J/B.
Fan No. 2 Relay	In engine room J/B.
Fan No. 3 Relay	In engine room J/B.
FR FOG Relay	On driver side J/B.
H-LP Relay	In engine room R/B.
HORN Relay	On driver side J/B.
HTR Relay	In engine room J/B.
IG2 Relay	In engine room J/B.
Moon Roof Control Switch & Relay	At center front of roof.
POWER Relay	On driver side J/B.
PWR OUTLET Relay	On driver side J/B.
Rear Wiper Motor & Relay	On tailgate.
ST Relay	In engine room R/B.
Taillight Relay	Behind left side of dash. See Fig. 4 .
Turn Signal Flasher Relay	Behind left side of dash. See Fig. 4 .

CIRCUIT PROTECTION DEVICES**CIRCUIT PROTECTION DEVICES LOCATION**

Component	Component Location
Driver Side J/B	Behind left side of dash. See Fig. 4 .
Engine Room J/B	At left side of engine compartment. See Fig. 3 .
Engine Room R/B	At left side of engine compartment. See Fig. 3 .
Fusible Link Block	In engine compartment, on right side of firewall. See Fig. 3 .
Passenger Side J/B	Behind right side of dash. See Fig. 4 .

CONTROL UNITS**CONTROL UNITS LOCATION**

--	--

Component	Component Location
ABS Actuator & ECU	At right side of engine compartment. See Fig. 3 .
Center Air Bag Sensor Assembly	Below front of center floor console. See Fig. 4 .
Cruise Control ECU	Behind left end of dash. See Fig. 4 .
Engine Control Module	Behind right side of dash. See Fig. 4 .
Passenger Side J/B ECU	On passenger side J/B. See Fig. 4 .
Shift Lock ECU	Below center floor console, near base of shift lever. See Fig. 4 .
Wireless Door Control Receiver	At left rear side of cargo area.

MOTORS

MOTORS LOCATION

Component	Component Location
A/C Condenser Fan Motor	Behind left side of radiator. See Fig. 1 .
Air Inlet Control Servo Motor	Behind right side of dash.
Blower Motor	Behind right side of dash.
Cruise Control Actuator	Near rear of engine. See Fig. 1 .
Front Washer Motor	At right front corner of engine compartment. See Fig. 1 .
Front Wiper Motor	On left side of firewall. See Fig. 1 .
Fuel Pump & Sender	Under center rear of vehicle.
Idle Speed Control Valve	Near center rear of engine compartment. See Fig. 2 .
Moon Roof Motor & Limit Switch	At center front of roof.
Radiator Fan Motor	Behind left side of radiator. See Fig. 2 .
Rear Washer Motor	At right front corner of engine compartment. See Fig. 2 .

SENDING UNITS & SENSORS

SENDING UNITS & SENSORS LOCATION

Component	Component Location
ABS Deceleration Sensor	Below rear of center floor console.
A/C Thermistor	Behind center of dash.
Camshaft Position Sensor	On rear of engine. See Fig. 1 .
Center Air Bag Sensor Assembly	Behind lower center of dash.
Counter Gear Speed Sensor	At left side of engine compartment. See Fig. 1 .
Crankshaft Position Sensor	On front of engine. See Fig. 1 .
Engine Coolant Temperature Sensor	On rear of engine. See Fig. 1 .
Front Air Bag Sensor (Left)	At left front corner of engine compartment. See Fig. 1 .
Front Air Bag Sensor (Right)	At right front corner of engine compartment. See Fig. 1 .
Fuel Pump & Sender	Under center rear of vehicle.
Fuel Sender (Sub)	Under center rear of vehicle.
Knock Sensor	On top center of engine. See Fig. 2 .

Mass Airflow Meter	At right rear of engine. See Fig. 2 .
Throttle Position Sensor	On top right rear of engine. See Fig. 2 .
Turbine Speed Sensor	At left front of engine compartment. See Fig. 2 .
Vapor Pressure Sensor	Under rear of vehicle.
Vehicle Speed Sensor (Combination Meter)	At left front of engine compartment. See Fig. 2 .
Washer Level Warning Sensor	At right front corner of engine compartment. See Fig. 2 .

SOLENOIDS & SOLENOID VALVES

SOLENOIDS & SOLENOID VALVES LOCATION

Component	Component Location
ABS Actuator & ECU	At right side of engine compartment. See Fig. 3 .
Camshaft Timing Oil Control Valve	At front of engine. See Fig. 1 .
Electronically Controlled Transmission Solenoid	At left front of engine compartment. See Fig. 1 .
VSV (Canister Closed Valve)	Near right rear of engine. See Fig. 2 .
VSV (EVAP)	Near right rear of engine. See Fig. 2 .
VSV (Pressure Switching Valve)	Under center of vehicle.

SWITCHES

SWITCHES LOCATION

Component	Component Location
A/C Dual Pressure Switch	At right front corner of engine compartment, integral to A/C triple pressure switch.
A/C Single Pressure Switch	At right front corner of engine compartment, integral to A/C triple pressure switch.
A/C Triple Pressure Switch	At right front corner of engine compartment. See Fig. 1 .
A/T Indicator Light Switch	At left front of engine compartment, integral to park/neutral position switch.
Back-Up Light Switch (A/T)	At left front of engine compartment, integral to park/neutral position switch.
Back-Up Light Switch (M/T)	At left side of engine compartment. See Fig. 1 .
Brake Fluid Level Warning Switch	At left rear corner of engine compartment. See Fig. 1 .
Clutch Start Switch	Behind left side of dash.
Cruise Control Clutch Switch	Behind left side of dash.
Engine Coolant Temperature Switch	At front of engine compartment, behind left side of grille. See Fig. 1 .
Moon Roof Control Switch & Relay	At center front of roof.
Moon Roof Motor & Limit Switch	At center front of roof.

Oil Pressure Switch	On rear of engine. See Fig. 2 .
Parking Brake Switch	Below center floor console.
Park/Neutral Position Switch	At left front of engine compartment. See Fig. 2 .
Power Steering Oil Pressure Switch	Near front of engine. See Fig. 2 .
Stoplight Switch	Behind left side of dash.

MISCELLANEOUS

MISCELLANEOUS LOCATION

Component	Component Location
A/C Amplifier	Behind center of dash. See Fig. 4 .
Data Link Connector (DLC) No. 3	Behind left side of dash.
Diode (Fan)	Behind right side of dash.
Diode (Idle-Up)	On driver side J/B.
Junction Connector No. 1, 2 & 3	Behind left side of dash.
Junction Connector No. 4 & 5	Behind center of dash.
Junction Connector No. 6, 7 & 8	Behind right side of dash.
Junction Connector No. 9	At right rear side of cargo area.
Noise Filter (Defogger)	In driver side J/B.
Noise Filter (Ignition)	Near rear of engine. See Fig. 2 .
Short Connector (Light)	Behind top center of dash.
Short Connector (SRS)	Behind top center of dash.
Transponder Key Amplifier	On top of steering column. See Fig. 4 .

CONNECTORS

CONNECTORS LOCATION

Component	Component Location
BA1 (White, 12 Pin)	At left side of center pillar.
BB1 (White, 12 Pin)	At right side of center pillar.
BC1 (White, 13 Pin)	At right side of rear hatch.
EA1 (White, 12 Pin)	Under engine room J/B. See Fig. 2 .
IA1 (White, 43 Pin)	At left kick panel.
IA2 (Yellow, 2 Pin)	At left kick panel.
IA3 (White, 12 Pin)	At left kick panel.
IB1 (White, 5 Pin)	At left kick panel.
IB2 (White, 16 Pin)	At left kick panel.
IC1 (White, 13 Pin)	At left kick panel.
IC2 (White, 14 Pin)	At left kick panel.
ID1 (White, 9 Pin)	Near driver side J/B.

IE1 (White, 14 Pin)	Near passenger side J/B.
IE2 (White, 13 Pin)	Near passenger side J/B.
IF1 (Yellow, 2 Pin)	At right kick panel.
IF2 (White, 43 Pin)	At right kick panel.
IG1 (White, 12 Pin)	At right kick panel.
IH1 (White, 13 Pin)	At right kick panel.
IH2 (White, 14 Pin)	At right kick panel.
II1 (White, 16 Pin)	At right kick panel.

GROUNDS

GROUNDS LOCATION

Component	Component Location
BJ	At front of headliner.
BK	At rear of left quarterpanel.
BL	At center of rear hatch.
BM	At rear of right quarterpanel.
EA	At front of right front fender. See Fig. 2 .
EB	At left rear of cylinder block. See Fig. 2 .
EC	At left rear of cylinder head. See Fig. 2 .
ED	At front of left front fender. See Fig. 2 .
IE	At left kick panel. See Fig. 4 .
IF	Below center of dash, at left dash brace. See Fig. 4 .
IG	Below center of dash, at right dash brace. See Fig. 4 .
IH	Below right side of dash. See Fig. 4 .
II	At right kick panel. See Fig. 4 .

SPLICES

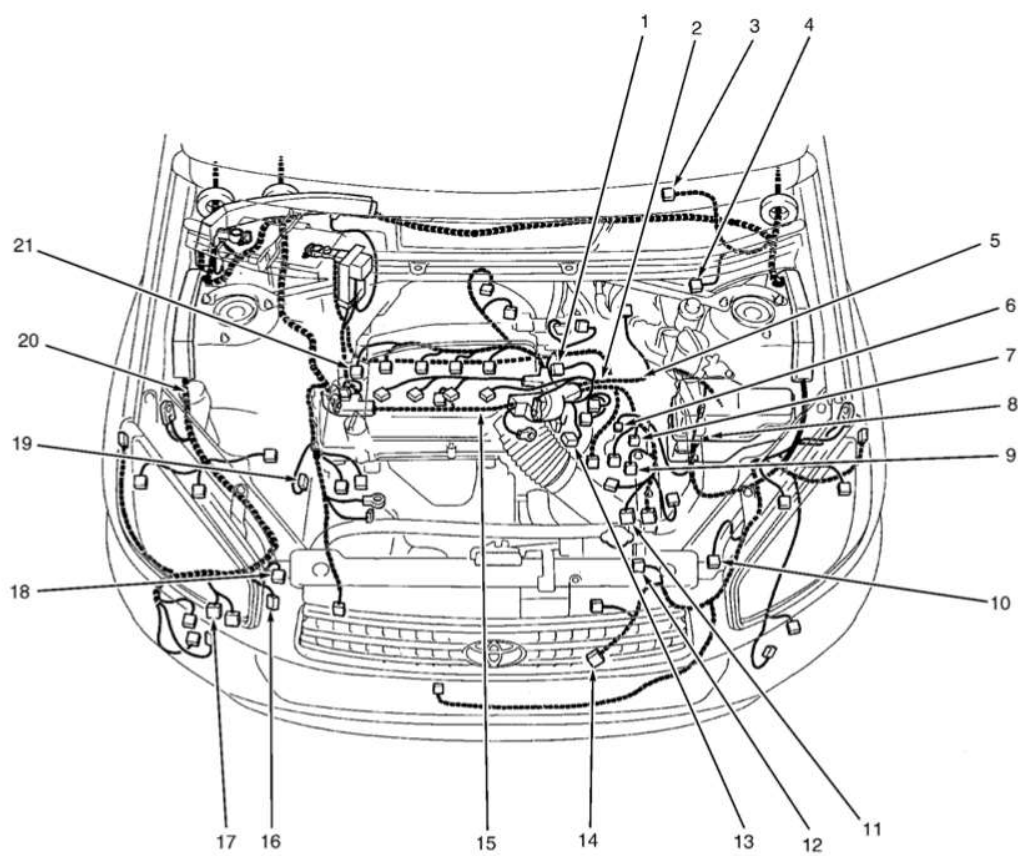
SPLICES LOCATION

Component	Component Location
B1	In body harness, at left front fender.
B2	In body harness, above left rear wheelwell.
B3	In body harness, at center of rear hatch.
B4	In body harness, above right rear wheelwell.
E1	In engine compartment harness, at right side of engine compartment. See Fig. 1 .
E2	In engine compartment harness, at top of engine. See Fig. 1 .
E3	In engine compartment harness, at rear of engine. See Fig. 1 .
E4	In engine compartment harness, at rear of engine. See Fig. 1 .
E5	In engine compartment harness, at left side of engine compartment. See Fig. 1 .
I1	In dash harness, behind right side of dash.

I2	In dash harness, behind right side of dash.
I3	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.



1. Camshaft Position Sensor

2. E3

3. Front Wiper Motor

4. Brake Fluid Level Warning Switch

5. E4

6. Cruise Control Actuator

7. Back-Up Light Switch (M/T)

8. E5

9. Counter Gear Speed Sensor

10. Front Air Bag Sensor (Left)

11. Electronically Controlled Transmission Solenoid
12. A/C Condenser Fan Motor

13. Engine Coolant Temperature Sensor

14. Engine Coolant Temperature Switch

15. E2

16. A/C Triple Pressure Switch

17. Front Washer Motor

18. Front Air Bag Sensor (Right)

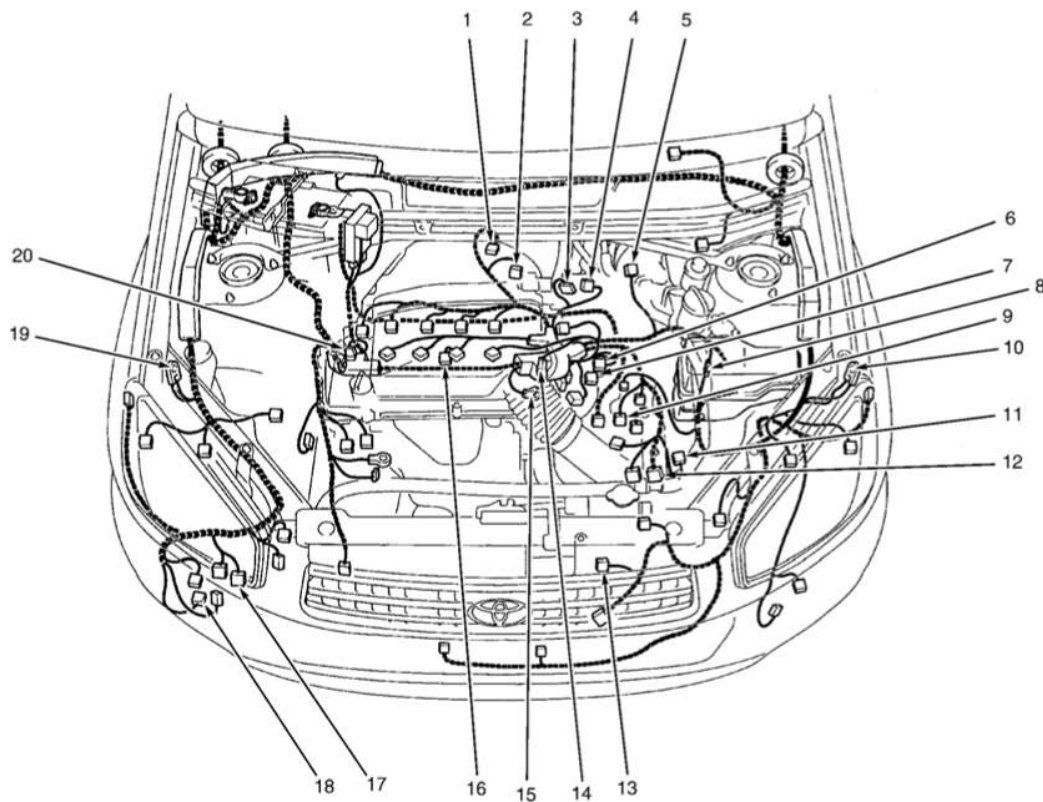
19. Crankshaft Position Sensor

20. E1

21. Camshaft Timing Oil Control Valve

G00145140

Fig. 1: Engine Compartment
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

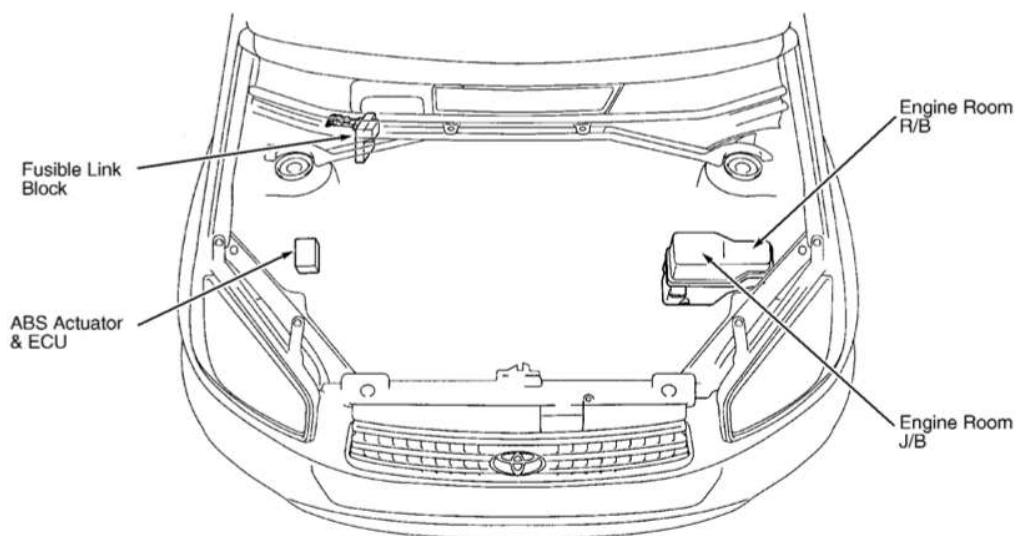


- | | |
|---|--|
| 1. Idle Speed Control Valve | 11. Turbine Speed Sensor |
| 2. Throttle Position Sensor | 12. Park/Neutral Position Switch |
| 3. Mass Airflow Meter | 13. Radiator Fan Motor |
| 4. VSV (EVAP) | 14. EC |
| 5. VSV (Canister Closed Valve) | 15. EB |
| 6. Noise Filter (Ignition) | 16. Knock Sensor |
| 7. Oil Pressure Switch | 17. Rear Washer Motor |
| 8. EA1 | 18. Washer Level Warning Sensor |
| 9. Vehicle Speed Sensor (Combination Meter) | 19. EA |
| 10. ED | 20. Power Steering Oil Pressure Switch |

G00145141

Fig. 2: Engine Compartment

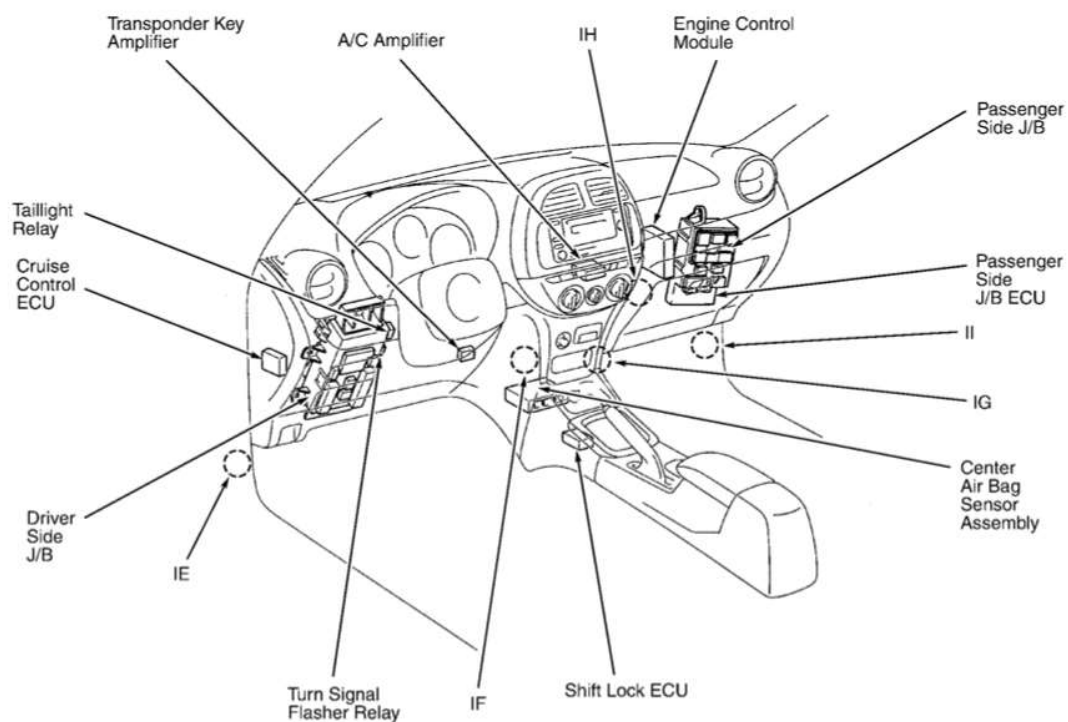
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



G00075059

Fig. 3: Engine Compartment

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



G00145142

Fig. 4: Dash

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