

**1999-2000 ENGINE COOLING**

**Electric Cooling Fans**

**IDENTIFICATION**

**ELECTRIC COOLING FAN IDENTIFICATION**

Application	Cooling Fan Location
All Models	
Condenser Cooling Fan	Passenger's Side, Rear Of Radiator
Radiator Cooling Fan	Driver's Side, Rear Of Radiator

**DESCRIPTION & OPERATION**

Land Cruiser, Tacoma, Tundra and 4Runner use a belt-driven cooling fan attached to the water pump. All other models use 2 electric cooling fans located directly behind the radiator. Fans are controlled via Engine Coolant Temperature (ECT) switches/sensors, and turn on when engine coolant temperature is above 208°F (98°C) on Avalon, Camry with 3.0L, Camry Solara with 3.0L and Sienna. On Camry with 2.2L, Camry Solara with 2.2L, Celica, Corolla, ECHO, MR2 and RAV4, ECT turns cooling fans on above 199°F (93°C). On Avalon, Camry with 3.0L, Camry Solara with 3.0L and Sienna, fans will turn off when engine coolant temperature falls below 190°F (88°C). On Camry with 2.2L, Camry Solara with 2.2L, Celica, Corolla and RAV4, fans will turn off below 181°F (83°C).

**SYSTEM TESTS**

**ELECTRIC COOLING FAN**

**Avalon (1999), Camry 3.0L, Camry Solara 3.0L & Sienna**

1. With engine coolant temperature below 190°F (88°C), turn ignition switch to ON position (engine off). Ensure fans stop.
2. If fan do not stop, test cooling fan relay and ECT switch. See **COOLING FAN RELAYS** and **ECT SWITCH** . Check for loose or broken connector or wiring between relay and ECT switch. Repair as necessary.
3. Disconnect No. 1 ECT switch connector. See **ECT SWITCH LOCATIONS** table. With ignition still in ON position, ensure cooling fan turns on. If not, check fuses, engine main relay, cooling fan relay and cooling fan motor. Check for short between cooling fan relay and ECT switch.
4. Start engine and raise temperature above 208°F (98°C). Ensure cooling fan turns. If not, replace No. 1 ECT switch.
5. Stop engine and disconnect cooling fan 2-pin connector. With battery connected to ammeter (positive battery terminal to positive ammeter terminal and negative battery and negative ammeter terminals to each connector pin), test amperage readings. See **Fig. 1** . If readings are not as specified, replace cooling fan. See **COOLING FAN AMPERAGE READINGS** table. Reconnect fan connector.

**Avalon (2000)**

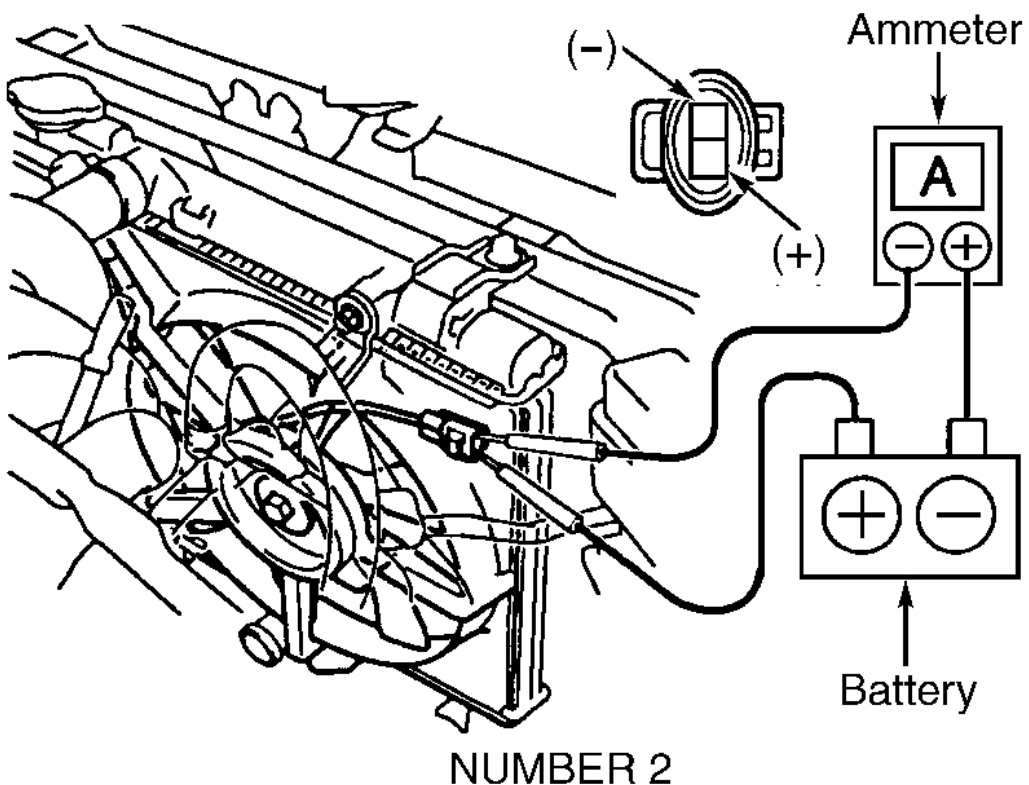
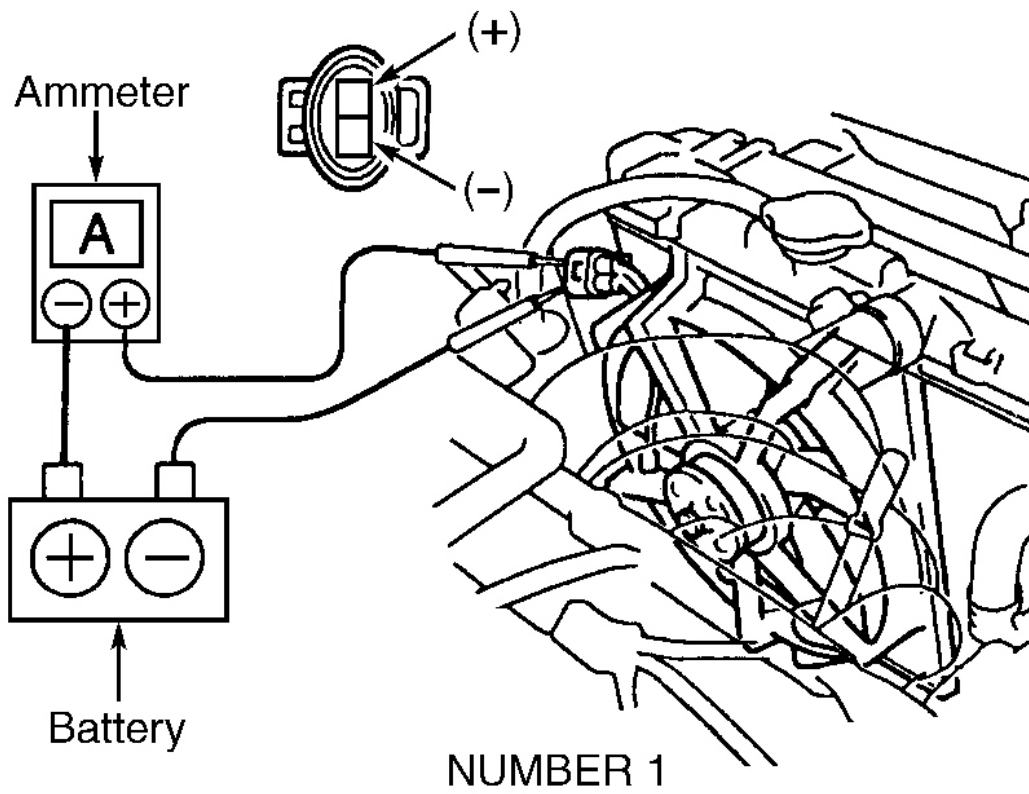
## 1999 Toyota RAV4

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1. With engine coolant temperature below 181°F (83°C), turn ignition switch to ON position (engine off). Ensure fans stop.
2. If fans do not stop, test cooling fan relays and ECT switches. See **COOLING FAN RELAYS** and **ECT SWITCH** . Check for loose or broken connector or wiring between relay and ECT switch. Repair as necessary.
3. Disconnect No. 1 ECT switch wire connector. Connect jumper wire to No. 1 ECT terminals. Ensure fan rotates at high speed. If fan does not rotate, check No. 1 cooling fan relay and cooling fan. Reconnect No. 1 switch connector.
4. Disconnect No. 2 switch connector. Ground terminal on No. 2 ECT switch wire harness side connector. Ensure No. 1 and No. 2 fans rotate at low speed. If fans do not rotate, check No. 2 cooling fan relay, No. 3 cooling fan relay and No. 2 cooling fan. Reconnect No. 2 ECT switch connector.
5. Inspect No. 1 and No. 2 cooling fans. Disconnect cooling fan connector. With battery connected to ammeter (positive battery terminal to positive ammeter terminal and negative battery and negative ammeter terminals to each connector pin), test amperage readings. See **Fig. 1** . If readings are not as specified, replace cooling fan. See **COOLING FAN AMPERAGE READINGS** table. Reconnect fan connector.

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**Fig. 1: Testing Amperage At Fan Connectors (Corolla Shown; Other Models Similar)**  
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Camry 2.2L, Camry Solara 2.2L, Celica, Corolla, ECHO, MR2 & RAV4

1. With engine coolant temperature below 181°F (83°C), turn ignition switch to ON position (engine off). Ensure fan stops.
2. If fan does not stop, test cooling fan relay and ECT switch/sensor. See **COOLING FAN RELAYS** and **ECT SWITCH** or **ECT SENSOR** . Check for loose or broken connector or wiring between relay and ECT switch. Repair as necessary.
3. Disconnect ECT switch/sensor connector. See **ECT SWITCH LOCATIONS** table. With ignition still in ON position, ensure cooling fan turns on. If not, check fuses, engine main relay (if equipped), cooling fan relay, and cooling fan motor. On MR2, check ECM. On all models, check for short between cooling fan relay and ECT switch.
4. Start engine and raise temperature above 199°F (93°C). Ensure cooling fan turns. If not, replace ECT switch/sensor.
5. Stop engine and disconnect cooling fan 2-pin connector. With battery connected to ammeter (positive battery terminal to positive ammeter terminal and negative battery and negative ammeter terminals to each connector pin), test amperage readings. See **Fig. 1** . If readings are not as specified, replace cooling fan. See **COOLING FAN AMPERAGE READINGS** table. Reconnect fan connector.

### ECT SWITCH LOCATIONS

Application	ECT Switch Location
All Models	
Condenser Cooling Fan	Passenger's Side, Rear Of Radiator
Radiator Cooling Fan	Driver's Side, Rear Of Radiator

### COOLING FAN AMPERAGE READINGS

Application	Amps @ 68°F (20°C)
Avalon	
1999	9.2-11.0
2000	8.5-11.5
Camry & Camry Solara	
5S-FE	4.9-8.5
1MZ-FE	8.3-11.3
Celica	
1999	6.4-7.4
2000	5.2-8.2
Corolla	5.2-8.2
ECHO <sup>(1)</sup>	7.8-11.8
MR2	5.7-7.7
RAV4	9.1-11.1
Sienna	

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With "S" Mark	8.5-11.5
With "T" Mark	14.0-20.0
(1) Amps @ 77°F (25°C)	

## COMPONENT TESTS

**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.

### COOLING FAN RELAYS

**NOTE:** Place match marks on all relays for proper reinstallation.

#### Cooling Fan Relay No. 1 (Avalon, Celica & RAV4 - 1999)

1. Disconnect negative battery cable. Remove cooling fan relay No. 1 from fuse/relay box. See **Fig. 2**, **Fig. 5** and **Fig. 10**. Using an ohmmeter, check for continuity between relay terminals No. 1 and 2, and No. 3 and 4 on Denso type relays. See **Fig. 13**. On Bosch type relays, check for continuity between relay terminals No. 85 and 86, and No. 30 and 87a. If no continuity exists, replace relay.
2. To check relay operation, connect positive battery voltage to terminal No. 1 (Denso type), or No. 86 (Bosch type). Connect ground to terminal No. 2 (Denso type), or No. 85 (Bosch type). Check that no continuity exists between relay terminals No. 3 and 4 on Denso type relays. On Bosch type relays, check that no continuity exists between relay terminals No. 30 and 87a. If continuity exists, replace relay.
3. Reinstall cooling fan relay No. 1.

#### Cooling Fan Relay No. 1 (Avalon, Celica, ECHO & RAV4 - 2000)

1. Disconnect negative battery cable. Remove cooling fan relay No. 1 from fuse/relay box. See **Fig. 3**, **Fig. 6**, **Fig. 8** and **Fig. 11**. Using an ohmmeter, check for continuity between relay terminals No. 1 and 2. See **Fig. 14**. If there is no continuity, replace relay. Check that no continuity exists between relay terminals No. 3 and 5. If continuity exists, replace relay.
2. To check relay operation, connect positive battery voltage to terminal No. 1 and ground to terminal No. 2. Check for continuity between relay terminals No. 3 and 5. If no continuity exists, replace relay.
3. Reinstall cooling fan relay No. 1.

#### Cooling Fan Relay No. 1 (Camry, Camry Solara, Corolla & Sienna)

1. Disconnect negative battery cable. Remove cooling fan relay No. 1 from fuse/relay box. See **Fig. 4**, **Fig. 7** and **Fig. 12**. Using an ohmmeter, check for continuity between relay terminals No. 1 and 2, and No. 3 and 4. See **Fig. 15**. If no continuity exists, replace relay.
2. To check relay operation, connect positive battery voltage to terminal No. 1 and ground to terminal No. 2. Check that no continuity exists between relay terminals No. 3 and 4. If continuity exists, replace relay.
3. Reinstall cooling fan relay No. 1.

**Cooling Fan Relay No. 2 (Except Avalon)**

1. Disconnect negative battery cable. Remove cooling fan relay No. 2 from fuse/relay box. See **Fig. 4 - Fig. 12** . Using an ohmmeter, check for continuity between relay terminals No. 1 and 2, and No. 3 and 4. See **Fig. 13 - Fig. 15** . If no continuity exists, replace relay. Check that no continuity exists between relay terminals No. 3 and 5. If continuity exists, replace relay.
2. To check relay operation, connect positive battery voltage to terminal No. 1 and ground to terminal No. 2. Check that no continuity exists between relay terminals No. 3 and 4. If continuity exists, replace relay. Check for continuity between relay terminals No. 3 and 5. If no continuity exists, replace relay.
3. Reinstall cooling fan relay No. 2.

**Cooling Fan Relay No. 2 (Avalon)**

1. Disconnect negative battery cable. Remove cooling fan relay No. 2 from fuse/relay box. See **Fig. 2** and **Fig. 3** . Using an ohmmeter, check for continuity between relay terminals No. 1 and 2, and No. 3 and 4 on Denso type relay. On Bosch type relay, check for continuity between relay terminals No. 85 and 86, and No. 30 and 87a. See **Fig. 13** and **Fig. 14** . If there is no continuity, replace relay.
2. To check relay operation, connect positive battery voltage to terminal No. 1 (Denso type), or No. 85 (Bosch type). Connect ground to terminal No. 2 (Denso type), or No. 86 (Bosch type). Check that no continuity exists between relay terminals No. 3 and 4 (Denso type), or No. 30 and 87a (Bosch type). If continuity exists, replace relay. Check for continuity between relay terminals No. 3 and 5 (Denso), or No. 30 and 87 (Bosch). If no continuity exists, replace relay.
3. Reinstall cooling fan relay No. 2.

**Cooling Fan Relay No. 3**

**NOTE:** ECHO is not equipped with cooling fan relay No. 3.

1. Disconnect negative battery cable. Remove cooling fan relay No. 3 from fuse/relay box. See **Fig. 2 - Fig. 12** . Using an ohmmeter, check for continuity between relay terminals No. 1 and 2 (Denso type), or No. 85 and 86 (Bosch type). See **Fig. 13 - Fig. 15** . If no continuity exists, replace relay. Check that no continuity exists between relay terminals No. 3 and 5 (Denso type), or No. 30 and 87 (Bosch type). If continuity exists, replace relay.
2. To check relay operation, connect positive battery voltage to terminal No. 1 (Denso type), or No. 86 (Bosch type). Connect ground to terminal No. 2 (Denso type), or No. 85 (Bosch type). Check for continuity between relay terminals No. 3 and 5 (Denso type), or No. 30 and 87 (Bosch type). If no continuity exists, replace relay.
3. Reinstall cooling fan relay No. 3.

**Engine Main Relay (Except 2000 Avalon, 2000 Celica, ECHO & MR2)**

1. Disconnect negative battery cable. Remove engine main relay from fuse/relay box. See **Fig. 2 - Fig. 12** . Using an ohmmeter, check for continuity between relay terminals No. 3 and 5, and No. 2 and 4. See **Fig. 16** . If no continuity exists, replace relay. Check that no continuity exists between relay terminals No. 1 and 2. If continuity exists, replace relay.

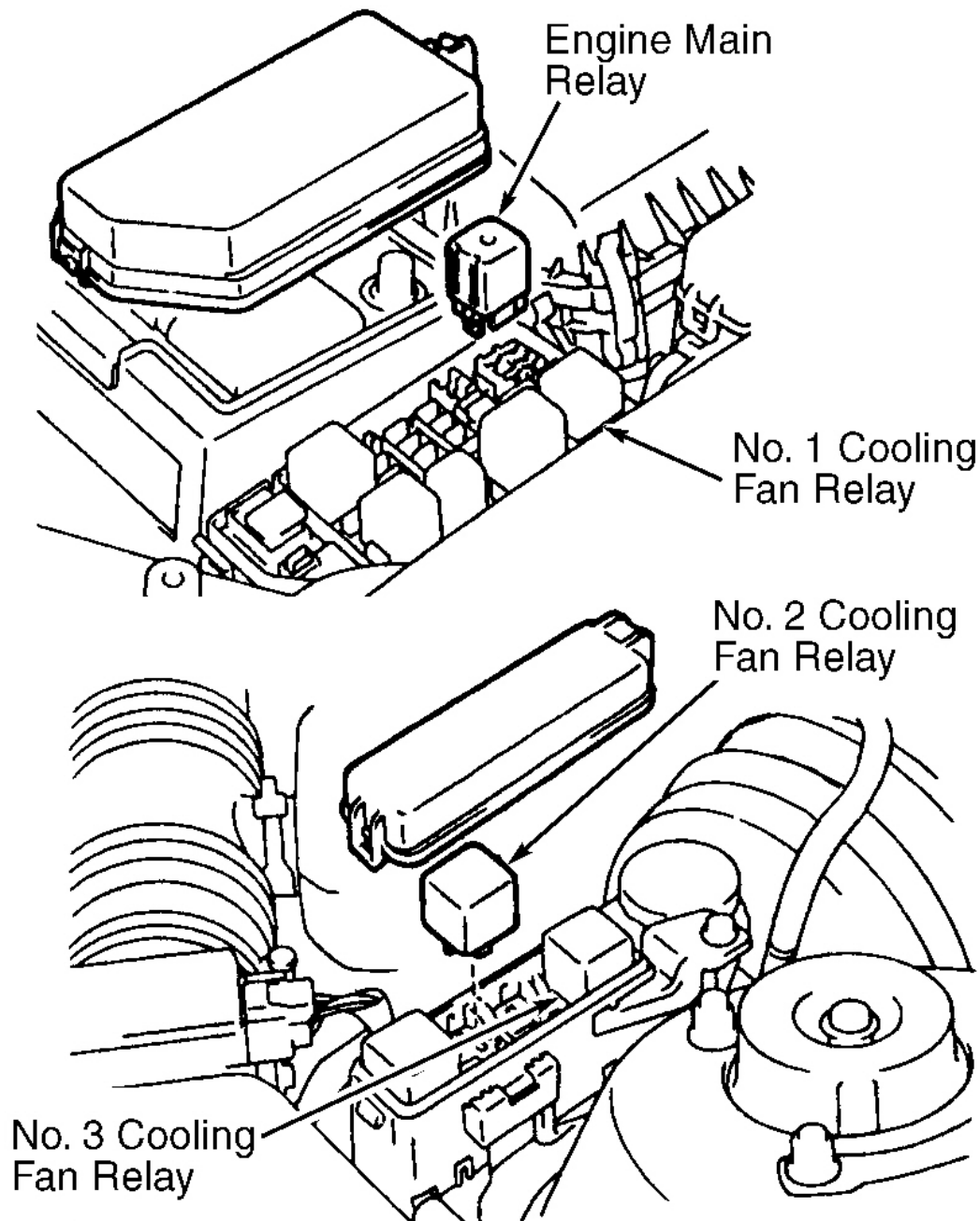
## 1999 Toyota RAV4

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2. To check relay operation, connect positive battery voltage to terminal No. 3 and ground to terminal No. 5. Check that no continuity exists between relay terminals No. 2 and 4. If continuity exists, replace relay. Check for continuity between relay terminals No. 1 and 2. If no continuity exists, replace relay.
3. Reinstall engine main relay.

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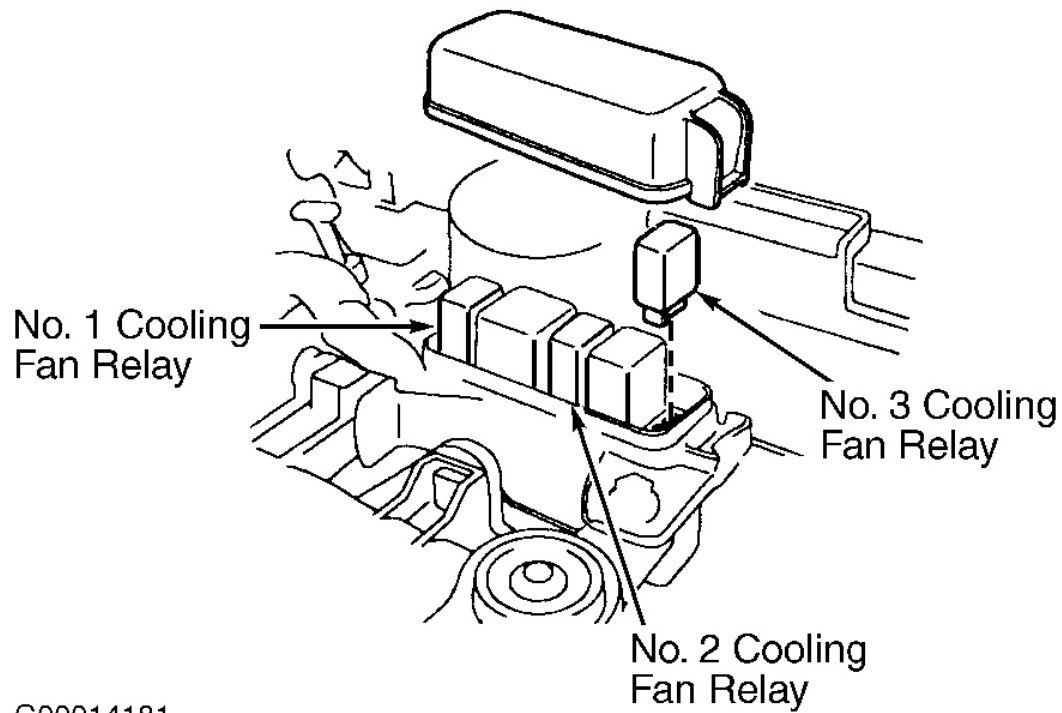
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**Fig. 2: Identifying Relay Locations (Avalon - 1999)**  
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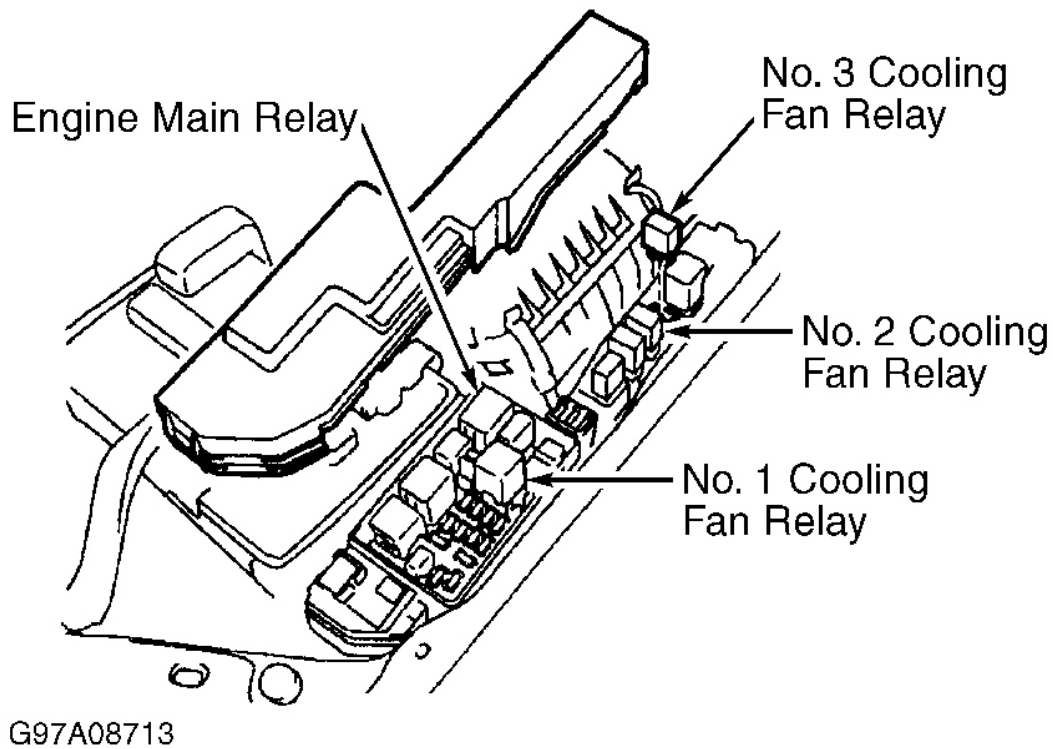


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**Fig. 3: Identifying Relay Locations (Avalon - 2000)**  
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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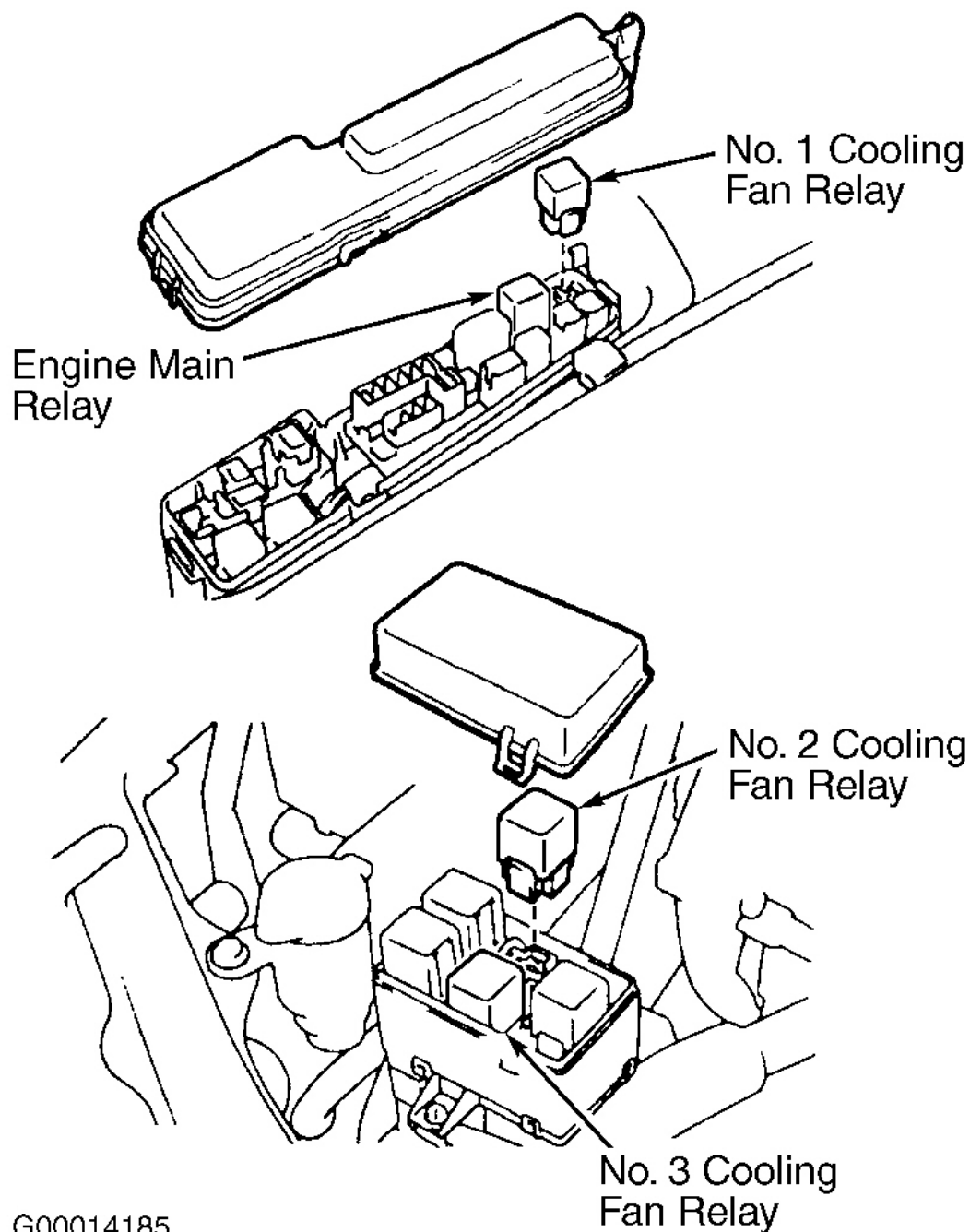
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**Fig. 4: Identifying Relay Locations (Camry & Camry Solara)**  
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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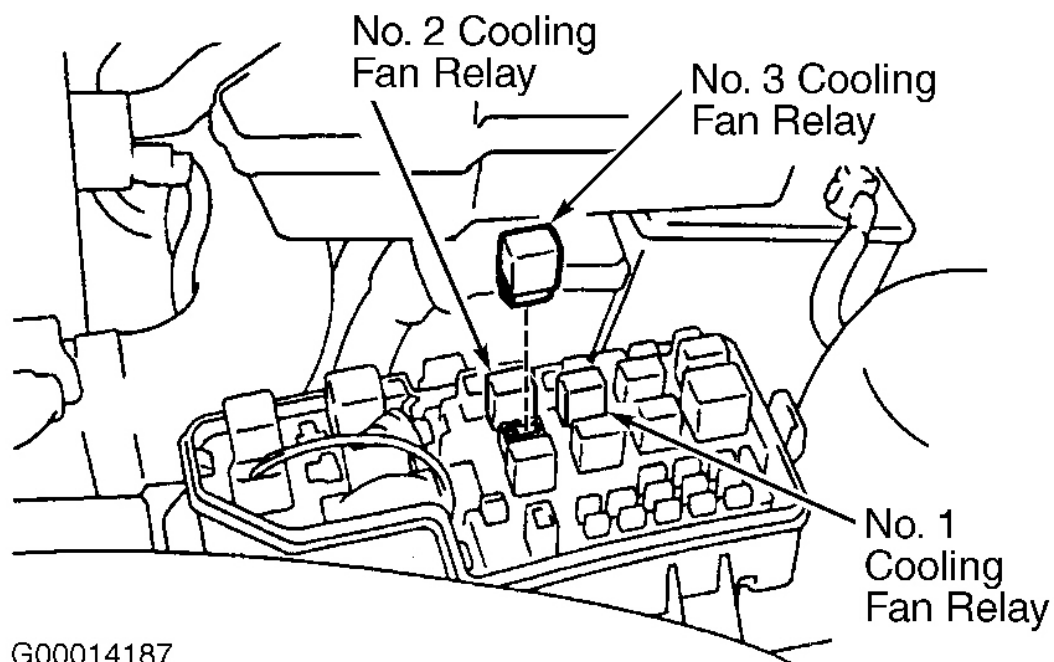


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**Fig. 5: Identifying Relay Locations (Celica - 1999)**  
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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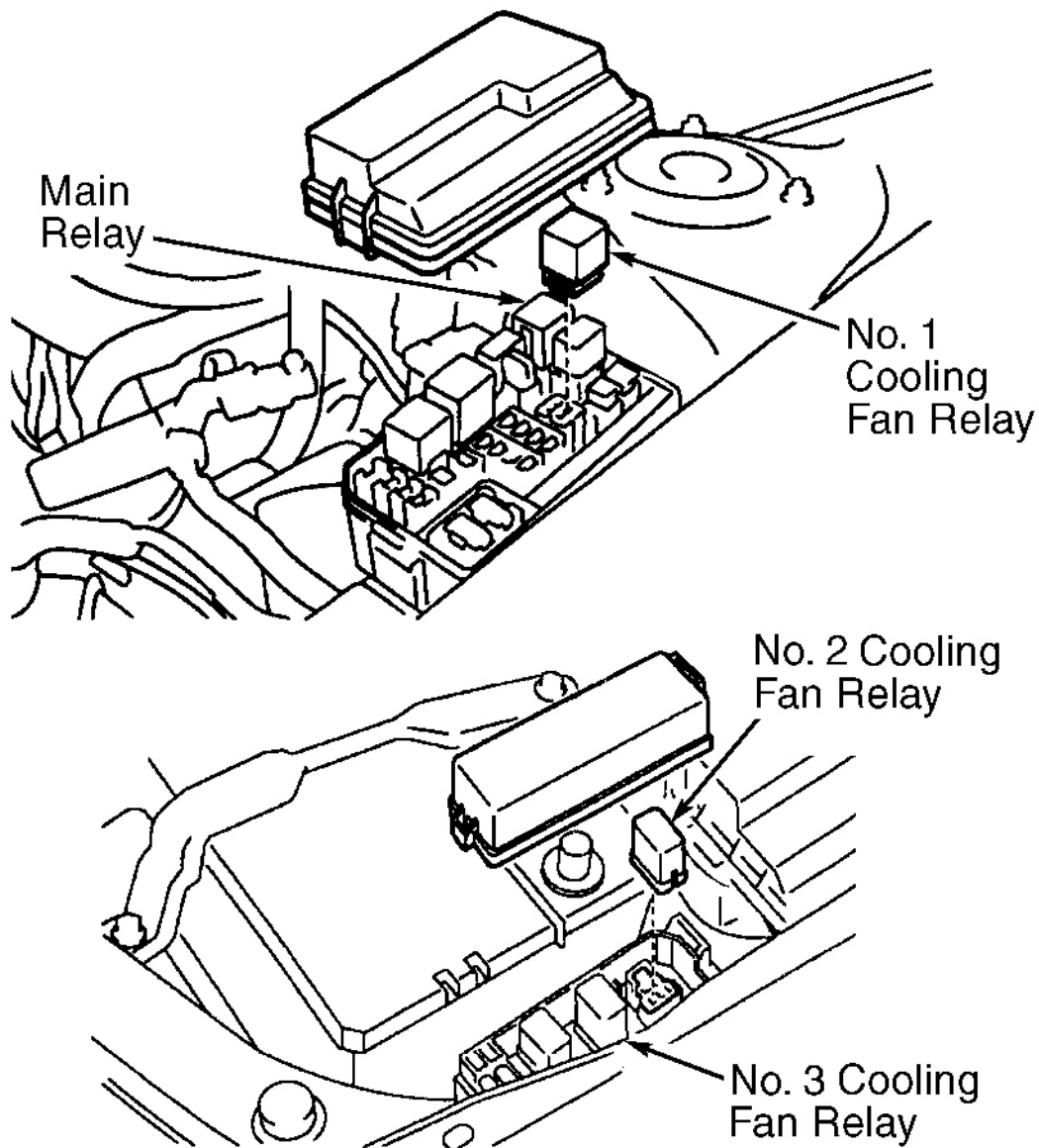
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**Fig. 6: Identifying Relay Locations (Celica - 2000)**  
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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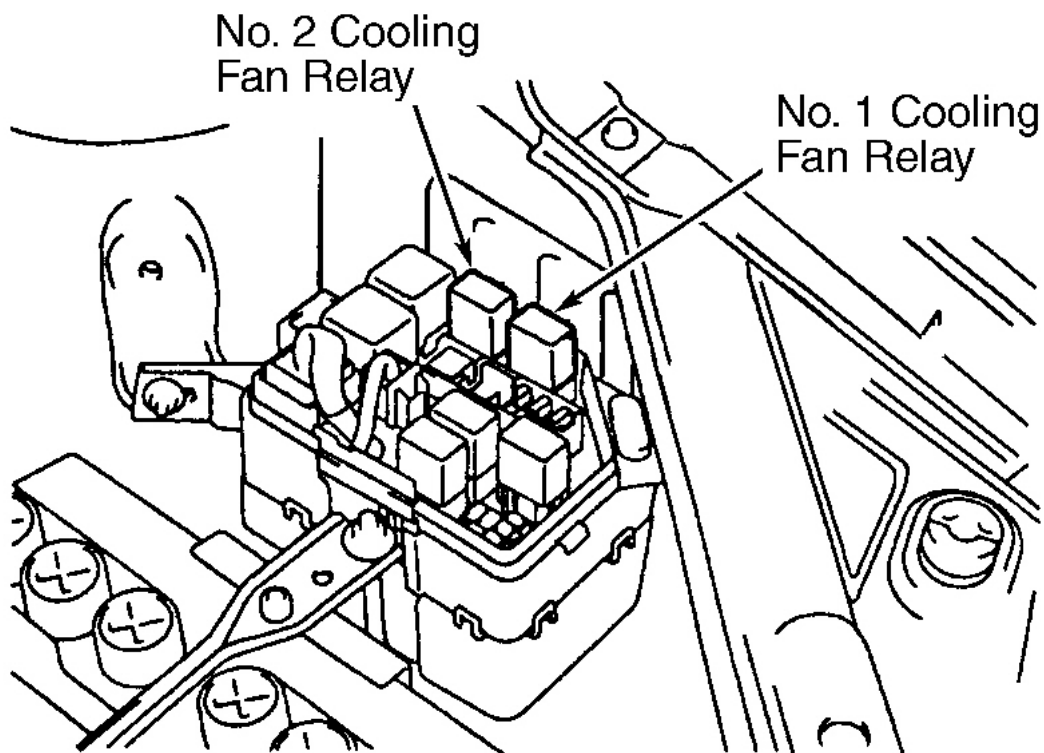


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**Fig. 7: Identifying Relay Locations (Corolla)**  
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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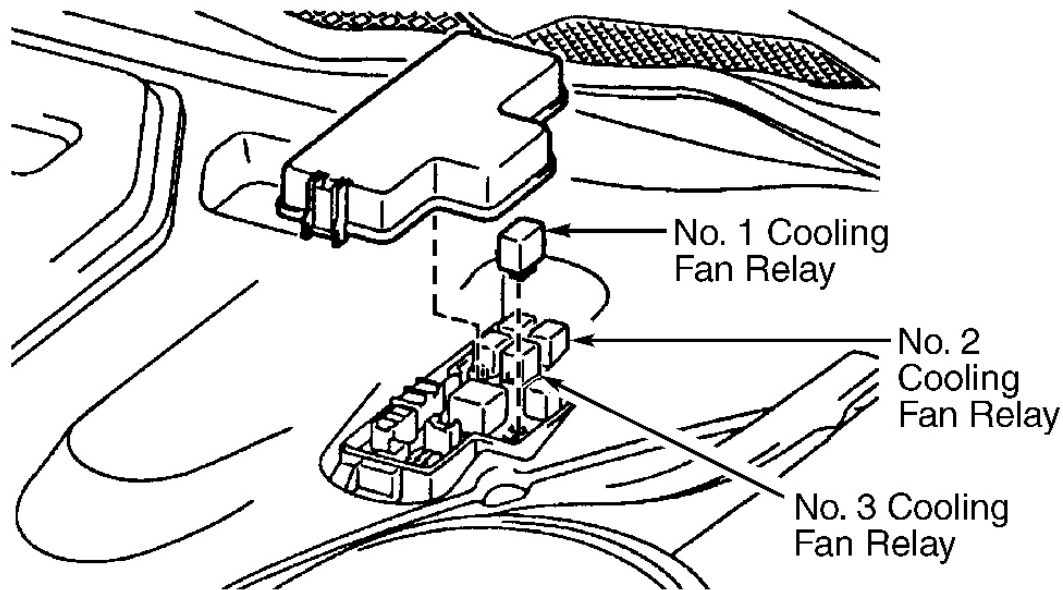
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**Fig. 8: Identifying Relay Locations (ECHO)**

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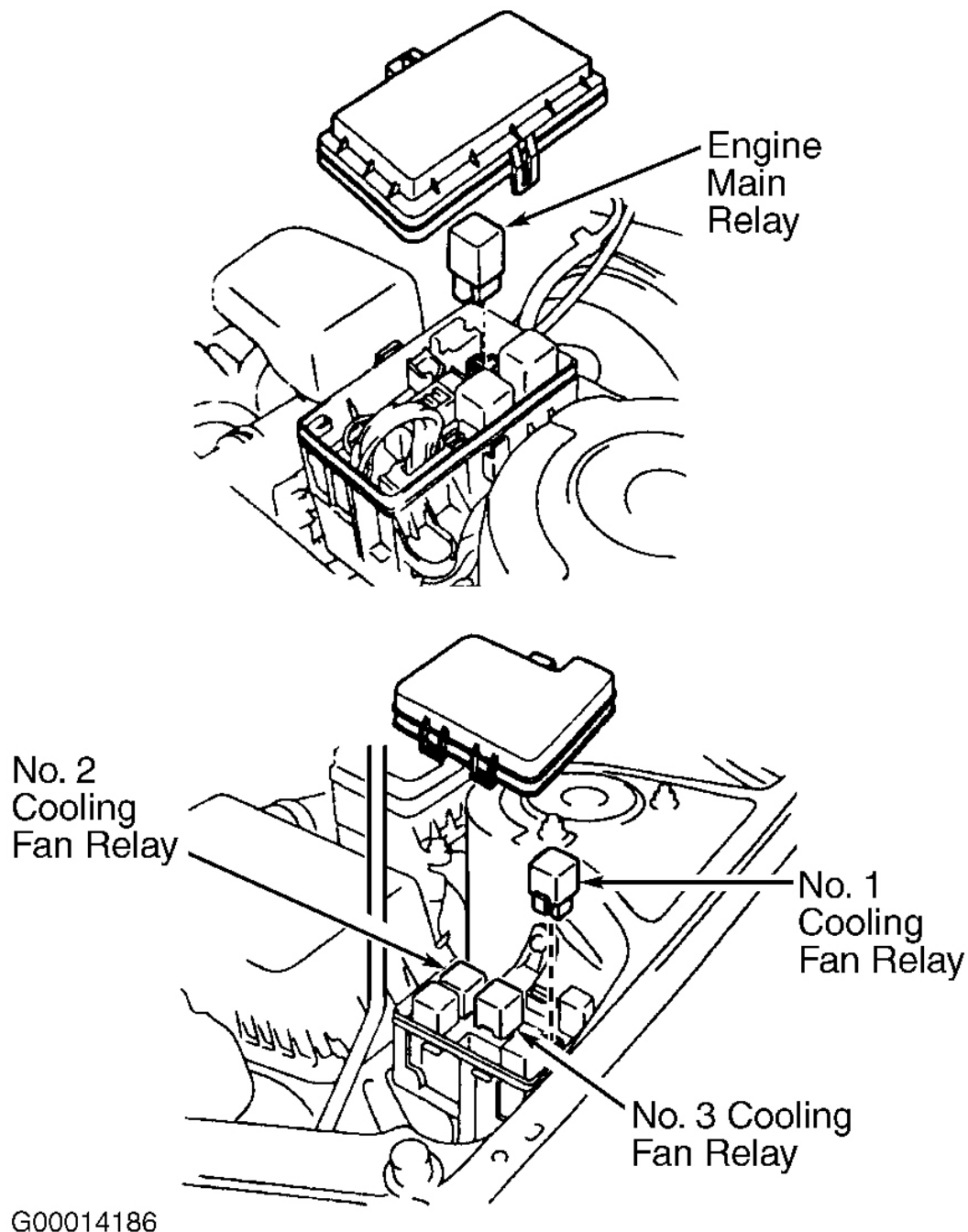
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**Fig. 9: Identifying Relay Locations (MR2)**

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

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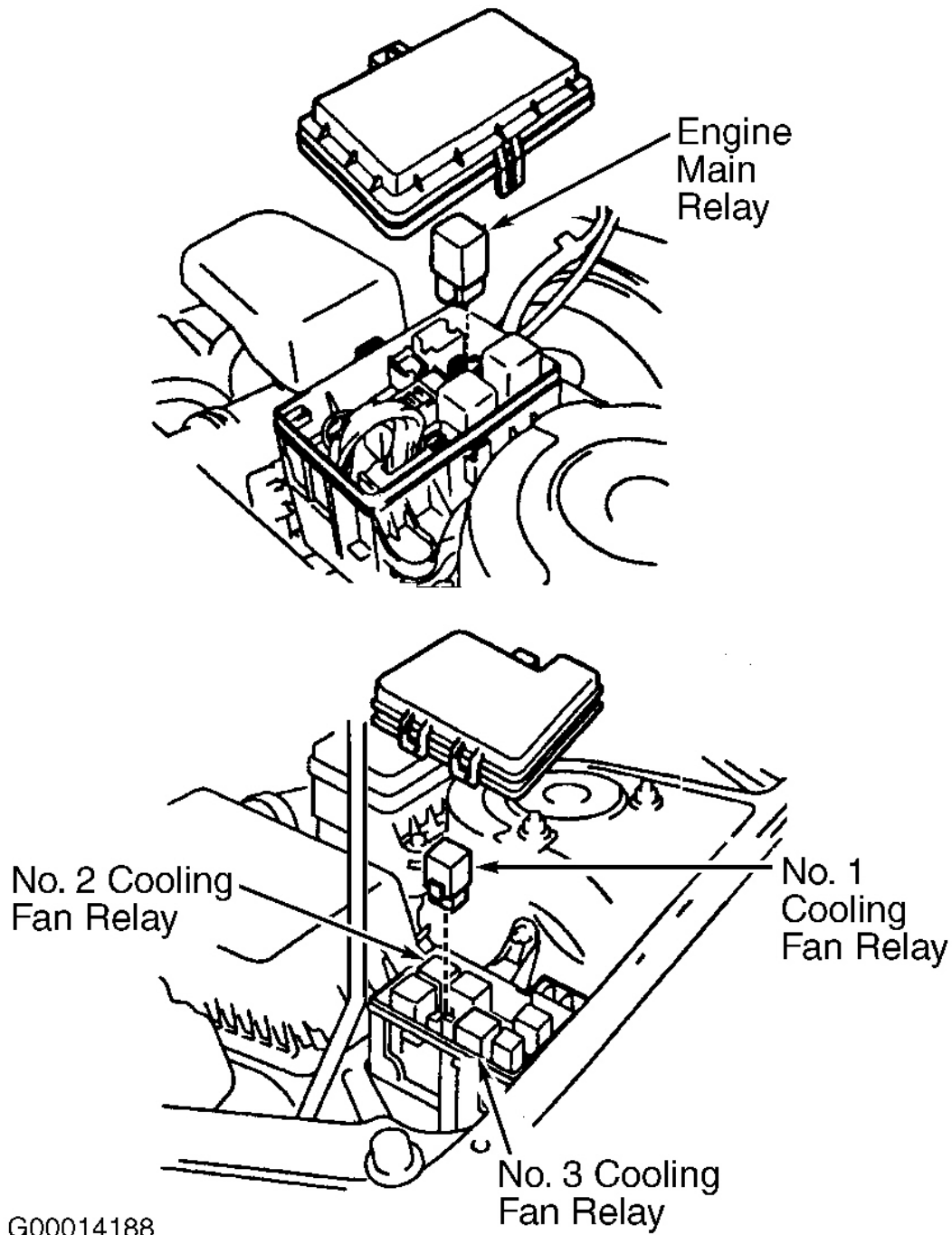


**Fig. 10: Identifying Relay Locations (RAV4 - 1999)**  
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.



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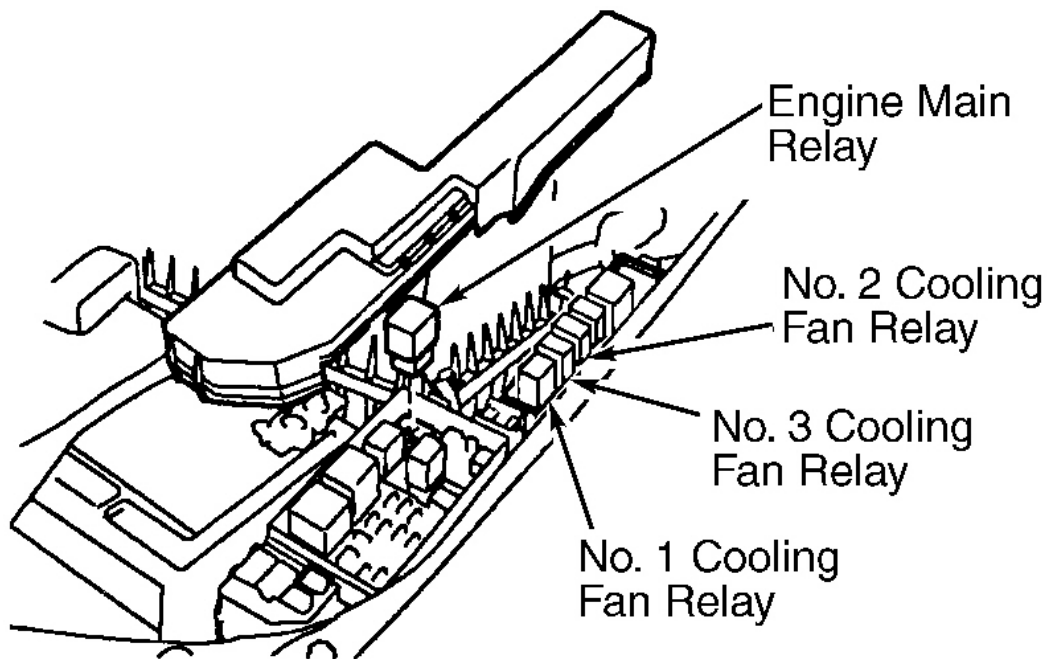
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**Fig. 11: Identifying Relay Locations (RAV4 - 2000)**  
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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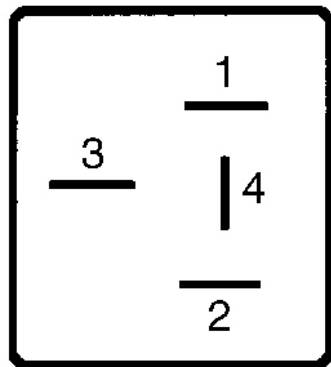


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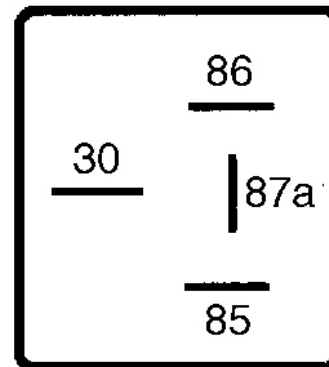
**Fig. 12: Identifying Relay Locations (Sienna)**  
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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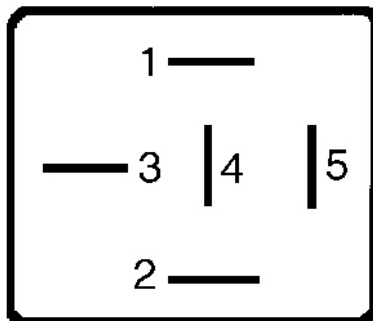


DENSO TYPE

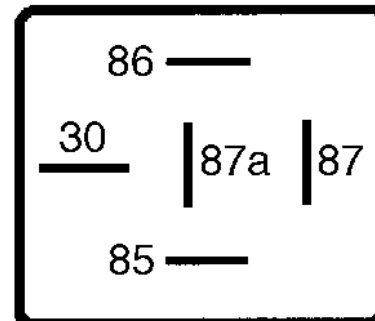


BOSCH TYPE

NO. 1 COOLING FAN RELAY

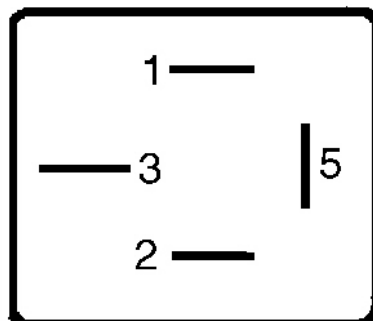


DENSO TYPE

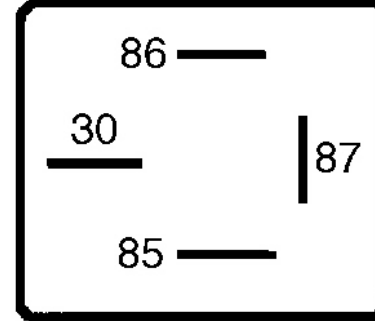


BOSCH TYPE

NO. 2 COOLING FAN RELAY



DENSO TYPE



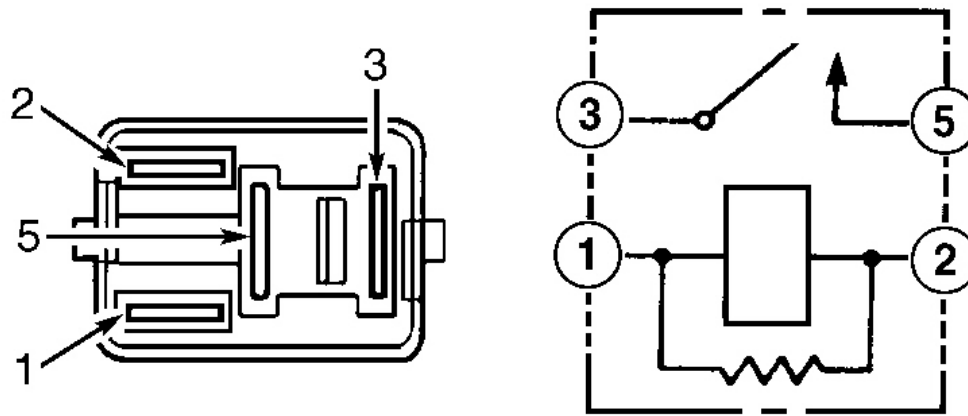
BOSCH TYPE

NO. 3 COOLING FAN RELAY

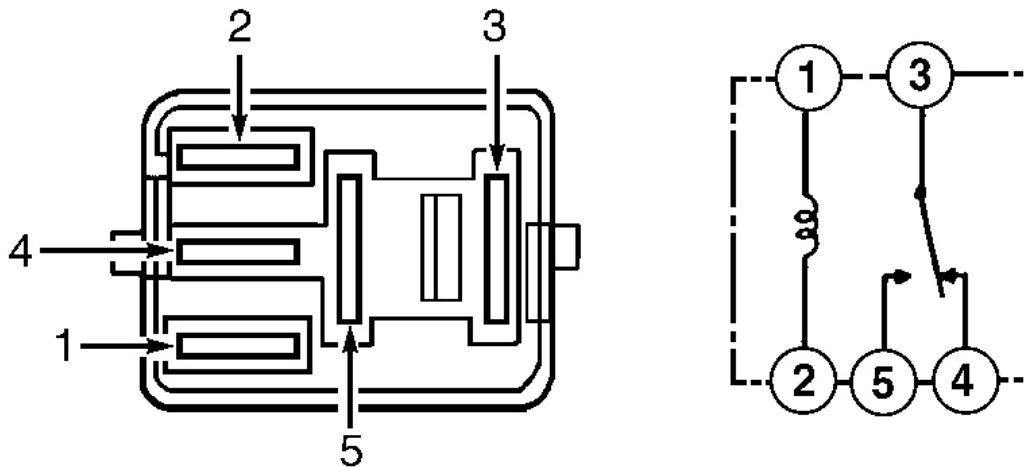
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**Fig. 13: Identifying Terminals Of Cooling Fan Relays (Avalon, Celica & RAV4 - 1999)**  
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NO. 1 & NO. 3 COOLING FAN RELAY



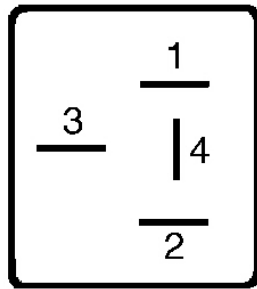
NO. 2 COOLING FAN RELAY

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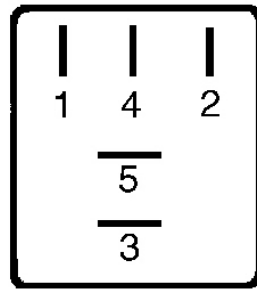
**Fig. 14: Identifying Terminals Of Cooling Fan Relays (Avalon, Celica, ECHO, MR2 & RAV4 - 2000)**  
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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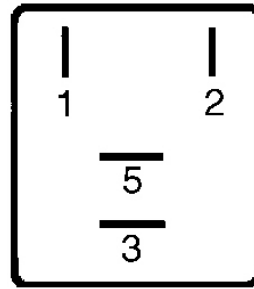
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NO. 1 COOLING  
FAN RELAY



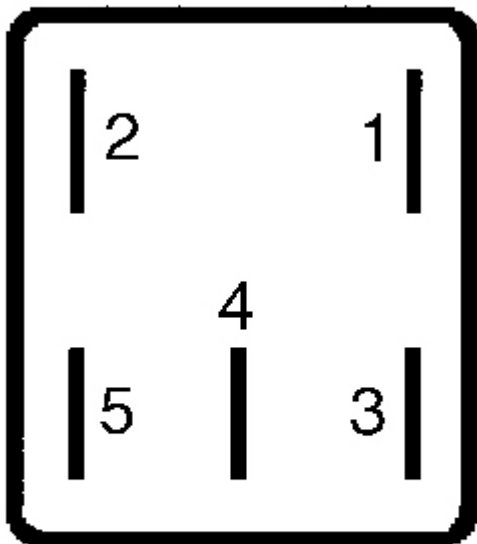
NO. 2 COOLING  
FAN RELAY



NO. 3 COOLING  
FAN RELAY

G00008298

**Fig. 15: Identifying Terminals Of Cooling Fan Relays (Camry, Camry Solara, Corolla & Sienna)**  
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**Fig. 16: Identifying Terminals Of Engine Main Relay**

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## ENGINE COOLANT TEMPERATURE (ECT) SWITCH

Avalon, Camry 3.0L, Camry Solara 3.0L, & Sienna

1. Drain engine coolant. Remove ECT switches. See **ECT SWITCH LOCATION** table. Place ECT switch thermal sensor into a water bath.
2. Using an ohmmeter, check that there is no continuity between ECT switch terminals when coolant temperature is above 208°F (98°C) on No. 1 ECT switch or below 181°F (83°C) on No. 2 ECT switch. If there is continuity, replace switch.
3. Cool water and check that there is continuity between the switch terminals when coolant temperature is below 190°F (88°C) or above 199°F (93°C), on Avalon, or above 201°F (94°C), on Camry with 3.0L, Camry Solara with 3.0L and Sienna. If there is no continuity, replace switch.
4. Reinstall switches. Fill with engine coolant.

Camry 2.2L, Camry Solara 2.2L, Celica (1999), Corolla, ECHO & RAV4

1. Drain engine coolant. Remove ECT switch. See **ECT SWITCH LOCATION** table. Place ECT switch thermal sensor into a water bath.
2. Using an ohmmeter, check that there is no continuity between ECT switch terminals when coolant temperature is above 199°F (93°C). If continuity exists, replace ECT switch.
3. Cool water and check that there is continuity when coolant temperature is below 181°F (83°C). If there is no continuity, replace ECT switch.
4. Reinstall switches. Fill with engine coolant.

## ENGINE COOLANT TEMPERATURE (ECT) SENSOR

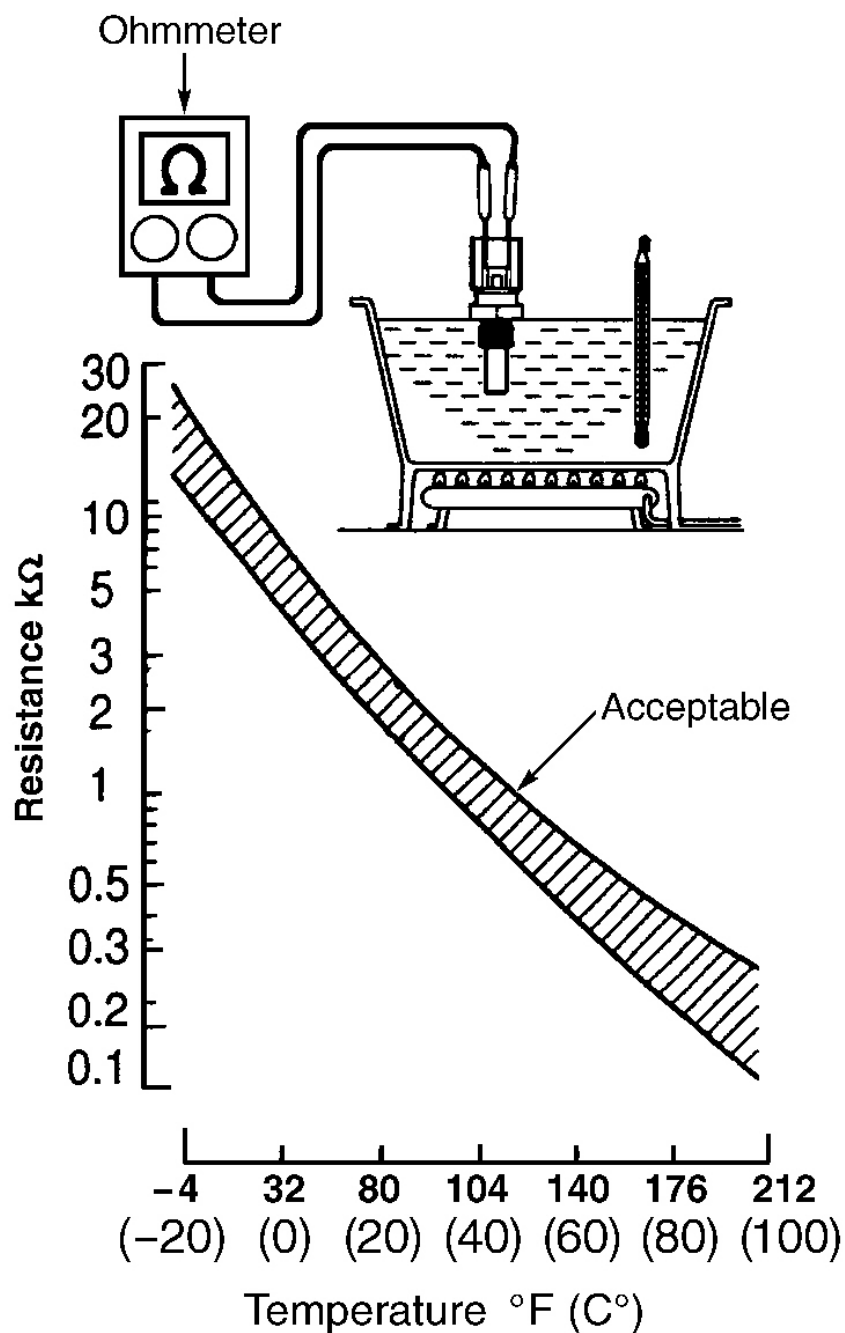
MR2 & 2000 Celica

1. Drain engine coolant. On 2000 Celica, remove No. 2 cylinder head cover. On all models, remove ECT sensor. See **ECT SENSOR LOCATIONS** . Place ECT sensor and thermometer into a water bath.

### ECT SENSOR LOCATIONS

Application	Sensor Location
Celica (2000)	Driver's Side, Rear Of Radiator
MR2	Passenger's Side, Rear Of Radiator

2. Measure resistance between terminal Nos. 1 and 2. See **Fig. 17** . If resistance is not as specified, replace ECT sensor.



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**Fig. 17: Measuring ECT Sensor Resistance**  
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Install NEW gasket on sensor, and reinstall ECT sensor. On 2000 Celica, reinstall No. 2 cylinder head

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cover. On all models, fill with engine coolant.

#### RADIATOR COOLING FAN

1. Disconnect electrical connector from radiator cooling fan. Connect battery and ammeter to electrical connector on radiator cooling fan.
2. Radiator cooling fan should operate smoothly and amperage draw should be within specification. See **RADIATOR COOLING FAN AMPERAGE DRAW SPECIFICATIONS** table.
3. Replace radiator cooling fan if fan fails to rotate smoothly or amperage draw is not within specification. Retest system.

#### RADIATOR COOLING FAN AMPERAGE DRAW SPECIFICATIONS

Application	Amps @ 68°F (20°C)
Avalon	
1999	5.1-6.3
2000	8.5-11.5
Camry	
2.2L (5S-FE)	4.9-8.5
3.0L (1MZ-FE)	8.3-11.3
Celica	
1999	5.7-7.7
2000	5.2-8.2
Corolla	5.2-8.2
ECHO	7.8-11.8
MR2	5.7-7.7
RAV4	10.9-13.9
Sienna <sup>(1)</sup>	
"S1" & "S2"	8.5-11.5
"T1" & "T2"	14-20
(1) Identification marking is at top of fan shroud.	

#### WIRING DIAGRAMS



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1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 18: Electric Cooling Fan System Wiring Diagram (1999 Avalon)**

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1999-2000 ENGINE COOLING Electric Cooling Fans

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 19: Electric Cooling Fan System Wiring Diagram (2000 Avalon)**

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 20: Electric Cooling Fan System Wiring Diagram (1999-2000 Camry & Camry Solara - 2.2L)**

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1999-2000 ENGINE COOLING Electric Cooling Fans

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 21: Electric Cooling Fan System Wiring Diagram (1999-2000 Camry & Camry Solara - 3.0L)**



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**Fig. 22: Electric Cooling Fan System Wiring Diagram (1999 Celica)**

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1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 23: Electric Cooling Fan System Wiring Diagram (2000 Celica)**

1999 Toyota RAV4
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1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 24: Electric Cooling Fan System Wiring Diagram (1999 Corolla)**

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 25: Electric Cooling Fan System Wiring Diagram (2000 Corolla)**



1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 26: Electric Cooling Fan System Wiring Diagram (2000 ECHO)**

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 27: Electric Cooling Fan System Wiring Diagram (1999 Land Cruiser)**

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 28: Electric Cooling Fan System Wiring Diagram (2000 Land Cruiser)**

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 29: Electric Cooling Fan System Wiring Diagram (2000 MR2)**



1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 30: Electric Cooling Fan System Wiring Diagram (1999-2000 RAV4)**

1999 Toyota RAV4

1999-2000 ENGINE COOLING Electric Cooling Fans

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 31: Electric Cooling Fan System Wiring Diagram (1999-2000 Sienna - With Towing Package)**

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

1999 Toyota RAV4
1999-2000 ENGINE COOLING Electric Cooling Fans

**Fig. 32: Electric Cooling Fan System Wiring Diagram (1999-2000 Sienna - Without Towing Package)**